

CONNECTICUT'S 2011 PERIODIC EMISSIONS INVENTORY

Prepared by the,



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SECTION 1 BACKGROUND AND EMISSION SUMMARY

1.1 INTRODUCTION

1.1.1 Type of Inventory, Pollutants, and Source Categories

This document presents the 2011 periodic Ozone and PM_{2.5} State Implementation Plan (SIP) emission inventories for all attainment and non-attainment areas within the State of Connecticut. The inventories address annual and daily reactive volatile organic compounds (VOC), oxides of nitrogen (NO_x) and carbon monoxide (CO); and annual sulfur dioxide, PM_{2.5} primary, PM₁₀ primary, ammonia and lead emissions from stationary point, stationary area, off-highway mobile, and highway mobile emission sources. Emissions of VOC from biogenic sources are also quantified. Ozone SIP precursor emissions (i.e., VOC, NO_x, and CO) are presented for typical high ozone summer day in units of pounds per day or tons/day and also on an annual basis in units of tons per year. The emissions of sulfur dioxide, PM_{2.5} primary, PM₁₀ primary, ammonia and lead are presented on an annual basis, expressed in tons per year (TPY).

This 2011 PEI is being submitted in accordance with Federal regulatory mandates and shall serve as the basis for future year projections. The 2011 PEI does not address the tracking of potential emission offsets from shutdown sources. The CT DEEP will use the 2011 PEI, with appropriate adjustments to account for banked offsets, when developing inventories for future required Reasonable Further Progress, as well as upcoming Attainment Demonstration and/or Maintenance SIPs.

1.1.2 Geographic Areas

The emission inventories encompass all areas that were designated by EPA as non-attainment for the 8-hour ozone standard enacted in 2008. In November 1991, EPA had designated Connecticut as non-attainment for the 1-hour ozone standard. The 1-hour ozone standard was phased out in 2005, leaving only the 8-hour standard for ozone. The 8-hour non-attainment areas replace the 1-hour non-attainment areas used in previous periodic inventories. Since EPA's national emission inventory only tracks emissions at the county level, emissions for the 2011 periodic inventory are provided for each county. County boundaries are presented in Figure 1.1.2-1. Fairfield, New Haven and Middlesex county emissions were used to estimate the Connecticut portion of the NY-NJ-CT Consolidated Statistical Area (CSA) Ozone non-attainment area. The emissions from the remaining counties were aggregated to estimate the Greater Connecticut Ozone non-attainment area. The ozone non-attainment status areas are presented in Figure 1.1.2-2.

In 2006, EPA designated the Connecticut portion of the NY-NJ-CT CSA as non-attainment for the annual and 24-hour PM_{2.5} standard, while the remainder of Connecticut was designated attainment. The PM_{2.5} non-attainment status areas as of 2011 are presented in Figure 1.1.2-3. EPA redesignated the Connecticut portion of the NY-NJ-CT area (i.e., Fairfield and New Haven Counties) as Attainment for the 1997 Annual and 2006 24-Hour PM_{2.5} NAAQS, effective 10/12/2013. In addition, effective 4/15/2015, EPA designated all of Connecticut as Unclassifiable/Attainment for the 2012 annual PM_{2.5} NAAQS.

In November 1991, EPA designated the Hartford Metropolitan Statistical Area (MSA) and the Connecticut portion of the NY-NJ-CT CSA as CO moderate non-attainment. EPA re-designated the Hartford MSA CO non-attainment area to attainment in 1996, the New Haven-Meriden-Waterbury CO non-attainment area to attainment in 1998, and the Connecticut portion of the NY-NJ-CT CSA CO non-attainment area to attainment in 1999, making the entire state attainment for CO. The Carbon Monoxide attainment areas are presented in Figure 1.1.2-4.

**Figure 1.1.2-1
Connecticut County Boundaries**

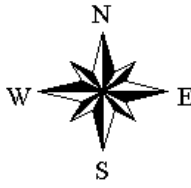
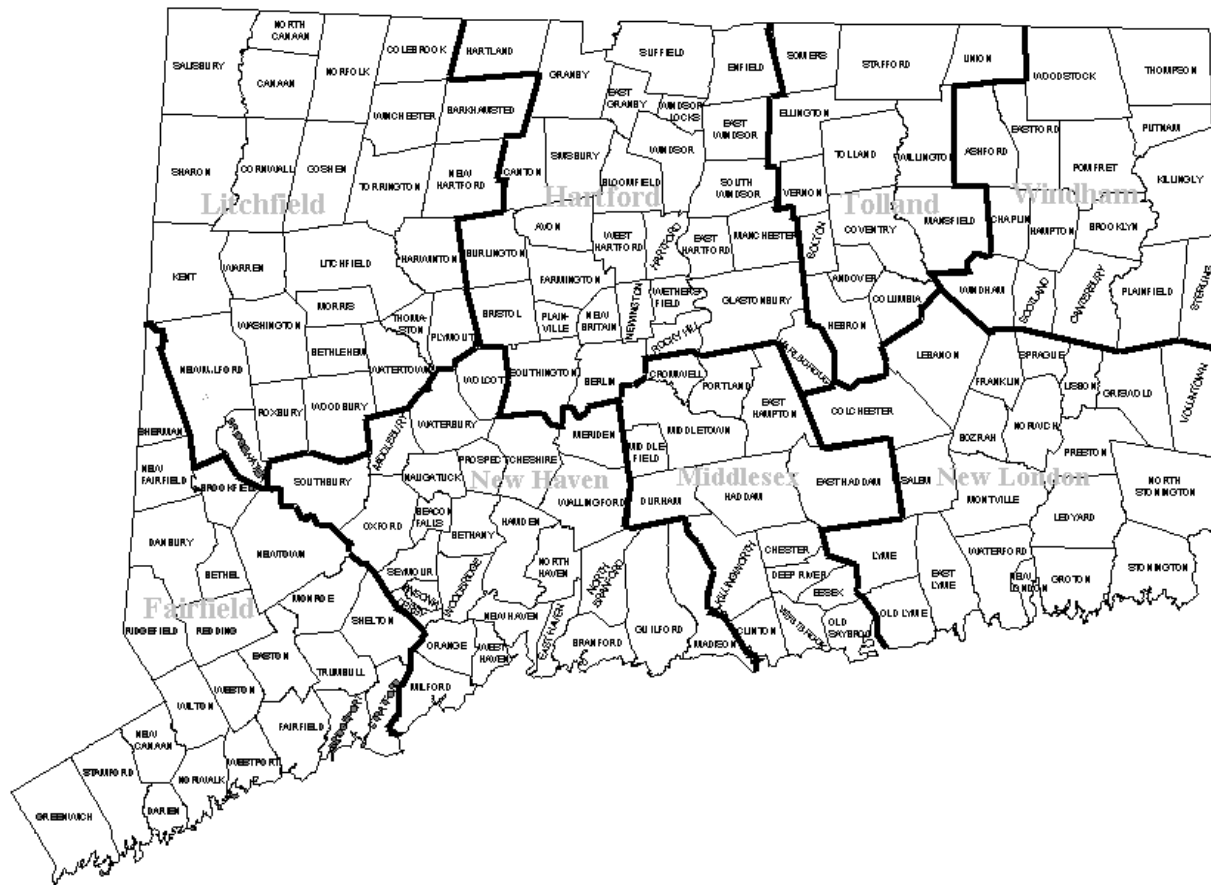


TABLE 1.1.2 - 1

2011 8-HOUR OZONE
STATUS AREAS

DESCRIPTION OF OZONE STATUS AREA	DESIGNATION/ CLASSIFICATION
CT. PORTION OF NY-NJ-CT AREA Fairfield County New Haven County Middlesex County	Nonattainment/ Moderate
GREATER CONNECTICUT AREA Hartford County Litchfield County New London County Tolland County Windham County	Nonattainment/ Moderate

TABLE 1.1.2 - 2

2011 PM2.5
STATUS AREAS (Note 1)

DESCRIPTION OF PM2.5 STATUS AREA	DESIGNATION/ CLASSIFICATION
CT. PORTION OF NY-NJ-CT AREA Fairfield County New Haven County	Nonattainment/
GREATER CONNECTICUT AREA Hartford County Litchfield County Middlesex County New London County Tolland County Windham County	Attainment/

Note (1): EPA re-designated the Connecticut portion of the NY-NJ-CT area (i.e., Fairfield and New Haven Counties) as Attainment for the 1997 Annual and 2006 24-Hour PM2.5 NAAQS, effective 10/12/2013. In addition, effective 4/15/2015, EPA designated all of Connecticut as Unclassifiable/Attainment for the 2012 annual PM2.5 NAAQS.

TABLE 1.1.2 - 3

2011 CARBON MONOXIDE
STATUS AREAS

DESCRIPTION OF CO STATUS AREA	DESIGNATION/ CLASSIFICATION
<p>CT. PORTION OF NY-NJ-CT CSA</p> <p>Fairfield County All cities and towns except Shelton</p> <p>Litchfield County Bridgewater and New Milford only</p>	<p>Attainment/ Maintenance</p>
<p>HARTFORD MSA</p> <p>Hartford County All cities and towns except Hartland</p> <p>Litchfield County Plymouth only</p> <p>Middlesex County Cromwell, Durham, East Hampton, Haddam, Middlefield, Middletown, Portland, East Haddam</p> <p>Tolland County Andover, Bolton, Ellington, Hebron, Somers, Tolland, Vernon</p>	<p>Attainment/ Maintenance</p>
<p>NEW HAVEN MSA AREA</p> <p>Fairfield County Shelton only</p> <p>Litchfield County Bethlehem, Thomaston, Watertown, Woodbury only</p> <p>New Haven County</p>	<p>Attainment/ Maintenance</p>
<p>EASTERN ATTAINMENT AREA</p> <p>Middlesex County All portions except cities and towns in Hartford MSA</p> <p>New London County</p> <p>Tolland County All portions except cities and towns in Hartford MSA</p> <p>Windham County</p>	<p>Attainment/ Unclassifiable</p>
<p>NORTHWEST ATTAINMENT AREA</p> <p>Hartford County Hartland only</p> <p>Litchfield County All portions except cities and towns in Hartford MSA, New Haven MSA, and Ct. Portion of NY-NJ-CT CSA</p>	<p>Attainment/ Unclassifiable</p>

**Figure 1.1-2-2
2011 Connecticut Ozone Attainment Status**

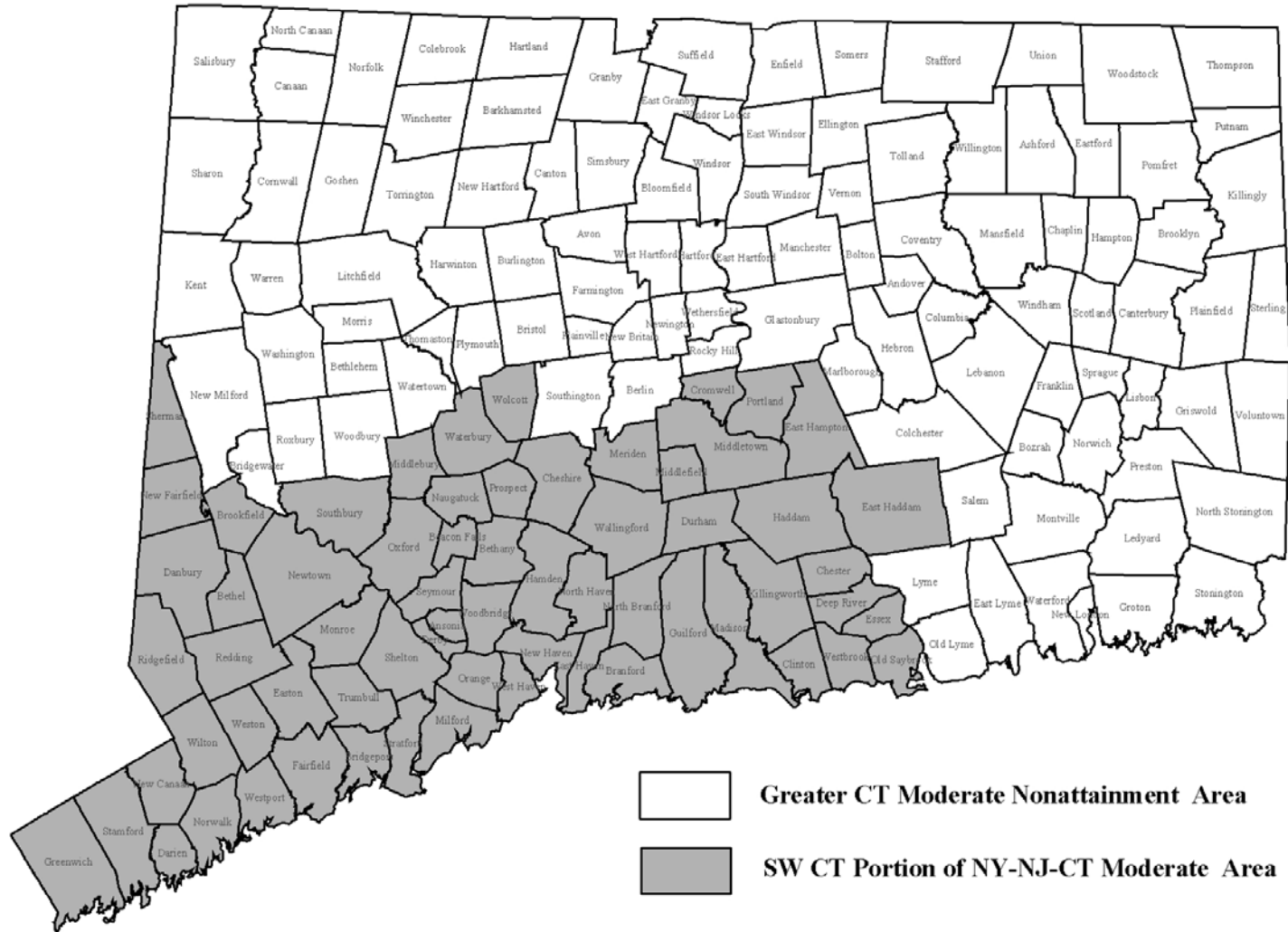
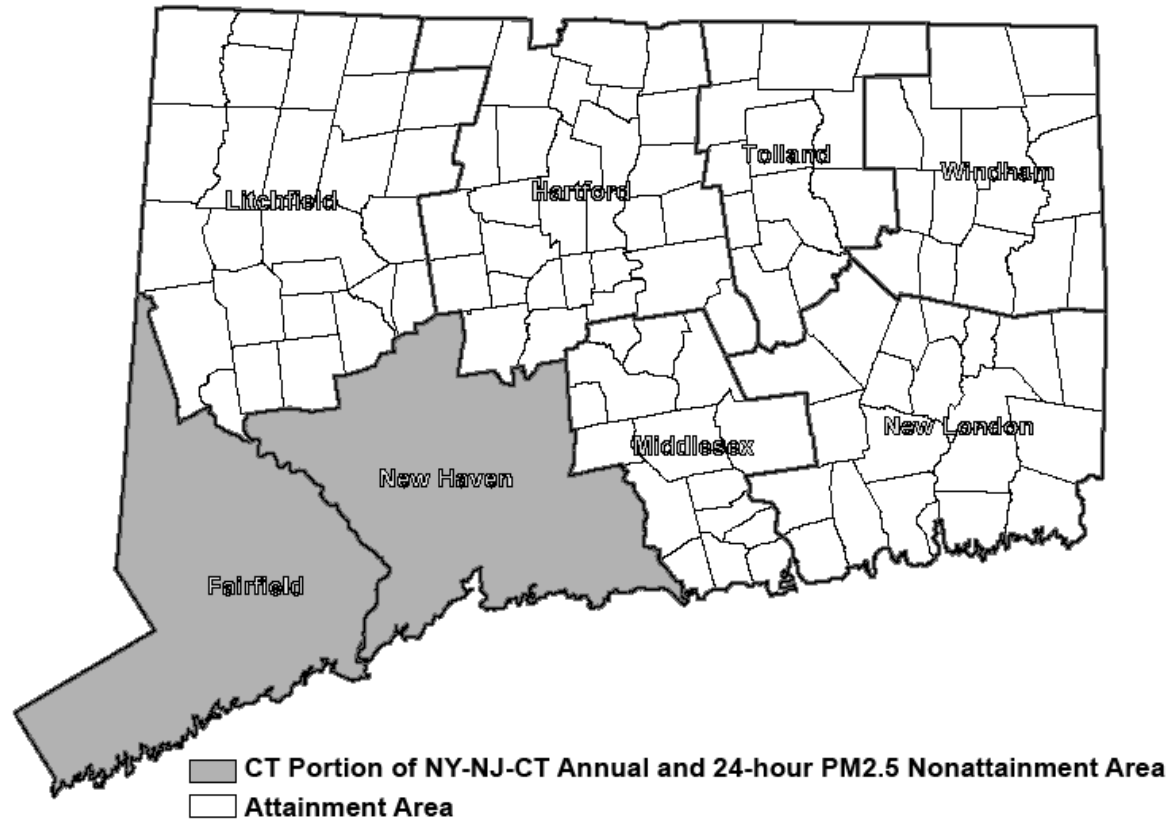


Figure 1.1.2-3
2011 Connecticut PM2.5 Attainment Status (Note 1)

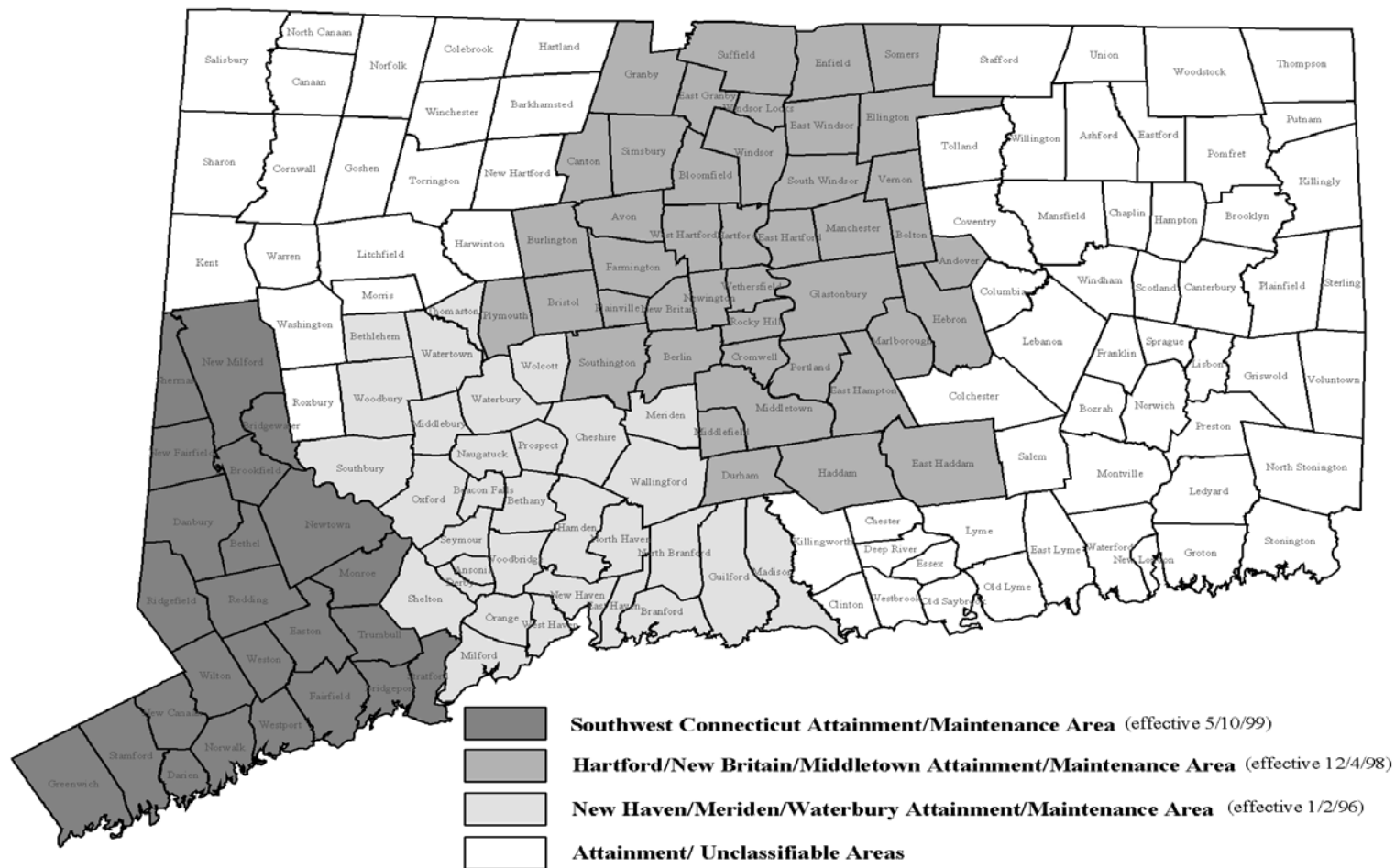


1 - 7

Note (1): EPA re-designated the Connecticut portion of the NY-NJ-CT area (i.e., Fairfield and New Haven Counties) as Attainment for the 1997 Annual and 2006 24-Hour PM2.5 NAAQS, effective 10/12/2013. In addition, effective 4/15/2015, EPA designated all of Connecticut as Unclassifiable/Attainment for the 2012 annual PM2.5 NAAQS.

Figure 1.1.2-4
2011 Connecticut CO Attainment Status

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1.1.3 Agencies/Contacts Responsible for Inventory

The lead agency responsible for the preparation and submittal of the Ozone and PM_{2.5} emission inventories is the Connecticut Department of Energy and Environmental Protection (DEEP), Bureau of Air Management (the Bureau). The Bureau was directly responsible for the collection of source level activity data, emission factor determination, emission calculations, documentation, and quality assurance. Other DEEP Bureaus and State Agencies contributed information necessary for the preparation of emission estimates. The Connecticut Department of Transportation (CT DOT) provided Vehicle Miles of Travel (VMT) data, daily and seasonal adjustment factor data, and documentation of CT DOT's methodology for VMT estimation for the highway mobile source inventory. The state Department of Motor Vehicles provided vehicle registry data used to determine the age distribution, to develop base line county level vehicle populations and to adjust some vehicle mix distributions of the vehicle fleet in Connecticut. The state Department of Labor (DOL) provided employment data by Standard Industrial Code (SIC) code for determining source activity levels for on-road mobile source emission inventories.

The stationary point source inventory was updated to represent calendar year 2011 data. The Bureau utilized its emissions statement program to ascertain fuel use data, process data, and daily and seasonal operating characteristics in order to update emissions from each facility that operated pursuant to a Title V permit anytime during calendar year 2011 or if such facility is a new Title V source yet to obtain a Title V permit. A definition of a Title V facility can be found in Section 22a-174-33 of Connecticut's regulations for the abatement of air pollution.

The contact people for the CT DOT and other major contributors to the inventories are listed in Table 1.1.3 - 1. The data provided by each of these groups, as well as their roles in the development of the base year inventories, are explained in detail in the appropriate source type documentation section.

TABLE 1.1.3 - 1
LIST OF CONTACT PEOPLE FOR THE OZONE AND CO INVENTORIES

AGENCY	RESPONSIBILITY	CONTACT/PHONE NO.
Department of Energy and Environmental Protection Bureau of Air Management 79 Elm Street Hartford, CT 06106	Overall Inventory Planning & Development	Richard Rodrigue (860) 424- 4152
	Mobile Emissions Data and Activity Levels	Steve Potter (860) 424-4152
	Point Emissions Data and Activity Levels	Christopher Mulcahy (860) 424-4152
	Area Emissions Data and Activity Levels	Henry Hampton (860) 424-4152
Department of Transportation 2800 Berlin Turnpike Newington, CT 06111	VMT Generation and Other Highway Vehicle Data	Judy Raymond (860) 594-2032

1.1.4 Basic Assumptions/Issues

EPA procedures have been followed in developing the emission inventories for the SIP. The document, Emission Inventory Guidance for Implementation of Ozone and Particulate Matter National Ambient Air Quality Standards (NAAQS) and Regional Haze (EPA-454/R-05-001), was used in developing this document. The document Example Documentation Report for 1990 Base Year Ozone and Carbon Monoxide State Implementation Plan Emission Inventories (EPA-450/4-92-007) was used as guidance for the format of the SIP Inventory Document. The document Technical Guidance on the Use of MOVES2010 for Emission Inventory Preparation in State Implementation Plans and Transportation Conformity (EPA-420-B-10-023) was used in the development of MOVES2010b inputs.

Unless otherwise noted in the source type documentation sections, Compilation of Air Pollutant Emissions Factors, Fifth Edition, Volume I (AP-42) emission factors were used to calculate emissions for the stationary point, and off-highway mobile source emission inventories. MOVES model inventory mode runs with CT DOT prepared VMT inputs were used inputs to generate the highway mobile source inventory.

The Bureau adopted the EPA's 2011 area source estimates for Connecticut after reviewing and providing adjustments to the EPA's estimates, such as subtracting out emissions from the area sources that were already accounted for in the point source section of the inventory or modifying emission estimates based upon state specific information.

All point sources are identified by a Source Classification Code (SCC).

The following more commonly known non-reactive compounds have been excluded from the VOC emission inventories:

- Acetone
- Methane
- Ethane
- 1,1,1-Trichloroethane (Methyl Chloroform)
- Methylene Chloride
- Trichlorofluoromethane (CFC 11)
- Dichlorodifluoromethane (CFC 12)
- Chlorodifluoromethane (CFC 22)
- Trifluoromethane (CFC 23)
- Trichlorotrifluoroethane (CFC 113)
- Dichlorotetrafluoroethane (CFC 114)
- Chloropentafluoroethane (CFC 115)
- 2,2-Dichloro-1,1,1-trifluoroethane (HCFC 123)
- 2-Chloro-1,1,1,2-tetrafluoroethane (HCFC 124)

Pentafluoroethane (HFC 125)
1,1,2,2-Tetrafluoroethane (HFC 134)
1,1,1,2-Tetrafluoroethane (HFC 134a)
1,1-Dichloro-1-fluoroethane (HCFC 141b)
1-Chloro-1,1-difluoroethane (HCFC 142b)
1,1,1-Trifluoroethane (HFC 143a)
1,1-Difluoroethane (HFC 152a)
Perchloroethylene

A complete listing of non-reactive compounds are identified in the CT Regulations for the Abatement of Air Pollution Section 22a-174-1 (97) which have also been excluded from the VOC emission inventory.

A Reid Vapor Pressure (RVP) of 7.05 pounds per square inch (psi) Fairfield County and 7.09 pounds per square inch (psi) for all other Connecticut Counties was used for all Connecticut calculations involving evaporative emissions from the use, sale, or storage of gasoline during the summer months. This value was determined based upon an analysis of EPA's sampling program. There were no wintertime RVP data, consequently a RVP of 11.5661 psi was adopted from EPA's National County Database and used for all winter months' emission estimates. RVP for 'shoulder months' (i.e. fall and spring) were a calculated average of summer and winter fuel properties. Summary data from the EPA's sampling program properties used in the MOVES2010b runs is presented in Appendix B Table 1.

1.2 TEMPERATURE DETERMINATION

1.2.1 OZONE TYPICAL DAY TEMPERATURE DETERMINATION

EPA guidance specifies the methodology to determine the ambient temperature for the typical high ozone summer day in each non-attainment area. The time periods for the temperature determination were the consecutive three-month periods with the highest frequency of National Ambient Air Quality Standard (NAAQS) exceedance days (June - August) from 2000 through 2002. The ten highest 8-hour ozone concentrations that occurred in the State on unique dates were identified from the Aerometric Information Retrieval System (AIRS) AMP440/Maximum Values Report. Table 1.2.1-1 lists the ten highest 8-hour ozone concentrations on unique days in descending order for Connecticut. The 8-hour ozone values for the entire state were reviewed. Since the 10th and 11th highest ozone days had the same 8-hour ozone concentration, 11 days were used instead of 10.

TABLE 1.2.1-1
STATE OF CONNECTICUT
TEN HIGHEST OZONE CONCENTRATIONS ON UNIQUE DAYS
2000 – 2002

Date	Site	8-Hour Ozone Concentration (ppm)
7/2/2002	Madison	0.134
8/7/2001	Madison & Westport	0.133
8/9/2001	Madison	0.126
7/18/2002	Madison	0.126
8/13/2002	East Hartford	0.126
6/10/2000	Groton & Stratford	0.124
6/20/2001	Stafford	0.122
8/14/2002	Danbury	0.120
6/19/2001	Stafford	0.118
7/25/2001	Westport	0.114
8/12/2002	Westport	0.114

Note that 7/9/2002 was a high 8-Hour ozone concentration day, but 7/9/2002 was excluded from design consideration due to the impact of Canadian Wildfires.

The maximum and minimum temperatures, which occurred on the days listed in Table 1.2.1-1, are presented in Table 1.2.1-2. The temperatures for the Greater Connecticut Moderate Non-attainment Area were determined from National Weather Service Local Climatological Data Monthly Summary reports from Bradley International Airport, Windsor Locks Connecticut. The temperatures for the CT portion of NY-NJ-CT CSA were determined from National Virtual Data System Unedited Local Climatological Data from Danbury Municipal Airport, Danbury Connecticut.

TABLE 1.2.1-2
 GREATER CONNECTICUT AND CT PORTION OF NY-NJ-CT CSA
 HIGH AND LOW DAILY TEMPERATURES FOR THE
 TEN HIGHEST OZONE CONCENTRATIONS ON UNIQUE DAYS
 2000 – 2002

Date	GREATER CONNECTICUT Bradley Airport		CT. PORTION OF NY-NJ-CT CSA Danbury Airport	
	Max Temp (°F)	Min Temp (°F)	Max Temp (°F)	Min Temp (°F)
6/10/2000	92	63	88	58
6/19/2001	88	59	85	57
6/20/2001	91	64	86	67
7/25/2001	98	75	93	75
8/7/2001	98	73	96	72
8/9/2001	102	71	99	68
7/2/2002	97	70	91	72
7/18/2002	94	69	91	67
8/12/2002	94	67	92	62
8/13/2002	98	66	94	66
8/14/2002	99	68	93	67
Avg.	95.5	67.7	91.6	66.5

The calculated average maximum and average minimum temperatures for the eleven dates are 95.5°F and 67.7°F, respectively, for the Greater Connecticut Moderate Non-attainment area. The calculated average maximum and average minimum temperatures for the eleven dates are 91.6°F and 66.5°F, respectively, for the CT portion of NY-NJ-CT CSA. The ambient ozone summer day temperature is calculated according to the formula:

$$Amb\ Temp = ((2/3) \times (avg\ max\ temp - avg\ min\ temp)) + avg\ min\ temp$$

$$Amb\ Temp = ((2/3) \times (95.5^\circ F - 67.7^\circ F)) + 67.7^\circ F = 86.2^\circ F$$

Thus, the typical high ozone summer day temperature, which will be used for calculations

$$Amb\ Temp = ((2/3) \times (91.6^\circ F - 66.5^\circ F)) + 66.5^\circ F = 83.2^\circ F$$

throughout this document is 86°F for the Greater Connecticut Moderate Non-attainment Area and

83°F for the CT portion of the NY-NJ-CT CSA.

These maximum and minimum temperatures calculated above were input into the EPA's [Meteorological Data Converter MOBILE6 \(XLS\)](#) to yield the results presented in Appendix B, Tables 2 and 3. These values were input into MOVES summer day runs to obtain emission estimates for the applicable counties. This is further discussed in the section 3.2.2 overview and section 3.2.2.1.1.

1.2.2 ANNUAL TEMPERATURE DETERMINATION

MOVES meteorological inputs consist of temperature and humidity data for months, zones (counties) and hours included in the MOVES run specification. Temperature and to a lesser extent humidity change emission estimates, consequently assumptions used for regional conformity analyses must be consistent with those used to establish the emissions budget in the SIP as required in the transportation conformity rule, 40 CFR §93.122(a)(6). MOVES meteorological inputs for the MARAMA annual modeling effort used the NMIM National County Database (version NCD20090531) for 2007 analyses.⁶ The temperature and humidity used as an input for the annual 2011 Periodic Emissions Inventory maintained consistency with the 2007 NCD20090531 data to maintain consistency with these prior analyses This is further discussed in the section 3.2.2 overview and section 3.2.2.1.2.

1.3 EMISSIONS SUMMARY

This section presents emissions summaries for all Ozone and CO non-attainment areas within the State of Connecticut. County level emissions data for all pollutants are also presented.

Countywide annual VOC, NO_x, CO; sulfur dioxide (SO₂), PM_{2.5} primary, PM₁₀ primary, ammonia (NH₃) and lead emissions are presented in Table 1.3 – 1 and 1.3-1a. Countywide ozone precursor emissions are presented in 1.3-2 and 1.3-2a. Ozone precursor emissions are presented by source category for each non-attainment area in Tables 1.3 - 3 and 1.3 - 4.

Annual VOC, NO_x, CO; sulfur dioxide (SO₂), PM_{2.5} primary, PM₁₀ primary, ammonia (NH₃) and lead emissions are presented by source category for the PM_{2.5} nonattainment and attainment areas.

**Table 1.3-1
2011 Emissions by County Expressed in Tons per Year**

County	VOC	NOX	CO	PM10-PRI	PM25-PRI	NH3	SO2	Lead
Fairfield	27,675.1	19,456.7	127,870.1	8,057.9	3,947.2	647.9	4,194.8	0.5
Hartford	26,296.2	18,351.5	111,406.5	7,954.6	3,442.6	1,049.9	3,237.7	0.6
Litchfield	15,708.1	3,404.7	31,502.7	3,912.6	1,389.4	505.4	890.5	0.1
Middlesex	10,503.7	4,882.7	25,266.9	2,386.0	947.6	179.2	1,166.7	0.1
New Haven	25,015.2	16,510.5	103,413.3	6,661.8	3,515.8	718.9	3,601.5	0.4
New London	16,629.5	8,018.0	38,347.9	4,255.5	1,666.6	1,060.4	1,681.4	0.2
Tolland	9,387.7	2,864.5	18,621.5	2,680.4	880.8	442.1	653.8	0.1
Windham	11,000.9	2,559.8	17,420.3	2,741.7	1,030.1	652.4	619.6	0.1
State	142,216.3	76,048.4	473,849.2	38,650.5	16,820.1	5,256.2	16,046.0	2.1*

*EPA has estimated that an additional 1.5 tons of lead were emitted by aircraft in flight in Connecticut while above the atmospheric mixed layer.

Table 1.3-1a
2011 Annual Emissions by County and Source Expressed in Tons per Year

County / Source Name	VOC	NOX	CO	PM10- PRI	PM25-PRI	NH3	SO2	Lead
Fairfield County								
Stationary point sources	146.6	1,895.5	257.8	53.3	46.0	8.7	635.0	0.1
Stationary area sources	10,331.4	3,186.9	13,802.4	7,083.7	3,157.0	347.8	3,254.0	0.1
Off-Highway mobile	4,499.9	4,510.0	51,214.4	432.2	407.6	5.7	222.2	0.4
Highway mobile sources	5,657.7	9,805.5	61,725.0	488.7	336.6	285.7	83.5	0.0
Biogenic sources	7,039.5	58.8	870.5	0.0	0.0	0.0	0.0	0.0
Fairfield County	27,675.1	19,456.7	127,870.1	8,057.9	3,947.2	647.9	4,194.8	0.5
Hartford County								
Stationary point sources	165.4	1,588.0	863.9	27.6	23.9	275.9	56.4	0.0
Stationary area sources	9,739.6	3,375.1	10,372.7	7,142.3	2,794.1	471.3	3,042.8	0.1
Off-Highway mobile	2,784.2	3,283.2	35,682.3	284.2	268.7	3.6	59.8	0.5
Highway mobile sources	5,562.2	10,018.4	63,362.6	500.6	355.9	299.2	78.7	0.0
Biogenic sources	8,044.7	86.8	1,125.0	0.0	0.0	0.0	0.0	0.0
Hartford County Total	26,296.2	18,351.5	111,406.5	7,954.6	3,442.6	1,049.9	3,237.7	0.6
Litchfield County								
Stationary point sources	19.9	74.1	68.1	20.0	19.9	4.7	7.4	0.0
Stationary area sources	2,431.8	653.0	4,325.9	3,705.0	1,212.8	448.6	866.8	0.0
Off-Highway mobile	1,995.9	770.4	11,749.4	100.1	93.8	1.2	2.6	0.1
Highway mobile sources	1,342.3	1,803.2	14,023.0	87.6	63.0	50.9	13.6	0.0
Biogenic sources	9,918.3	103.9	1,336.3	0.0	0.0	0.0	0.0	0.0
Litchfield County Total	15,708.1	3,404.7	31,502.7	3,912.6	1,389.4	505.4	890.5	0.1

County / Source Name	VOC	NOX	CO	PM10- PRI	PM25-PRI	NH3	SO2	Lead
Middlesex County								
Stationary point sources	43.0	708.2	236.4	61.2	34.3	6.7	93.6	0.0
Stationary area sources	1,910.5	581.4	2,398.3	2,105.4	728.7	102.9	762.3	0.0
Off-Highway mobile	1,229.5	1,315.4	8,322.3	118.1	110.6	1.2	293.5	0.0
Highway mobile sources	1,169.0	2,238.9	13,628.7	101.2	74.0	68.4	17.3	0.0
Biogenic sources	6,151.6	38.8	681.2	0.0	0.0	0.0	0.0	0.0
Middlesex County Total	10,503.7	4,882.7	25,266.9	2,386.0	947.6	179.2	1,166.7	0.1
New Haven County								
Stationary point sources	374.1	376.1	142.2	113.9	112.6	35.0	96.1	0.0
Stationary area sources	9,457.8	2,922.1	13,386.2	5,772.0	2,779.7	401.7	3,068.1	0.1
Off-Highway mobile	2,956.8	3,852.4	31,480.4	317.1	299.4	4.2	364.5	0.3
Highway mobile sources	5,086.4	9,299.8	57,507.3	458.8	324.1	277.9	72.9	0.0
Biogenic sources	7,140.1	60.1	897.3	0.0	0.0	0.0	0.0	0.0
New Haven County Total	25,015.2	16,510.5	103,413.3	6,661.8	3,515.8	718.9	3,601.5	0.4
New London County								
Stationary point sources	108.5	1,045.4	288.3	30.8	26.7	8.9	246.3	0.1
Stationary area sources	3,895.4	964.8	4,875.7	3,890.3	1,362.1	937.1	1,247.4	0.0
Off-Highway mobile	2,091.8	2,265.5	10,994.3	166.8	157.7	2.1	159.1	0.1
Highway mobile sources	1,834.7	3,668.3	21,238.4	167.6	120.1	112.4	28.6	0.0
Biogenic sources	8,699.2	73.9	951.2	0.0	0.0	0.0	0.0	0.0
New London County Total	16,629.5	8,018.0	38,347.9	4,255.5	1,666.6	1,060.4	1,681.4	0.2

County / Source Name	VOC	NOX	CO	PM10- PRI	PM25-PRI	NH3	SO2	Lead
Tolland County								
Stationary point sources	4.3	26.2	24.9	17.1	17.1	6.8	3.2	0.0
Stationary area sources	1,539.8	434.1	2,229.4	2,526.9	755.3	378.5	634.5	0.0
Off-Highway mobile	554.8	430.8	4,278.2	46.2	43.6	0.6	1.4	0.1
Highway mobile sources	1,018.5	1,923.9	11,363.6	90.1	64.7	56.2	14.6	0.0
Biogenic sources	6,270.4	49.6	725.4	0.0	0.0	0.0	0.0	0.0
Tolland County Total	9,387.7	2,864.5	18,621.5	2,680.4	880.8	442.1	653.8	0.1
Windham County								
Stationary point sources	63.8	243.5	151.0	133.3	123.2	107.2	77.7	0.0
Stationary area sources	1,381.4	394.4	2,665.1	2,480.2	800.2	505.9	529.9	0.0
Off-Highway mobile	938.4	540.3	5,210.9	64.7	60.9	0.7	1.9	0.1
Highway mobile sources	774.5	1,323.1	8,564.8	63.4	45.9	38.5	10.1	0.0
Biogenic sources	7,842.8	58.5	828.5	0.0	0.0	0.0	0.0	0.0
Windham County Total	11,000.9	2,559.8	17,420.3	2,741.7	1,030.1	652.4	619.6	0.1
State Total	142,216.3	76,048.4	473,849.2	38,650.5	16,820.1	5,256.2	16,046.0	2.1*

*EPA has estimated that an additional 1.5 tons of lead were emitted by aircraft in flight in Connecticut while above the atmospheric mixed layer.

Table 1.3-2
2011 Ozone Precursor Emissions by County
In Tons per Day
Typical Summer Day Emissions
(Tons/Day)

County	VOC	NO_x	CO
Fairfield	109.7	55.8	537.3
Hartford	113.1	62.4	455.6
Litchfield	85.6	9.2	112.1
Middlesex	58.0	20.2	96.3
New Haven	103.6	47.2	373.6
New London	85.2	22.8	126.2
Tolland	52.8	8.0	63.4
Windham	64.0	7.3	59.6
State	672.0	232.9	1,824.0

Table 1.3-2a

2011 Ozone Precursor Typical Summer Day Emissions by County
Emissions are expressed in Tons/Day

County / Source Name	VOC	NOx	CO
Fairfield County			
Stationary point sources	0.5	7.0	1.0
Stationary area sources	25.3	3.3	2.2
Off-Highway mobile	19.0	15.3	369.1
Highway mobile sources	15.9	29.9	159.5
Biogenic sources	49.0	0.3	5.4
Fairfield County Total	109.7	55.8	537.3
Hartford County			
Stationary point sources	0.5	5.2	3.4
Stationary area sources	26.0	3.7	2.8
Off-Highway mobile	14.7	23.0	271.6
Highway mobile sources	16.0	30.0	170.8
Biogenic sources	56.0	0.4	7.0
Hartford County Total	113.1	62.4	455.6
Litchfield County			
Stationary point sources	0.1	0.2	0.2
Stationary area sources	5.5	0.7	1.6
Off-Highway mobile	7.3	2.6	69.0
Highway mobile sources	3.7	5.3	33.0
Biogenic sources	69.0	0.5	8.3
Litchfield County Total	85.6	9.2	112.1
Middlesex County			
Stationary point sources	0.3	8.7	2.5
Stationary area sources	5.0	0.6	1.0
Off-Highway mobile	6.7	4.2	52.1
Highway mobile sources	3.3	6.5	36.5
Biogenic sources	42.8	0.2	4.2
Middlesex County Total	58.0	20.2	96.3

County / Source Name	VOC	NO_x	CO
New Haven County			
Stationary point sources	1.2	2.8	0.8
Stationary area sources	22.4	2.9	2.0
Off-Highway mobile	16.1	13.0	214.0
Highway mobile sources	14.2	28.1	151.2
Biogenic sources	49.7	0.3	5.6
New Haven County Total	103.6	47.2	373.6
New London County			
Stationary point sources	0.3	3.6	1.0
Stationary area sources	10.2	1.0	1.5
Off-Highway mobile	8.7	7.0	58.6
Highway mobile sources	5.4	10.9	59.3
Biogenic sources	60.5	0.3	5.9
New London County Total	85.2	22.8	126.2
Tolland County			
Stationary point sources	0.0	0.2	0.1
Stationary area sources	3.8	0.4	1.1
Off-Highway mobile	2.4	1.5	27.4
Highway mobile sources	2.9	5.6	30.4
Biogenic sources	43.6	0.2	4.5
Tolland County Total	52.8	8.0	63.4
Windham County			
Stationary point sources	0.3	0.8	0.5
Stationary area sources	3.0	0.4	1.0
Off-Highway mobile	3.9	1.9	30.5
Highway mobile sources	2.2	3.9	22.4
Biogenic sources	54.6	0.3	5.1
Windham County Total	64.0	7.3	59.6
State Total	672.0	232.9	1,824.0

**Table 1.3-3
2011 Ozone Precursor Emissions By Source Type In The CT Portion
Of The CT-NY-NJ CSA Ozone Nonattainment Area (Fairfield, New Haven & Middlesex
Counties)**

Source	Emissions (Tons/Year)		
	VOC	NOX	CO
Stationary point sources	563.7	2,979.8	636.4
Stationary area sources	21,699.6	6,690.5	29,586.9
Off-Highway mobile	8,686.2	9,677.8	91,017.1
Highway mobile sources	11,913.1	21,344.1	132,860.9
Biogenic sources	20,331.3	157.8	2,449.0
Totals:	63,194.0	40,850.0	256,550.3

**2011 Daily Emissions CT Portion of The CT-NY-NJ CSA Ozone Nonattainment Area
(Fairfield, New Haven & Middlesex Counties)**

Source	Typical Summer Day Emissions (Tons/Day)		
	VOC	NOX	CO
Stationary point sources	2.0	18.5	4.3
Stationary area sources	52.7	6.9	5.2
Off-Highway mobile	41.8	32.5	635.2
Highway mobile sources	33.4	64.6	347.3
Biogenic sources	141.4	0.7	15.2
Totals:	271.3	123.2	1,007.1

Table 1.3-4
2011 Ozone Precursor Emissions By Source Type
In The Greater CT Ozone Nonattainment Area
(Hartford, Litchfield, New London, Tolland & Windham Counties)

Source	Emissions (Tons/Year)		
	VOC	NOX	CO
Stationary point sources	361.9	2,977.2	1,396.2
Stationary area sources	18,988.0	5,821.4	24,468.8
Off-Highway mobile	8,365.0	7,290.2	67,915.2
Highway mobile sources	10,532.2	18,736.9	118,552.4
Biogenic sources	40,775.3	372.8	4,966.4
Total:	79,022.4	35,198.4	217,298.9

2011 Daily Emissions In The Greater CT Ozone Nonattainment Area
(Hartford, Litchfield, New London, Tolland & Windham Counties)

Source	Typical Summer Day Emissions (Tons/Day)		
	VOC	NOX	CO
Stationary point sources	1.3	10.0	5.2
Stationary area sources	48.5	6.2	8.0
Off-Highway mobile	37.0	36.1	457.1
Highway mobile sources	30.3	55.8	315.9
Biogenic sources	283.7	1.7	30.8
Totals:	400.7	109.8	816.9

Table 1.3-5
2011 Annual Emissions By Source Type In The CT Portion Of The CT-NY-NJ CSA
PM2.5 Nonattainment Area (Fairfield & New Haven Counties)
Emissions (Tons/Year)

Source	VOC	NOX	CO	PM10-PRI	PM25-PRI	NH3	SO2	Lead
Stationary point sources	520.7	2,271.7	400.0	167.2	158.7	43.7	731.0	0.1
Stationary area sources	19,789.1	6,109.1	27,188.5	12,855.8	5,936.7	749.5	6,322.2	0.2
Off-Highway mobile	7,456.7	8,362.3	82,694.8	749.2	707.0	10.0	586.7	0.6
Highway mobile sources	10,744.1	19,105.3	119,232.3	947.5	660.6	563.6	156.4	0.0
Biogenic sources	14,179.7	118.9	1,767.8	0.0	0.0	0.0	0.0	0.0
Totals:	52,690.2	35,967.3	231,283.4	14,719.8	7,463.0	1,366.8	7,796.4	0.9*

2011 Annual Emissions By Source Type In The Greater Connecticut PM2.5 Attainment Area
(Hartford, Litchfield, Middlesex, New London, Tolland & Windham Counties)
Emissions (Tons/Year)

Source	VOC	NOX	CO	PM10-PRI	PM25-PRI	NH3	SO2	Lead
Stationary point sources	405.0	3,685.4	1,632.6	290.0	245.0	410.2	484.6	0.1
Stationary area sources	20,898.5	6,402.8	26,867.1	21,850.2	7,653.3	2,844.2	7,083.7	0.2
Off-Highway mobile	9,594.5	8,605.6	76,237.5	780.1	735.2	9.4	518.4	0.9
Highway mobile sources	11,701.3	20,975.8	132,181.1	1,010.5	723.6	625.5	162.9	0.0
Biogenic sources	46,926.9	411.6	5,647.6	0.0	0.0	0.0	0.0	0.0
Totals:	89,526.1	40,081.1	242,565.8	23,930.8	9,357.1	3,889.4	8,249.6	1.2*

*EPA has estimated that an additional 1.5 tons of lead were emitted by aircraft in flight in Connecticut while above the atmospheric mixed layer.

Table 1.3-6
2011 Annual Emissions By Source Type In Connecticut
Emissions (Tons/Year)

Source	VOC	NOX	CO	PM10-PRI	PM25-PRI	NH3	SO2	Lead
Stationary point sources	925.6	5,957.0	2,032.6	457.2	403.7	454.0	1,215.7	0.2
Stationary area sources	40,687.6	12,511.8	54,055.6	34,706.0	13,590.0	3,593.7	13,405.8	0.4
Off-Highway mobile	17,051.2	16,968.0	158,932.3	1,529.3	1,442.2	19.4	1,105.1	1.5
Highway mobile sources	22,445.4	40,081.0	251,413.4	1,958.0	1,384.2	1,189.2	319.3	0.0
Biogenic sources	61,106.6	530.5	7,415.3	0.0	0.0	0.0	0.0	0.0
Totals:	142,216.3	76,048.4	473,849.2	38,650.5	16,820.1	5,256.2	16,046.0	2.1*

*EPA has estimated that an additional 1.5 tons of lead were emitted by aircraft in flight in Connecticut while above the atmospheric mixed layer.

SECTION 2

STATIONARY POINT SOURCES

2.1 INTRODUCTION

This section documents the identification of stationary air pollution sources active in Connecticut during 2011. It serves to characterize the point source component of the emissions inventory by describing data collection, verification, and emission estimation techniques. For the purpose of this emissions inventory, point sources are defined as stationary commercial or stationary industrial operations or plants that were major sources during calendar year 2011.

The CT DEEP Bureau of Air Management is responsible for compiling the point source inventory. It is responsible for identifying plants meeting the cutoff criteria, documenting the method used to calculate emissions from the equipment at each plant, and summarizing and presenting its findings. Table 2.1-1 and 2.1-2 presents the annual emissions expressed in tons per year (TPY) and typical high ozone summer day expressed in pounds per day, respectively, for all point sources by county.

Table 2.1-1 County Annual Emissions for Point Sources Only
Emissions are expressed in Tons per Year

County	VOC	NOX	CO	PM10-PRI	PM25-PRI	NH3	SO2	Lead
Fairfield	146.6	1,895.5	257.8	53.3	46.0	8.7	635.0	0.1
Hartford	165.4	1,588.0	863.9	27.6	23.9	275.9	56.4	0.0
Litchfield	19.9	74.1	68.1	20.0	19.9	4.7	7.4	0.0
Middlesex	43.0	708.2	236.4	61.2	34.3	6.7	93.6	0.0
New Haven	374.1	376.1	142.2	113.9	112.6	35.0	96.1	0.0
New London	108.5	1,045.4	288.3	30.8	26.7	8.9	246.3	0.1
Tolland	4.3	26.2	24.9	17.1	17.1	6.8	3.2	0.0
Windham	63.8	243.5	151.0	133.3	123.2	107.2	77.7	0.0
State	925.6	5,957.0	2,032.6	457.2	403.7	454.0	1,215.7	0.2

Table 2.1-2 Countywide Typical Summer Day Emissions for Point Sources Only
Emissions are expressed in Pounds per Day

County	VOC	NOX	CO
Fairfield	996.3	14,057.7	2,087.0
Hartford	1,055.8	10,432.7	6,730.6
Litchfield	110.5	390.9	337.9
Middlesex	584.6	17,373.1	4,922.1
New Haven	2,416.7	5,636.9	1,657.4
New London	672.1	7,126.2	1,986.8
Tolland	34.5	416.6	229.8
Windham	680.9	1,626.2	1,036.9
State Totals	6,551.4	57,060.3	18,988.6

2.2 IDENTIFICATION OF 2011 POINT SOURCES

This section describes the development of the initial point source list from which point source emissions for the 2011 Connecticut Periodic Inventory were estimated. This section is included in order to demonstrate that the source list is as complete as possible.

Shortly after the Connecticut DEEP was formed in 1972 regulations were written which specified that certain equipment must be either registered or permitted. Subject equipment operating prior to June 1, 1972 were required to register, while equipment installed after that date needed permits to construct and operate. Companies were required to submit detailed information about their equipment on forms supplied by the department. All taxable employers were notified of the registration and permit requirements. All municipalities, school systems and state agencies were separately notified in a second mailing. In a third mailing, Federal facilities were notified of their requirement to comply with Connecticut regulations.

The deadline for submission of the registration forms was October 1, 1972. The Engineering section processed the registration forms. Engineers reviewed the registration forms for completeness; assigned identification numbers (i.e., Town #, Premises #, Registration #, and Stack #); assigned special codes (i.e., National Emissions Data System (NEDS) County #, NEDS town #, Standard Industrial Class (SIC) #, Source Classification Code (SCC) #, and control equipment #); and determined stack coordinates. The data from the forms were coded onto special computer forms, keypunched onto IBM cards and entered into the database. Over 13,000 registrations were processed in this manner. The initial phase was completed by the end of 1973.

The next phase was to ensure that all plants had submitted their applications for equipment requiring registrations and permits. The Enforcement section systematically contacted plants, which were listed in industrial directories. Screening letters, which requested basic information on the equipment and materials used at a facility, were mailed to those potential sources. Plants that responded positively to the questions in the screening letter were then sent a Pre-Inspection Questionnaire (PIQ), which requested detailed information on the processes and materials used in the plant. Equipment requiring registration were identified and the plant was issued a notice of violation, which would be closed out only upon receipt of a completed registration form. Over 500 equipment registrations were added to the inventory through the inspection program. In succeeding years, new plants have been identified through the Connecticut Department of Labor listing of new manufacturing firms and from articles in local newspapers.

The primary method by which new equipment is added to the point source inventory is through the permit program. Approximately 100 new permits are issued each year. There is high awareness of permit requirements among the regulated community through the State Implementation Plan Revision Advisory Committee (SIPRAC) of the Connecticut Business & Industry Association (CBIA). Members of CBIA are informed about changes in the air regulations.

Prior to 1990, the point source inventory was kept current through timely updates of all emission

sources. In general, plants that had an EPA class of A1 were updated annually; plants with an EPA class of A2 were updated every second year; and plants with an EPA class of B were updated every three to five years. Since 1979, updates of the point source inventory have been incorporated into the Enforcement compliance inspection process. Along with each PIQ mailed to the plant, the Enforcement Division includes update forms for the registered and permitted equipment. The plant is required to provide current data on annual fuel usage, process weight rates, solvent usage, operating hours, and seasonal rates for summer, fall, winter and spring. During the compliance inspection, Enforcement personnel review the completed update forms with the plant personnel to ensure the accuracy and completeness of the data. The inventory group further reviews the forms for completeness, and revisions are compared with previous data. If there are apparent discrepancies, the update forms are returned to Enforcement personnel for clarification.

For plants that are inspected, Enforcement personnel calculate the total plant usage for each volatile organic compound (VOC) as listed in section 7 of the PIQ. Plant usage is then adjusted for other media disposal. The total VOC from registered and permitted sources is subtracted from the adjusted total plant VOC. The balance is the actual unregistered VOC emission. These estimates of unregistered VOC emissions are entered into a separate file, which contains basic company data, specific SCC code, and emissions in terms of tons per year.

For the 1990 base year ozone and carbon monoxide inventory development effort in 1992, update forms identical to those described and used by the Enforcement Division above were mailed to all facilities known to be active during 1990. This was done to verify which facilities in the inventory were active during 1990 and to update all data contained in the inventory that were two years old or older. For more detailed information about the 1990 inventory, please refer to the 1990 Base Year Ozone And Carbon Monoxide Emissions Inventory.¹

In 1993 to meet the emission statement reporting requirements outlined in Title I, Section 182(a)(3)(b) of the 1990 Clean Air Act (CAA), the state developed and implemented the following reporting schedule. Connecticut's emission statement program was submitted to and approved by EPA as a formal amendment to the SIP. The Department phased in the implementation of the emission statement program beginning with the first reporting year (1993). Companies were required to file an emission statement, if the actual calendar year 1992 emissions from all sources at a plant site totaled 25 tons per year or more of VOC, NO_x or CO. This first mailing involved 156 companies. For the reporting year (2006), the reporting threshold was set to any facility that is a major source, or emitted 10 tons per year or more of actual 2005 VOC or NO_x, or 25 tons per year or more of actual 2005 CO emissions. There were 135 companies involved in this mailing.

In 2009 the DEEP rolled out a new software application, EMIT, that allowed companies to submit their emission statements electronically via the internet and report a number of new pollutants that the previous system could not accommodate. The additional pollutants collected in 2009 were PM10 filterable, PM2.5 primary, PM2.5 filterable, PM condensable, Ammonia and Sulfur Dioxide instead of Sulfur Oxides. Since there is a lack of emission factors for PM10 and PM2.5 filterable and PM condensable these pollutants were often unreported. Since 2009 only sites considered a major source were required to submit an emission statement.

Since 2010 the DEEP has required companies to report their Hazardous Air Pollutant (HAP) emissions. The 2011 periodic stationary source inventory relied heavily on the emission statements, which reported the source's actual 2011 emissions signed by a corporate officer who attested to the accuracy of their calculations. There were 80 sites that submitted a 2011 emission statement. Compliance with the emission statement program was 100 percent from all of the companies selected this year.

2011 Emissions were reported by sites using the Bureau's EMIT software application. Among other things, this application allows sites to report the rule effectiveness value for each source/pollutant when the emissions are controlled via ad-hoc control equipment. EMIT automatically uses the rule effectiveness value when calculating emissions, except when the emissions are based upon continuous emission monitoring, EPA's tank model or an after control emission factor.

The above data verification techniques ensured a complete data set for each point source in the inventory. Appendix A, Table 1 shows the final point source list and includes the name, city, SIC, and actual annual emissions that incorporate rule effectiveness for VOC, NO_x, CO, SO₂, PM_{2.5} primary, PM₁₀ primary, ammonia and lead. Table 1 identifies only the plants that Connecticut considers significant for developing the final ozone season estimates outlined below.

2.3 DOCUMENTING THE EMISSION ESTIMATION PROCEDURES

VOC emission estimates for each point source on the final list were primarily derived using material balance approaches. All other pollutant emission estimates were primarily derived from EPA recommended emission factors. Source-specific emission factors are used when stack test data is available.

EPA recommended emission factors, as published in the FIRE Version 6.25 Source Classification Codes and Emission Factor Listing for Criteria Pollutants² and AP-42³, were used to calculate emissions for most fuel burning equipment, incinerators, and process equipment (e.g., asphalt batch plants). The emission factors by SCC used to calculate emissions are listed in Appendix A, Table 2.

Emissions from gasoline storage tanks were determined using the TANKS model to calculate evaporative losses. Inputs to the model consist of local, real-time meteorological data and site-specific RVP data. Emissions from gasoline loading facilities were determined using the formula in AP-42, Section 5.2 and the same typical ozone summer day temperatures. VOC emissions from industrial surface coating operations (e.g., spray painting, and fabric coating and solvent use from dry cleaning and degreasing) were determined using material balance approaches. Seasonal adjustments were included in the emission estimates for applicable source categories. The operating schedule for each material (SCC level), the seasonal rate of operation for the summer, and the days per week were used to determine daily emissions.

Double counting was avoided in the Area Source Inventory. Although the method varies for different categories, generally, emissions accounted for in the point source inventory must be

subtracted from the total emissions estimated for area sources. See the specific category in Section 4 for further details.

The following general equation was used to account for seasonal adjustments:

$$E_s = \frac{E_a \times T_s \times (1 - (EFF \times Cap \times Rule))}{D_s \times W_s}$$

Where:

- Es = seasonally adjusted emissions in pounds per day
- Ea = annual uncontrolled emissions of VOC, NOx, or CO in pounds per year
- Ts = throughput for Ozone as a fraction of total throughput
- Ds = days of operation per week
- Ws = weeks of ozone or CO season in weeks per year
- EFF = control efficiency
- Cap = capture efficiency
- Rule = rule effectiveness

Emissions were calculated using the Bureau's EMIT software application. Several basic emission calculations are illustrated in examples 1 to 5. Example 1 illustrates the use of AP-42 emission factors to calculate emissions for many sources, typically boilers and incinerators that do not have controls. Example 2 illustrates the calculation of VOC emissions for gasoline loading facilities using the formula from Section 5.2 of AP-42. This example is typical of all process sources that use emission factors to calculate emissions. Since this source has emission controls, rule effectiveness is also illustrated. Example 3 illustrates points in which annual emissions were determined by material balance. Example 4 illustrates the calculation of miscellaneous VOC losses from a waste solvent reclamation unit. Example 5 illustrates how VOC losses from a dry cleaning unit are calculated. The five examples show how emission estimates were obtained for the point sources on the final list. EMIT does not calculate emissions when the emissions were estimate using the TANKS model or when they were derived using continuous emission monitoring (CEM). In these instances EMIT requires the user to manually enter the emissions directly after identifying that the emissions are based upon one of these two methods.

Example 1. Fuel Burning Source

This example illustrates the general use of AP-42 emission factors to estimate emissions.

Description:	Commercial Boiler
SCC Code:	10300401
Annual Fuel Usage:	601,000 gals of # 6 Oil in 2011
Control Equipment:	None
Operating Schedule:	Days per week: 7 Weeks per season: 13
Summer Seasonal Rate:	10%

From Tables 1.3-1 and 1.3-3 of AP-42, the emission factors (lbs / 1,000 gal) for this SCC code are as follows:

<u>Pollutant:</u>	<u>Emission Factor:</u>
NOx	47.00
VOC	1.60
CO	5.00

The equation used to calculate annual emissions for a fuel burning source is:

$$Ea = \frac{F \times EF}{2,000}$$

The equation used to calculate the typical ozone daily emissions for a fuel burning source is:

$$Es = \frac{F \times EF \times Ts}{Ws \times Ds}$$

Where:

Ea	= annual actual emissions (TPY)
Es	= seasonally adjusted daily emissions (lbs / day)
F	= actual annual fuel use (1,000 gal / year)
EF	= emission factor (lbs / 1,000 gal)
Ts	= seasonal rate of use (%)
Ws	= weeks per ozone season (13 weeks)
Ds	= days in operation per week

A sample calculation for annual CO emissions is:

$$E_a = \frac{601 \times 5.00}{2,000} = 1.50 \text{ TPY}$$

A sample calculation for ozone season daily CO emissions is:

$$E_s = \frac{601 \times 5.00 \times 0.10}{13 \times 7} = 3.30 \text{ lbs/day}$$

Example 2. Gasoline Loading Facility

The following example calculates VOC emissions from a gasoline loading facility.

Description:	gasoline loading facility
SCC Code:	40600141
Equipment Type:	gasoline submerged loading balance service
Type control:	vapor recovery system
Control Efficiency:	97%
Capture Efficiency:	98%
Rule Effectiveness:	100%
Material Stored:	regular unleaded gasoline, RVP=8.6
Throughput:	90,000,000 gallons/year
Operating Schedule:	days per week: 6 weeks per season: 13
Summer Seasonal Rate:	27%
Summer emission factor:	10.72 lbs/1,000 gallons transferred
Annual emission factor:	6.77 lbs/1,000 gallons transferred

The equation used to calculate the VOC emissions factor for loading losses at a gasoline facility (RVP = 10 and temperature = 50 °F) is:

$$L_L = \frac{12.46 \times SPM}{T}$$

Where:

L_L = VOC emission factor, expressed in pounds of VOC emitted per thousand gallons of gasoline loaded.

- S = saturation factor 1.00 (see Table 5.2-1)
- P = true vapor pressure of gasoline 4.2 psia (see Figure 7.1 - 6)
- M = molecular weight of gasoline vapors 66 (see table 7.1 - 2)
- T = temperature of gasoline 510 °R

The calculation of the annual VOC emission factor for a gasoline loading facility is:

$$L_L = \frac{12.46 \times 1.0 \times 4.2 \times 66}{510} = 6.77 \text{ lbs/1,000 gal}$$

The equation used to calculate typical ozone daily VOC emissions for a gasoline loading facility is:

$$E_s = \frac{Q \times EF \times T_s}{D_s \times W_s} \times \left[1 - \left(\frac{EFF \times Cap \times Rule}{100 \times 100 \times 100} \right) \right]$$

Where:

- Es = seasonally adjusted daily emissions (lbs / day)
- Q = throughput (gals / year)
- EF = emission factor (lbs / 1,000 gal)
- Ts = seasonal rate of use
- EFF = control efficiency
- Cap = capture efficiency
- Rule = rule efficiency
- Ds = 6 days per week
- Ws = 13 weeks per ozone season

The calculation of daily VOC emissions for the example gasoline loading facility is:

$$E_s = \frac{90,000,000 \times 0.01072 \times 0.27}{13 \times 6} \times \left[1 - (0.97 \times 0.98 \times 1.0) \right] = 164.98 \text{ lbs/day}$$

The equation used to calculate annual VOC emissions for a gasoline loading facility is:

$$E_a = \frac{Q \times EF}{2,000} \times \left[1 - \left(\frac{EFF \times Cap \times Rule}{100 \times 100 \times 100} \right) \right]$$

Where:

- Ea = annual actual emissions (TPY)

Q = throughput (gals / year)
 EF = emission factor (lbs / 1,000 gal)
 2,000 = 2,000 lbs / ton
 EFF = control efficiency
 Cap = capture efficiency
 Rule = rule efficiency

The calculation of annual VOC emissions for the example gasoline loading facility is:

$$Ea = \frac{90,000,000 \times 0.00677}{2,000} \times [1 - (0.97 \times 0.98 \times 1.0)] = 15.05 \text{ TPY}$$

Example 3. Surface Coating Plant

The example surface coating plant applies 55 tons (110,000 lbs) of coating annually: 12.5 tons (25,000 lbs) in Dec-Feb; 17.5 tons (35,000 lbs) in Mar-May; 10 tons (20,000 lbs) in Jun-Aug; and 15 tons (30,000 lbs) in Sept-Nov.

Description:	paint spray booth
SCC Code:	40200101
Annual Process Rate:	55 tons
Control Equipment:	
Primary:	vapor recovery system, Code = 047
Secondary:	n/a
Efficiency:	0.95
Capture Efficiency:	0.90
Rule Effectiveness	0.98
Operating Schedule:	days per week: 5
	weeks per season: 13

$$\text{Summer Seasonal Rate} : \frac{10 \text{ tons}}{55 \text{ tons}} \times 100 = 18.2\%$$

The VOC emissions for coating facilities must be determined by material balance. Emission factors may not be used. Information from the coating supplier indicates that the coating contains 60% solvent. Thus, uncontrolled emissions are 60% of the total coating applied or 33 TPY. The primary control equipment, the VRS, has a control efficiency of 95%, a capture efficiency of 90%, and a reported rule effectiveness of 98% then the control system's efficiency would be $(.95 \times .90 \times .98) \times 100$ or 83.8%. The actual annual "controlled" VOC emissions would be $33 \text{ TPY} \times (1 - .838)$ or 5.35 TPY.

The typical daily VOC emissions during the 3-month peak ozone season can be calculated using the following equation:

$$Es = \frac{Ea \times Ts}{Ws \times Ds}$$

Where:

Es = seasonally adjusted daily emissions (lbs / day)
 Ea = actual annual "controlled" VOC emissions (lbs / year)
 Ws = weeks per ozone season
 Ds = days in operation per week
 Ts = season rate of use

Using our example, the daily VOC emissions during the ozone season is:

$$Es = \frac{10,700 \times 0.182}{13 \times 5} = 29.96 \text{ lbs/day}$$

Example 4. Miscellaneous VOC losses from a waste solvent reclamation unit

The example unit reclaims 20,000,000 lbs of used toluene annually: 6,000,000 lbs in Dec-Feb; 4,000,000 lbs in Mar-May; 5,000,000 lbs in Jun-Aug; and the remaining 5,000,000 lbs in Sept-Nov.

Description: recovered toluene fugitive losses
 SCC Code: 49000204: solvent spillage
 49000205: solvent loading
 Annual Process Rate: 20,000,000 / 2,000 = 10,000 tons
 Operating Schedule during Ozone Season: 1 day per week; 13 weeks per season

$$\text{Summer Seasonal Rate} : \frac{5,000,000}{20,000,000} \times 100 = 25\%$$

Table 4.7-1 of AP-42 gives the following fugitive emission factors for a fixed roof design storage tank:

Spillage losses: 0.20 lbs VOC per ton reclaimed solvent
 Loading losses: 0.72 lbs VOC per ton reclaimed solvent

Losses from leaks: not available
Losses from open sources: not available

The equation used to calculate annual fugitive emissions is:

$$Ea = \frac{F \times EF}{2,000}$$

Where:

Ea = annual actual emissions (TPY)
F = annual tons of reclaimed solvent
EF = emission factor (lbs / ton reclaimed solvent)

Specifically, annual spillage losses for this example would be:

$$Ea = \frac{10,000 \times 0.20}{2,000} = 1.0 \text{ TPY}$$

In addition, annual-loading losses would be:

$$Ea = \frac{10,000 \times 0.72}{2,000} = 3.6 \text{ TPY}$$

Combined annual fugitive losses for this example would be:

$$Ea(\text{total}) = 1.0 + 3.6 = 4.6 \text{ TPY (9,200 lbs/year)}$$

Finally, the equation to calculate daily VOC combined emissions is:

$$Es = \frac{Ea(\text{total}) \times Ts}{Ws \times Ds}$$

Where:

Es = seasonally adjusted daily emissions (lbs / day)
Ea (Total) = combined annual fugitive losses (lbs / year)
Ts = seasonal rate of use
Ws = weeks per ozone season
Ds = days in operation per week

Specifically, using this example, the daily fugitive VOC combined emissions would be:

$$E_s = \frac{9,200 \times 0.25}{13 \times 1} = 176.92 \text{ lbs/day}$$

Example 5. - Stoddard Solvent losses from a dry cleaning unit

This example illustrates the use of a material balance to estimate emissions from Stoddard Solvent. The dry cleaner uses 1,800 gallons of Stoddard Solvent during the year. Approximately 25 % or 450 gallons of the Stoddard Solvent are used during each season.

Description:	dry cleaner: Stoddard Solvent
SCC Code:	40100103
Annual Process Usage:	1,800 gallons of Stoddard Solvent
Density of Stoddard Solvent:	13.6 lbs / gal
Peak Ozone Season Daily Process Rate:	0.03 tons/day Stoddard Solvent
Operating Schedule During Ozone Season:	5.5 days per week; 13 weeks per season:
Control Equipment:	vapor recovery system
Control Efficiency	90%
Capture Efficiency	98%
Rule Effectiveness	100%

$$\text{Annual Process Rate} = \frac{1,800 \text{ gal} \times 13.6 \text{ lbs/gal}}{2,000} = 12.24 \text{ TPY}$$

Amount of Stoddard Solvent Recovered

$$\text{By Control Equipment} = 12.24 \times (0.90 \times 0.98 \times 1.0) = 10.8 \text{ TPY}$$

$$\text{Actual Annual VOC Emissions} = 12.24 \text{ TPY} - 10.8 \text{ TPY} = 1.44 \text{ TPY}$$

The typical daily VOC emissions during the 3-month peak ozone season can be calculated using the following equation:

$$E_s = \frac{Pr \times Sr \times (1 - (Eff \times Cap \times Rule))}{Ws \times Ds}$$

Where:

E_s = seasonally adjusted daily emissions (lbs / day)

Pr = actual annual process weight
 Sr = season rate of use
 Eff = efficiency of the control equipment
 Cap = capture efficiency
 Rule= rule effectiveness
 Ws = weeks per ozone season
 Ds = days in operation per week

Using our example, the daily VOC emissions during the ozone season is:

$$ES = \frac{24,480 \text{ lbs} \times 0.25 \times (1 - (0.90 \times 0.98 \times 1.0))}{13 \text{ weeks} \times 5.5 \text{ days}} = 10.1 \text{ lbs/day}$$

2.4 EMISSION SUMMARY TABLES

For the 2011 periodic inventory, Connecticut is reporting all plants which reported their actual 2011 emissions and are a major source. Appendix A, Table 1 lists the sites and their annual emissions by county. Appendix A, Table 2 lists the sites and their typical summer day VOC, NOx and CO emissions by county.

The following tables were prepared to display the emissions data in a variety of useful and easy-to-read formats. Appendix A, Table 3 lists by SCC code the default air pollution emission factors employed when site specific emission factors were not available for each industrial process. Appendix A, Table 4 lists each source's annual emissions and VOC, NOx and CO emissions for a typical ozone day by site ordered by county.

2.5 QUALITY CONTROL PROCEDURES

2.5.1 Initial 1979 Quality Control Procedures

Quality Control (QC) measures for the point source inventory were originally instituted for the 1979 Ozone SIP. Those measures consisted of three separate activities. First, a procedure was developed to update the point source inventory. Second, the data must be verified by DEEP personnel. Third, the data must be entered accurately.

Originally, the PIQ Inventory Update form was designed to provide DEEP with the yearly changes in fuel use and process weights for the registered and permitted equipment at the inspected plants. In general, plants that had an EPA class of A1 (actual emissions > 100 TPY) were updated annually; plants with an EPA class of A2 (potential emissions > 100 TPY) were updated every second year; and plants with an EPA class of B (potential emissions < 100 TPY) were updated every third to fifth

year.

Since 1993, the Inventory update procedure has been phased out with the implementation of our Emission Statement Program. From the inception of the emission statement program through the 2008 emission statement cycle, the Bureau's SAS based system was used to process and database emission statement submittals. In 2008, the Bureau contracted with CIBER to develop a new software application that would allow sites to report their emission statements electronically. This system is referred to as EMIT and replaces the SAS based system.

All sites that were considered a major source in 2011 submitted a 2011 emission statement. These sites reported their actual 2011 precursors to Ozone and PM10, criteria air pollutants and HAP emissions.

EMIT, has a number of required fields that the editor must provide data for. Once an editor begins editing data on a screen, he will not be able to save his edits until all required fields have been filled in. In addition, there are a number of validation checks to ensure that the value entered into a field is within an acceptable range. For example, annual actual hours of fuel use must be between zero and 8784 and the percent seasonal use must be between zero and 100. To support data consistency and quality control wherever possible users are provided dropdown list where they can select from a preset list of acceptable values. EMIT automatically performs a number of validation checks while sites are filling in their emission statement, prompting editors to provide missing data and correct errant or incongruent data. In addition, when sites attempt to submit their emission statement, EMIT performs another series of QA checks. Here is an example of some of the validation rules that must be satisfied before a site can submit an emission statement:

1. The sum of photochemically reactive VOC HAPs cannot exceed the VOC emissions. .
2. The PM10, primary emissions cannot be less than the sum of the PM10 filterable and PM condensable emissions.
3. The PM2.5, primary emissions cannot be less than the sum of the PM2.5 filterable and PM condensable emissions.
4. The PM10, primary emissions cannot be less than the PM2.5, primary emissions
5. The sum of the percent seasonal activities must equal 100.
6. A source must have at least one SCC associated to it. Emissions are calculated at the SCC level and then aggregated up to the source and finally the site level.

Another part of our QA process is data verification done by our Inventory Staff, which checks for consistency and completeness. QA reviews were conducted by staff via ad-hoc queries of submitted 2011 emission statements. Companies were contacted and given the option to re-submit their data or confirm that their original submission is correct if the following occurred:

1. The PM10, primary emissions for a process were greater than zero and the PM2.5, primary emissions were zero.
2. The VOC emissions estimates included reductions due to control equipment, but no reductions due to controls were applied in the estimation of VOC HAP emissions.
3. The annual activity was greater than the typical summer day activity.
4. The annual activity is zero and the annual emissions are greater than zero.

5. The summer day activity is zero and the summer day emissions are greater than zero.

Prior to EMIT, sites were required to calculate their emissions and to submit their emission statements on paper. One of the most common errors that occurred during this process was that they miscalculated their emissions. One of the great benefits afforded by the new EMIT system is that it calculates emissions for users at the SCC, source and site level each time a parameter is updated that impacts emissions. The calculation routines used by EMIT have been thoroughly tested and shown to be correct.

The Enforcement Division through their Pre-Inspection Questionnaire (PIQ) inspections verifies on-site company records regarding fuel use, solvent use and production rate data previously submitted in the Emission Statement Reports.

Point data is submitted to the EPA Emission Information System (EIS) where EPA applies data completeness, outlier and other checks. These checks are evaluated against in-house knowledge and data in order to formulate an action plan. In some cases the action plan requires a response or re-submittal by emission reporters. EPA's EIS quality assurance/augmentation procedures only changed 30 Criteria Air Pollutant records in Connecticut's 2011 point data submittal. These emissions changes were very minor. For 13 of the records, EPA used MATS based emission factors. These MATS based emission factors, although applied at the process level are really source level emission factors. Since, EMIT uses emission factors at the process (SCC) level it is problematic to use MATS based emission factors in EMIT. Since the changes were minor and to incorporate MATS based emission factors would be problematic, no changes in EMIT were made for these records. For 10 records EPA had altered the PM_{2.5}, primary emissions using their PM augmentation routine. The differences in emissions were very minor and the emissions themselves were very small. The largest of the emission differences being just over 1 ton with most of the remainder being less than 0.1 tons. For 5 of these records it appears that the sites had reported their data in a way that led EMIT to apply the control efficiencies to an after control emission factor, which resulted in the emissions being incorrect. These records were fixed in EMIT for reporting period 2011 and in the most current reporting period the record appears in. There were 5 records where EPA had augmented Ammonia emissions and two records where they had revised the lead emissions. Again these emissions are very small. Changes to data in EMIT were not made for these records for two reasons. One, the difficulty in locating the source, quality and justification for using an alternate emission factor and, two the emissions were negligible..

2.5.2 Additional Quality Control Procedures

Another aspect of quality control involves data verification by the users of the data. Point source inventory data are routinely used by: 1) the permit group to assess permit processing fees, 2) the modeling group for ambient impact analysis of new point sources, 3) the administrative enforcement group for state orders and notices of violation, and 4) the business office for Title V annual emission fees. As errors are detected by any of these groups, the appropriate corrections are made in the point source inventory.

The last aspect of quality control involves internal measures used by point source inventory personnel. Reasonableness checks are made on important variables.

2.6 REFERENCES FOR SECTION 2

1. State of Connecticut Department of Environmental Protection. 1990 Base Year Ozone and Carbon Monoxide Emissions Inventory, Bureau of Air Management, Planning and Standards Division, Hartford, CT. November 1993.
2. U.S. Environmental Protection Agency. FIRE Version 6.25 Source Classification Codes and Emission Factor Listing for Criteria Air Pollutants, EPA-454/R-95-012. Office of Air Quality Planning and Standards, Technical Support Division, Research Triangle Park, NC. September 2004.
3. U.S. Environmental Protection Agency. Compilation of Air Pollutant Emission Factors, Volume I: Stationary Point and Area Sources, Fifth Edition and Supplements, AP-42. Office of Air Quality Planning and Standards, Office of Air and Radiation, Research Triangle Park, NC. January 1995-December 2006.

SECTION 3 MOBILE SOURCES

3.1 INTRODUCTION

The mobile source emissions accounted for in this inventory are:

<u>Highway Vehicles</u>	<u>Nonroad Sources</u>	<u>Aircraft</u>	<u>Commercial Marine Vessels</u>	<u>Railroad Locomotives</u>
All vehicles registered for use on the public roadways.	<ul style="list-style-type: none"> ➤ lawn and garden equipment ➤ airport service equipment ➤ recreational equipment ➤ recreational marine vessels ➤ light commercial equipment ➤ industrial equipment ➤ construction equipment ➤ agricultural equipment ➤ logging equipment 	<ul style="list-style-type: none"> ➤ civilian ➤ commercial ➤ military 	All types of commercial vessels.	Locomotives operating on diesel fuel or coal.

Full sector summaries are provided in Section 1 of this document. These sector summaries are useful for comparing emissions from the five sectors, i.e. Point (aka Stationary point sources), Area (aka NONPOINT or Stationary area sources), NONROAD (aka Off-Highway mobile sources), ONROAD (aka highway mobile sources) and Biogenic Sources. Tables 3.1-1 thru 3.1-4 provide a high level summary for the ONROAD (aka Highway mobile sources) and NONROAD (Off-Highway mobile) sectors. Tables 3.3-1 and 3.3-2 provide an intermediate level summary for NONROAD, which most users of this document find to be useful.

Table 3.1-1: ANNUAL 2011 ONROAD EMISSIONS SUMMARY BY COUNTY (Excluding Refueling Emissions)

State and County FIPS Code	County Name	Annual Emissions (Tons per year)							
		VOC	NOX	CO	PM10-PRI	PM25-PRI	NH3	SO2	Lead
09001	FAIRFIELD	5,657.697	9,805.474	61,725.002	488.704	336.550	285.672	83.545	0.00000
09003	HARTFORD	5,562.240	10,018.413	63,362.551	500.603	355.851	299.204	78.703	0.00000
09005	LITCHFIELD	1,342.302	1,803.234	14,022.970	87.550	62.973	50.893	13.632	0.00000
09007	MIDDLESEX	1,169.038	2,238.867	13,628.674	101.201	74.028	68.361	17.318	0.00000
09009	NEW HAVEN	5,086.404	9,299.796	57,507.273	458.838	324.054	277.938	72.862	0.00000
09011	NEW LONDON	1,834.709	3,668.331	21,238.440	167.553	120.099	112.385	28.631	0.00000
09013	TOLLAND	1,018.501	1,923.866	11,363.648	90.138	64.731	56.187	14.575	0.00000
09015	WINDHAM	774.461	1,323.056	8,564.796	63.449	45.869	38.511	10.081	0.00000
STATEWIDE TOTAL		22,445.352	40,081.037	251,413.355	1,958.035	1,384.156	1,189.151	319.347	0.00000

Table 3.1-2: ANNUAL 2011 NONROAD EMISSIONS SUMMARY BY COUNTY

State and County FIPS Code	County Name	Annual Emissions (Tons per year)							
		VOC	NOX	CO	PM10-PRI	PM25-PRI	NH3	SO2	Lead
09001	FAIRFIELD	4,499.933	4,509.977	51,214.430	432.184	407.596	5.748	222.243	0.360
09003	HARTFORD	2,784.198	3,283.199	35,682.312	284.156	268.711	3.614	59.777	0.491
09005	LITCHFIELD	1,995.873	770.407	11,749.410	100.076	93.750	1.217	2.648	0.085
09007	MIDDLESEX	1,229.531	1,315.447	8,322.285	118.136	110.573	1.232	293.496	0.039
09009	NEW HAVEN	2,956.768	3,852.366	31,480.414	317.054	299.407	4.234	364.486	0.267
09011	NEW LONDON	2,091.753	2,265.516	10,994.337	166.779	157.686	2.061	159.148	0.096
09013	TOLLAND	554.761	430.797	4,278.176	46.210	43.626	0.579	1.445	0.084
09015	WINDHAM	938.391	540.272	5,210.938	64.725	60.880	0.732	1.887	0.121
STATEWIDE TOTAL		17,051.207	16,967.981	158,932.300	1,529.319	1,442.231	19.417	1,105.129	1.543

Table 3.1-3: SUMMER DAY 2011 ONROAD EMISSIONS SUMMARY BY COUNTY (Excluding Refueling Emissions)

State and County FIPS Code	County Name	Summer Day Emissions (Pounds per Day)		
		VOC	NOX	CO
09001	FAIRFIELD	31,811.913	59,815.543	319,049.829
09003	HARTFORD	31,914.631	60,077.854	341,599.718
09005	LITCHFIELD	7,458.123	10,605.990	66,053.411
09007	MIDDLESEX	6,564.842	13,036.060	73,046.068
09009	NEW HAVEN	28,408.315	56,277.357	302,433.465
09011	NEW LONDON	10,845.537	21,790.277	118,511.931
09013	TOLLAND	5,877.732	11,298.470	60,706.608
09015	WINDHAM	4,481.820	7,820.347	44,830.467
STATEWIDE TOTAL		127,362.912	240,721.899	1,326,231.497

Table 3.1-4: SUMMER DAY 2011 NONROAD EMISSIONS SUMMARY BY COUNTY

State and County FIPS Code	County Name	Summer Day Emissions (Pounds per Day)		
		VOC	NOX	CO
09001	FAIRFIELD	38,035.114	30,597.368	738,179.709
09003	HARTFORD	29,313.290	46,034.304	543,284.915
09005	LITCHFIELD	14,588.643	5,230.047	138,015.193
09007	MIDDLESEX	13,325.027	8,395.882	104,212.296
09009	NEW HAVEN	32,229.908	25,976.320	427,983.603
09011	NEW LONDON	17,487.572	14,023.104	117,143.839
09013	TOLLAND	4,837.865	3,076.181	54,828.330
09015	WINDHAM	7,707.463	3,877.772	61,025.308
STATEWIDE TOTAL		157,524.882	137,210.978	2,184,673.193

3.2 HIGHWAY VEHICLES

MOVES (Motor Vehicle Emission Simulator) was used to calculate emissions for on-road vehicle emissions as directed in the Procedures for Emission Inventory Preparation, Volume IV: Mobile Sources¹ and other guidance documents referenced in this document². National default values, local data, EPA converters (<http://www.epa.gov/otaq/models/moves/tools.htm>) and EPA guidance conversion factor values were used for many of the input parameters. Some of the national defaults used include values such as:

- < basic emission rates;
- < low emission vehicle emission rate modification;
- < I/M emission program rate adjustments;
- < annual mileage accumulation rates; and
- < diesel fractions, etc.

MOVES2010b model was run in inventory mode with the resulting emissions calculated for each Connecticut county. Individual MOVES inputs were developed for each county.

3.2.1 TRAFFIC DATA

The Connecticut Department of Transportation (CT DOT) provided MOVES formatted 2011 Vehicle Miles Traveled (VMT) data for each county. CT DOT used their PERFORM travel demand forecasting model to develop VMT estimates. PERFORM refers to the Connecticut Department of Transportation's PERson FORcasting Model developed in the 1980's. This model consists of a link-based network and trip generations, based on Census and Connecticut Department of Labor (CT DOL) data including but not limited to population, household income, cars per household, and employment. Although the basic equations used to generate estimates have not changed, the data that drive the model are continually updated. Each update carries a series number and letter designation that represents intermediate updates. Series 30B was used for this inventory. These estimates were prepared subsequent to the release of the 2010 CT DOL employment data. CT DOT has used a base form of this model to estimate and forecast VMT data since 1980.

The PERFORM model was used to generate 2011 VMT estimates because of its ability to estimate VMT by county with vehicle speeds included. It is also compatible with VMT tracking and analysis required under the Clean Air Act.

EPA requires the modeled VMT predictions to be consistent with data collected as part of the Highway Performance Monitoring System (HPMS) program. In the past, HPMS data were collected for the 12 functional road classes/facility types listed in Table 3.2.1-1:

Table 3.2.1-1. Old 12 HPMS Functional Road Classes

Rural	Urban
Interstate	Interstate
Other Principal Arterial	Other Freeways & Expressways
Minor Arterial	Other Principal Arterial
Major Collector	Minor Arterial
Minor Collector	Collector
Local	Local

In 2010 the Federal Highway Administration (FHWA), introduced the new 2010+ FHWA HPMS format. This new 2010+ FHWA HPMS format allowed for the necessary mapping of ramp data to the appropriate MOVES road type. Prior to this the Rural – Other Principal Arterial included restricted access freeways that could not be aligned to MOVES Rural restricted access road types. The FHWA identification scheme eliminated the rural/urban bifurcation and used a separate item to segregate rural, small urban and urbanized area designations. Table 3.2.1-2 presents the new 2010+ FHWA HPMS functional classification codes.

Table 3.2.1-2. The New 2010+ 14 HPMS Functional Road Classification Codes

Code	Functional Classification Description	
	Rural	Urban
1	Interstate	Interstate
2	Other Freeways & Expressways	Other Freeways & Expressways
3	Other Principal Arterial	Other Principal Arterial
4	Minor Arterial	Minor Arterial
5	Major Collector	Major Collector
6	Minor Collector	Minor Collector
7	Local	Local

The differences between the old 12 HPMS functional road classes/facility types and the new 2010+ FHWA HPMS functional classification codes are the addition of the Rural - Other Freeways & Expressways and the disaggregation of the Urban Collector functional road classification into Minor Collector and Major Collector. The CT DOT updated the EPA converter for the 16 vehicle type/12 road type to be a 16 vehicle type/14 road type to reflect the current FHWA HPMS standards. This resolved the problem of the “Other Principal Arterial” being a combination of both restricted and unrestricted access roads and allowed proper mapping of HPMS road types to MOVES road types.

Mappings used in the updated converter are presented in Table 3.2.1-3. Road Type 12 and 30 were added with the associated road descriptions and mappings; and the associated descriptions of road types 13 and 31 were modified from those established in NMIM and the Source Classification definitions. These additions and modified meanings are contained within the converter and should not be applied to any Road Type definitions other than the updated converter. The modified or added identifiers or the associated meaning provided in the table below should not be used for anything other than understanding the mapping of 2010+ FHWA HPMS Road Types to MOVES Road Types within the updated converter.

Table 3.2.1-3. New HPMS to MOVES Road Classification Mappings

DOT Created MOBILE6.2 Identifier			MOVES	
Road Type	Area Type	Description (Road Description)	MOVES Road Type ID	Description (Road Description)
11	Rural	Interstate	2	Rural restricted access
12	Rural	Other Freeways and Expressways	2	Rural restricted access
13	Rural	Other Principal Arterial	3	Rural unrestricted access
15	Rural	Minor Arterial	3	Rural unrestricted access
17	Rural	Major Collector	3	Rural unrestricted access
19	Rural	Minor Collector	3	Rural unrestricted access
21	Rural	Local	3	Rural unrestricted access
23	Urban	Interstate	4	Urban restricted access
25	Urban	Other Freeways and Expressways	4	Urban restricted access
27	Urban	Other Principal Arterial	5	Urban unrestricted access
29	Urban	Minor Arterial	5	Urban unrestricted access
30	Urban	Major Collector	5	Urban unrestricted access
31	Urban	Minor Collector	5	Urban unrestricted access
33	Urban	Local	5	Urban unrestricted access

To meet EPA's requirements, link volumes within the PERFORM model were stratified by HPMS functional classification based on link location and facility type code. All highway network links in the model are individually coded for HPMS functional classification. All HPMS functional classifications are represented in the highway network. Intra-Zonal trips (those too short to get on the model network - less than 2% of the total VMT) are assigned an average trip length based on the size of the traffic analysis zone and were considered local road trips. The PERFORM model was adjusted in this manner to produce data for these road classifications.

CT DOT calibrated the 2009 model year VMT to 2009 HPMS VMT. These adjustments are carried throughout the forecasted year and are reflected in the 2011 VMT estimates. The HPMS factors that were created by this calibration were then carried through to all subsequent years, including 2011.

Connecticut had an estimated 30.207 billion VMT per year in 2011, which corresponds to an

average of 82.8 million VMT per day including weekends and weekdays. Connecticut had an estimated average of 94.6 million VMT per summer weekday in 2011 compared to an annual average of 86.9 million VMT per weekday in 2011.

Validations of the PERFORM model were accomplished by comparing model output to known base data. In particular, HPMS VMT was an important basis of model validation and calibration. A link by link assignment versus Average Daily Traffic (ADT) tabulation was made to examine expressway assignments. Graphic plots were used as a visual review of model output of the highway network, with assignments and ADTs posted on a link basis. Comparisons also included a check of forecasted rail departure counts (Ons) and arrival counts (Offs) against actual 2010 data in order to ensure accurate compensation for alternative travel alternatives in the transportation model.

CT DOT also used a self-consistent equilibrium assignment process in that the state of equilibrium within the PERFORM model was determined by the closure ratio criterion. This is the ratio of the summation of the loaded network travel time to the projected summation of loaded travel time after capacity-restrained adjustment for the current iteration. The suggested default of 0.10 was retained for all assignment runs. This closure ratio was always attained at a point before the maximum number of iterations specified. The equilibrium assignment module uses volume-to-capacity ratios to adjust link speeds between iterations so that links are not over assigned.

VMT by geographic area is tabulated by four highway classifications: expressway, arterial/collector, local, and expressway ramp. Ramp VMT is estimated as a percentage of expressways' VMT based on the ratio of ramp mileage versus expressway mileage in each county. Ramp Vehicle Hour Traveled (VHT) is estimated by dividing Ramp VMT by the average speed for the appropriate road types set forth in MOBILE6.2 and MOVES2010 guidance.^{2,3}

Connecticut used "Travel Activity by Vehicle Type and Functional System" data reported by CT DOT to the Federal Highway Authority for the HPMS program (see Appendix B Tables 12 and 13). This report lists thirteen HPMS vehicle type percentages on the fourteen road types outlined previously. These data don't categorize vehicle types in the same manner as MOBILE6.2 or MOVES2010b.

HPMS vehicle fractions were converted to MOBILE6 vehicle fractions for input into a MOVES VMT Pre-processor by doing the following:

The HPMS vehicle count percentages were summed into light duty and heavy duty totals multiplied by the MOBILE6.2 vehicle mix for each HPMS road type. This generated a VMT fraction for each of the fourteen HPMS facility type by vehicle type for each MOBILE6.2 16 vehicle type on each road.

The thirteen vehicle groups associated with HPMS observations were summed into three groups, i.e. Light Duty Vehicle observations (LDVo), Heavy Duty Vehicles observations (HDVo) and Motorcycle observations (MCo) for each of the 14 HPMS road types. "Passenger Car" and

“Other 2-Axle, 4-Tire Vehicles” vehicle count fraction observations were summed to get LDVo count fraction observations. “Motorcycle” count fraction observations were summed for count fraction observations and the remaining vehicle categories were summed for the HDVo count fraction observations group. All of the sums were done by the fourteen HPMS road types.

A Connecticut vehicle VMT fraction augmented default group totals of LDVt, HDVt and MCt per road were calculated from the augmented MOBILE6.2 default vehicle fractions. LDVt was a summation of VMT mix fractions for the MOBILE6.2 LDV and LDT1, LDT2, LDT3 and LDT4 vehicle classes. HDVt was a summation of the VMT mix fractions for the MOBILE6.2 HDV2B, HDV3, HDV4, HDV5, HDV6, HDV7, HDV8A and HDV8B vehicle classes. MCt was the MC default.

EPA national default values from Table 4.1.2 (National Average Vehicle Miles Traveled Fractions by Vehicle Class Using MOBILE6.2) found in Section 4.1.4 of Reference 3 were augmented using an additional step to adjust the mix percentages. The LDV, LDT1, LDT2, LDT3, LDT4, HDV2B, HDV3, HDV4 and HDV5 vehicle class EPA national default mix values were localized using DMV registration data by age and national default mileage accumulation. This adjustment was based on the vehicle counts by vehicle class and by age from the vehicle age distribution analyses and EPA’s Reference 4 annual mileage accumulation by vehicle class and by age, which was normalized to replace the existing LDV thru HDV5 values. The Connecticut fleet is comprised of more cars (LDV’s) and heavier trucks than the national default and the adjustment of the national default values better aligns the MOVES VMT to the appropriate MOVES Source Types. It also better aligns the VMT apportionment to the appropriate vehicle age distribution. The localization of LDV thru HDV5 was based on the MOBILE6.2 to MOVES Source Type mapping using a statewide fleet distribution that was consistent with state registration data. VMT mix calculations were normalized to the fractional value of the default values being replaced. The complete set of augmented default MOBILE6.2 VMT mix values includes a composite of original default values that were not modified from their original values (MC, HDV6, HDV7, HDBS, HDBT, HDV8A, and HDV8B) and localized default values that were modified as described in this paragraph (LDV, LDT1, LDT2, LDT3, LDT4, HDV2B, HDV3, HDV4, and HDV5).

The net result of the additional localization of the data includes an emission reduction due to a greater percentage of vehicle VMT being assigned to passenger cars (MOVES Source Type 21) and an emission increase due to a greater percentage of vehicle VMT being assigned to commercial trucks (MOVES Source Type 32). The VMT contribution from lighter trucks (MOVES Source Type 31) is reduced proportionally to the VMT contribution increases.

The preprocessing of the MOVES VMT converter HPMS input table used the methodology outlined in the MOBILE6.2 Technical Guidance³ section 4.1.4: “Disaggregation of Local Information”. Following the calculation of the complete set of augmented default VMT mix values and calculation of the VMT fraction augmented default group totals. A Connecticut specific table with MOBILE6.2 VMT mix values for each of the 14 HPMS road types was developed. This table was developed by multiplying the HPMS fractional observation count (LDVo, HDVo, MCo) times the augmented MOBILE6.2 default value divided by the MOBILE6.2 VMT fraction augmented default group totals (LDVt, HDVt and MCt) for each of

the 16 MOBILE6.2 vehicle classes and each of the 14 HPMS road types. This table was formatted to obtain a Connecticut localized input table for the MOVES VMT converter. Appendix B Table 14 presents the results of the above calculation in the form of the Connecticut MOVES converter input for fraction of VMT on HPMS Road Type by MOBILE6.2 16 Vehicle Type. The Appendix B Table 14 data is statewide data that was applied to all eight Connecticut Counties.

The state-specific vehicle mix data was entered into the MOBILE6 to MOVES converter for each road class, together with county level VMT for each of the 14 2010+ FHWA HPMS road types discussed above, the MOBILE6.2 VMT by hour data shown in Appendix B Table 15, the percent of Vehicle Hours Traveled on Ramps and the MOBILE6.2 Registration Age Distribution so that appropriate MOVES inputs could be obtained. Average daily HPMS VMT for each of the 14 2010+ FHWA HPMS Road Types is presented in Appendix B Table 16. The CT DOT updated EPA 16 vehicle type/14 road type converter supplied the following:

- A daily VMT value (HPMSvTypeYear) that was input to the EPA's average annual weekday vehicle miles traveled (aadvmtcalculator_hpms.xls) converter to generate annual VMT by MOVES HPMSVTypeID;
- An hourly fraction (HourVMTFraction) for each MOVES Source Type for each hour and day type (weekday and weekend);
- A road type VMT fraction (RoadTypeDistribution) which indicates the fraction VMT that a MOVES Source Type travels on each MOVES road type. The sum of all road type fractions will be a value of one for each MOVES source type and a value for road type 1 is required, but it will always be zero;
- An hourly fraction (VHT fraction aka RoadType) of the time spent on ramps relative to the total time spent on each restricted MOVES road type ramp (restricted road types are also called limited access road types);
- And a SourceTypeAgeDistribution that could be used or compared to a more accurate directly calculated age distribution obtained directly from registration data.

In addition to producing annual VMT by MOVES HPMSVTypeID mentioned above, EPA's average annual weekday vehicle miles traveled (aadvmtcalculator_hpms.xls) converter also produced the dayVMTFraction and monthVMTFraction inputs for input to the MOVES Model. In addition to inputting a daily VMT value, Connecticut entered seasonal VMT adjustments based on winter, summer and annual VMT estimates to localize monthly adjustment factors. Weekday versus weekend factors were not altered from the EPA default values provided. Appendix B Tables 17 presents the total annual VMT used for each Connecticut county run. Appendix B Table 18 presents the resulting summer day VMT output for the summer day run for each Connecticut County.

Variations in speed on the network are accounted for by the use of a MOBILE6 input file depicting the speed distribution of VMT (in percentage form) for freeways and arterials only. A conversion is made internally to equate CT DOT's VMT speeds to the MOBILE6 speed ranges, shown as follows: The MOBILE6 speed distributions for freeways and arterials were input to the EPA's MOBILE6 to MOVES MS Excel Average Speed Converter to obtain MOVES inputs (http://www.epa.gov/otaq/models/moves/tools/averagespeedconverter_mobile6.xls). The converter provides a mapping, an extrapolation to include extra speed bins and a conversion of

the fractions assigned to each speed bin to a new vehicle hour traveled basis, rather than the previous vehicle mile travel basis previously used in MOBILE6.2. Appendix B, Table 19 illustrates the MOBILE6.2 to MOVES speed bin mapping. MOVES2010b speed input files are very large and are not included in this document. These data and other MOVES inputs can be obtained from the website listed in section 3.2.3.

3.2.2 OTHER MOVES INPUT DATA

3.2.2.1 METEOROLOGICAL DATA:

MOVES meteorological inputs consist of temperature and humidity data for months, zones (counties) and hours included in the MOVES run specification. Temperature and to a lesser extent humidity change emission estimates, consequently assumptions used for regional conformity analyses must be consistent with those used to establish the emissions budget in the SIP as required in the transportation conformity rule, 40 CFR §93.122(a)(6).²

3.2.2.1.1 OZONE TYPICAL DAY TEMPERATURE DETERMINATION

MOVES meteorological inputs for a typical high ozone day are calculated in Section 1.2.1 of this document. The maximum and minimum temperatures calculated in Section 1.2.1 were input into the EPA's [Meteorological Data Converter MOBILE6 \(XLS\)](#) to yield the results presented in Appendix B Tables 2 and 3. These data were input into the MOVES2010b summer day model runs for the respective counties. Appendix B Table 2 values apply to Fairfield, New Haven and Middlesex Counties. Appendix B Table 3 values apply to Hartford, New London, Tolland and Windham Counties.

3.2.2.1.2 TEMPERATURE DETERMINATION FOR A PM2.5 ANNUAL RUN

MOVES meteorological inputs for the MARAMA annual modeling effort used the NMIM National County Database (version NCD20090531) for 2007 analyses.⁵ The temperature and humidity used as an input for the annual 2011 Periodic Emissions Inventory maintained consistency with the 2007 NCD20090531 data to maintain consistency with these prior analyses. The temperatures and humidity used in these analyses are documented in Appendix B Tables 4 thru 11, where Appendix B Tables 4 applies to Fairfield County, Appendix B Tables 5 applies to Hartford County, Appendix B Tables 6 applies to Litchfield County, Appendix B Tables 7 applies to Middlesex County, Appendix B Tables 8 applies to New Haven County, Appendix B Tables 9 applies to New London County, Appendix B Tables 10 applies to Tolland County and Appendix B Tables 11 applies to Windham County.

3.2.2.2 INSPECTION AND MAINTENANCE:

Connecticut's Inspection and Maintenance (I/M) program for motor vehicle emission testing began in 1983. The current I/M program reflects significant changes made in 1998 and 2003 in response to changes in federal and Connecticut statutory requirements. The inspection network is a decentralized system with a contractor-equipped limit of 300 stations. Cars and trucks having a gross vehicle weight rating (GVWR) of 10,000 pounds or less are subject to biennial I/M

program testing. The I/M program requires all subject vehicles manufactured less than twenty-five years ago be tested for emissions, except for vehicles less than four years old. Gasoline-powered vehicles model year 1996 or newer and having a GVWR of 8,500 pounds or less receive OBDII inspections. OBDII is the current (second generation) On-Board Diagnostics electronic system that includes the most up-to-date comprehensive system monitors in vehicles starting with model year 1996. OBDII testing involves checks to ensure the OBDII system is properly operating. The emission tests for gasoline-powered vehicles having a GVWR of 8,500 pounds or less that are model year 1995 or older is a loaded-mode test (ASM2525) and a gas cap pressure test. A 1995 or older vehicle that cannot be tested on a dynamometer or any gasoline-powered vehicle having a GVWR between 8,500 pounds and 10,000 pounds receives an idle test. Light-duty (GVWR <8500 lb.) diesel-powered vehicles model year 1997 or newer receive OBD inspections. Diesel-powered vehicles receive testing for excessive exhaust smoke if they do not receive OBDII tests.

MOVES inputs reflect the characteristics and statistics of the Connecticut I/M program. I/M data for 2011 Periodic Emissions Inventory runs were obtained from the 2011 Annual Evaluation of Connecticut's Inspection/Maintenance Program^{6,7}. Compliance and Waiver Rates were modified to specific values based on evaluations of test data collected from January 1, 2011 to December 31, 2011. The specific compliance and waiver rate values for each program are shown later in this write-up when the calculation of MOVES complianceFactor is detailed.

In MOVES, the I/M program is defined by the MOVES imcoverage table and includes the state, county and year IDs as well as pollutant process ID, source type ID, fuel type ID, I/M program ID, inspection frequency, test standards ID, beginning and ending model years, and a compliance factor. It also includes a column labeled "useIMyn" which allows the user to turn off ("N") or on ("Y") the portion of the I/M program described in that row of the table.

The first step in the process is to eliminate all the EPA defaults, by setting the useIMyn field for each of these entries to "N". The values are not appropriate for Connecticut and it is cleaner to upload consistent of Connecticut specific data.

All Connecticut counties use the same I/M program, thus I/M mappings and parameters will be consistent throughout the state. Appendix B Table 20 identifies the MOVES imcoverage table mapping of I/M program ID (IMProgramID), inspection frequency (inspectionFreq) and test standards ID (testStandardsID) to the MOVES imteststandards table testStandardDesc field and to the MOBILE6.2 I/M Header Comment Description.

MOVES uses two fields in the imcoverage table to specify the beginning and ending model years affected by a particular part of the I/M program. For I/M programs without a grace period for new vehicles or an exemption period for older vehicles, this is simply the first and last model year affected by the program. Since Connecticut I/M program has a grace period and an exemption age the beginning and ending model years values change for every run year and the values are calculated from the I/M Program effective dates and/or the I/M GRACE PERIOD (4 years) and the I/M EXEMPTION AGE (25 years). For example, a 2011 input would correspond to the beginning (begModelYearID) and ending (endModelYearID) model years in the table below. OBD based programs (IMProgamID 11 and 12) program start date is later that the

beginning model year associated with the 25 year exemption consequently the first model year tested by the program is the first OBDII model year defined by the program while other beginning model year values that apply to older vehicles are set at the value associated with the 25 year exemption (i.e. $2011-25+1=1987$ for IMProgramID's 13, 14, 15, 16). In 2019, biennial ASM I/M tailpipe and GC evaporative test for pre-96 gasoline vehicles up to 8,500 lbs GVWR drop out of the I/M inputs due to the exemption age. As was the case for exemption age the grace period only programs with vehicle model years falling within the grace periods' influence for the selected run year are impacted by the grace period. The ending model year for the biennial ASM I/M tailpipe and GC evaporative test for pre-96 gasoline vehicles up to 8,500 lbs GVWR I/M programs are 1995 (IMProgramID 15 and 16) and is thus not impacted by the grace period. The ending model year for all other I/M programs are set based on the grace period of four years (i.e. $2011-4+1=2008$). A plus one is included in both the exemption and grace period calculations to account for the model year preceding the calendar year. Appendix C Table 21 provides a summary of the beginning and ending model year IDs for each Inspection and Maintenance program identifier (IMProgramID).

Guidance on I/M inputs is provided in EPA's "Technical Guidance on the Use of MOVES2010 for Emission Inventory Preparation in State Implementation Plans and Transportation Conformity"². This document provides specific guidance on the MOVES source types (vehicles), pollutants and processes allowed by the type of I/M program and provides specific direction on the calculation of the value to be entered in the imcoverage table complianceFactor field.

MOVES estimates emission reductions from I/M programs for hydrocarbons, NO_x, and CO. For exhaust emissions, I/M programs can affect both running and start emissions. For evaporative emissions, I/M programs affect hydrocarbon emissions from fuel vapor venting and fuel leaks. Appendix B Table 22 shows the I/M program to polProcess assignments with processID, pollutantID and **processName** description obtained from the emissionprocess, pollutant and pollutantprocessassoc tables provided by EPA in MOVES default database. This data used in generating the I/M program input pollutant and process associations.

MOVES currently calculates I/M program benefits only for gasoline vehicles (fuelTypeID=1 gasoline), so the inputs and this discussion are limited to gasoline vehicles only. A duplication of the fuelTypeID =1 was entered for the placeholder fuel (fuelTypeID=5) for possible future use, but this fuel type was not used in Connecticut's runs.

I/M programs are applied to vehicles by regulatory weight class; however, MOVES applies I/M benefits by source type. This leads to discrepancies between the vehicle regulatory classes covered in the actual I/M program and the vehicle regulatory classes that MOVES assumes are covered when the MOVES source type definition combines vehicles that are included in an I/M program with vehicles that are not included in an I/M program. For example, an I/M program that targets trucks less than 8501 lbs. Gross Vehicle Weight Rating (GVWR) (i.e. regulatory classes LDT1, LDT2, LDT3, and LDT4) or Heavy Duty Gas Truck I/M Programs for trucks 8,501 to 10,000 lbs GVWR (HDV2B) would include parts of two MOVES source types: passenger trucks (sourcetypeID 31) and light commercial trucks (32). However, these source types include vehicles with GVWR less than 8,501 lbs., GVWR greater than 8500 lbs, and

GVWR greater than 10,000 lbs. Only one I/M program can be applied to the source type, so either separate runs are needed or a composite complianceFactor value would need to be calculated and assigned when more than one I/M program applied to any Source Type. When an I/M program is applied to source types 31 and 32 in MOVES, all of the vehicles in these source types get I/M benefits, including the HDV3, HDV4 and HDV5 vehicles that are not subject to I/M testing. EPA guidance directs users to adjust the compliance factor (complianceFactor field value) to account for the fraction of vehicles within a source type that are actually covered by the I/M program². Regulatory Class Coverage Adjustments for each MOVES source type were extracted from EPA Technical Guidance Table A.3 Gasoline I/M Regulatory Coverage Adjustments² and were entered for each applicable MOBILE6.2 Regulatory Class and I/M program in the tables below. The complianceFactor and waiver rate for 2011 were obtained from the 2011 Annual I/M Report⁴. Appendix B Table 23 shows the inputs and resulting compliance factor calculated for 2011 based on actual program data presented in the I/M report. The I/M complianceFactor doesn't comprise an adjustment to include the HDV2B I/M program and separate MOVES runs for the HDV2B program were not performed for this report. Analyses of MOVES runs for the HDV2B I/M program showed the benefit to be very low. Further, the deviation of the VMT contributions of regulatory classes within the MOVES source types 31 and 32 favor a more conservative and less complicated approach not crediting the HDV2B I/M program would not only be less prone to error, but may also be a more accurate estimate of emissions.

The calculated imcoverage table complianceFactor field value is calculated for each I/M program and fuel type, MOVES Source type and does not vary for polProcessID assignments within the source type within the program. See Appendix B Table 23 for additional information.

3.2.2.3 FUEL SUPPLY AND FUEL FORMULATION:

The first phase of the federally required reformulated gasoline (RFG) program began in Connecticut in 1995, and was included in the modeling for these analyses. Connecticut had previously modeled the entire state with a single fuel input. The 2002 NMIM National County Database (NCD) used two fuel areas where Fairfield County was in one area and the remainder of Connecticut was the other fuel area. The RFG website identifies three areas for Connecticut, however only two of the areas break into county lines and have enough data to support reliable statistical analyses. The breakout of the Connecticut fuel area assignments were reviewed with the EPA RFG staff and it was determined that this two area approach was recommended for fuel similarity and statistical reasons. The Connecticut fuel data presented in Appendix B Table 1 was developed based on a weighted average of RVP sampling in EPA's gasoline storage terminal compliance study⁸. The seasons identified in Appendix B Table 1 correspond to the following months; Winter season corresponds to December, January and February; Shoulder season corresponds to March, April, October and November; and Summer corresponds to May, June, July, August and September. These seasonal definitions relate to the Summer RFG season defined on the RFG websites and a general understanding that fuel will transition to non-RFG season values before the season begins and/or after the season ends⁸. New fuel formulation identifiers were used to avoid overwriting existing MOVES default fuel formulation identifiers.

3.2.2.4 AGE DISTRIBUTION

The 2011 registration data was fully evaluated and assigned to MOBILE6.2 vehicle classifications and best estimate model years. The DMV year field is a two digit year. This was converted to a four digit year by adding 2000 to any two digit number less than 14 and adding 1900 to any two digit number 14 or greater. This four digit DMV year was evaluated against the year associated with the VIN digit 10 year for VIN numbers that were calculated to have a valid check digit value or were successfully decoded in the past. VIN digit 10 year values are now starting to repeat, thus even though the valid VIN digit 10 year value was considered to be reliable, it is no longer completely independent from the DMV year assignment. MOBILE6.2 assignments were generated from a Connecticut VIN decoder / Query Estimated Designation tool that allowed the query of individual VIN digits, Make, Model, Body, beginning model year, ending model year, check digit validation (true, false or all records). Previously generated De la Torre Klausmeier Consulting generated Connecticut fleet age distribution data derived from 2005 DMV vehicle registration data with the aid of a VIN decoder were available to be viewed in the 2011 effort. The Connecticut DEP used the 2011 DMV vehicle registration data to develop an age distribution profile for motorcycles, heavy duty school busses, heavy duty transit busses and developed a database that included the consultants' results to check and further refine the derived light duty vehicle, light duty truck 1, light duty truck 2, light duty truck 3, and light duty truck 4 age distribution data. MOBILE62 registration distribution files have 25 ages for each MOBILE62 vehicle type with the total for each vehicle type older than 25 years going into age 25, where MOVES uses a file that has 31 ages starting at age 0 with the total for each MOVES source use type older than 30 years going into age 30.

The percentage for each model year and each vehicle type was then calculated and formatted as necessary for use in the MOBILE6 model. Appendix B Table 24 documents the process and input values used in the MOBILE6 age distribution file. This MOBILE62 age distribution file was used in the VMT converters, but a slightly more accurate version directly derived from the same DMV data and analysis was used as direct input for the MOVES run. The directly derived data used a reverse engineered mapping that was later updated to reflect the mappings provided in Appendix A.1 of the Reference 16 MOVES2010 Technical Guidance Document.

3.2.2.4 SOURCE TYPE POPULATION

The 2011 registration data was fully evaluated and assigned to MOBILE6.2 vehicle classification and was processed utilizing EPA mappings used in the converters, which are also summarized in table A.1 of Reference 2. A 1% factor was applied to the data in order to compensate for vehicle registrations not capable of being processed (i.e. dealer plates, state vehicles, town vehicles, transporter plates and other registration data not having adequate data to assign a model year or MOBILE6.2 classification). Population counts for all source types were based upon a complete analysis of CT-specific registration data. This data is presented in Appendix B Table 27. While a complete accounting of the in state fleet was developed, the population estimates for HPMS Vehicle Source Types 50 and 60 were increased when a VMT calculated population was greater than the population estimated from registration data to account for the influence of interstate traffic. Connecticut Specific 2011 HPMS vehicle miles travelled (VMT) from MOVES input files was used to augment vehicle counts obtained directly from the 2011 registration data. The

VMT based population estimates for source types 51, 52, 53, 54, 61 and 62 used an approach outlined in section 3.3 of Reference 16 and a national run for all Connecticut counties to obtain a ratio of MOVES default population to VMT by source type for 2011. That ratio was multiplied by local county VMT for each source type to obtain an estimate of local population based on local VMT. This data is presented in Appendix B Table 28. As stated above the registration population data was used, when the VMT based estimate was lower than what was actually registered in the state. This accounts for inaccuracies in the VMT based method, for home-based lodging of interstate trucks and for truck populations accumulating lower than expected VMT. Appendix D Table 29 indicates when a registration based vehicle source use type population was used (Reg) and when a VMT registration based vehicle source use type population was used (VMT).

3.2.3 ONROAD RESULTS

The annual and summer day emission estimates for ONROAD (aka highway) mobile sources presented in Appendix B Tables 30 thru 47 were produced by the MOVES runs that used the inputs described in this appendix. Table 3.1-1 and Appendix B Table 30 provides a state summary of annual emissions for ONROAD mobile sources. Table 3.1-3 and Appendix B Table 31 provides a state summary of summer weekday emissions for ONROAD mobile sources. Appendix B Tables 32 thru 39 provide annual emission estimates for ONROAD mobile sources by SCC for each Connecticut County. Appendix B Tables 40 thru 47 provide summer weekday emission estimates ONROAD mobile sources by SCC for each Connecticut County. The SCCs used in this report are the new mobile SCCs created by EPA that are included in MOVES2014. MOVES2010b source use type and fuel were included in the output results and a mapping of the fuel ID and source use type ID to the SCC allowed accurate assignment of the appropriate Source Classification Code (SCC). The SCCs used break the emissions out by MOVES Source Use Type and fuel.

MOVES2010b run specifications, input databases and output databases provide additional details beyond that provided in this document. These data cover all inputs including very large inputs like the summer day and annual speed inputs. These data are in large zip files that can be downloaded from the following website. The databases need to be placed under the MySQL data folder and require a compatible version of MySQL to be installed to view data. Run specifications can be viewed in MOVES2010b. Run specifications can be corrupted if the underlying input database is not put in place prior to opening the run specification.

ftp://ftp.state.ct.us/pub/dep/air/public/2011PEI_files

3.3 NONROAD MOBILE SOURCES

The Nonroad Mobile Sources consist of:

Nonroad Mobile Sources
< Aircraft
< Commercial Marine Vessels
< Locomotives
< Lawn and Garden equipment
< Airport service equipment
< Recreational equipment
< Recreational Marine Vessels
< Light Commercial equipment
< Industrial equipment
< Construction equipment
< Agricultural equipment
< Logging equipment

Connecticut adopted EPA's annual 2011 NEI version 2 NONROAD emission estimates, which are available through the EPA emissions inventory page on the chief website or through the EPA's Emission Information System (2011_EPA_Mobile dataset). These data were reviewed and found consistent for NONROAD SCC's. The annual NONROAD Model run data was downloaded after the March 4, 2015 update of the Chief website listed below were used in this report. It is important to understand that the "Nonroad (zipped CSV, 317 MB)" combo box download option file, corresponds to the NONROAD Model only. Annual 2011 emission estimates for locomotive and commercial marine vessel were obtained from the "Nonpoint (zipped SCV, 74.7 MB)" combo box download option file and aircraft emissions are in the "Point (zipped CSV, 514 MB) file. These files do not include activity data so an additional request was made of EPA for aircraft data, due to the EIS Bridge Tool being unavailable.

<http://www.epa.gov/ttn/chief/net/2011inventory.html>

There were no typical summer weekday emission estimates available for Connecticut to adopt from the EPA websites, so the 2008a U.S. EPA NONROAD Emission Model (NONROAD2008a Model) was used to estimate 2011 VOC, NO_x, and CO daily emissions for a typical ozone season day for all non-road mobile source categories except for locomotive, aircraft, aircraft support equipment, and commercial marine vessels emissions. Emissions from aircraft including aircraft support equipment, commercial marine vessels, and locomotives are discussed and calculated in sections 3.4, 3.5, and 3.6, respectively.

All input data supplied to the NONROAD Model summer day runs are presented in [Appendix C, Table 1](#). Gasoline fuel RVP, gasoline oxygen weight percent and gasoline sulfur percent were calculated from fuel sampling measurements⁸ that included samples from Connecticut, New York, and New Jersey. EPA prepared National County Database (NCD) NCD20130331_nei2011dv1 to support the 2011 National Emissions Inventory (NEI)

NONROAD Model runs. July 2011 NCD gasoline fuel properties closely matched the sample measurements, but the NCD Reid Vapor Pressure (RVP) values were slightly less conservative than reported in sample measurements and the sample measurements were used as input for the Connecticut NONROAD Model summer day run. The only state modifications made to the EPA base files via the NONROAD Model advanced options were associated with pleasure craft equipment population, which was implemented via the 09000.POP file. The contents of the 09000.POP file are shown in Appendix C Table 2. The 09000.POP file is based on the pleasure craft population updates performed at the end of a MARAMA 2007 Inventory Development project, which are described in section 4.2 of Reference 9.

Connecticut specific sampling measurements for diesel sulfur and marine diesel sulfur were not readily available. July 2011 NCD diesel sulfur and marine diesel sulfur were used as input for the Connecticut NONROAD Model summer day run. The 0.003% default input values was used for CNG/LPG Sulfur % Input. Test runs were conducted with varying sulfur inputs to determine the sensitivity of output results for pollutants within the scope of this report to varied sulfur concentrations. It was determined that sulfur did not impact CO, VOC, or NO_x results.

A summary of annual emissions from non-road mobile sources are presented in Table 3.3-1. A summary of summer daily emissions from non-road mobile sources are presented in Table 3.3-2. Summary data for aircraft (including aircraft support equipment), commercial marine vessel, and locomotive emissions are included in Tables 3.3-1 and 3.3-2, but detailed calculations and discussions supporting the summary data are found in sections 3.4, 3.5, and 3.6, respectively. A high level summary of annual emissions from non-road mobile sources are presented in the Section 3 introduction Table 3.1-2. A high level summary of summer daily emissions from non-road mobile sources are presented in the Section 3 introduction Table 3.1-4.

TABLE 3.3-1

2011 SUMMARY OF ANNUAL EMISSIONS FROM NONROAD MOBILE SOURCES

County and NONROAD Sub-Sector	Annual VOC EMISSIONS (Tons/year)	Annual NOx EMISSIONS (Tons/year)	Annual CO EMISSIONS (Tons/year)	Annual PM10-PRI EMISSIONS (Tons/year)	Annual PM25-PRI EMISSIONS (Tons/year)	Annual NH3 EMISSIONS (Tons/year)	Annual SO2 EMISSIONS (Tons/year)	Annual Lead EMISSIONS (Tons/year)
Fairfield								
Agricultural Equipment	0.6	5.4	4.9	0.5	0.5	0.0	0.0	0.0000
Aircraft Exhaust	12.0	5.7	392.6	8.8	7.0	0.0	1.2	0.3560
Airport Equipment	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0000
Commercial Equipment	481.8	452.8	9,180.4	35.9	34.3	0.7	1.3	0.0029
Commercial Marine Vessels	18.0	656.7	97.1	39.3	36.8	0.5	209.5	0.0000
Construction and Mining Equipment	201.7	1,434.6	1,569.5	127.2	123.1	1.6	3.6	0.0000
Industrial Equipment	146.4	760.0	3,152.4	37.2	36.3	0.5	2.3	0.0000
Lawn and Garden Equipment (Com)	1,910.7	542.3	25,619.3	136.9	126.7	1.6	2.3	0.0000
Lawn and Garden Equipment (Res)	564.8	93.4	7,133.4	15.6	14.3	0.3	0.5	0.0000
Locomotives	4.9	121.6	12.1	3.0	2.7	0.0	0.6	0.0003
Logging Equipment	0.1	0.1	0.8	0.0	0.0	0.0	0.0	0.0000
Pleasure Craft	980.5	413.3	2,756.5	21.3	19.9	0.5	1.0	0.0000
Railroad Equipment	1.9	9.0	16.9	1.1	1.0	0.0	0.0	0.0000
Recreational Equipment	176.4	15.0	1,278.5	5.5	5.1	0.1	0.1	0.0000
Fairfield Total:	4,499.9	4,510.0	51,214.4	432.2	407.6	5.7	222.2	0.3597

TABLE 3.3-1 (Continued)

2011 SUMMARY OF ANNUAL EMISSIONS FROM NONROAD MOBILE SOURCES

County and NONROAD Sub-Sector	Annual VOC EMISSIONS (Tons/year)	Annual NOx EMISSIONS (Tons/year)	Annual CO EMISSIONS (Tons/year)	Annual PM10-PRI EMISSIONS (Tons/year)	Annual PM25-PRI EMISSIONS (Tons/year)	Annual NH3 EMISSIONS (Tons/year)	Annual SO2 EMISSIONS (Tons/year)	Annual Lead EMISSIONS (Tons/year)
Hartford								
Agricultural Equipment	3.4	31.4	28.2	2.7	2.7	0.0	0.1	0.0000
Aircraft Exhaust	73.2	399.6	995.7	21.1	18.3	0.0	50.4	0.4907
Airport Equipment	9.6	29.4	287.2	0.9	0.9	0.0	0.6	0.0000
Commercial Equipment	408.6	385.4	7,777.0	30.4	29.1	0.6	1.1	0.0000
Commercial Marine Vessels	0.4	16.1	3.3	0.5	0.5	0.0	0.2	0.0001
Construction and Mining Equipment	145.2	1,032.3	1,128.6	91.5	88.6	1.1	2.6	0.0000
Industrial Equipment	165.2	846.5	3,577.8	41.0	39.9	0.5	2.5	0.0000
Lawn and Garden Equipment (Com)	929.6	265.0	12,448.4	66.6	61.6	0.8	1.1	0.0000
Lawn and Garden Equipment (Res)	583.4	97.6	7,388.6	16.2	14.9	0.4	0.5	0.0000
Locomotives	3.6	86.6	8.6	2.2	1.9	0.0	0.4	0.0002
Logging Equipment	0.5	0.7	4.3	0.1	0.1	0.0	0.0	0.0000
Pleasure Craft	332.6	70.1	813.8	6.1	5.7	0.1	0.2	0.0000
Railroad Equipment	1.8	8.7	16.4	1.0	1.0	0.0	0.0	0.0000
Recreational Equipment	127.1	13.7	1,204.3	3.8	3.5	0.1	0.1	0.0000
Hartford Total:	2,784.2	3,283.2	35,682.3	284.2	268.7	3.6	59.8	0.4910

TABLE 3.3-1 (Continued)

2011 SUMMARY OF ANNUAL EMISSIONS FROM NONROAD MOBILE SOURCES

County and NONROAD Sub-Sector	Annual VOC EMISSIONS (Tons/year)	Annual NOx EMISSIONS (Tons/year)	Annual CO EMISSIONS (Tons/year)	Annual PM10-PRI EMISSIONS (Tons/year)	Annual PM25-PRI EMISSIONS (Tons/year)	Annual NH3 EMISSIONS (Tons/year)	Annual SO2 EMISSIONS (Tons/year)	Annual Lead EMISSIONS (Tons/year)
Litchfield								
Agricultural Equipment	5.1	47.0	42.2	4.1	4.0	0.0	0.1	0.0000
Aircraft Exhaust	2.3	1.0	86.1	1.8	1.4	0.0	0.2	0.0846
Airport Equipment	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0000
Commercial Equipment	74.3	70.2	1,410.5	5.5	5.3	0.1	0.2	0.0000
Commercial Marine Vessels	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0000
Construction and Mining Equipment	27.6	196.2	214.3	17.4	16.8	0.2	0.5	0.0000
Industrial Equipment	36.7	187.4	794.7	9.1	8.8	0.1	0.6	0.0000
Lawn and Garden Equipment (Com)	268.6	76.9	3,590.3	19.2	17.8	0.2	0.3	0.0000
Lawn and Garden Equipment (Res)	131.7	22.3	1,669.1	3.7	3.4	0.1	0.1	0.0000
Locomotives	0.4	11.7	1.2	0.3	0.3	0.0	0.1	0.0000
Logging Equipment	2.9	4.3	24.7	0.6	0.6	0.0	0.0	0.0000
Pleasure Craft	544.3	115.2	1,335.2	10.0	9.3	0.2	0.3	0.0000
Railroad Equipment	0.4	1.9	3.5	0.2	0.2	0.0	0.0	0.0000
Recreational Equipment	901.7	36.4	2,577.6	28.1	25.9	0.2	0.3	0.0000
Litchfield Total:	1,997.8	819.9	11,754.3	101.3	94.9	1.2	3.0	0.0847

TABLE 3.3-1 (Continued)

2011 SUMMARY OF ANNUAL EMISSIONS FROM NONROAD MOBILE SOURCES

County and NONROAD Sub-Sector	Annual VOC EMISSIONS (Tons/year)	Annual NOx EMISSIONS (Tons/year)	Annual CO EMISSIONS (Tons/year)	Annual PM10-PRI EMISSIONS (Tons/year)	Annual PM25-PRI EMISSIONS (Tons/year)	Annual NH3 EMISSIONS (Tons/year)	Annual SO2 EMISSIONS (Tons/year)	Annual Lead EMISSIONS (Tons/year)
Middlesex								
Agricultural Equipment	1.0	9.1	8.2	0.8	0.8	0.0	0.0	0.0000
Aircraft Exhaust	0.8	0.4	36.0	0.7	0.6	0.0	0.1	0.0379
Airport Equipment	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0000
Commercial Equipment	72.2	68.1	1,377.5	5.4	5.1	0.1	0.2	0.0012
Commercial Marine Vessels	18.5	515.8	44.3	43.6	40.2	0.2	291.0	0.0000
Construction and Mining Equipment	37.0	263.0	287.7	23.3	22.6	0.3	0.7	0.0000
Industrial Equipment	31.3	159.8	677.6	7.7	7.5	0.1	0.5	0.0000
Lawn and Garden Equipment (Com)	160.0	45.5	2,144.8	11.5	10.6	0.1	0.2	0.0000
Lawn and Garden Equipment (Res)	112.8	18.8	1,430.4	3.1	2.9	0.1	0.1	0.0000
Locomotives	1.9	50.1	4.9	1.2	1.1	0.0	0.3	0.0001
Logging Equipment	2.1	3.1	18.0	0.4	0.4	0.0	0.0	0.0000
Pleasure Craft	481.3	165.9	1,290.7	9.9	9.2	0.2	0.4	0.0000
Railroad Equipment	0.3	1.6	3.0	0.2	0.2	0.0	0.0	0.0000
Recreational Equipment	310.2	14.2	999.3	10.2	9.4	0.1	0.1	0.0000
Middlesex Total:	1,231.8	1,375.5	8,328.2	119.6	111.9	1.2	294.2	0.0392

TABLE 3.3-1 (Continued)

2011 SUMMARY OF ANNUAL EMISSIONS FROM NONROAD MOBILE SOURCES

County and NONROAD Sub-Sector	Annual VOC EMISSIONS (Tons/year)	Annual NOx EMISSIONS (Tons/year)	Annual CO EMISSIONS (Tons/year)	Annual PM10-PRI EMISSIONS (Tons/year)	Annual PM25-PRI EMISSIONS (Tons/year)	Annual NH3 EMISSIONS (Tons/year)	Annual SO2 EMISSIONS (Tons/year)	Annual Lead EMISSIONS (Tons/year)
New Haven								
Agricultural Equipment	1.6	14.4	12.9	1.3	1.2	0.0	0.0	0.0000
Aircraft Exhaust	8.8	6.2	300.0	6.6	5.2	0.0	1.2	0.2641
Airport Equipment	0.1	0.5	3.7	0.0	0.0	0.0	0.0	0.0000
Commercial Equipment	378.9	356.6	7,217.7	28.2	27.0	0.6	1.0	0.0000
Commercial Marine Vessels	20.9	661.8	74.3	50.1	46.4	0.4	353.7	0.0025
Construction and Mining Equipment	160.6	1,142.3	1,249.3	101.2	98.0	1.2	2.8	0.0000
Industrial Equipment	126.9	663.3	2,722.2	32.7	31.8	0.4	2.0	0.0000
Lawn and Garden Equipment (Com)	681.6	193.8	9,134.6	48.8	45.2	0.6	0.8	0.0000
Lawn and Garden Equipment (Res)	564.0	93.7	7,131.0	15.6	14.3	0.3	0.5	0.0000
Locomotives	9.6	247.8	24.5	6.2	5.5	0.1	1.3	0.0005
Logging Equipment	1.5	2.2	12.5	0.3	0.3	0.0	0.0	0.0000
Pleasure Craft	829.6	448.4	2,507.0	19.6	18.4	0.5	1.0	0.0000
Railroad Equipment	1.8	8.4	15.8	1.0	1.0	0.0	0.0	0.0000
Recreational Equipment	170.9	13.0	1,074.8	5.4	5.0	0.1	0.1	0.0000
New Haven Total:	2,965.8	4,082.2	31,503.1	322.7	304.6	4.3	367.4	0.2672

TABLE 3.3-1 (Continued)

2011 SUMMARY OF ANNUAL EMISSIONS FROM NONROAD MOBILE SOURCES

County and NONROAD Sub-Sector	Annual VOC EMISSIONS (Tons/year)	Annual NOx EMISSIONS (Tons/year)	Annual CO EMISSIONS (Tons/year)	Annual PM10-PRI EMISSIONS (Tons/year)	Annual PM25-PRI EMISSIONS (Tons/year)	Annual NH3 EMISSIONS (Tons/year)	Annual SO2 EMISSIONS (Tons/year)	Annual Lead EMISSIONS (Tons/year)
New London								
Agricultural Equipment	3.0	27.5	24.7	2.4	2.3	0.0	0.1	0.0000
Aircraft Exhaust	4.0	1.5	120.0	2.7	2.2	0.0	0.3	0.0929
Airport Equipment	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0000
Commercial Equipment	63.8	60.2	1,218.7	4.8	4.6	0.1	0.2	0.0000
Commercial Marine Vessels	26.6	1,014.9	175.9	46.8	44.4	0.5	155.2	0.0000
Construction and Mining Equipment	72.6	516.3	564.6	45.8	44.3	0.6	1.3	0.0033
Industrial Equipment	35.3	186.8	751.1	9.3	9.1	0.1	0.6	0.0000
Lawn and Garden Equipment (Com)	91.4	26.0	1,224.7	6.6	6.1	0.1	0.1	0.0000
Lawn and Garden Equipment (Res)	182.8	30.7	2,324.0	5.1	4.7	0.1	0.2	0.0000
Locomotives	2.6	69.5	6.8	1.7	1.6	0.0	0.4	0.0002
Logging Equipment	1.7	2.5	14.5	0.4	0.3	0.0	0.0	0.0000
Pleasure Craft	937.8	296.9	2,472.1	18.9	17.6	0.4	0.7	0.0000
Railroad Equipment	0.6	2.6	5.0	0.3	0.3	0.0	0.0	0.0000
Recreational Equipment	669.7	30.0	2,092.3	22.1	20.4	0.2	0.2	0.0000
New London Total:	2,091.8	2,265.5	10,994.3	166.8	157.7	2.1	159.1	0.0963

TABLE 3.3-1 (Continued)

2011 SUMMARY OF ANNUAL EMISSIONS FROM NONROAD MOBILE SOURCES

County and NONROAD Sub-Sector	Annual VOC EMISSIONS (Tons/year)	Annual NOx EMISSIONS (Tons/year)	Annual CO EMISSIONS (Tons/year)	Annual PM10-PRI EMISSIONS (Tons/year)	Annual PM25-PRI EMISSIONS (Tons/year)	Annual NH3 EMISSIONS (Tons/year)	Annual SO2 EMISSIONS (Tons/year)	Annual Lead EMISSIONS (Tons/year)
Tolland								
Agricultural Equipment	2.2	20.2	18.2	1.8	1.7	0.0	0.0	0.0000
Aircraft Exhaust	2.2	1.0	85.1	1.8	1.4	0.0	0.2	0.0837
Airport Equipment	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0000
Commercial Equipment	26.2	24.8	498.7	2.0	1.9	0.0	0.1	0.0000
Commercial Marine Vessels	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0000
Construction and Mining Equipment	32.3	229.6	250.9	20.4	19.7	0.3	0.6	0.0000
Industrial Equipment	11.0	63.1	224.9	3.3	3.3	0.0	0.2	0.0000
Lawn and Garden Equipment (Com)	81.1	23.2	1,085.2	5.8	5.4	0.1	0.1	0.0000
Lawn and Garden Equipment (Res)	86.1	14.6	1,097.3	2.4	2.2	0.1	0.1	0.0000
Locomotives	0.3	9.1	0.9	0.2	0.2	0.0	0.0	0.0000
Logging Equipment	1.9	2.8	16.2	0.4	0.4	0.0	0.0	0.0000
Pleasure Craft	152.8	32.4	375.5	2.8	2.6	0.1	0.1	0.0000
Railroad Equipment	0.3	1.4	2.7	0.2	0.2	0.0	0.0	0.0000
Recreational Equipment	158.3	8.4	622.6	5.2	4.8	0.0	0.1	0.0000
Tolland Total:	554.8	430.8	4,278.2	46.2	43.6	0.6	1.4	0.0838

TABLE 3.3-1 (Continued)

2011 SUMMARY OF ANNUAL EMISSIONS FROM NONROAD MOBILE SOURCES

County and NONROAD Sub-Sector	Annual VOC EMISSIONS (Tons/year)	Annual NOx EMISSIONS (Tons/year)	Annual CO EMISSIONS (Tons/year)	Annual PM10-PRI EMISSIONS (Tons/year)	Annual PM25-PRI EMISSIONS (Tons/year)	Annual NH3 EMISSIONS (Tons/year)	Annual SO2 EMISSIONS (Tons/year)	Annual Lead EMISSIONS (Tons/year)
Windham								
Agricultural Equipment	3.5	31.8	28.6	2.8	2.7	0.0	0.1	0.0000
Aircraft Exhaust	3.3	1.5	124.4	2.6	2.0	0.0	0.3	0.1214
Airport Equipment	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0000
Commercial Equipment	28.7	27.2	547.1	2.1	2.0	0.0	0.1	0.0000
Commercial Marine Vessels	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0000
Construction and Mining Equipment	39.3	279.6	305.4	24.8	24.0	0.3	0.7	0.0000
Industrial Equipment	16.8	88.0	360.4	4.3	4.2	0.1	0.3	0.0000
Lawn and Garden Equipment (Com)	62.7	18.0	837.9	4.5	4.2	0.1	0.1	0.0000
Lawn and Garden Equipment (Res)	72.5	12.4	925.1	2.0	1.9	0.0	0.1	0.0000
Locomotives	0.5	12.9	1.3	0.3	0.3	0.0	0.1	0.0000
Logging Equipment	2.3	3.4	19.7	0.5	0.5	0.0	0.0	0.0000
Pleasure Craft	194.8	41.4	479.8	3.6	3.3	0.1	0.1	0.0000
Railroad Equipment	0.2	1.1	2.1	0.1	0.1	0.0	0.0	0.0000
Recreational Equipment	513.8	23.0	1,579.3	17.0	15.7	0.1	0.2	0.0000
Windham Total:	938.4	540.3	5,210.9	64.7	60.9	0.7	1.9	0.1214
State Total:	17,051.2	16,968.0	158,932.3	1,529.3	1,442.2	19.4	1,105.1	1.5433

TABLE 3.3-2
2011 SUMMARY OF DAILY EMISSIONS FROM NONROAD MOBILE SOURCES

County and NONROAD Sub-Sector	Typical Summer Day VOC EMISSIONS (Pounds/day)	Typical Summer Day NOx EMISSIONS (Pounds/day)	Typical Summer Day CO EMISSIONS (Pounds/day)
Fairfield			
Agricultural Equipment	6.115	54.628	56.101
Aircraft	635.85	305.086	21874.524
Airport Equipment	0.117	0.32	3.421
Commercial Equipment	3704.118	2695.768	115364.256
Commercial Marine Vessels	99.059	3608.126	533.434
Construction and Mining Equipment	1543.735	10664.68	16754.557
Industrial Equipment	920.807	4689.993	21459.192
Lawn and Garden Equipment (Com)	15672.99	4726.718	448633.693
Lawn and Garden Equipment (Res)	6402.699	519.974	80975.606
Locomotives	37.574	935.25	93.082
Logging Equipment	0.69	0.899	7.353
Pleasure Craft	7637.834	2218.468	14848.262
Railroad Equipment	13.453	61.543	192.106
Recreational Equipment	1360.077	115.915	17384.122
Fairfield Total:	38,035.1	30,597.4	738,179.7
Hartford			
Agricultural Equipment	35.894	317.538	328.766
Aircraft	4468.713	24648.11	60231.513
Airport Equipment	595.766	1812.453	17730.529
Commercial Equipment	3313.89	2268.781	99348.592
Commercial Marine Vessels	2.024	88.493	17.988
Construction and Mining Equipment	1119.144	7672.189	12166.415
Industrial Equipment	1043.515	5233.563	24411.791
Lawn and Garden Equipment (Com)	7750.915	2261.263	221458.318
Lawn and Garden Equipment (Res)	7250.289	523.664	85244.604
Locomotives	27.428	665.905	66.491
Logging Equipment	3.671	4.69	38.873
Pleasure Craft	2665.192	371.903	4369.66
Railroad Equipment	13.197	59.608	188.321
Recreational Equipment	1023.652	106.14	17683.054
Hartford Total:	29,313.3	46,034.3	543,284.9

TABLE 3.3-2 (Continued)

2011 SUMMARY OF DAILY EMISSIONS FROM NONROAD MOBILE SOURCES

County and NONROAD Sub-Sector	Typical Summer Day VOC EMISSIONS (Pounds/day)	Typical Summer Day NOx EMISSIONS (Pounds/day)	Typical Summer Day CO EMISSIONS (Pounds/day)
Litchfield			
Agricultural Equipment	53.716	475.217	492.019
Aircraft	51.658	23.544	1965.709
Airport Equipment	0	0	0
Commercial Equipment	602.051	412.184	18049.234
Commercial Marine Vessels	0	0	0
Construction and Mining Equipment	212.67	1457.949	2311.987
Industrial Equipment	231.606	1159.221	5419.429
Lawn and Garden Equipment (Com)	2239.153	653.254	63976.844
Lawn and Garden Equipment (Res)	1640.75	118.506	19290.966
Locomotives	3.331	89.939	8.861
Logging Equipment	20.869	26.667	220.984
Pleasure Craft	4373.648	610.303	7170.724
Railroad Equipment	2.836	12.815	40.488
Recreational Equipment	5156.355	190.448	19067.948
Litchfield Total:	14,588.6	5,230.0	138,015.2
Middlesex			
Agricultural Equipment	10.348	92.393	95.084
Aircraft	22.244	10.172	903.097
Airport Equipment	0	0	0
Commercial Equipment	557.442	404.352	17390.758
Commercial Marine Vessels	101.81	2834.195	243.358
Construction and Mining Equipment	283.148	1955.155	3079.552
Industrial Equipment	196.834	989.071	4610.974
Lawn and Garden Equipment (Com)	1315.005	395.037	37736.324
Lawn and Garden Equipment (Res)	1287.227	103.919	16315.258
Locomotives	14.28	385.24	37.957
Logging Equipment	14.9	19.398	159.292
Pleasure Craft	7232.184	1104.616	14504.034
Railroad Equipment	2.401	10.976	34.363
Recreational Equipment	2287.204	91.358	9102.245
Middlesex Total:	13,325.0	8,395.9	104,212.3

TABLE 3.3-2 (Continued)

2011 SUMMARY OF DAILY EMISSIONS FROM NONROAD MOBILE SOURCES

County and NONROAD Sub-Sector	Typical Summer Day VOC EMISSIONS (Pounds/day)	Typical Summer Day NOx EMISSIONS (Pounds/day)	Typical Summer Day CO EMISSIONS (Pounds/day)
New Haven			
Agricultural Equipment	16.285	145.39	149.624
Aircraft	496.078	362.989	17027.31
Airport Equipment	8.592	33.533	235.282
Commercial Equipment	2920.389	2118.378	91109.099
Commercial Marine Vessels	114.917	3636.494	408.156
Construction and Mining Equipment	1229.681	8491.055	13374.235
Industrial Equipment	797.715	4086.76	18544.208
Lawn and Garden Equipment (Com)	5599.383	1682.097	160683.719
Lawn and Garden Equipment (Res)	6415.819	517.952	81318.779
Locomotives	73.706	1906.296	188.800
Logging Equipment	10.388	13.524	111.064
Pleasure Craft	13229.71	2827.184	30566.399
Railroad Equipment	12.561	57.415	179.77
Recreational Equipment	1304.686	97.253	14087.158
New Haven Total:	32,229.9	25,976.3	427,983.6
New London			
Agricultural Equipment	31.377	277.576	287.392
Aircraft	269.754	103.374	8233.212
Airport Equipment	0.05	0.154	1.484
Commercial Equipment	519.01	355.33	15559.688
Commercial Marine Vessels	146.108	5576.487	966.7
Construction and Mining Equipment	559.751	3837.341	6085.183
Industrial Equipment	222.046	1147.22	5113.401
Lawn and Garden Equipment (Com)	762.788	222.535	21794.309
Lawn and Garden Equipment (Res)	2281.41	164.78	26823.478
Locomotives	19.794	534.452	52.653
Logging Equipment	12.253	15.658	129.752
Pleasure Craft	7641.227	1581.66	13349.772
Railroad Equipment	3.999	18.06	57.06
Recreational Equipment	5018.005	188.477	18689.755
New London Total:	17,487.6	14,023.1	117,143.8

TABLE 3.3-2 (Continued)

2011 SUMMARY OF DAILY EMISSIONS FROM NONROAD MOBILE SOURCES

County and NONROAD Sub-Sector	Typical Summer Day VOC EMISSIONS (Pounds/day)	Typical Summer Day NOx EMISSIONS (Pounds/day)	Typical Summer Day CO EMISSIONS (Pounds/day)
Tolland			
Agricultural Equipment	23.114	204.471	211.705
Aircraft	82.352	37.588	3121.123
Airport Equipment	0	0	0
Commercial Equipment	212.792	145.684	6379.472
Commercial Marine Vessels	0	0	0
Construction and Mining Equipment	248.936	1706.559	2706.228
Industrial Equipment	68.867	381.798	1526.2
Lawn and Garden Equipment (Com)	676.668	197.411	19333.661
Lawn and Garden Equipment (Res)	1078.548	77.9	12680.933
Locomotives	2.595	70.071	6.903
Logging Equipment	13.69	17.493	144.96
Pleasure Craft	1230.089	171.648	2016.766
Railroad Equipment	2.167	9.789	30.926
Recreational Equipment	1198.047	55.769	6669.453
Tolland Total:	4,837.9	3,076.2	54,828.3
Windham			
Agricultural Equipment	36.349	321.569	332.939
Aircraft	149.664	68.542	5602.407
Airport Equipment	0	0	0
Commercial Equipment	233.556	159.897	7001.857
Commercial Marine Vessels	0	0	0
Construction and Mining Equipment	303.057	2077.593	3294.607
Industrial Equipment	106.032	541.724	2455.817
Lawn and Garden Equipment (Com)	522.881	152.545	14939.647
Lawn and Garden Equipment (Res)	910.029	65.728	10699.576
Locomotives	3.680	99.375	9.790
Logging Equipment	16.648	21.273	176.282
Pleasure Craft	1571.78	219.328	2576.978
Railroad Equipment	1.692	7.641	24.141
Recreational Equipment	3852.095	142.557	13911.267
Windham Total:	7,707.5	3,877.8	61,025.3
State Total:	157,524.9	137,211.0	2,184,673.2

3.4 AIRCRAFT

EPA annual aircraft emissions were adopted by Connecticut. These emissions data were included in the point source inventory and are available from the 2011EPA_Airports dataset in EPA's Emissions Inventory System (EIS) and/or the zipped Point data in the 2011 National Emissions Inventory on the Chief Website (link shown below).

<http://www.epa.gov/ttn/chief/net/2011inventory.html>

EPA provided draft activity estimates of the aircraft activity data and allowed states to comment on the data. Connecticut provided some input on airports and heliport that exclusively used turbine aircraft and provided some updates to EPA's activity data. EPA was interested in breaking out piston driven aircraft from turbine driven aircraft in order to obtain a more accurate lead emissions estimate. Airport activity at small airports does not significantly impact emission estimates. Consequently, EPA activity estimates were accepted even though they appeared high for small airports, based on airport shutdowns and prior airport survey data. Airport activity data was obtained from EPA via email but can be obtained from Request Report – Emissions Snapshot - Point Data Category - emissions snapshot of the 2011EPA_Airports dataset – Connecticut Department of Energy and Environmental Protection when the EIS bridge tool is available. EPA documentation of the 2011 aircraft emissions estimates is provided in a document entitled 2011nei_Aircraft_20130717.pdf¹⁰, which can be downloaded from the EPA ftp website listed below:

<ftp://ftp.epa.gov/EmisInventory/2011/doc>

Activity reports and Federal Aviation Administration (FAA) activity reports from the largest airports (those with FAA control towers) were considered where possible. The airports in Connecticut having control towers are as follows.

- Bradley International Airport
- Danbury Municipal Airport
- Groton-New London Airport
- Hartford-Brainard Airport
- Igor I. Sikorsky Memorial Airport
- Tweed-New Haven Airport
- Waterbury-Oxford Airport

Additional Connecticut airports of sufficient size to also be include in the Federal Aviation Administration's Terminal Area Forecast (TAF) Data are as follows.

- Chester Airport
- Danielson Airport
- Meriden-Markham Municipal Airport
- Robertson Field
- Simsbury Airport
- Windham Airport

Summer day VOC, CO and NO_x emissions temporal allocation were based on an augmentation of activity data collected in the survey described in the 2005 PEI (see section 3.4 in Attachment 1). The survey results were augmented to align with EPA's aircraft type – SCC assignment presented in the EPA's EIS Aircraft Engine Type Code table and a summer season fraction was calculated from available data. The FAA aircraft operating counts by service type and the EPA's SCC assignments do not perfectly align. An example of this type of issue would be Federal Express using an airplane normally used for commercial air travel (i.e. Air Bus A-300) for use in

an air taxi service, where the EPA SCC assignment would reflect the commercial air travel rather than an air taxi service. Summer season temporal allocations were reviewed for reasonableness and were provided gap filling as described below. Raw SCC allocated survey counts are presented in Appendix C Table 3, final summer season fractions with data gaps filled are presented in Appendix C Table 4, allocated summer day emissions by airport are presented in Appendix C Table 5 and final county level summaries are summarized in Table 3.3-2 located in section 3.3.

SCC 2275001000 Aircraft Auxiliary Power Units were not explicitly identified in the survey, so a statewide summer season allocation factor equal to 0.21 was calculated from a ratio of summed summer day to summed annual combined activity of turbine driven air taxi and commercial aircraft survey LTO data were used to generate a temporal allocation factor for all airports except Bradley International Airport (BDL). An airport specific factor of 0.26 was applied to Bradley Airport based on the commercial aircraft and turbine air taxi summer season allocation factor equaling 0.26.

EPA assigned airport ground support equipment (SCCs 2265008005, 2267008005, 2268008005 and 2270008005) emissions to Bradley International Airport (BDL), Danbury Municipal Airport (DXR), Groton-New London Airport (GON), Hartford-Brainard Airport (HFD), Igor I. Sikorsky Memorial Airport (BDR), Robertson Field (4B8), Simsbury Tri-Town Airport (4B9), Tweed-New Haven Airport (HVN), and Waterbury-Oxford Airport (OXC). Airport ground support equipment were not explicitly identified in the survey, so an appropriate surrogate was sought for a temporal summer season allocation factor. Airport ground support equipment is typically related to commercial aircraft travel, but also can apply to air taxi operations, especially for larger turbine driven air taxi aircraft. A ratio of the sum of summer season divided by the sum of annual survey LTO activity data for commercial and turbine driven air taxi aircraft at each airport was used to calculate a summer season temporal allocation factor all airports except Danbury Municipal Airport (DXR), Hartford-Brainard Airport (HFD), Robertson Field (4B8) and Simsbury Tri-Town Airport (4B9). The summer season temporal allocation factor for Hartford-Brainard Airport (HFD) was calculated exclusively from a ratio of commercial aircraft LTOs. The summer season temporal allocation factor for Danbury Municipal Airport (DXR) and Robertson Field (4B8) was calculated exclusively from a ratio of turbine driven air taxi LTOs. The summer season temporal allocation factor for Simsbury Tri-Town Airport (4B9) was calculated exclusively from a ratio of piston driven general aviation LTOs, because this was the only available information for the Simsbury Tri-Town Airport (4B9). Airport ground support equipment emissions at Bradley International Airport (BDL) are by far the largest and the allocation methods for other airports having smaller emissions provide a conservative summer season allocation of the ground support equipment emissions. Airport ground support equipment summer season allocation factors for Bradley International Airport (BDL) are most heavily dominated by commercial aircraft emissions, which is consistent with expectations for ground support equipment use.

SCC 2275001000 Military Aircraft for Hartford-Brainard Airport (HFD) and Meriden-Markham Municipal Airport (MMK) were not directly available from survey data and an average statewide temporal summer season allocation factor for military aircraft was calculated to be 0.25 from the survey data.

Reviewing EPA and survey data for the thirteen Connecticut airports large enough to be listed in FAA's TAF database resulted in the actions described in the following paragraphs, so that needed summer season temporal allocation fractions could be obtained.

The single commercial aircraft LTO assigned to Danbury Municipal Airport (DXR) was assigned a summer season allocation fraction of 0.28 consistent with air taxi turbine survey data, which coincidentally equaled the other civil aviation survey data.

Danielson Airport (LZD, formerly 5B3) survey data allocation indicated all activity mapped to piston driven general aviation with 70 percent of the activity occurring in the summer. A 0.7 summer season allocation factor was applied to turbine driven general aviation and all air taxi operations at the airport as this was the only available data for the airport.

Hartford-Brainard Airport (HFD) survey data allocation indicated all activity mapped to piston general aviation with 44 percent of the piston related activity and 56 percent of the turbine related activity occurring in the summer. A 0.44 summer season allocation factor was conservatively applied to piston driven air taxi and a 0.56 summer season allocation factor was conservatively applied to turbine driven air taxi operations at the airport. These factors appear to be a little high, but the data is the best data that is currently available.

Simsbury Tri-Town Airport (4B9) survey data allocation indicated all activity mapped to piston driven general aviation with 37 percent of the activity occurring in the summer. A 0.37 summer season allocation factor was applied to turbine driven general aviation, all air taxi operations and airport ground support equipment at the airport as this was the only available data for the airport.

Chester Airport (SNC, formerly 3B9) survey data did not align due to an outdated alternate identifier in EIS. Data was manually updated to align and the issue was identified to EPA for future correction. The issue was originally identified in 2012 when reviewing airport data, but the alternate facility identifier change was not implemented at that time, as there may have been some discussion of when the identifier actually changed.

EPA was apparently concerned about obtaining a conservative lead emission estimate for airports, consequently EPA assigned piston driven air taxi activity at airports where the survey data indicated there was no piston driven air taxi activity. To address this situation airport specific summer day temporal allocation factors for SCC 2275060012 turbine driven air taxi aircraft were applied to SCC 2275060011 piston driven aircraft for Bradley International (BDL), Danbury Municipal Airport (DXR), Igor I. Sikorsky Memorial (BDR), Groton-New London (GON), Meriden-Markham Municipal (MMK), Robertson Field (4B8), Waterbury-Oxford (OXC) and Windham (IJD) Airports.

Additional situations where the assumed profile for the aircraft at smaller airports than those listed in TAF. A summer season allocation factor was calculated from all survey summer and annual LTO survey data for each airport, which addressed 29 missing values. These 29 values correspond to roughly 2.5 percent of the EPA's total 2011 LTOs.

The last remaining data needing to be filled corresponded to airports that had did not have a matching survey summer season allocation factor, typically because the airport had zero activity

in the survey. Rather than assigning a zero for the summer allocation factor, an average statewide summer allocation factor was calculated for small airports having less than 500 total annual General Aviation LTOs, which addressed the 70 missing values. These 70 values were exclusively associated with general aviation activity and correspond to roughly 0.5 percent of the EPA's total 2011 LTOs. A 0.38 summer season allocation factor was calculated.

Summer day emissions were calculated using a methodology similar to that previously used in earlier inventories. The LTO, seasonal adjustments, and tonnage conversions were also factored in the following equation.

$$E_{ij} = E_{aij} \times S_j \times 2000 / \text{DAYS}$$

Where:

- E_{ij} = Total emissions of pollutant i, in pounds per day, produced by the composite aircraft type makeup for SCCj for all LTO cycles
- E_{aij} = Total annual emissions of pollutant i, in tons per year, produced by the composite aircraft type makeup for SCCj for all LTO cycles. These emissions are shown in Appendix C Table 5 under the Annual Emissions (TPY) column, where a summation of the EPA annual emissions estimate for the airport are presented in tons per year for each of the pollutants needing a summer day emissions estimate.
- S_j = Summer season fraction of Landing and Take-Off Cycles for composite aircraft type makeup for SCCj (The summer season fraction represents the fraction of total annual Landing and Take-Off Cycles that occurred during the summer season for the specific source classification code (SCCj) at the airport. These fractions are shown in Appendix C Table 4.
- 2000 = Conversion factor of pounds per ton
- DAYS = Days in Ozone season

A sample calculation for VOC emissions from SCC 2275050012 at Bridgeport Hospital Heliport in Fairfield County can be shown using the first record in both Appendix C Tables 4 and 5 as follows:

$$E_i = 0.011 \times 0.16 \times 2000 / 92$$

$$E_i = 0.38 \frac{\text{lbs. VOC}}{\text{day}}$$

Annual and summer day emissions for each county were summed to the county level and presented in summary Tables 3.3-1 and 3.3-2 located in section 3.3.

3.5 COMMERCIAL MARINE VESSELS

Connecticut has adopted the EPA estimates for Commercial Marine Vessels in place of the prior methodology used in earlier inventory estimates. Commercial marine vessels include all boats and ships used directly or indirectly in the conduct of commerce or military activity¹¹. These include vessels ranging from small charter boats to the largest tankers and military vessels. Emissions from commercial vessels were computed for major harbors and waterways in the State. Annual 2011 EPA emission estimates for commercial marine vessels were obtained from the “Nonpoint (zipped SCV, 74.7 MB)” combo box download option on the website listed below:

<http://www.epa.gov/ttn/chief/net/2011inventory.html>

EPA will provide a Technical Support Document for these 2011 NEI Version 2 emission estimates under the 2011 NEI Version 2 Documentation heading on the 2011 National Emissions Inventory webpage. EPA had high confidence in their 2011 emissions inventory emission estimates for large commercial marine vessels with category 3 engines due to recent rule making analyses and indicated that they would probably not accept comments from states. EPA indicated that the smaller commercial marine vessels with category 1 and 2 engines were being developed specifically for the 2011 emissions inventory and that there was a possibility for states to improve emission estimates.¹² Connecticut is adopting EPA’s 2011 emission estimates without state input.

Tables 3.5-1 and 3.5-3 present VOC, NOx, CO PM10 primary, PM25 primary, NH3, SO2 and Lead annual emissions in tons for waterborne commercial vessels as a county level summary and an operational detail summary, respectively. Tables 3.5-2 and 3.5-4 present VOC, NOx, and CO daily emissions in pounds for a typical ozone summer day emission estimates for waterborne commercial vessels as a county level summary and an operational detail summary, respectively.

Appendix C Table 6 presents the summer season allocation factors used in the calculation of NONROAD summer day emissions from EPA’s annual emission estimates. The summer day allocation for this sector used the SCC calculated method for estimating summer day emissions and used inputs that maintain consistency with prior Connecticut summer day emission inventories. The seasonal adjustments, average days of operation per week and weeks of summer operation and tonnage conversions were factored in the calculation as shown in the following equation.

$$E_{ij} = E_{aij} \times S_j \times 2000 / DAYS$$

Where:

- E_{ij} = Total emissions of pollutant i, in pounds per day, produced by SCCj (and emissions type code when applicable) for all county or statewide emissions
- E_{aij} = Total annual emissions of pollutant i, in tons per year, produced by the SCCj (and emissions type code when applicable) for all county or

- statewide emissions.
- S_j = Summer season fraction for SCCj (The summer season fraction represents the fraction of total activity that occurred during the summer season for the specific source classification code (SCCj). Summer season fraction is equal to summer season percent divided by 100.
- 2000 = Conversion factor of pounds per ton
- DAYS = Days in Ozone season, which is equal to the average days of operation per week times weeks of summer operation.

A sample calculation for VOC emissions from SCC 2280002100 in Fairfield County can be shown using the first record in both Table 3.5-3 and Appendix C Table 6 as follows:

$$E_i = 3.38 \times 25 / 100 \times 2000 / (7 \times 13)$$

$$E_i = 18.6 \frac{\text{lbs. VOC}}{\text{day}}$$

This calculated value aligns with summer day VOC emissions presented in the first record of Table 3.5-4 for SCC 2280002100 in Fairfield County.

Annual and summer day emissions for each county were summed to the county level and presented in summary Tables 3.3-1 and 3.3-2 located in section 3.3.

TABLE 3.5-1

2011 SUMMARY OF CONNECTICUT COMMERCIAL MARINE VESSEL ANNUAL EMISSIONS (Tons)

County Designation and Name		Annual Criteria Pollutant Emissions in Tons							
		VOC	NOX	CO	PM10-PRI	PM25-PRI	NH3	SO2	Lead
09001	Fairfield	18.04	656.67	97.08	39.32	36.78	0.45	209.48	0.00291
09003	Hartford	0.37	16.11	3.27	0.53	0.52	0.01	0.20	0.00008
09005	Litchfield	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
09007	Middlesex	18.53	515.83	44.29	43.58	40.15	0.21	291.01	0.00116
09009	New Haven	20.92	661.85	74.30	50.12	46.41	0.42	353.67	0.00248
09011	New London	26.59	1,014.93	175.94	46.85	44.38	0.46	155.20	0.00326
09013	Tolland	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
09015	Windham	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
09000	Statewide Total	84.45	2,865.39	394.88	180.40	168.24	1.55	1,009.56	0.00989

TABLE 3.5-2

2011 SUMMARY OF CONNECTICUT COMMERCIAL MARINE VESSEL SUMMER DAY EMISSIONS (Pounds)

County Designation and Name		Summer Day Criteria Pollutant Emissions in Pounds		
		VOC	NOX	CO
09001	Fairfield	99.06	3,608.12	533.43
09003	Hartford	2.02	88.49	17.99
09005	Litchfield	0.00	0.00	0.00
09007	Middlesex	101.81	2,834.19	243.36
09009	New Haven	114.92	3,636.49	408.16
09011	New London	146.11	5,576.49	966.70
09013	Tolland	0.00	0.00	0.00
09015	Windham	0.00	0.00	0.00
09000	Statewide Total	463.92	15,743.79	2,169.64

TABLE 3.5-3

2011 SUMMARY DETAIL OF CONNECTICUT COMMERCIAL MARINE VESSEL ANNUAL EMISSIONS (Tons)

FIPS Code / SCC	County Name / SCC – Emission Type Code Description	Annual Criteria Pollutant Emissions in Tons							
		VOC	NOX	CO	PM10-PRI	PM25-PRI	NH3	SO2	Lead
09001	Fairfield								
2280002100	Diesel Port emissions - Maneuvering	3.38	147.58	30.00	4.88	4.73	0.05	1.81	0.00037
2280002200	Diesel Underway emissions - Cruise	4.62	202.01	41.06	6.68	6.48	0.13	2.48	0.00100
	Diesel Emissions Fairfield Total	8.00	349.59	71.06	11.56	11.21	0.18	4.29	0.00137
2280003100	Residual Port emissions - Hoteling	8.75	269.82	22.87	24.52	22.58	0.26	181.42	0.00147
2280003100	Residual Port emissions - Maneuvering	0.53	16.31	1.38	1.48	1.37	0.00	10.97	0.00002
2280003200	Residual Underway emissions - Cruise	0.62	17.16	1.45	1.44	1.33	0.01	10.48	0.00004
2280003200	Residual Underway emissions - Reduced Speed Zone	0.14	3.79	0.32	0.32	0.29	0.00	2.32	0.00001
	Residual Emissions Fairfield Total	10.04	307.08	26.02	27.76	25.57	0.27	205.19	0.00154
09003	Hartford								
2280002200	Diesel Underway emissions - Cruise	0.37	16.11	3.27	0.53	0.52	0.01	0.20	0.00008
09005	Litchfield	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00000
09007	Middlesex								
2280002200	Diesel Underway emissions - Cruise	0.10	4.37	0.89	0.14	0.14	0.00	0.05	0.00002
2280003200	Residual Underway emissions - Cruise	18.43	511.46	43.40	43.44	40.01	0.21	290.96	0.00114
09009	New Haven								
2280002100	Diesel Port emissions - Maneuvering	2.70	118.10	24.01	3.90	3.79	0.04	1.45	0.00029
2280002200	Diesel Underway emissions - Cruise	0.76	33.33	6.78	1.10	1.07	0.02	0.41	0.00017
	Diesel Emissions New Haven Total	3.46	151.43	30.79	5.00	4.86	0.06	1.86	0.00046

TABLE 3.5-3

2011 SUMMARY DETAIL OF CONNECTICUT COMMERCIAL MARINE VESSEL ANNUAL EMISSIONS (Tons)

FIPS Code / SCC	County Name / SCC – Emission Type Code Description	Annual Criteria Pollutant Emissions in Tons							
		VOC	NOX	CO	PM10-PRI	PM25-PRI	NH3	SO2	Lead
2280003100	Residual Port emissions - Hoteling	9.29	282.13	24.19	25.61	23.59	0.28	218.05	0.00154
2280003100	Residual Port emissions - Maneuvering	0.59	18.04	1.55	1.64	1.51	0.00	13.94	0.00002
2280003200	Residual Underway emissions - Cruise	7.50	208.16	17.59	17.69	16.29	0.08	118.63	0.00046
2280003200	Residual Underway emissions - Reduced Speed Zone	0.08	2.09	0.18	0.18	0.16	0.00	1.19	0.00000
	Residual Emissions New Haven Total	17.46	510.42	43.51	45.12	41.55	0.36	351.81	0.00202
09011	New London								
2280002100	Diesel Port emissions - Maneuvering	9.88	431.98	87.81	14.28	13.85	0.14	5.31	0.00107
2280002200	Diesel Underway emissions - Cruise	7.47	326.51	66.37	10.79	10.47	0.22	4.01	0.00162
	Diesel Emissions New London Total	17.35	758.49	154.18	25.07	24.32	0.36	9.32	0.00269
2280003100	Residual Port emissions - Hoteling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00000
2280003100	Residual Port emissions - Maneuvering	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00000
2280003200	Residual Underway emissions - Cruise	9.24	256.44	21.76	21.78	20.06	0.10	145.88	0.00057
2280003200	Residual Underway emissions - Reduced Speed Zone	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00000
	Residual Emissions New London Total	9.24	256.44	21.76	21.78	20.06	0.10	145.88	0.00057
09013	Tolland	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00000
09015	Windham	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00000
9000	Statewide Total CMV Emissions	84.45	2,865.39	394.88	180.40	168.24	1.55	1,009.56	0.00989

TABLE 3.5-4

2011 SUMMARY DETAIL OF CONNECTICUT COMMERCIAL MARINE VESSEL SUMMER DAY EMISSIONS (Pounds)

County Designation and Name		SCC	Source Category	Emission Type Code Activity Description	Summer Day Criteria Pollutant Emissions in Pounds		
					VOC	NOX	CO
09001	Fairfield	2280002100	Diesel Port emissions	Maneuvering	18.55	810.90	164.83
09001	Fairfield	2280002200	Diesel Underway emissions	Cruise	25.39	1,109.94	225.62
			Diesel Emissions Fairfield Total		43.94	1,920.84	390.45
09001	Fairfield	2280003100	Residual Port emissions	Hoteling	48.06	1,482.52	125.65
09001	Fairfield	2280003100	Residual Port emissions	Maneuvering	2.91	89.64	7.60
09001	Fairfield	2280003200	Residual Underway emissions	Cruise	3.40	94.27	7.97
09001	Fairfield	2280003200	Residual Underway emissions	Reduced Speed Zone	0.75	20.85	1.76
			Residual Emissions Fairfield Total		55.12	1,687.28	142.98
09003	Hartford	2280002200	Diesel Underway emissions	Cruise	2.02	88.49	17.99
09005	Litchfield	N/A	N/A	N/A	0.00	0.00	0.00
09007	Middlesex	2280002200	Diesel Underway emissions	Cruise	0.55	23.99	4.88
09007	Middlesex	2280003200	Residual Underway emissions	Cruise	101.26	2,810.21	238.48
09009	New Haven	2280002100	Diesel Port emissions	Maneuvering	14.84	648.89	131.90
09009	New Haven	2280002200	Diesel Underway emissions	Cruise	4.19	183.15	37.23
			Diesel Emissions New Haven Total		19.03	832.04	169.13
09009	New Haven	2280003100	Residual Port emissions	Hoteling	51.03	1,550.16	132.90
09009	New Haven	2280003100	Residual Port emissions	Maneuvering	3.26	99.10	8.50
09009	New Haven	2280003200	Residual Underway emissions	Cruise	41.18	1,143.71	96.66

TABLE 3.5-4

2011 SUMMARY DETAIL OF CONNECTICUT COMMERCIAL MARINE VESSEL SUMMER DAY EMISSIONS (Pounds)

County Designation and Name		SCC	Source Category	Emission Type Code Activity Description	Summer Day Criteria Pollutant Emissions in Pounds		
					VOC	NOX	CO
09009	New Haven	2280003200	Residual Underway emissions	Reduced Speed Zone	0.41	11.48	0.97
			Residual Emissions New Haven Total		95.88	2,804.45	239.03
09011	New London	2280002100	Diesel Port emissions	Maneuvering	54.30	2,373.49	482.46
09011	New London	2280002200	Diesel Underway emissions	Cruise	41.04	1,793.99	364.67
			Diesel Emissions New London Total		95.34	4,167.49	847.13
09011	New London	2280003100	Residual Port emissions	Hoteling	0.00	0.00	0.00
09011	New London	2280003100	Residual Port emissions	Maneuvering	0.00	0.00	0.00
09011	New London	2280003200	Residual Underway emissions	Cruise	50.77	1,409.00	119.57
09011	New London	2280003200	Residual Underway emissions	Reduced Speed Zone	0.00	0.00	0.00
			Residual Emissions New London Total		50.77	1,409.00	119.57
09013	Tolland	N/A	N/A	N/A	0.00	0.00	0.00
09015	Windham	N/A	N/A	N/A	0.00	0.00	0.00
09000	State Total Commercial Marine Vessel Emissions				463.92	15,743.79	2,169.64

3.6 LOCOMOTIVES

Emissions calculations for the locomotives sector were estimated based on fuel use estimates presented in Appendix C Tables 7 and 8, emission factors presented in Appendix C Table 9 and a 0.41 growth ratio estimate calculated in Appendix C Table 10. This 2011 data reflects an economic downturn and the activity for the next inventory cycle is anticipated to be more than twice the 2011 activity for this sector.

Table 3.6-1 presents an estimate for annual VOC, NO_x, CO, PM10 primary, PM25 primary, ammonia, sulfur dioxide and lead emissions produced by locomotive activities for a typical ozone season day. Table 3.6-2 presents an estimate for the VOC, NO_x, and CO produced by locomotive activities for a typical ozone season day.

Connecticut had adopted EPA developed estimates for Class I, II and III line haul freight locomotives in the 2011 NEI, because we did not have resources to accommodate the new requirement to submit the data using EPA's shape files. The statewide total of Connecticut emissions calculated in this document are lower than 2011 NEI estimates, but provide a more uniform methodology for the sector and clearer distribution of emissions within the state. This includes non-zero Class I freight line haul locomotive emissions, freight locomotive emissions in Fairfield county supplemented EPA locomotive emission estimates by providing emission estimates for passenger trains, commuter lines and switchyard locomotives.

The locomotive write-up 2005 periodic emissions inventory is presented in Section 3.6 of Attachment 1. Select portions of the locomotive write-up for 2005 periodic emissions inventory have been updated for 2011 and are presented below:

Thirteen companies operated locomotives in 2011:

- Amtrak
- Branford Steam Railroad
- Central New England Railroad
- Connecticut Southern Railroad
- CSX Transportation, Inc.
- Housatonic Railroad Company
- Metro-North Commuter Railroad Company
- Naugatuck Railroad Company
- New England Central Railroad, Inc.
- Providence and Worcester Railroad Company
- Shoreline East Railway
- Springfield Terminal Railway Company (now called Pan Am Railway)
- Valley Railroad Company

CSX Transportation, Inc. is the only Class I company providing freight service within Connecticut.

Branford Steam Railroad, Central New England Railroad, Connecticut Southern Railroad, Housatonic Railroad Company, New England Central Railroad, Inc., Providence and Worcester Railroad Company, and Springfield Terminal Railway (aka Pan Am Railway) Company are Class II and III companies that provide freight service within Connecticut. Naugatuck Railroad Company and Valley Railroad Company are tourist attractions that were classified with the same designations as these Class II and III companies. These two tourist attractions only account for 0.4% of the locomotive diesel fuel usage and are not a significant influence in emissions or in the seasonal distribution of emissions.

Amtrak, Shoreline East Railway and the Metro-North Commuter Railroad Company provide commuter and passenger service for Connecticut. Amtrak Line Haul Locomotives are classified under SCC 22-85-002-008 “Line Haul Locomotives Passenger (Diesel)”, while Shoreline East Railway and the Metro-North Commuter Railroad Company are classified under 22-85-002-009 “Line Haul Locomotives Commuter Lines (Diesel)”. While Shoreline East Railway is a subsidiary of Amtrak, the Shoreline East Railway functions primarily as a commuter line.

Track mileage usage by diesel line haul locomotives used to distribute emissions remained the same as described and calculated in the 2005 periodic emissions inventory shown in attachment 1.

Each company that operates locomotives in Connecticut provided an estimate for the amount of fuel consumed in 2005 in the state. Amtrak, Branford Steam Railroad, Connecticut Southern Railroad, CSX Railroad, Metro-North Railroad, Springfield Terminal Railway (aka Pan Am Railway) Company and Valley Railroad were the only railroad companies that reported switchyard activity. Naugatuck Railroad Company data was not available at the time of this draft, so 2002 activity data was used calculate emissions. Total locomotive diesel fuel usage for 2005 was estimated at 4,878,977 gallons based on Connecticut DEP survey results. The [Energy Information Administration](#) (EIA) Fuel Oil and Kerosene Sales¹³ [Table 23](#) estimates total railroad distillate fuel use for transportation and heating at 3,715,000 gallons. This estimate was later increased to 4,274,000 gallons for 2005 railroad usage in the 2013. A ratio of the survey data used in the 2005 periodic emissions inventory analyses and 2011 U.S. Energy Information Administration data for all railroad activity was thought to provide a reasonable and consistent approach for estimating activity for the locomotive sector. The method is not perfect. Connecticut is a small state and out of state railroads could refuel outside of Connecticut (i.e. Providence and Worcester Railroad Company and Springfield Terminal Railway Company).

The Valley Railroad Company is the only locomotive company in Connecticut that reported using a coal fired locomotive. In 2005, Valley Railroad Company used 303 tons of Pocahontas brand anthracite coal, and 3,056 gallons of diesel fuel, all in Middlesex County. EPA has dropped coal SCCs from the inventory and no coal related locomotive emissions are included in this 2011 emissions inventory.

The amount of fuel consumed by line haul locomotives in each county annually was apportioned by track mileage by the following equation (see Tables 3.6-1 and 3.6-2 in Attachment 1):

$$Q = \frac{QCT \times TMZ}{TMCT}$$

Where:

- Q = amount of fuel consumed by line haul or switchyard locomotives by company in each county (gal)
- QCT = amount of fuel consumed by line haul or switchyard locomotives by company in Connecticut (gal)
- TMZ = miles of track used by each company in each county (miles)
- TMCT = miles of track used by each company in Connecticut (miles)

A sample calculation for the quantity of diesel fuel consumed for line haul use by Metro-North Railroad in New Haven County is:

$$Q = \frac{1,075,446 \times 27.06}{51.26}$$

$Q = 567,725$ gallons of diesel fuel consumed in New Haven County for Metro-North Railroad. This result can be seen in Appendix C Table 7.

The emission factors for both diesel-powered line haul locomotives and diesel-powered switchyard locomotives are presented in Appendix C Table 9. Railroad fuel use and sales data is presented in Appendix C Table 10 and a growth rate multiplier of 0.41 was calculated. This multiplier indicates that 2011 activity represents a 59% decreased when compared to 2005 activity. Appendix C Tables 7 provides 2005 line haul fuel allocated to the county level by source classification code and company. Appendix C Tables 8 provides 2005 switchyard fuel allocated to the county level by source classification code and company.

The equation used to calculate annual emissions for a source classification code and company this category is simplified by each company only aligning to a single line haul source classification code. The equation can be applied to line haul and switchyard locomotives and is as follows:

$$E_{isoc} = \frac{Q_{soc} \times EF_i \times My}{CF}$$

Where:

- E_{isoc} = county annual emissions for pollutant i from SCC s and company o locomotives in county c (Tons/Year)
- Q_{soc} = amount of fuel consumed in 2005 by SCC s and company o locomotives in county c (gallons). This is the same as Q in the earlier equation, but is further specified in further detail to emphasize that the fuel is for a specific SCC and company within a county.
- EF_i = emission factor for pollutant i (Pounds/thousand gallons)
- My = growth rate multiplier for projection year y, which equals 0.41 for 2011 (gallons-2011/gallons-2005)
- CF = units conversion factor addressing pounds per ton and gallons per thousand gallons (i.e. 1000 gallons per thousand gallon times 2000 pounds per ton or 2,000,000 gallon-pounds per thousand gallon - ton)

A sample calculation for the quantity of nitrogen oxide emissions generated from the diesel fuel consumed for line haul use by Amtrak in New Haven County in 2011 using the above equation is as follows:

$$E_{isoc} = \frac{416,283 \times 575.25 \times 0.41}{2,000,000}$$

$E_{isoc} = 50.8$ tons of nitrogen oxides per year for Amtrak line haul locomotives operating in New Haven County

Appendix C Table 6 presents 2011 data used to apportion NONROAD SCC emissions to a typical high ozone summer day emissions from annual emission estimates. Consistent with prior analyses, locomotives were assumed to operate 5 days per week 52 weeks of the year, with uniform activity throughout the year (i.e. typical summer and winter daily emissions are identical). The seasonal adjustment factor for uniform activity is 0.25 for all four seasons. The seasonal adjustments, average days of operation per week and weeks of summer operation and tonnage conversions were factored in the calculation as shown in the following equation:

$$E_{ij} = E_{aij} \times S_j \times 2000 / DAYS$$

Where:

- E_{is} = Total emissions of pollutant i, in pounds per day, produced by SCC s for all county or statewide emissions
- $E_{a_{is}}$ = Total annual emissions of pollutant i, in tons per year, produced by the SCC s for all county or statewide emissions.
- S_s = Summer season fraction for SCC s (The summer season fraction represents the fraction of total activity that occurred during the summer season for the specific source classification code (SCC s). Summer season fraction is equal to summer season percent divided by 100.
- 2000 = Conversion factor of pounds per ton
- DAYS = Days in Ozone season, which is equal to the average days of operation per week times weeks of summer operation, which equals 65 or 5 times 13 based on Appendix C Table 6 and the above description.

A sample calculation for nitrogen oxide emissions from Amtrak passenger trains (SCC 2285002008) in New Haven County can be shown using the applicable record in Table 3.6-1 and Appendix C Table 6 as follows:

$$E_{is} = 50.8 \times 25 / 100 \times 2000 / (5 \times 13)$$

$$E_{is} = 390.8 \frac{lbs. NOX}{day}$$

Calculated emissions are presented in Tables 3.6-1 and 3.6-2.

TABLE 3.6-1
2011 SUMMARY OF CONNECTICUT LOCOMOTIVE ANNUAL EMISSIONS (Tons per year)

County		SCC and Brief SCC Description		VOC	NOX	CO	PM10-PRI	PM25-PRI	NH3	SO2	Lead
09001	Fairfield	2285002006	Class I LH	0.66	17.87	1.76	0.44	0.40	0.01	0.10	0.00004
09001	Fairfield	2285002007	Class II / III LH	0.87	23.57	2.32	0.58	0.53	0.01	0.13	0.00005
09001	Fairfield	2285002008	Passenger LH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00000
09001	Fairfield	2285002009	Commuter LH	2.29	61.96	6.10	1.54	1.38	0.02	0.34	0.00014
09001	Fairfield	2285002010	Switchyard	1.06	18.19	1.91	0.46	0.41	0.00	0.07	0.00003
09001	Fairfield Locomotive Total			4.88	121.58	12.10	3.03	2.72	0.04	0.64	0.00026
09003	Hartford	2285002006	Class I LH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00000
09003	Hartford	2285002007	Class II / III LH	0.93	25.17	2.48	0.62	0.56	0.01	0.14	0.00005
09003	Hartford	2285002008	Passenger LH	1.64	44.27	4.36	1.10	0.99	0.01	0.24	0.00010
09003	Hartford	2285002009	Commuter LH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00000
09003	Hartford	2285002010	Switchyard	0.99	17.13	1.80	0.44	0.39	0.00	0.07	0.00003
09003	Hartford Locomotive Total			3.57	86.57	8.64	2.16	1.94	0.03	0.45	0.00018
09005	Litchfield	2285002006	Class I LH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00000
09005	Litchfield	2285002007	Class II / III LH	0.43	11.69	1.15	0.29	0.26	0.00	0.06	0.00003
09005	Litchfield	2285002008	Passenger LH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00000
09005	Litchfield	2285002009	Commuter LH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00000
09005	Litchfield	2285002010	Switchyard	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00000
09005	Litchfield Locomotive Total			0.43	11.69	1.15	0.29	0.26	0.00	0.06	0.00003
09007	Middlesex	2285002006	Class I LH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00000
09007	Middlesex	2285002007	Class II / III LH	0.15	4.09	0.40	0.10	0.09	0.00	0.02	0.00001
09007	Middlesex	2285002008	Passenger LH	0.56	15.15	1.49	0.38	0.34	0.00	0.08	0.00003
09007	Middlesex	2285002009	Commuter LH	1.14	30.78	3.03	0.76	0.69	0.01	0.17	0.00007
09007	Middlesex	2285002010	Switchyard	0.00	0.07	0.01	0.00	0.00	0.00	0.00	0.00000

TABLE 3.6-1
2011 SUMMARY OF CONNECTICUT LOCOMOTIVE ANNUAL EMISSIONS (Tons per year)

	County	SCC and Brief SCC Description		VOC	NOX	CO	PM10-PRI	PM25-PRI	NH3	SO2	Lead
09007	Middlesex Locomotive Total			1.86	50.08	4.93	1.24	1.12	0.02	0.27	0.00011
09009	New Haven	2285002006	Class I LH	0.50	13.61	1.34	0.34	0.30	0.00	0.07	0.00003
09009	New Haven	2285002007	Class II / III LH	1.03	27.80	2.74	0.69	0.62	0.01	0.15	0.00006
09009	New Haven	2285002008	Passenger LH	1.88	50.80	5.00	1.26	1.13	0.02	0.28	0.00011
09009	New Haven	2285002009	Commuter LH	5.05	136.37	13.44	3.38	3.05	0.04	0.75	0.00030
09009	New Haven	2285002010	Switchyard	1.12	19.23	2.02	0.49	0.44	0.00	0.08	0.00003
09009	New Haven Locomotive Total			9.58	247.82	24.54	6.16	5.54	0.07	1.33	0.00053
09011	New London	2285002006	Class I LH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00000
09011	New London	2285002007	Class II / III LH	0.93	25.21	2.48	0.63	0.56	0.01	0.14	0.00006
09011	New London	2285002008	Passenger LH	1.64	44.27	4.36	1.10	0.99	0.01	0.24	0.00010
09011	New London	2285002009	Commuter LH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00000
09011	New London	2285002010	Switchyard	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00000
09011	New London Locomotive Total			2.57	69.48	6.84	1.72	1.55	0.02	0.38	0.00015
09013	Tolland	2285002006	Class I LH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00000
09013	Tolland	2285002007	Class II / III LH	0.34	9.11	0.90	0.23	0.20	0.00	0.05	0.00002
09013	Tolland	2285002008	Passenger LH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00000
09013	Tolland	2285002009	Commuter LH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00000
09013	Tolland	2285002010	Switchyard	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00000
09013	Tolland Locomotive Total			0.34	9.11	0.90	0.23	0.20	0.00	0.05	0.00000
09015	Windham	2285002006	Class I LH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00000
09015	Windham	2285002007	Class II / III LH	0.48	12.92	1.27	0.32	0.29	0.00	0.07	0.00003
09015	Windham	2285002008	Passenger LH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00000

TABLE 3.6-1
2011 SUMMARY OF CONNECTICUT LOCOMOTIVE ANNUAL EMISSIONS (Tons per year)

County		SCC and Brief SCC Description		VOC	NOX	CO	PM10-PRI	PM25-PRI	NH3	SO2	Lead
09015	Windham	2285002009	Commuter LH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00000
09015	Windham	2285002010	Switchyard	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00000
09015	Windham Locomotive Total			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00000
09000	Statewide Locomotive Total			23.71	609.25	60.39	15.15	13.63	0.18	3.25	0.00130

TABLE 3.6-2

2011 SUMMARY OF CONNECTICUT LOCOMOTIVE SUMMER DAY EMISSIONS (Pounds per Day)

County		SCC and Brief SCC Description		VOC	NOX	CO
09001	Fairfield	2285002006	Class I LH	5.09	137.43	13.54
09001	Fairfield	2285002007	Class II / III LH	6.71	181.27	17.86
09001	Fairfield	2285002008	Passenger LH	0.00	0.00	0.00
09001	Fairfield	2285002009	Commuter LH	17.65	476.58	46.95
09001	Fairfield	2285002010	Switchyard	8.12	139.96	14.73
09001	Fairfield Locomotive Total			37.57	935.25	93.08
09003	Hartford	2285002006	Class I LH	0.00	0.00	0.00
09003	Hartford	2285002007	Class II / III LH	7.17	193.58	19.07
09003	Hartford	2285002008	Passenger LH	12.61	340.53	33.55
09003	Hartford	2285002009	Commuter LH	0.00	0.00	0.00
09003	Hartford	2285002010	Switchyard	7.65	131.80	13.87
09003	Hartford Locomotive Total			27.43	665.90	66.49
09005	Litchfield	2285002006	Class I LH	0.00	0.00	0.00
09005	Litchfield	2285002007	Class II / III LH	3.33	89.94	8.86
09005	Litchfield	2285002008	Passenger LH	0.00	0.00	0.00
09005	Litchfield	2285002009	Commuter LH	0.00	0.00	0.00
09005	Litchfield	2285002010	Switchyard	0.00	0.00	0.00
09005	Litchfield Locomotive Total			3.33	89.94	8.86
09007	Middlesex	2285002006	Class I LH	0.00	0.00	0.00
09007	Middlesex	2285002007	Class II / III LH	1.16	31.43	3.10
09007	Middlesex	2285002008	Passenger LH	4.32	116.52	11.48
09007	Middlesex	2285002009	Commuter LH	8.77	236.76	23.33
09007	Middlesex	2285002010	Switchyard	0.03	0.53	0.06
09007	Middlesex Locomotive Total			14.28	385.24	37.96
09009	New Haven	2285002006	Class I LH	3.88	104.71	10.32
09009	New Haven	2285002007	Class II / III LH	7.92	213.85	21.07
09009	New Haven	2285002008	Passenger LH	14.47	390.75	38.50
09009	New Haven	2285002009	Commuter LH	38.85	1,049.04	103.35
09009	New Haven	2285002010	Switchyard	8.58	147.95	15.57
09009	New Haven Locomotive Total			73.71	1,906.30	188.80

TABLE 3.6-2**2011 SUMMARY OF CONNECTICUT LOCOMOTIVE SUMMER DAY EMISSIONS (Pounds per Day)**

County		SCC and Brief SCC Description		VOC	NOX	CO
09011	New London	2285002006	Class I LH	0.00	0.00	0.00
09011	New London	2285002007	Class II / III LH	7.18	193.93	19.11
09011	New London	2285002008	Passenger LH	12.61	340.53	33.55
09011	New London	2285002009	Commuter LH	0.00	0.00	0.00
09011	New London	2285002010	Switchyard	0.00	0.00	0.00
09011	New London			19.79	534.45	52.65
09013	Tolland	2285002006	Class I LH	0.00	0.00	0.00
09013	Tolland	2285002007	Class II / III LH	2.60	70.07	6.90
09013	Tolland	2285002008	Passenger LH	0.00	0.00	0.00
09013	Tolland	2285002009	Commuter LH	0.00	0.00	0.00
09013	Tolland	2285002010	Switchyard	0.00	0.00	0.00
09013	Tolland Locomotive Total			2.60	70.07	6.90
09015	Windham	2285002006	Class I LH	0.00	0.00	0.00
09015	Windham	2285002007	Class II / III LH	3.68	99.37	9.79
09015	Windham	2285002008	Passenger LH	0.00	0.00	0.00
09015	Windham	2285002009	Commuter LH	0.00	0.00	0.00
09015	Windham	2285002010	Switchyard	0.00	0.00	0.00
09015	Windham Locomotive Total			3.68	99.37	9.79
09000	Statewide Locomotive Total			182.39	4,686.53	464.54

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SECTION 4 AREA SOURCES

4.1 INTRODUCTION

The Area Source Inventory estimates the emissions for those sources that are too small to be handled individually in the point source inventory, (e.g., residential heating units), but are numerous enough to impact air quality.. The area source emissions are calculated for two periods of time: annual and typical high ozone summer day. Table 4.1-1 and 4.1-2 presents the annual emissions expressed in tons per year (TPY) and typical high ozone summer day expressed in pounds per day, respectively, for all area sources by county. Table 1 in Appendix D presents annual emissions (TPY) by County, Sector and Source Classification Code (SCC). Table 2 in Appendix D presents the data used to apportion annual emissions to typical high ozone summer day emissions. Table 3 in Appendix D lists the CO, VOC, and NO_x emissions for a typical high ozone summer day expressed in pounds per day (Lbs/day) by County, Sector and Source Classification Code (SCC).

Connecticut has adopted EPA's area source emissions estimates for Connecticut contained in version 2 of EPA's 2011 National Emission Inventory (NEI). All of the area source emissions data were extracted from EPA's Emission Inventory System (EIS) except for event type source categories. For event type source categories (prescribed burning and wildfires) emissions were taken from the csv file named "2011neiv2_eventfires_countyscc.csv". This csv file can be found on EPA's 2011 NEI webpage (<http://www.epa.gov/ttn/chief/net/2011inventory.html>). This file was used because the emission estimates for events in EIS were either missing or zero for Connecticut.

As part of the process of developing EPA's 2011 area source inventory, Connecticut reviewed and made corrections or enhancements where it was appropriate. Most area source categories were accepted as is. Reviews of source categories and the logic used to accept or recommend changes are documented below. Connecticut primarily reviewed source categories that were either impacted by Connecticut specific regulations or the source category had point source emissions that needed to be accounted for in the area source estimate to avoid double counting.

Table 4.1-1 County Annual Emissions for Area Sources Only
Emissions are expressed in Tons per Year

County	VOC	NOX	CO	PM10-PRI	PM25-PRI	NH3	SO2	Lead
Fairfield	10,331.4	3,186.9	13,802.4	7,083.7	3,157.0	347.8	3,254.0	0.1
Hartford	9,739.6	3,375.1	10,372.7	7,142.3	2,794.1	471.3	3,042.8	0.1
Litchfield	2,431.8	653.0	4,325.9	3,705.0	1,212.8	448.6	866.8	0.0
Middlesex	1,910.5	581.4	2,398.3	2,105.4	728.7	102.9	762.3	0.0
New Haven	9,457.8	2,922.1	13,386.2	5,772.0	2,779.7	401.7	3,068.1	0.1
New London	3,895.4	964.8	4,875.7	3,890.3	1,362.1	937.1	1,247.4	0.0
Tolland	1,539.8	434.1	2,229.4	2,526.9	755.3	378.5	634.5	0.0
Windham	1,381.4	394.4	2,665.1	2,480.2	800.2	505.9	529.9	0.0
State	40,687.6	12,511.8	54,055.6	34,706.0	13,590.0	3,593.7	13,405.8	0.4

Table 4.1-2 County Annual Emissions for Area Sources Only
Emissions are expressed in Pounds per Day

County	VOC	NOX	CO
Fairfield	50,664.5	6,637.9	4,440.4
Hartford	52,015.9	7,390.4	5,619.8
Litchfield	11,051.2	1,311.4	3,135.1
Middlesex	9,900.1	1,222.7	1,956.0
New Haven	44,866.5	5,875.5	3,922.1
New London	20,339.7	2,008.1	3,030.3
Tolland	7,597.5	837.1	2,141.9
Windham	6,022.5	811.6	2,023.1
State	202,458.0	26,094.6	26,268.7

4.2 RESIDENTIAL FOSSIL FUEL COMBUSTION

4.2.1— DISTILLATE OIL

SCC	Descriptor 1	Descriptor 3	Descriptor 6	Descriptor 8
2104004000	Stationary Source Fuel Combustion	Residential	Distillate Oil	Total Boilers and IC Engines

Result:

Accepted EPA estimates.

Review

EPA activity citation

U.S. Department of Energy, Energy Information Administration (EIA). State Energy Data **2009** Consumption. Washington, DC 2012. Internet Address: accessed February 2012.

http://www.eia.doe.gov/emeu/states/sep_use/total/csv/use_all_phy.csv

The EIA SEDS (State Energy Data System) EIA Table CT4

Residential Sector Energy Consumption Estimates, Selected Years, 1960-2010, Connecticut accessed via the hyperlink above contains Distillate Fuel Oil consumption estimates for CT.

Fuel Type	Year	EIA Table CT4	EIA Petroleum and Other Liquids, CT**
Distillate Oil, 1000 Gallons per Year	2009	535,080	543,653
Distillate Oil, 1000 Barrels per Year	2009	12,740	12,942
Distillate Oil, 1000 Gallons per Year	2010	492,660	457,371
Distillate Oil, 1000 Barrels per Year	2010	11,730	10,890

** http://www.eia.gov/dnav/pet/pet_cons_82lusea_dcu_sct_a.htm

1 Barrel = 42 Gallons

EPA Allocation Citation

U.S. Census Bureau. "Table H40. House Heating Fuel Type", Census 2000: Summary File 3. Internet address:

http://factfinder.census.gov/servlet/DatasetMainPageServlet?_program=DEC&_submenuId=&_lang=en&_ts=, accessed July 2009.

EPA Emission Factor Citation

U.S. Environmental Protection Agency. Compilation of Air Pollutant Emission Factors, 5th Edition, AP-42, Volume I: Stationary Point and Area Sources. Research Triangle Park, North Carolina. 1996.

EPA used the 2000 Census even though the 2010 Census is available. Review and comparison of the 2000 Census to the 2010 Census indicates the population distribution did not change appreciably between the two Census years. Use of the 2000 Census is acceptable for purposes of allocating activity for the 2011 NEI.

Distillate Oil and Kerosene

County	2000 Census, County Allocation	2010 Census, County Allocation	2000 to 2010 Census, Percent Change
Fairfield	23.9%	23.1%	-3.4%
Hartford	21.5%	21.3%	-1.0%
Litchfield	6.8%	7.5%	10.7%
Middlesex	5.9%	6.3%	6.8%
New Haven	23.0%	22.0%	-4.3%
New London	9.6%	10.0%	4.3%
Tolland	5.1%	5.4%	5.6%
Windham	4.2%	4.3%	4.2%

Sulfur Content

EPA assumed the distillate oil consumed by residential combustion to be No. 2 fuel oil with a heating value of 140,000 Btu per gallon and a sulfur content of 0.30% (3,000 ppm). Distillate Oil 0.30% Sulfur content is consistent with past EPA practice. The Pechan report for the 2002 NEI entitled, “DOCUMENTATION FOR THE DRAFT 2002 NONPOINT SOURCE NATIONAL EMISSION INVENTORY FOR CRITERIA AND HAZARDOUS AIR POLLUTANTS (MARCH 2005 VERSION)” references the same report as the EPA Draft 2011 NEI documentation (residential_distillate_fuel_2104004000_documentation_2011.doc) for the percent Sulfur in fuel. The link provided in the reference list no longer points to a copy of the original 1999 report. The reference copied from ‘residential_distillate_fuel_2104004000_documentation_2011.doc’ below is identical to the reference in the Pechan 2002 NEI report.

U.S. Environmental Protection Agency. Emission Factor and Inventory Group. Final Summary of the Development and Results of a Methodology for Calculating Area Source Emissions from Residential Fuel Combustion. Prepared by Pacific Environmental Services, Inc. Research Triangle Park, NC. September 2002. Internet address: http://www.epa.gov/ttn/chief/eiip/techreport/volume03/draft1999_residfuel_inven_apr2003.zip accessed November 2004.

MACTEC references a Federal Energy Regulatory Commission (FERC-423) database in a report entitled, “A National Methodology and Emission Inventory for Residential Fuel”. The FERC database contains analyses that indicate the national distillate fuel oil sulfur content to be 0.24%. The MACTEC report indicates that EPA elected to utilize 0.30% Sulfur as a conservative estimate of the national average Sulfur content.

NESCAUM, under contract to New York State Energy Research and Development Authority (NYSERDA) surveyed Home Heating Diesel for Sulfur content. The survey analyzed 102 samples and determined the average sulfur concentration to be 0.20% (1998 ppm). The maximum concentration was

2899 ppm and the minimum was 807 ppm. The average and the median were similar in value indicating that the population is close to a normal distribution.

The FERC-423 database and the NESCAUM analysis indicate the distillate home heating fuel oil supplied to Connecticut is less than 0.30% and could on average be as low as 0.20%. Connecticut adopted EPA's SO₂ estimates based on 0.30% sulfur content for this source category without adjustment.

4.2.2 KEROSENE

SCC	Descriptor 1	Descriptor 3	Descriptor 6	Descriptor 8
2104011000	Stationary Source Fuel Combustion	Residential	Kerosene	Total: All Combustor Types

Result

Accepted EPA estimates.

EPA activity citation

U.S. Department of Energy, Energy Information Administration (EIA). State Energy Data 2009 Consumption. Washington, DC 2012. Internet address: http://www.eia.doe.gov/emeu/states/sep_use/total/csv/use_all_phy.csv, accessed February 2012.

Fuel Type	Year	EIA Table CT4	EIA Petroleum and Other Liquids, CT**
Kerosene, 1000 Gallons per Year	2009	1932	1949
Kerosene, 1000 Barrels per Year	2009	46	46.4
Kerosene, 1000 Gallons per Year	2010	1806	1795
Kerosene, 1000 Barrels per Year	2010	43	43.7

** http://www.eia.gov/dnav/pet/pet_cons_821usea_dcu_SCT_a.htm

1 Barrel = 42 Gallons

EPA Allocation Citation

U.S. Census Bureau. "Table H40. House Heating Fuel Type", Census 2000: Summary File 3. Internet address: http://factfinder.census.gov/servlet/DatasetMainPageServlet?_program=DEC&_submenuId=&_lang=en&_ts=, accessed July 2009.

EPA is using the 2000 Census and the 2010 Census is available. Review and comparison of the 2000 Census to the 2010 Census indicates the population distribution did not change appreciably between the two Census years. Use of the 2000 Census is acceptable for purposes of allocating activity for the 2011 NEI.

Distillate Oil and Kerosene

County	2000 Census, County Allocation	2010 Census, County Allocation	2000 to 2010 Census, Percent Change
Fairfield	23.9%	23.1%	-3.4%
Hartford	21.5%	21.3%	-1.0%
Litchfield	6.8%	7.5%	10.7%

Middlesex	5.9%	6.3%	6.8%
New Haven	23.0%	22.0%	-4.3%
New London	9.6%	10.0%	4.3%
Tolland	5.1%	5.4%	5.6%
Windham	4.2%	4.3%	4.2%

4.2.3 FOSSIL FUEL COMBUSTION – RESIDENTIAL – NATURAL GAS

SCC	Descriptor 1	Descriptor 3	Descriptor 6	Descriptor 8
2104006000	Stationary Source Fuel Combustion	Residential	Natural Gas	Total: Boilers and IC Engines

Result

Accepted EPA estimates.

EPA activity citation

U.S. Department of Energy, Energy Information Administration (EIA). State Energy Data 2009 Consumption. Washington, DC 2012. Internet address: http://www.eia.doe.gov/emeu/states/sep_use/total/csv/use_all_phy.csv, accessed February 2012.

Fuel Type	Year	EIA Table C5	EIA Natural Gas Consumption, CT
Natural Gas, Million BTU per Year	2009		43,995
Natural Gas, Million BTU per Year	2010	43,800	42,729

EPA Allocation Citation

U.S. Census Bureau. "Table H40. House Heating Fuel Type", Census 2000: Summary File 3. Internet address: http://factfinder.census.gov/servlet/DatasetMainPageServlet?_program=DEC&_submenuId=&_lang=en&_ts=, accessed July 2009.

EPA is using the 2000 Census and the 2010 Census is available. Review and comparison of the 2000 Census to the 2010 Census indicates the population distribution did not change appreciably between the two Census years. Use of the 2000 Census is acceptable for purposes of allocating activity for the 2011 NEI.

Natural Gas			
County	2000 Census, County Allocation	2010 Census, County Allocation	2000 to 2010 Census, Percent Change
Fairfield	27.8%	27.2%	-2.1%
Hartford	36.0%	36.1%	0.3%
Litchfield	2.4%	2.0%	-13.3%
Middlesex	1.6%	1.9%	18.5%
New Haven	27.5%	27.7%	0.8%
New London	2.8%	2.8%	2.2%
Tolland	1.0%	1.4%	45.4%
Windham	1.0%	0.8%	-25.1%

4.2.4 LIQUIFIED PETROLEUM GAS (LPG)

SCC	Descriptor 1	Descriptor 3	Descriptor 6	Descriptor 8
2104007000	Stationary Source Fuel Combustion	Residential	Liquefied Petroleum Gas (LPG)	Total: All Combustion Types

Result

Accepted EPA estimates.

EPA activity citation

U.S. Department of Energy, Energy Information Administration (EIA). State Energy Data 2009 Consumption. Washington, DC 2012. Internet address: http://www.eia.doe.gov/emeu/states/sep_use/total/csv/use_all_phy.csv, accessed February 2012.

Fuel Type	Year	EIA Table C5	EIA LPG, CT**
LPG, Million BTU per Year	2009		5,738,167
LPG, Million BTU per Year	2010	5,800,000	

**EIA report not located on website when review was done. Data presented was calculated by converting 1,636.20 E3BBL from the EPA calculation spreadsheet and converting to MM BTU with the LPG Lower Heating Value (LHV) of 3.507 MM BTU per Barrel. [1,636.20 * 3.507 = 5,738,167]

EPA Allocation Citation

U.S. Census Bureau. "Table H40. House Heating Fuel Type", Census 2000: Summary File 3. Internet address:

http://factfinder.census.gov/servlet/DatasetMainPageServlet?_program=DEC&_submenuId=&_lang=en&_ts=, accessed July 2009.

EPA is using the 2000 Census but the 2010 Census is available. Review and comparison of the 2000 Census to the 2010 Census indicates the population distribution did not change appreciably between the two Census years. Use of the 2000 Census is acceptable for purposes of allocating activity for the 2011 NEI

Liquid Petroleum Gas			
County	2000 Census, County Allocation	2010 Census, County Allocation	2000 to 2010 Census, Percent Change
Fairfield	21.7%	15.9%	-26.6%
Hartford	24.2%	22.8%	-5.6%
Litchfield	6.1%	8.9%	46.1%
Middlesex	6.2%	8.1%	29.9%
New Haven	20.7%	18.1%	-12.7%
New London	10.7%	12.8%	19.6%
Tolland	5.0%	7.6%	52.5%
Windham	5.3%	5.7%	6.2%

4.2.5 COAL

SCC	Descriptor 1	Descriptor 3	Descriptor 6	Descriptor 8
2104001000	Stationary Source Fuel Combustion	Residential	Anthracite Coal	All Boiler Types
2104002000	Stationary Source Fuel Combustion	Residential	Bituminous/ Subbituminous Coal	All Boiler Types

Result

Accepted EPA estimates.

Coal is not utilized for residential heat in Connecticut. EPA activity estimate is zero for Connecticut.

4.3 ASPHALT PAVING – CUTBACK AND EMULSIFIED

SCC	SCC Level 1	SCC Level 2	SCC Level 3	SCC Level 4
2461021000	Solvent Utilization	Miscellaneous Non-industrial: Commercial	Cutback Asphalt	Total: All Solvent Types

SCC	SCC Level 1	SCC Level 2	SCC Level 3	SCC Level 4
2461022000	Solvent Utilization	Miscellaneous Non-industrial: Commercial	Emulsified Asphalt	Total: All Solvent Types

Result

Accepted EPA estimates.

EPA activity citation

1. Asphalt Institute, *2008 Asphalt Usage Survey for the United States and Canada*, <http://www.asphaltinstitute.org/>.

EPA estimates the annual emissions in Connecticut from cutback and emulsified asphalt to be zero. Connecticut agrees with these estimates because Connecticut effectively prohibits the usage of cutback and emulsified asphalt containing greater than 0.1% VOC during the period of May 1st through September 30th (R.C.S.A. 22a-174-20(k)). This regulation became effective

Prior to the implementation of this regulation practically all of the cutback and emulsified asphalt activity in Connecticut occurred in these months. As a result of this regulation it is believed that little or no cutback and emulsified asphalt is used in Connecticut.

4.4 AVIATION GASOLINE DISTRIBUTION - STAGE I AND STAGE II

STAGE I

SCC	SCC Level 1	SCC Level 2	SCC Level 3	SCC Level 4
2501080050	Storage and Transport	Petroleum and Petroleum Product Storage	Airports : Aviation Gasoline	Stage 1: Total

STAGE II

SCC	SCC Level 1	SCC Level 2	SCC Level 3	SCC Level 4
2501080050	Storage and Transport	Petroleum and Petroleum Product Storage	Airports : Aviation Gasoline	Stage 1: Total

Result

Accepted EPA estimates.

Review verified VOC emission factors were consistent with CT 2005 PEI documentation. Verified Aviation Gasoline consumption estimates were consistent with EIA Connecticut Aviation Gasoline consumption data via the calculation below.

data source	value #	data type	value	units
EIA Prime Supplier Sales Volume	1	2010 CT aviation gasoline	2.3	thousand gallons per day
EIA Prime Supplier Sales Volume	2	2010 CT aviation gasoline	839,500	gallons per year
EPA 2011 NEI documentation	3	US 2008 Aviation Gasoline	5,603,000	barrels per year
EPA 2011 NEI documentation	4	US 2008 Aviation Gasoline	235,326,000	gallons per year
EPA 2011 NEI documentation	5	PAD-1 Aviation Gasoline	18.54%	Percent Consumption
calculated field [value # (4 * 5)]	6	PAD-1 2008 Aviation Gasoline	43,629,440	gallons per year
EPA 2011 NEI documentation	7	CT Fraction 2008 LTO's	0.02177	Percent LTO's
calculated field [value # (6 * 7)]	8	Estimate CT Aviation Gasoline	949,813	gallons per year

4.5 OPEN BURNING -

4.5.1 YARD WASTE - LEAF AND BRUSH SPECIES

SCC	SCC Level 1	SCC Level 2	SCC Level 3	SCC Level 4
2610000100	Waste Disposal, Treatment, and Recovery	Open Burning	All Categories	Yard Waste – Leaf Species Unspecified
2610000400	Waste Disposal, Treatment, and Recovery	Open Burning	All Categories	Yard Waste – Brush Species Unspecified

Result

Accepted EPA’s estimates for the open burning of brush and Updated EIS (county level emissions presented above) to reflect zero activity and zero emissions in Connecticut for the open burning of leaves.

Connecticut regulates open burning under R.C.S.A. 22a-174-f (Powers of Commissioner), which requires permits for open burning to be issued prior to open burning activities in Connecticut. Connecticut regulations forbid the burning of leaves. Connecticut does allow the burning of small brush. For these reasons Connecticut set the emissions from the burning of leaves to zero and accepted EPA’s estimates for the burning of brush.

EPA county level emission estimates for Brush emissions are presented below.

Connecticut Yard Waste Brush Emissions						
County Name	CO, TPY	NOX, TPY	PM10-PRI, TPY	PM25-FIL, TPY	SO2, TPY	VOC, TPY
Fairfield	0.0	0.0	0.0	0.0	0.0	0.0
Hartford	0.0	0.0	0.0	0.0	0.0	0.0
Litchfield	25.0	0.9	3.5	2.7	0.3	3.4
Middlesex	12.9	0.5	1.8	1.4	0.2	1.8
New Haven	0.0	0.0	0.0	0.0	0.0	0.0
New London	22.5	0.8	3.2	2.4	0.3	3.1
Tolland	18.6	0.7	2.6	2.0	0.2	2.5
Windham	18.7	0.7	2.6	2.0	0.2	2.5
Statewide	97.8	3.5	13.8	10.6	1.2	13.3

4.5.2 OPEN BURNING - LAND CLEARING DEBRIS

SCC	SCC Level 1	SCC Level 2	SCC Level 3	SCC Level 4
2610000500	Waste Disposal, Treatment, and Recovery	Open Burning	All Categories	Land Clearing Debris (use 28-10-005-000 for Logging Debris Burning)

Result

Updated EIS (county level emissions presented above) to reflect zero activity and zero emissions in Connecticut.

Connecticut regulates open burning under R.C.S.A. 22a-174-f (Powers of Commissioner), which requires permits for open burning to be issued prior to open burning activities in Connecticut.

Section f does not allow open burning to clear land of debris for the activities listed in EPA documentation, “Open burning of land clearing debris is the purposeful burning of debris, such as trees, shrubs, and brush, from the clearing of land for the construction of new buildings and highways”

(open_burning_land_clearing_debris_2610000500_documentation_2011.doc).

4.5.3 OPEN BURNING - RESIDENTIAL HOUSEHOLD WASTE

a. Source Category Description

Open burning of residential municipal solid waste (MSW) is the purposeful burning of MSW in outdoor areas. Criteria air pollutant (CAP) and hazardous air pollutant (HAP) emission estimates for MSW burning are a function of the amount of waste burned per year.

For this source category, the following SCC was assigned:

SCC	SCC Level 1	SCC Level 2	SCC Level 3	SCC Level 4
2610030000	Waste Disposal, Treatment, and Recovery	Open Burning	Residential	Household Waste (use 26-10-000-xxx for Yard Wastes)

Result

Updated EIS (county level emissions presented above) to reflect zero activity and zero emissions in Connecticut.

Connecticut regulates open burning under R.C.S.A. 22a-174-f (Powers of Commissioner), which requires permits to be issued prior to open burning activities in Connecticut.

Section f does not allow for open burning of Municipal Solid Waste (MSW).

4.6 CONSTRUCTION

4.6.1 NON-RESIDENTIAL CONSTRUCTION

Source Classification Code	SCC Level One	SCC Level Two	SCC Level Three	SCC Level Four
2311020000	Industrial Processes	Construction: SIC 15 - 17	Heavy Construction	Total

Result

Accepted EPA estimates.

EPA activity citation:

1. Annual Value of Construction Put in Place: <http://www.census.gov/const/C30/priv2011.pdf>
2. County Business Patterns: <http://www.census.gov/econ/cbp/index.html>
3. Bureau of Labor Statistics: <http://data.bls.gov/pdq/SurveyOutputServlet> Table BMNR

EPA Emission Factor citation:

1. Midwest Research Institute. Improvement of Specific Emission Factors (BACM Project No. 1). Prepared for South Coast Air Quality Management District. March 29, 1996.

Labor data utilized for allocation of emissions to county level were verified against employment data obtained from Dana Plazek at CT Dept. of Labor (BLS EMP-2011 in table below). EPA utilized employment survey data (EPA Data in table below) which accounts for the absolute number of employees in NAICS code 2362 not matching exactly between the two data sets. However, the percent allocated to each county does not vary considerably between the two data sets.

Employment Data

Non-Residential Construction

NAICS

2362

County	EPA Data	BLS Emp - 2011	EPA %	BLS %
Fairfield	1016	782	19%	17%
Hartford	1517	1109	29%	24%
Litchfield	302	375	6%	8%
Middlesex	199	116	4%	3%
New Haven	1326	1328	25%	29%
New London	586	589	11%	13%

Tolland	179	195	3%	4%
Windham	91	75	2%	2%
Statewide	5216	4569	1	1

A portion of the Construction Put in Place data was verified to match citation data.

Verified EPA emission factor was pulled correctly from citation.

4.6.2 RESIDENTIAL CONSTRUCTION

Source Classification Code	SCC Level One	SCC Level Two	SCC Level Three	SCC Level Four
2311010000	Industrial Processes	Construction: SIC 15 - 17	General Building Construction	Total

Result

Accepted EPA estimates.

EPA activity citation:

1. New Privately Owned Housing Units Started for 2010 (Not seasonally adjusted), available at: <http://www.census.gov/const/startsuu.pdf>
2. Table 2au. New Privately Owned Housing Units Authorized - Unadjusted Units for Regions, Divisions, and States, Annual 2010, available at: <http://www.census.gov/const/C40/Table2/tb2u2010.txt>
3. Annual Housing Units Authorized by Building Permits CO2010A, purchased from US Department of Census

EPA Emission Factor citation:

2. Midwest Research Institute. Improvement of Specific Emission Factors (BACM Project No. 1). Prepared for South Coast Air Quality Management District. March 29, 1996.

A portion of the Housing Units data was verified to match citation data.

Verified EPA emission factor was pulled correctly from citation.

4.6.3 ROAD CONSTRUCTION

Source Classification Code	SCC Level One	SCC Level Two	SCC Level Three	SCC Level Four
2311030000	Industrial Processes	Construction: SIC 15 - 17	Road Construction	Total

Result

Accepted EPA estimates.

EPA activity citation:

1. 2008 Highway Spending : <http://www.fhwa.dot.gov/policyinformation/statistics/2008/sf12a.cfm>
2. 2008 Building Permits data from US Census “BPS01”, <http://www.census.gov/support/USACdataDownloads.html>

EPA Emission Factor citation:

3. Midwest Research Institute. Improvement of Specific Emission Factors (BACM Project No. 1). Prepared for South Coast Air Quality Management District. March 29, 1996.

Verified State Highway Agency Capital Outlay data.

Verified EPA emission factor pulled correctly from citation.

4.7 Mining and Quarrying (SCC = 2325000000)

Source Classification Code	SCC Level One	SCC Level Two	SCC Level Three	SCC Level Four
2325000000	Industrial Processes	Mining and Quarrying: SIC 14	All Processes	Total

Result

Accepted EPA estimates.

EPA activity citation:

United States Geologic Survey, “Minerals Yearbook 2009”,

<http://minerals.usgs.gov/minerals/pubs/commodity/m&q/index.html#myb> (accessed April 2012).

The Mineral Yearbook 2009 ([myb1-2009-mquar.xls](#)) was downloaded and reviewed for Connecticut activity. The data utilized to calculate emissions in the EPA EIS spreadsheets closely matches the data downloaded from the USGS Mineral Yearbook 2009.

State	Metal Production (thousand metric tons)	Mineral Production (thousand metric tons)	EPA EIS - Total Mineral Production	USGS - Mineral Yearbook 2009
Connecticut	5,362	8,399	13,761	13,600

4.8 PUBLICLY OWNED TREATMENT WORKS (POTWS)

SCC: 2630020000

Result

Accepted EPA estimates with modifications to subtract out emissions already accounted for in the point source section. Point source subtraction completed and revised area source sector emissions were uploaded to EIS.

EPA Activity Data

1. U.S. Environmental Protection Agency, “Wastewater Flow Projections for POTWs and Privately and Federally Owned Treatment Works in 2000, 2005, and 2010,” Table A-8 in *Biosolids Generation, Use, and Disposal in the United States*, EPA530-R-99-009, September 1999.
2. U.S. Environmental Protection Agency, Clean Watersheds Needs Survey, Ask WATERS Online Database Query Tool, at

http://iaspub.epa.gov/waters10/query_tool.criteria?srept_no=165&branding=15, accessed 19 May 2009.

Point Source Subtraction

EPA directed states to specific SCCs to review for point source subtraction (SCCs 50100701 through 50100781 and 50100791 through 50182599). A search of EMIT was conducted for the SCCs listed above for the 2008 reporting period and five sources were identified (see table below).

SiteName	CountyName	FuncCode	RegNumbe	SCC
M D C /HARTFORD WPCF	HARTFORD	E	2	50100701
M D C /HARTFORD WPCF	HARTFORD	E	3	50100701
MANCHESTER /SANITATION DIV	HARTFORD	E	9	50100701
KIMBERLY-CLARK CORP	LITCHFIELD	E	14	50100701
KIMBERLY-CLARK CORP	LITCHFIELD	E	13	50100701

The Annual Weight Rate of each source was summed to the County level for the purposed of subtracting point source activity form the area source activity. The Annual Weigh Rate **subtracted** for Hartford and Litchfield Counties is provided in the table below.

2011 POTW Point Source Subtraction	AnnualWeightRate	UnitofMeasureCode	MaterialCode	SCC
Hartford	27,063	E6GAL	Water	50100701
Litchfield	2,188	E6GAL	Water	50100701

4.9 AGRICULTURAL FIRES

Result

Accepted EPA estimates.

Connecticut 2005 PEI Section 4.6.3 Agricultural Burning copied below

According to the Connecticut Department of Agriculture, the activity as described in the EPA Procedures document does not occur in Connecticut. If agricultural burning did occur in Connecticut, farmers would be required by the DEP to obtain an open burning permit. The emissions from any agricultural burning would be accounted for in the open burning section.

EPA 2011 NEI estimates 73 acres burned in Connecticut for agricultural purposes with resulting emissions of 0.43 Tons NO_x, 1.22 Tons PM_{2.5}, 2.6 Tons PM₁₀ and 0.71 Tons VOC.

The low quantity of emissions attributed to agricultural burning does not support assignment of resources to produce Connecticut inventory estimates.

4.10 FUGITIVE DUST FROM PAVED ROADS

SCC	SCC Level 1	SCC Level 2	SCC Level 3	SCC Level 4
2294000000	Mobile Sources	Paved Roads	All Paved Roads	Total: Fugitives

Result

Accepted EPA estimates.

EPA Activity Data

2. U.S. Department of Transportation, Federal Highway Administration. *Highway Statistics 2010*. Office of Highway Policy Information. Washington, DC. 2011. Available at <http://www.fhwa.dot.gov/policyinformation/statistics/2010/>.

EPA Emission Factor Data

3. United States Environmental Protection Agency, Office of Air Quality Planning and Standards. "Compilation of Air Pollutant Emission Factors, AP-42, Fifth Edition, Volume I: Stationary Point and Area Sources, Section 13.2.1, Paved Roads." Research Triangle Park, NC. January 2011.

4.11 Surface Coating – Aircraft

Source Classification Code	SCC Level One	SCC Level Two	SCC Level Three	SCC Level Four
2401075000	Surface Coating	Aircraft		

Result

Accepted EPA estimates with modifications to subtract out emissions already accounted for in the point source section. Point source subtraction completed and revised area source sector emissions were uploaded to EIS.

EPA emission estimates for the Surface Coating – Aircraft sector utilize an emission factor based upon the number of employees. Connecticut does not have employment data available for businesses active in the Surface Coating – Aircraft sector in the point source inventory. Two point source SCCs, 40202449 and 40202401, were identified in the Connecticut 2011 Point Source Inventory and source level VOC emissions were summed up to the County level. The County level Tons of VOC emissions were divided by the 12.98 pounds VOC per employee emission factor to calculate the number of employees in each county to be subtracted from EPA activity estimates to account for point source subtraction (see ‘PSS Adjusted # of Employees’ column below). The employment data in the EPA spreadsheet, ‘surface_coating_aircraft_mfg_2401075000_emissions_2011_draft_voc_only.xlsx’, was updated with the point source subtraction adjusted number of employees calculated below. The EPA spreadsheet then re-calculated County level emissions based upon the adjusted level of employment. The point source subtracted County level emissions were uploaded to EIS.

AreaSCC	CountyName	Point Emissions, Tons	Point Emissions, lbs	EF, lbs per Employee	PointSourceSubtract, # of employess	EPA # of Employees	PSS Adjusted # of Employees
2401075000	FAIRFIELD	8.75	17,500	12.98	1,348	13,174	11,826
2401075000	HARTFORD	0.85	1,700	12.98	131	11,849	11,718
2401075000	MIDDLESEX	0.25	500	12.98	39	1,317	1,279

4.12 Vehicle Fueling

Table 4.12-1 contains the VOC annual and typical ozone season day emissions from stage 2 gasoline vehicle fueling (SCC 2501060100 NEIv1; SCC 2201000062 NEIv2) and stage 2 diesel vehicle fueling (SCC 2501070100 NEIv1; SCC 2202000062 NEIv2) after applying point source subtraction. Only gasoline summer day refueling emissions were obtained from Connecticut's MOVES2010b Model run with point source subtraction applied, as the annual diesel refueling emission estimates provided by EPA were thought to be adequate. The gasoline annual and summer day refueling emissions were obtained directly from the EPA's MOVES2010b Model using a refueling vapor program adjustment of 0.80 and a refueling spill program adjustment of 0.50 together with other MOVES inputs described in section 3. The impact of controls for refueling losses are affected by a combination of the efficiency of the control technology, the coverage of the program (including the impact of exemptions) and the state of repair of the equipment, which is affected by the frequency of formal inspections.¹ The MOVES model includes default county-level Stage II control efficiencies that were used in EPA's emission estimates, but the default data has too high an efficiency and is not accurate for Connecticut.

Historically, Connecticut used 86% control efficiency for refueling vapor program adjustment for a Stage II controlled emission factor estimate and 0% control efficiency for refueling vapor program adjustment for a Stage II non-controlled emission factor estimate. The EPA recommends that the MOVES model estimate emissions directly, which requires a single control efficiency for refueling vapor program adjustment and a single control efficiency for refueling spill program adjustment. The 86% refueling vapor program adjustment efficiency value corresponds to an annual inspection frequency without consideration for gasoline sales from stations that are exempt from stage II control requirements.² This is illustrated in Figure 4-15 of Reference 2, entitled "Relationship of Inspection Frequency to Program In-Use Efficiency with Exemptions". Table 4.2.2-1 of Attachment 1 provides gasoline fuel sales data which indicates that 93% of fuel sold in Connecticut are sold at stations that are equipped with stage II controls. Applying an 86% refueling vapor program adjustment efficiency to 93% of gasoline sold results in a composite refueling vapor program adjustment efficiency of 80%.

The MOVES stage II refueling defaults for refueling spill program adjustment are consistently set at either zero when stage II controls are not applied or 0.5 when stage II controls are applied. EPA Region I and EPA OTAQ were contacted to obtain direction on appropriate entries for refueling vapor program adjustment and refueling spill program adjustment. EPA indicated that the trends used in the MOVES model defaults were correct and the stage II refueling spill program adjustment should be 0.5 when stage II controls are used in the area. While Section 4.12 of MOVES Technical Guidance, Appendix F of the MOVES Users Guide and Section 3.3.6.1 of "Procedures for Emission Inventory Preparation, Volume IV: Mobile Sources," (EPA-450/4-81-026d) were consulted in developing these inputs, the guidance provided by experts at the EPA Office of Transportation and Air Quality (OTAQ) and EPA Region I consistent with MOVES default data in the impacted county year table were necessary to properly address modeling refueling emissions using MOVES.^{2,3,4}

Table 4.12-2 presents the emission reductions applied as result of point source subtraction together with the point source SCC that was used to report the emissions. Only one point source SCC was found to have a mapping and only the gasoline SCC 2501060100 needed to be adjusted for point source emissions reported in 2011. Nonpoint SCCs 2501060100 and 2501070100 were retired and emissions were updated to mobile sector SCCs 2201000062 and 2202000062 between versions 1 and 2 of the National Emissions Inventory. EPA data was moved from the nonpoint file to the EPA's mobile on-road file because of this SCC change. Stage 2 refueling remains in Section 4 Area Sources, because Stage 2 refueling is a fixed nonpoint source that is estimated by the mobile model (MOVES2014) that also requires point source subtraction for two Connecticut counties.

Table 4.12-1
Summary of Updated Vehicle Fueling Emissions (not adopted from EPA estimates)

County	Gasoline Stage 2 Refueling SCC 2501060100 NEIv1; SCC 2201000062 NEIv2		Diesel Stage 2 Refueling SCC 2501070100 NEIv1; SCC 2202000062 NEIv2
	VOC Annual Emissions TPY	VOC Summer Day Emissions LB per Day	VOC Summer Day Emissions LB per Day
Fairfield	94.67	724.52	43.77
Hartford	95.54	776.33	6.08
Litchfield	16.52	134.77	17.93
Middlesex	21.21	160.48	6.11
New Haven	88.57	686.73	9.68
New London	31.43	260.68	46.34
Tolland	17.46	143.47	43.50
Windham	12.22	99.29	10.31
State Total	381.32	3,007.77	183.72

Table 4.12-2
Stage 2 Point Source Subtraction Data for Gasoline Stage 2 Refueling SCC 2501060100

County	Point Source SCC	VOC Annual Emissions TPY	VOC Summer Day LB per Day
Fairfield	40600402	0	0
Hartford	40600402	0.08	0.42
Litchfield	40600402	0	0
Middlesex	40600402	0	0
New Haven	40600402	0	0
New London	40600402	3.61	21.08
Tolland	40600402	0	0
Windham	40600402	0	0

4.13 Industrial and Commercial and Institutional Fuel Use.

Result:

Accepted EPA estimates after modifications to the sulfur dioxide emissions for boilers burning distillate and residual oil and to avoid double counting of point source emissions. Point source subtraction completed and revised area source sector emissions were uploaded to EIS. However, adjustments to the SO₂ emissions based on more accurate sulfur contents were not loaded to EIS, because they were made after the comment period closed.

Review

EPA provided an Excel spreadsheet to Connecticut with a number of inputs such as the amount of fuel used by fuel type and an apportionment factor to allocate the total fuel usage to boilers and engines, respectively. This spreadsheet was used to calculate the emissions for all SCCs in these source categories. The EPA default break out of fuel used by boilers and engines, respectively, was changed from 50/50 to 95/5. Also, fuel use already accounted for in the point source section were subtracted out to avoid double counting. Revised data was uploaded to EPA's EIS.

After the comment period for the 2011 EIS was closed DEEP noticed that EPA had used incorrect sulfur contents when estimating SO₂ emissions for industrial and commercial/institutional boilers using distillate or residual oil. Back calculating the sulfur content, based on the SO₂ emission factors used by EPA, it appears that EPA assumed the sulfur content for distillate and residual oil to be 30 ppm and 22,439 ppm, respectively. The sulfur content for distillate and residual oil was limited by regulation to 3000 ppm and 10,000 ppm in 2011 for these types of boilers in Connecticut. For Connecticut's 2011 PEI, EPA's SO₂ emissions for industrial and commercial/institutional boilers were adjusted assuming a sulfur content of 3000 ppm for distillate oil and 10,000 ppm for residual oil.

4.14 Point Source Subtraction to Avoid Double Counting of Emissions

Below is a list of source categories where no detailed review was conducted but point source emissions were subtracted from area source emissions to avoid double counting. Data for these source categories in EPA's EIS were modified to reflect these alterations.

1. Industrial Surface Coating and Solvent Use
 - a. Wood furniture
 - b. Paper, foil and film
 - c. Machinery and Equipment: SIC 35
 - d. Large Appliances: SIC 363
 - e. Electronic and other electric coatings
 - f. Degreasing
 - g. Graphic Arts

4.14 Municipal Solid Waste Landfills

EPA's review of Connecticut's 2011 Periodic Emission Inventory (PEI) noted that the emissions from landfills were not accounted for in the area source inventory. The emissions from 3 landfills were included in the point source section of the 2011 PEI. Connecticut DEEP estimates that the statewide area source VOC emissions from landfills in 2011 was 246 tons per year. Since the area source VOC emissions from landfills are a relatively small fraction of the total VOC emitted in the state in 2011 (142, 216 tons) and all of the summary tables have been created without them, the VOC landfill emissions were estimated for 2011 but not included in any of the summary tables. Hazardous Air Pollutant (HAP) emissions were not estimated for this source category.

The AP-42 Section 2.4 guidance for estimating VOC emissions from municipal solid waste (MSW) landfills, released November, 1998 was used to estimate the emissions for this category.

Methane (CH₄) and carbon dioxide (CO₂) are the primary constituents of landfill gas and are produced by anaerobic decomposition of refuse in solid waste landfills. Landfill gas also contains a very small amount of non-methane organic compounds (NMOC). This NMOC fraction contains photochemically reactive and non-reactive VOC.

The Connecticut DEP created an inventory of VOC emissions from MSW landfills as an initial step in the implementation of the emission guidelines and new source performance standards for MSW landfills²⁶ (MSW landfills compliance study). This inventory contains the following information for each landfill in Connecticut: an estimate of the waste in place; the year the landfill opened; the year it was closed if it is no longer accepting waste; whether the landfill accepted industrial hazardous waste; and the amount of NMOC emitted in 1999. The NMOC emission estimates in the MSW landfills compliance study used the regulatory default value for total NMOC of 4,000 ppmv, expressed as hexane. This regulatory default value was developed for regulatory compliance purposes and should not be used to estimate actual emissions.

The intent of the Periodic Inventory is to estimate actual emissions. AP-42 lists default NMOC concentrations for the purpose of estimating actual emissions depending on the type of waste the landfill accepted. According to AP-42, if no site specific data are available and the landfill is known to have co-disposed of MSW and non-resident waste, a default (NMOC) value of 2,420 ppmv as hexane, should be used to estimate actual emissions. If the landfill is known to contain only MSW or have very little organic commercial/industrial wastes, then the total NMOC value of 595 ppmv as hexane should be used. In addition, for co-disposal landfills, AP-42 estimates that 85% of the NMOC is made up of photochemically reactive VOC. For non-codisposal landfills only 39% of the NMOC contains photochemically reactive VOC. In the MSW landfills compliance study, facilities which reported receiving industrial hazardous waste were considered co-disposal landfills. All other facilities were considered non-codisposal. The same designation will be used for this inventory. If a facility reported receiving industrial hazardous waste then a default VOC value of 2,060 ppmv as hexane was used. For all other landfills a VOC value of 235 ppmv as hexane was used.

The amount of waste in place at each landfill was obtained from the MSW landfills compliance study²⁶. There were five landfills that reported the amount of ash in place (Hartford, New Haven, Groton, Bristol, and Shelton). In the MSW landfills compliance study²⁶ the amount of waste in place at these

five landfills included the ash. Since ash is a nondegradable refuse, the amount of ash was subtracted from the amount of waste in place for these five landfills. The Montville SCRRA Ash landfill contains only ash, therefore, the amount of waste in place was set to zero.

There are no landfills in Connecticut accepting municipal solid waste (MSW). There are 5 landfills that are actively accepting bulky waste and/or special waste. Bulky waste includes land clearing, construction and demolition waste. Special waste contains such things as contaminated soils. According to the Bureau of Materials Management and Compliance Assurance the amount of special waste disposed of at these landfills is relatively small. It was assumed for the purpose of estimating emissions that these 5 landfills were closed when they stopped accepting MSW. The East Hartford, Westbrook and Hartford landfills stopped accepting MSW in 1987. The Manchester and Windsor-Bloomfield landfills stopped accepting MSW in 1999.

To determine the average annual refuse acceptance rate (R) the waste in place (no ash) was divided by the number of years the landfill accepted waste.

It was assumed that landfills emit NMOC 365 days uniformly throughout the year.

Equations 1, 3, and 4 in section 2.4 of AP-42 were combined resulting in the following equation, which was used to estimate the daily NMOC emissions from landfills in Connecticut:

$$E_{unctrl} = 7.062 \times 10^{-9} \times L \times R \times VOC \times (e^{(-kc)} - e^{(-kt)}) \times 2,000 / 365$$

Where:

- E_{unctrl} = uncontrolled mass emissions of VOC as hexane, lbs/day
- 7.062×10^{-9} = conversion factor, assuming 55% of landfill gas is CH₄ and 45% is CO₂, N₂, and other constituents, and expresses VOC as hexane
- L = methane generation potential, m³ CH₄/Mg refuse (EPA default = 100 m³/Mg)
- R = average annual refuse acceptance rate during active life Mg/yr
- VOC = concentration of VOC in landfill gas, parts per million by volume (ppmv)
- e = base log, unitless
- k = methane generation rate constant, yr⁻¹ (EPA default = 0.04/yr)
- c = time since landfill closure, yrs (c = 0 for active landfills)
- t = time since the initial refuse placement, yrs
- 2,000 = conversion factor 2,000 pounds per ton
- 365 = 365 days per year of operation

A sample calculation of the daily pounds of uncontrolled VOC emissions from the Hartford Landfill is:

$$E_{unctrl} = 7.062 \times 10^{-9} \times 100 \times 106,566 \times 2,060 \times (e^{(-0.04 \times 24)} - e^{(-0.04 \times 56)}) \times 2,000 / 365$$

$$E_{unctrl} = 234.82 \text{ pounds VOC per day}$$

The emissions generated by the AP-42 equation listed above do not take into account the VOC emissions removed by control equipment. There were 8 landfills that had control equipment in use in 2011. Three of these landfills: Danbury, Hartford, and Manchester are Title V sources and are required to report their after control emissions to the DEP every year, see Table 4.4.4-1. The VOC's removed by controls were subtracted from the uncontrolled VOC emission estimates for these three landfills. The 2011 after control emissions for the remaining five landfills were not known, so no adjustments were made to their uncontrolled emission estimates.

The VOC after control emissions for the Danbury, Hartford and Manchester landfills are already accounted for in the point source section of this inventory, therefore, they will not be included in the area source inventory. The daily amount of VOC's removed by controls for these three landfills were estimated using the following equation:

$$E_{rem} = \frac{VOC_{ctrl}}{1 - EFF}$$

Where:

- E_{rem} = daily VOC emissions removed by control equipment, expressed in pounds per day
- EFF = VOC control efficiency
- VOC_{ctrl} = daily VOC emissions exiting control equipment, expressed in pounds per day

A sample calculation for the VOC removed by the control equipment at the Hartford Landfill is:

$$E_{rem} = \frac{0.5}{1 - 0.98}$$

$$E_{rem} = 25.00 \text{ lbs VOC removed per day}$$

Table 4.4.4-2 contains the VOC annual and typical ozone season day emissions from municipal solid waste landfills. The emissions from municipal solid waste landfills occur seven days a week uniformly throughout the year. The equation used to calculate daily VOC emissions for this category is as follows:

$$E = E_{unctrl} - E_{rem}$$

Where:

- E = daily landfill VOC emissions expressed in pounds per day
- E_{unctrl} = daily uncontrolled VOC emissions expressed in pounds per day
- E_{rem} = daily VOC emissions removed by control equipment, expressed in pounds per day

A sample calculation for the Hartford landfill is:

$$E = 234.8 - 25$$

$$E = 209.8 \text{ lbs. of VOC per day}$$

**Table 4.14-1
Summary Of Landfills That Used Control Equipment In 2005**

Landfill	Control Efficiency	Annual VOC After Cntrls (Tons/Year)	Daily VOC After Cntrls (Lbs/Day)	Annual Emissions Removed By Cntrls (Tons/Year)	Daily Emissions Removed By Cntrls (Lbs/Day)	Controlled Emis. In Pt Source Section of SIP
Danbury Landfill	98.0%	0.100	0.400	5.000	20.000	Yes
Hartford CRRRA Landfill	98.0%	0.003	0.500	0.150	25.000	Yes
Manchester Landfill	99.0%	0.015	8.000	1.500	800.000	Yes
		0.118	8.900	6.650	845.000	

**Table 4.14-2
Summary of VOC Emissions From Municipal Solid Waste Landfills**

Landfill	Co-Disposal	Years Of	Avg. Ann. Refuse Accept. Rate (MG/Y)	Annual Emissions Removed By Controls	Daily Emissions Removed By Controls	Annual Emissions (Tons/Year)	Daily Emissions (Lbs/Day)
County=	Fairfield						
Danbury Landfill	Yes	1900 - 12/31/96	30,844	5.000	20.000	19.1	112.1
Fairfield Landfill	No	1950s - 1988	23,904	0.000	0.000	1.2	6.8
New Canaan Landfill	No	1930s - 1994	2,722	0.000	0.000	0.2	1.2
New Fairfield Disposal Area	No	early 1940s -	961	0.000	0.000	0.1	0.3
Newtown Landfill	No	1971 - 10/93	12,371	0.000	0.000	0.6	3.2
North Canaan Landfill	No	1906(?) - 1994(?)	619	0.000	0.000	0.1	0.3
Redding Landfill	No	1962 - 6/94	6,115	0.000	0.000	0.4	2.0
Ridgefield Landfill	No	1929(?) - 1980	747	0.000	0.000	0.0	0.2
Seaside Park Landfill	Yes	1938 - 1993(?)	11,292	0.000	0.000	7.1	39.0
Stratford Landfill	No	1946 - 1983(?)	13,571	0.000	0.000	0.6	3.1
CountyTotal:			103,145	5.000	20.000	29.3	168.1

**Table 4.14-2
Summary of VOC Emissions From Municipal Solid Waste Landfills**

Landfill	Co-Disposal	Years Of	Avg. Ann. Refuse Accept. Rate (MG/Y)	Annual Emissions Removed By Controls	Daily Emissions Removed By Controls	Annual Emissions (Tons/Year)	Daily Emissions (Lbs/Day)
	County=	Hartford					
Avon Landfill	No	1972 - 1994	24,989	0.000	0.000	1.2	6.7
Bristol Landfill	Yes	1950 - 2/28/97	11,562	0.000	0.000	8.1	44.6
Burlington Landfill	No	1966 - 1991(?)	13,166	0.000	0.000	0.6	3.4
East Granby Landfill	No	8/69 - 6/94	980	0.000	0.000	0.1	0.3
East Hartford Landfill	No	1983 - 1987	217,725	0.000	0.000	2.0	11.2
Enfield Landfill	No	1967 - 1/94	47,232	0.000	0.000	2.6	14.4
Farmington Landfill	No	1933(?) - 1988	12,371	0.000	0.000	0.7	4.0
Granby Landfill	No	1953 - 1995(?)	2,521	0.000	0.000	0.2	1.0
Hartford CRRRA Landfill	Yes	1955 - 1987	106,566	0.150	25.000	42.7	209.9
Hartland Landfill	No	1977- 1992	2,220	0.000	0.000	0.1	0.4
Manchester Sanitary Landfill	No	1952 - 1999	98,483	1.500	800.000	7.1	0.0
Marlborough Municipal	No	1960 - 1993	10,545	0.000	0.000	0.6	3.4
NORCAP Regional Landfill	No	3/75 - 7/96	112,318	0.000	0.000	5.8	31.9
Plainville Landfill	No	1950 - 1994	9,897	0.000	0.000	0.7	3.8
Simsbury Landfill	No	1920 - 1995	4,265	0.000	0.000	0.4	1.9
Suffield Municipal Landfill	No	1977 - 4/8/94	22,853	0.000	0.000	0.9	5.2
Windsor-Bloomfield	Yes	7/5/72 - 1999	109,257	0.000	0.000	65.0	356.0
	CountyTotal:		806,949	1.650	825.000	138.9	698.0

**Table 4.14-2
Summary of VOC Emissions From Municipal Solid Waste Landfills**

Landfill	Co-Disposal	Years Of	Avg. Ann. Refuse Accept. Rate (MG/Y)	Annual Emissions Removed By Controls	Daily Emissions Removed By Controls	Annual Emissions (Tons/Year)	Daily Emissions (Lbs/Day)
County=		Litchfield					
Barkhamsted-New Hartford	Yes	4/74 - 10/93	26,316	0.000	0.000	9.9	54.4
Bethlehem Landfill	No	1941 - 1988	1,966	0.000	0.000	0.1	0.6
Canaan Landfill	No	1952(?) - 1994(?)	1,554	0.000	0.000	0.1	0.6
Cornwall Municipal Landfill	No	1952(?) - 1995	3,235	0.000	0.000	0.2	1.3
Kent Landfill	No	1946 - 10/93	1,218	0.000	0.000	0.1	0.5
Litchfield Landfill	No	8/77 - 3/94 (?)	28,093	0.000	0.000	1.2	6.4
Morris Landfill	No	1967 - 1994(?)	3,547	0.000	0.000	0.2	1.1
Norfolk Landfill	No	1938 - 10/93	6,787	0.000	0.000	0.5	2.7
Plymouth Landfill	No	1950(?) - 1974	19,993	0.000	0.000	0.5	2.6
Roxbury Landfill	No	1960(?) - 1/1/91	1,522	0.000	0.000	0.1	0.4
Torrington Landfill	Yes	1930 - 11/26/94	13,024	0.000	0.000	8.9	48.5
Washington Landfill	No	early 1940s (?) -	942	0.000	0.000	0.1	0.4
CountyTotal:			108,196			21.8	119.3
County=		Middlesex					
East Haddam Landfill	No	late 1930s(?) -	7,547	0.000	0.000	0.3	1.6
Essex Landfill & Recycling	No	1950(?) - 1996(?)	2,172	0.000	0.000	0.2	0.9
Middlefield-Durham Landfill	No	1971 - 1989	13,955	0.000	0.000	0.5	2.7
Middletown Landfill	No	1953 - 1997(?)	18,291	0.000	0.000	1.4	7.9
Portland Municipal Landfill	No	5/67 - 1994(?)	9,677	0.000	0.000	0.5	2.9
Westbrook Landfill	No	1955 - 1987	7,175	0.000	0.000	0.3	1.8
CountyTotal:			58,816			3.2	17.8

**Table 4.14-2
Summary of VOC Emissions From Municipal Solid Waste Landfills**

Landfill	Co-Disposal	Years Of	Avg. Ann. Refuse Accept. Rate (MG/Y)	Annual Emissions Removed By Controls	Daily Emissions Removed By Controls	Annual Emissions (Tons/Year)	Daily Emissions (Lbs/Day)
	County=	New Haven					
Branford Landfill	No	1960 - 1995	34,743	0.000	0.000	2.3	12.6
Cheshire Landfill	No	1970 - 1989	36,043	0.000	0.000	1.3	7.2
Derby Landfill	No	1962 - 9/93	30,335	0.000	0.000	1.7	9.5
Front Street (Helm Street)	No	1967(?) - 1989(?)	55,411	0.000	0.000	2.2	12.2
Hamden Landfill	No	early 1970s - 11/88(?)	11,042	0.000	0.000	0.4	2.1
Madison Bulky Waste Site	No	12/68 - 1997	7,410	0.000	0.000	0.5	2.6
Meriden Landfill	No	1937(?) - 1/89	29,937	0.000	0.000	1.8	9.9
North Branford Landfill	No	1958 - 1987(?)	12,503	0.000	0.000	0.5	3.0
North End Disposal Area	No	1955 - 10/31/96	131,272	0.000	0.000	9.6	52.8
North Haven Landfill	No	1964 - 1993	33,222	0.000	0.000	1.8	10.1
Oxford Landfill	No	1976 - 7/30/88	14,470	0.000	0.000	0.4	2.0
Prospect Landfill	No	early 1960s(?) -	7,882	0.000	0.000	0.3	1.9
Seymour Landfill	No	1968 - 1997(?)	19,376	0.000	0.000	1.3	6.9
Southbury Landfill	No	1931 - 3/87	5,018	0.000	0.000	0.3	1.6
Spring Street Landfill	No	1908 - 1989(?)	23,551	0.000	0.000	1.6	8.5
Wallingford CRRA Landfill	No	early 1960s (?) - 1995	18,046	0.000	0.000	1.2	6.5
Woodbridge Landfill	No	1968 - 4/9/94	3,813	0.000	0.000	0.2	1.1
	CountyTotal:		474,074			27.5	150.6

**Table 4.14-2
Summary of VOC Emissions From Municipal Solid Waste Landfills**

Landfill	Co-Disposal	Years Of	Avg. Ann. Refuse Accept. Rate (MG/Y)	Annual Emissions Removed By Controls	Daily Emissions Removed By Controls	Annual Emissions (Tons/Year)	Daily Emissions (Lbs/Day)
County=		New London					
Adelman Landfill	No	10/77 - 1994	13,376	0.000	0.000	0.6	3.0
Bronson Landfill	No	1963 - 8/92	6,812	0.000	0.000	0.4	2.0
Colchester Landfill	No	1960 - 10/94	3,682	0.000	0.000	0.2	1.3
East Lyme Landfill	No	1948 - 1992(?)	4,699	0.000	0.000	0.3	1.7
Groton MSW Landfill	No	1956 - 10/9/94	41,778	0.000	0.000	2.7	15.0
Lebanon Landfill	No	1971(?) - 10/2/93	45,152	0.000	0.000	2.1	11.7
Ledyard Landfill	No	1950s(?) - 1995	5,237	0.000	0.000	0.4	2.1
Lyme Landfill	No	1950s(?) - 1994(?)	30,670	0.000	0.000	2.1	11.7
Montville Landfill	No	1966 - 10/94(?)	4,182	0.000	0.000	0.2	1.3
Montville SCRRA Ash	No	1993 - present	0	0.000	0.000	0.0	0.0
North Stonington Landfill	No	1955 - 1991	6,057	0.000	0.000	0.3	1.9
Norwich Landfill	No	1974 - 1997	19,764	0.000	0.000	1.1	6.2
Norwich State Hospital Ash	No	early 1940s - 1985(?)	222	0.000	0.000	0.0	0.1
Preston Landfill	No	1957 - 1994(?)	5,761	0.000	0.000	0.4	2.1
Salem Landfill	No	1966 - 1995(?)	10,619	0.000	0.000	0.6	3.5
Sprague Landfill	No	1955 - 1993(?)	7,469	0.000	0.000	0.5	2.6
Stonington Landfill	No	10/68 - 1994 (?)	29,348	0.000	0.000	1.6	8.7
Waterford Refuse Disposal	No	1968 - 1996(?)	11,208	0.000	0.000	0.7	3.8
CountyTotal:			246,036			14.3	78.5
County=		Tolland					
Andover Landfill	No	1950 - 1994	5,573	0.000	0.000	0.4	2.1
Columbia Landfill	No	1949 - 1994	435	0.000	0.000	0.0	0.2
Coventry Landfill	No	1942 - 10/9/93	4,848	0.000	0.000	0.3	1.9

**Table 4.14-2
Summary of VOC Emissions From Municipal Solid Waste Landfills**

Landfill	Co-Disposal	Years Of	Avg. Ann. Refuse Accept. Rate (MG/Y)	Annual Emissions Removed By Controls	Daily Emissions Removed By Controls	Annual Emissions (Tons/Year)	Daily Emissions (Lbs/Day)
Hebron Landfill	No	1963 - 1995	19,579	0.000	0.000	1.2	6.8
Mansfield Bulky Waste	No	1966 - 1994(?)	12,348	0.000	0.000	0.7	3.8
Somers Landfill	No	1954 - 1994(?)	9,906	0.000	0.000	0.7	3.6
Stafford Landfill	No	early 1960s - 6/94	3,958	0.000	0.000	0.2	1.4
UConn Landfill	No	1966 - 1996(?)	7,784	0.000	0.000	0.5	2.7
Willington Landfill	No	1978 - 10/93(?)	10,705	0.000	0.000	0.4	2.1
CountyTotal:			75,135			4.5	24.6

**Table 4.14-2
Summary of VOC Emissions From Municipal Solid Waste Landfills**

Landfill	Co-Disposal	Years Of	Avg. Ann. Refuse Accept. Rate (MG/Y)	Annual Emissions Removed By Controls	Daily Emissions Removed By Controls	Annual Emissions (Tons/Year)	Daily Emissions (Lbs/Day)
	County=	Windham					
Brooklyn Municipal Landfill	No	1967 - 1994	5,846	0.000	0.000	0.3	1.8
Donahue Landfill	No	1964(?) - 1994(?)	3,992	0.000	0.000	0.2	1.3
Killingly Landfill	No	early 1970s(?) - 1995	19,595	0.000	0.000	1.1	5.9
Putnam Landfill	No	1968 - 6/28/97	29,862	0.000	0.000	1.9	10.7
Thompson Landfill	No	1956 - 1991	11,773	0.000	0.000	0.7	3.6
Windham Landfill	No	1946(?) - 1996(?)	27,216	0.000	0.000	2.1	11.7
Woodstock Landfill	No	mid-1940s - 4/96	4,574	0.000	0.000	0.4	2.0
CountyTotal:			102,858			6.8	37.1
State Total:			1,975,210	6.650	845.000	246.3	1,294.1

SECTION 5 BIOGENIC SOURCES

EPA's annual biogenic emissions estimates published in version 2 of their 2011 National Emission Inventory (NEI) were adopted by Connecticut (see Table 5-1). EPA estimated zero emissions for annual PM10 primary, PM2.5 primary, ammonia, sulfur dioxide and lead.

Table 5-1
Summary of the 2011 Biogenic Emissions By County

County	Summer Day VOC (lbs/day)	Summer Day NOx (lbs/day)	Summer Day CO (lbs/day)	Annual VOC (tons/year)	Annual NOx (tons/year)	Annual CO (tons/year)
Fairfield	97,941.01	524.51	10,786.66	7,039.51	58.85	870.50
Hartford	111,925.84	773.30	13,940.34	8,044.67	86.76	1,125.01
Litchfield	137,993.04	926.41	16,558.87	9,918.25	103.94	1,336.33
Middlesex	85,588.03	346.06	8,440.80	6,151.64	38.83	681.19
New Haven	99,341.07	535.59	11,118.52	7,140.14	60.09	897.28
New London	121,031.93	658.89	11,786.20	8,699.17	73.92	951.17
Tolland	87,239.79	442.28	8,988.75	6,270.36	49.62	725.41
Windham	109,117.35	521.58	10,265.65	7,842.81	58.52	828.46
State Total:	850,178.06	4,728.63	91,885.79	61,106.55	530.53	7,415.34

SECTION 6 QUALITY ASSURANCE AUDIT

The 2011 periodic Ozone and PM_{2.5} State Implementation Plan (SIP) emission inventory document was reviewed for clarity, completeness, comparability, and reasonableness. Inventories were completed for all required source categories: stationary point sources, stationary area sources, on-road mobile sources, non-road mobile sources, and biogenic sources. The inventories address annual emissions for reactive volatile organic compounds (VOC), oxides of nitrogen (NO_x) and carbon monoxide (CO), sulfur dioxide (SO₂), ultra-fine particulate matter (PM_{2.5} primary), fine particulate matter (PM₁₀ primary), ammonia (NH₃), and lead. Typical high ozone summer day emissions of ozone precursor emissions (i.e., VOC, NO_x, and CO) are presented for all source categories.

A comparison of emission reported in the 2002 periodic emissions inventory (PEI) - the last PEI Connecticut submitted to EPA - and the 2011 PEI is presented in Table 6-1. As expected, the ozone precursor emissions have decreased from 2002 to 2011. In comparison to the 2002 emissions, the 2011 statewide emission estimates appear reasonable. Comparisons between the 2011 and 2002 PEIs were not made for each of the source categories because the differences in how the source categories were defined and models used in preparation of the two inventories resulted in them not being meaningfully comparable. For example, the 2002 point sources category included stationary sources that had actual VOC or NO_x emissions of 10 tons per year or more and facilities with CO emissions of 25 tons per year or more in addition to major sources, while the 2011 point source category only included major sources. However, 2011 PEI emission estimates for selected source categories were compared with EPA's 2011 National Emissions Inventory (NEI) to ensure that there were no major discrepancies between the state and EPA inventories. The full detail data files for the Point, Nonpoint, Nonroad and Onroad source categories were downloaded from [EPA's 2011 NEI webpage](#) and were linked to a Microsoft Access database.

Table 6-1: Ozone Precursor Emissions By County 2002 and 2011 PEI

County	2002 Emissions			2011 Emissions		
	CO (tons/year)	VOC (tons/year)	NOx (tons/year)	CO (tons/year)	VOC (tons/year)	NOx (tons/year)
Fairfield	199,551	38,149	29,154	127,870	27,675	19,457
Hartford	187,887	35,539	26,184	111,407	26,296	18,352
New Haven	49,372	21,691	4,296	103,413	25,015	16,511
New London	46,718	14,756	6,956	38,348	16,630	8,018
Litchfield	163,749	39,618	24,768	31,503	15,708	3,405
Middlesex	72,321	23,468	11,552	25,267	10,504	4,883
Tolland	35,492	12,406	4,385	18,622	9,388	2,865
Windham	28,539	13,770	3,516	17,420	11,001	2,560
State Total	783,629	199,397	110,810	473,849	142,216	76,048

Emissions are expected to be generally higher in areas of higher population because of higher levels of economic activity and transportation related emissions. As shown in Table 6-2, emissions for all pollutants, with the exception of NH₃, are highest for Fairfield, Hartford, and New Haven Counties. County emissions are roughly consistent with the percent of state population.

Table 6-2: 2011 County Population and Emissions

County	2011 Estimated Population	% of Total Population	CO (tons/year)	% of Total CO	VOC (tons/year)	% of Total VOC	NO _x (tons/year)	% of Total NO _x	PM _{10-PRI} (tons/year)	% of Total PM ₁₀
Fairfield	925,899	26%	127,870.10	27%	27,675.10	19%	19,456.70	26%	8,057.90	21%
Hartford	894,705	25%	111,406.50	24%	26,296.20	18%	18,351.50	24%	7,954.60	21%
New Haven	861,113	24%	103,413.30	22%	25,015.20	18%	16,510.50	22%	6,661.80	17%
New London	273,502	8%	38,347.90	8%	16,629.50	12%	8,018.00	11%	4,255.50	11%
Litchfield	188,789	5%	31,502.70	7%	15,708.10	11%	3,404.70	4%	3,912.60	10%
Middlesex	166,043	5%	25,266.90	5%	10,503.70	7%	4,882.70	6%	2,386.00	6%
Tolland	152,507	4%	18,621.50	4%	9,387.70	7%	2,864.50	4%	2,680.40	7%
Windham	118,151	3%	17,420.30	4%	11,000.90	8%	2,559.80	3%	2,741.70	7%
State Total	3,580,709	100%	473,849.20	100%	142,216.30	100%	76,048.40	100%	38,650.50	100%

Table 6-2 (cont.)

County	2011 Estimated Population	% of Total Population	PM _{25-PRI} (tons/year)	% of Total PM _{2.5}	NH ₃ (tons/year)	% of Total NH ₃	SO ₂ (tons/year)	% of Total SO ₂	Lead (tons/year)	% of Total Lead
Fairfield	925,899	26%	3,947.20	23%	647.9	12%	4,194.80	26%	0.5	24%
Hartford	894,705	25%	3,442.60	20%	1,049.90	20%	3,237.70	20%	0.6	29%
New Haven	861,113	24%	3,515.80	21%	718.9	14%	3,601.50	22%	0.4	19%
New London	273,502	8%	1,666.60	10%	1,060.40	20%	1,681.40	10%	0.2	10%
Litchfield	188,789	5%	1,389.40	8%	505.4	10%	890.5	6%	0.1	5%
Middlesex	166,043	5%	947.6	6%	179.2	3%	1,166.70	7%	0.1	5%
Tolland	152,507	4%	880.8	5%	442.1	8%	653.8	4%	0.1	5%
Windham	118,151	3%	1,030.10	6%	652.4	12%	619.6	4%	0.1	5%
State Total	3,580,709	100%	16820.1	100%	5,256.20	100%	16046	100%	2.1	100%

Source of Population Estimate: State of Connecticut Department of Public Health, Connecticut Registration Report: Births, Deaths, and Marriages Calendar Year 2011, November, 2015, Table 2A

6.1 POINT SOURCE QA/QC AUDIT

Section 2 ‘Stationary Point Sources’ provides a thorough discussion describing the methods and procedures used to generate Connecticut’s 2011 Point Inventory, including the history of Connecticut’s point source inventory, a thorough explanation of the EMIT emission reporting system, and example calculations for selected source categories (i.e. fuel burning source, gasoline loading facility, surface coating plant, miscellaneous VOC losses from a waste solvent reclamation unit, Stoddard solvent losses from a dry cleaning unit). The process implemented to generate the 2011 Point Inventory is clearly communicated.

The point sources emissions inventory included all stationary commercial and industrial facilities that were major sources during calendar year 2011. These sources were required to submit emission statements reporting their actual 2011 emissions. A review of the facilities included in Table 1 of Appendix A found that one facility that was a Title V source in 2011, Hampford Research, Inc. (HRI) located in Stratford, was not included in the point source inventory. HRI’s permit (Permit # 174-0087-TV), however, limits their emissions to below the major source thresholds. The Title V permit was issued under the requirements of 40 CFR §63.11494(e) because HRI operates a control device on a chemical manufacturing process unit to maintain the source’s emissions at area source levels.

A comparison of the 2011 PEI and EPA’s 2011 NEI point source emissions is presented in Table 6.1-1. EPA’s point source data file included airport emissions data which were included in the Connecticut non-road mobile source emissions, not the point source emissions. These data were, therefore, removed from the point source data prior to summing the emission for each pollutant. The NEI lead emissions are 65% higher than the PEI emissions. This discrepancy is believed to be a result of EPA’s augmentation based on the Toxic Release Inventory (TRI) of point source lead emissions beyond what the states provide in their submissions. There are no major discrepancies between the two inventories for any other pollutants.

The calculation routines used by EMIT have been thoroughly tested and shown to be correct. In addition, EMIT contains a number of validation checks to ensure that the value entered into a field is within an acceptable range. Therefore, further checks of the data were determined to be unnecessary.

Pollutant	PEI Table 1.3-6 (tons/year)	NEI (tons/year)	Difference between NEI & PEI (tons/year)
Lead	0.20	0.33	0.13
CO	2032.6	2033.9	1.3
NH₃	454	463.3	9.3
NO_x	5957.0	5957.0	0
PM_{10-PRI}	457.2	455.6	(1.6)
PM_{25-PRI}	403.7	402.9	(0.8)
SO₂	1215.7	1215.7	0
VOC	925.6	925.6	0

6.2 MOBILE SOURCE QA/QC AUDIT

6.2.1 On-Road Mobile Sources

The 2011 NEI on-road mobile source emissions are not comparable with the 2011 PEI emissions because the meteorological inputs and analysis techniques used were significantly different. The 2011 NEI used gridded ambient temperatures, representative counties, and a lookup tables approach to estimate emissions. The 2011 PEI uses design temperatures (described in section 1), individual counties, and an inventory mode run of MOVES to estimate emissions.

Table 6.2-1 compares county-level ozone precursor emissions to county population. County emissions are highest in the most populous counties. This is consistent with the expectation that higher populations will, in general, correlate with higher vehicle miles traveled.

County	2011 Estimated Population	% of Total Population	CO (tons/year)	% of Total CO	VOC (tons/year)	% of Total VOC	NO _x (tons/year)	% of Total NO _x
Fairfield	925,899	26%	61,725	25%	5,658	25%	9,805	24%
Hartford	894,705	25%	63,363	25%	5,562	25%	10,018	25%
New Haven	861,113	24%	57,507	23%	5,086	23%	9,300	23%
New London	273,502	8%	21,238	8%	1,835	8%	3,668	9%
Litchfield	188,789	5%	14,023	6%	1,342	6%	1,803	4%
Middlesex	166,043	5%	13,629	5%	1,169	5%	2,239	6%
Tolland	152,507	4%	11,364	5%	1,019	5%	1,924	5%
Windham	118,151	3%	8,565	3%	774	3%	1,323	3%
State Total	3,580,709	100%	251,413	100%	22,445	100%	40,081	100%

MOVES Model QA:

Mobile source emissions were verified (by Lou Corsino) using EPA's MOVES2010b model (database version MOVES20101030). Connecticut specific data input files were provided in MS Excel format by Steve Potter. These input files were reviewed for proper formatting and data consistency. Run specifications were created in MOVES for each county for both summer (tons per day) and annual (tons per year) emissions calculations. Connecticut specific data was imported through the "County Data Manager" in MOVES. Other Connecticut specific databases imported through the "Manage Input Data Sets" function of MOVES were the "early_NLEV" and "09000_mylevs" databases which adjusts for Connecticut's timeline of adoption of the California LEV standards and the "Stage_ii_RefuelingInputPEI_MOVES2010b" database which adjusts the refueling inputs for Connecticut.

MOVES was run for each county in Connecticut using the county's specific data inputs. Summer emissions of VOC, NO_x and CO were verified and annual emissions of VOC, NO_x, CO, PM10-PRI, PM2.5-PRI, NH₃ and SO₂ were verified. VOC and CO annual emissions were the only data points where a slight variance in total emissions was identified. The average variance for annual VOC for all counties was 0.00140% and the average variance for annual CO for all counties was 0.00116%. Additional MOVES runs were conducted to investigate the slight calculation variance by using different versions of the MOVES2010b databases and varying the output methods. After analyzing the additional MOVES runs and because the variances are so small, it is assumed that the

variances in the VOC and CO annual emissions between the QA MOVES runs and the 2011PEI calculations could be due to a computational rounding error. In conclusion, the results of the QA MOVES runs verified the calculations conducted for the 2011PEI.

6.2.2 Non-Road Mobile Sources

There are no major discrepancies between 2011 PEI and NEI emissions inventories for airports and commercial marine vessels (see Table 6.2-2). County level emissions for commercial marine vessels are sorted by NO_x emissions in Table 6.2-3. The highest commercial marine vessel emissions are in New London, New Haven, Fairfield, and Middlesex Counties, the counties with coastal boarders. The PEI attributes no commercial marine vessel emissions to counties with no coastline or navigable rivers – Litchfield, Tolland, and Windham – as expected. County level airport emissions are sorted by CO emissions in Table 6.2-4. The relative level of emissions is consistent with the location of the largest airports (those with FAA control towers) in Connecticut: Hartford (Bradley International and Hartford-Brainard), Fairfield (Danbury Municipal and Sikorsky Memorial), New Haven (Tweed-New Haven and Waterbury-Oxford) and New London (Groton-New London).

	Airport			Commercial Marine Vessel		
	PEI Table 1.3-6 (tons/year)	NEI (tons/year)	Difference between NEI & PEI (tons/year)	PEI Table 1.3-6 (tons/year)	NEI (tons/year)	Difference between NEI & PEI (tons/year)
VOC	116.3	116.4	0.1	84.5	85.1	0.7
NO_x	446.8	446.9	0.1	2865.4	2895.3	29.9
CO	2430.9	2430.8	(0.1)	394.9	401.0	6.1
PM_{10-PRI}	47	46.9	(0.1)	180.4	181.4	1.0
PM_{25-PRI}	39	38.9	(0.1)	168.2	169.2	1.0
NH₃	-	-	-	1.55	1.58	0.0
SO₂	54.5	54.5	0.0	1,009.6	1009.9	0.4
Lead	1.53	1.5	0.03	0.00989	0.00996	0.00007

County	VOC (tons/year)	NO _x (tons/year)	CO (tons/year)	PM _{10-PRI} (tons/year)	PM _{25-PRI} (tons/year)	NH ₃ (tons/year)	SO ₂ (tons/year)
New London	27	1015	176	47	44	0.5	155.2
New Haven	21	662	74	50	46	0.4	353.7
Fairfield	18	657	97	39	37	0.5	209.5
Middlesex	19	516	44	44	40	0.2	291
Hartford	0.4	16.1	3.3	0.5	0.5	0	0.2
Litchfield	0	0	0	0	0	0	0
Tolland	0	0	0	0	0	0	0
Windham	0	0	0	0	0	0	0

County	VOC (tons/year)	NO _x (tons/year)	CO (tons/year)	PM _{10-PRI} (tons/year)	PM _{25-PRI} (tons/year)	SO ₂ (tons/year)	Lead (tons/year)
Hartford	82.8	429	1283	22	19.2	51	0.49
Fairfield	12	5.7	393	8.8	7	1.2	0.36
New Haven	8.9	6.7	304	6.6	5.2	1.2	0.26
Windham	3.3	1.5	124	2.6	2	0.3	0.12
New London	4	1.5	120	2.7	2.2	0.3	0.093
Litchfield	2.3	1	86	1.8	1.4	0.2	0.085
Tolland	2.2	1	85	1.8	1.4	0.2	0.084
Middlesex	0.8	0.4	36	0.7	0.6	0.1	0.038

As shown in Table 6.2-5, the PEI locomotive emissions are significantly lower than 2011 NEI estimates. Bureau of Air Management staff responsible for preparing the inventory indicated that different methodologies were used for the PEI and NEI locomotive emissions estimates and that the difference would have minimal impact on total state and counties emissions.

County	PEI Table 1.3-6 (tons/year)	NEI (tons/year)	Difference between NEI & PEI (tons/year)
VOC	23.71	52.0	28.3
NO _x	609.25	1323.6	714.3
CO	60.39	130.9	70.5
PM _{10-PRI}	15.15	32.8	17.6
PM _{25-PRI}	13.63	29.8	16.2
NH ₃	0.18	0.4	0.2
SO ₂	3.25	11.1	7.9
Lead	0.0013	0.0028	0.0015

6.3 AREA SOURCE QA/QC AUDIT

The Bureau adopted EPA's 2011 area source estimates for Connecticut after reviewing and providing adjustments to EPA, such as subtracting out emissions from the area sources that were already accounted for in the point source section of the inventory or modifying emission estimates based upon state specific information.

A comparison of the 2011 PEI and 2011 NEI area source emissions is presented in Table 6.3-1 and show no major discrepancies. EPA's area source data file included locomotive and commercial marine emissions data which were included in the Connecticut non-road mobile source emissions inventory, not in the area source inventory. These data were, therefore, removed from the NEI area source data prior to summing the emission for each pollutant.

Pollutant	PEI Table 1.3-6 (tons/year)	NEI (tons/year)	Difference between NEI & PEI (tons/year)	% Difference
Lead	1.9	1.89	(0.01)	0.5%
CO	54,055.6	53,520.8	(534.8)	1%
NH₃	3,593.7	3,584.8	(8.9)	0%
NO_x	12,511.8	12,499.8	(12.0)	0%
PM₁₀-PRI	34,706	34,647.3	(58.7)	0%
PM₂₅-PRI	13,590	13,540.3	(49.7)	0%
SO₂	13,405.8	12,723.3	(682.5)	5%
VOC	40,687.6	40,134.4	(553.2)	1%

County-level ozone precursor emissions are compared to county population in Table 6.3-2. County area source emissions are roughly consistent with the percent of state population in that county. This result is consistent with the expectation that higher levels of emissions producing economic activity will generally correlate with higher populations.

County	2011 Estimated Population	% of Total Population	CO (tons/year)	% of Total CO	VOC (tons/year)	% of Total VOC	NO_x (tons/year)	% of Total NO_x
Fairfield	925,899	26%	13,802	26%	10,331	25%	3,187	25%
Hartford	894,705	25%	10,373	19%	9,740	24%	3,375	27%
New Haven	861,113	24%	13,386	25%	9,458	23%	2,922	23%
New London	273,502	8%	4,876	9%	3,895	10%	965	8%
Litchfield	188,789	5%	4,326	8%	2,432	6%	653	5%
Middlesex	166,043	5%	2,398	4%	1,911	5%	581	5%
Tolland	152,507	4%	2,229	4%	1,540	4%	434	3%
Windham	118,151	3%	2,665	5%	1,381	3%	394	3%
State Total	3,580,709	100%	54,056	100%	40,688	100%	12,512	100%

In conclusion, after Connecticut's 2011 periodic emissions inventory (PEI) was reviewed for clarity, completeness, comparability, and reasonableness, against data from past PEIs, NEIs, etc., it was found that the 2011 CT PEI was reasonably accurate and acceptable for publication. This publication thus includes data for all required source categories: stationary point sources, stationary area sources, on-road mobile sources, non-road mobile sources, and biogenic sources.

Appendix A

Point Source Tables

Table 1
Final Point Source List For the State of Connecticut
2011 Annual Emissions (TPY) by Site and County that are major sources

EIS Identifier	Site name	City/Town	SIC	Site Emissions With RE (TPY)								
				VOC	NOx	CO	PM10	PM2.5	NH3	SO2	Lead	
FAIRFIELD County												
754511	BRIDGEPORT ENERGY LLC	BRIDGEPORT	4911	11.80	173.51	72.11	9.85	9.85	2.79	6.60	0.0000	
14623811	BRIDGEPORT INSULATED WIRE CO	STRATFORD	3357	0.36	0.18	0.15	0.01	0.01	0.00	0.00	0.0000	
2722511	CONNECTICUT JET POWER, LLC	GREENWICH	4911	0.01	2.01	2.79	0.13	0.13	0.00	0.02	0.0001	
533411	Cray Valley USA, LLC	STRATFORD	2869	10.98	0.31	0.26	0.39	0.02	0.01	0.00	0.0000	
2722111	DANBURY /DPW (LANDFILL)	DANBURY	9511	6.43	3.80	7.88	2.24	2.24	0.01	2.14	0.0000	
14621711	IROQUOIS PIPELINE OPERATING CO	BROOKFIELD	4922	17.00	12.48	11.94	9.97	9.97	0.00	0.34	0.0000	
2722211	KINGSWOOD KITCHENS INC	DANBURY	2434	6.67	0.48	0.12	0.79	0.15	0.00	1.02	0.0000	
754211	MOTIVA ENTERPRISES LLC	BRIDGEPORT	5171	33.11	0.01	0.00	0.00	0.00	0.00	0.00	0.0000	
552411	NORWALK HOSPITAL ASSOCIATION	NORWALK	8062	5.53	28.13	10.33	3.03	3.02	0.01	0.11	0.0004	
843611	NORWALK POWER, LLC	NORWALK	4911	1.25	32.46	6.19	2.34	2.20	0.98	50.66	0.0018	
754311	PSEG PWR CT LLC/BPT HARBOR STA	BRIDGEPORT	4911	9.25	373.93	76.68	6.52	2.26	0.42	513.62	0.0010	
642511	SIKORSKY AIRCRAFT	STRATFORD	3721	29.51	42.88	21.95	1.97	1.97	0.82	0.16	0.0002	
588811	SPARTECH POLYCAST, INC	STAMFORD	3081	6.90	4.80	3.59	0.26	0.24	0.08	0.07	0.0000	
14623911	STRATFORD SCHOOL FOR A.M.TECH.	STRATFORD	8249	0.02	0.07	0.06	0.01	0.01	0.00	0.00	0.0000	

Table 1
Final Point Source List For the State of Connecticut
2011 Annual Emissions (TPY) by Site and County that are major sources

EIS Identifier	Site name	City/Town	SIC	Site Emissions With RE (TPY)							
				VOC	NOx	CO	PM10	PM2.5	NH3	SO2	Lead
754411	WHEELABRATOR BRIDGEPORT LP	BRIDGEPORT	4953	7.74	1,220.48	43.75	15.80	13.98	3.55	60.24	0.0530
Totals For	FAIRFIELD			146.56	1,895.51	257.81	53.31	46.05	8.68	634.99	0.0566
	HARTFORD	County									
589711	ALGONQUIN POWER WINDSOR LOCKS	WINDSOR LOCKS	4911	46.05	271.66	203.28	8.17	8.16	0.29	2.85	0.0000
14624511	C R R A / HARTFORD LANDFILL	HARTFORD	9511	0.00	0.10	0.02	0.00	0.00	0.00	0.04	0.0000
715611	C R R A / MID-CONNECTICUT	HARTFORD	4953	6.14	816.64	460.20	2.83	2.83	8.73	23.46	0.0135
844911	Capitol District Energy Center Cogeneration Associates	HARTFORD	4911	0.70	16.13	4.82	1.38	1.38	0.07	0.10	0.0001
588711	COVANTA BRISTOL, INC	BRISTOL	4953	1.96	247.69	24.42	1.51	0.84	1.08	16.55	0.0051
2753811	CTG Resources	ROCKY HILL	4924	0.02	0.95	0.34	0.03	0.03	0.00	0.00	0.0000
753011	HAMILTON SUNDSTRAND CORP	WINDSOR LOCKS	3728	27.37	13.54	8.59	2.97	2.97	2.70	0.23	0.0000
533311	JACOBS VEHICLE SYSTEMS, INC	BLOOMFIELD	3714	1.00	8.51	3.95	0.33	0.33	0.04	0.02	0.0000
552311	M D C /HARTFORD WPCF	HARTFORD	4952	16.39	71.69	101.75	3.53	3.20	231.75	4.93	0.0012
14622811	Manchester Landfill Premises	MANCHESTER	4953	5.09	2.63	1.95	0.70	0.70	25.36	3.04	0.0011
2673411	PRATT & WHITNEY DIV UTC	EAST HARTFORD	3724	6.70	135.06	53.12	6.03	3.38	5.81	5.09	0.0005

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EIS Identifier	Site name	City/Town	SIC	Site Emissions With RE (TPY)							
				VOC	NOx	CO	PM10	PM2.5	NH3	SO2	Lead
918811	STANLEY TOOLS DIV	NEW BRITAIN	3423	53.92	1.75	1.45	0.10	0.09	0.03	0.07	0.0000
2673711	SUPREME LAKE MFG CO	SOUTHINGTON	3451	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
Totals For	HARTFORD			165.34	1,586.34	863.89	27.58	23.91	275.85	56.37	0.0215
	LITCHFIELD	County									
587911	Albea Metal Americas Inc.	WATERTOWN	3469	0.03	0.29	0.07	0.02	0.02	0.00	0.00	0.0000
2711411	BRAXTON MFG CO INC	WATERTOWN	3965	3.95	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
589811	G L C ASSOCIATES	THOMASTON	6512	0.23	2.22	3.48	0.58	0.49	0.15	3.51	0.0001
845911	KIMBERLY-CLARK CORP	NEW MILFORD	2621	14.98	43.94	19.34	18.56	18.55	4.57	1.87	0.0000
589811	QUALITY ROLLING & DEBURRING CO	THOMASTON	3471	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2673811	WASTE MANAGEMENT OF CT INC	NEW MILFORD	4953	0.71	27.66	45.20	0.80	0.80	0.00	2.05	0.0000
Totals For	LITCHFIELD			19.91	74.11	68.09	19.96	19.87	4.72	7.44	0.0001

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Final Point Source List For the State of Connecticut
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EIS Identifier	Site name	City/Town	SIC	Site Emissions With RE (TPY)								
				VOC	NOx	CO	PM10	PM2.5	NH3	SO2	Lead	
MIDDLESEX County												
2706711	ALGONQUIN GAS TRANSMISSION (Cromwell)	CROMWELL	4922	21.64	260.00	35.21	8.62	8.62	0.00	1.01	0.0000	
2706811	CONN VALLEY HOSPITAL	MIDDLETOWN	8063	1.14	18.35	12.25	1.30	1.29	0.40	0.71	0.0001	
14622911	KLEEN ENERGY SYSTEM PROJECT	MIDDLETOWN	4911	1.28	38.96	14.44	26.14	0.23	3.06	3.28	0.0000	
715711	MIDDLETOWN POWER LLC	MIDDLETOWN	4911	6.29	143.08	84.52	7.52	6.55	1.29	71.50	0.0034	
920511	PRATT & WHITNEY DIV UTC	MIDDLETOWN	3724	12.69	247.80	89.99	17.60	17.58	2.00	17.09	0.0020	
Totals For	MIDDLESEX			43.03	708.19	236.41	61.17	34.28	6.75	93.59	0.0055	
NEW HAVEN County												
657911	ALLEGHENY LUDLUM CORP	WALLINGFORD	3316	1.07	9.58	4.15	6.03	5.31	0.16	0.05	0.0000	
2711211	AMETEK SPECIALTY METAL PRODUCT	WALLINGFORD	3356	17.18	0.00	0.00	0.17	0.17	0.00	0.00	0.0000	
14624111	BRISTOL-MYERS SQUIBB CO	WALLINGFORD	2834	26.53	13.46	3.95	1.77	1.77	0.10	0.21	0.0004	
589911	COVANTA PROJECTS OF WALLINGFORD, L.P.	WALLINGFORD	4953	0.53	110.63	13.84	0.79	0.47	0.00	4.28	0.0018	
658111	CYTEC INDUSTRIES INC	WALLINGFORD	2821	72.04	28.27	18.02	6.76	6.76	1.32	0.14	0.0001	
590011	DEVON POWER, LLC	MILFORD	4911	0.27	6.91	0.63	1.50	1.50	0.27	0.15	0.0015	
15588611	EVONIK CYRO LLC	WALLINGFORD	2821	5.64	0.47	0.34	0.04	0.03	0.01	0.01	0.0000	

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EIS Identifier	Site name	City/Town	SIC	Site Emissions With RE (TPY)							
				VOC	NOx	CO	PM10	PM2.5	NH3	SO2	Lead
918711	GULF OIL L.P.	NEW HAVEN	5171	43.44	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
843211	MAGELLAN TERMINALS HOLDINGS,LP	NEW HAVEN	4226	53.34	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
844411	MAGELLAN TERMINALS HOLDINGS,LP	NEW HAVEN	4226	28.33	4.59	11.46	0.02	0.02	0.01	0.00	0.0000
2708911	MILFORD POWER CO, LLC	MILFORD	4911	9.36	82.76	37.82	74.60	74.60	17.02	8.34	0.0000
555511	MOTIVA ENTERPRISES LLC	NEW HAVEN	5171	50.19	0.30	1.15	0.07	0.07	0.00	0.08	0.0000
898011	NAUGATUCK POTW	NAUGATUCK	4952	0.25	10.04	0.74	2.35	2.35	0.00	6.07	0.0001
897811	NEW HAVEN TERMINAL, INC	EAST HAVEN	4226	7.21	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
555611	NEW HAVEN TERMINAL, INC	NEW HAVEN	4226	1.99	0.05	0.04	0.00	0.00	0.00	0.00	0.0000
14624411	PIERCE GENERATING STATION (Wallingford)	WALLINGFORD	4911	0.06	1.69	0.71	0.23	0.23	0.00	0.06	0.0001
643411	PSEG FOSSIL LLC/ POWER CT LLC	NEW HAVEN	4911	3.58	51.51	16.63	0.77	0.62	2.44	70.05	0.0002
555711	SOMERS THIN STRIP	WATERBURY	3351	2.47	3.90	2.46	0.29	0.29	0.08	0.02	0.0000
2724211	THERMOSPAS INC	WALLINGFORD	3088	5.28	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
14623211	UNITED ALUMINUM CORP	NORTH HAVEN	3353	36.26	1.55	1.41	1.11	1.11	0.00	0.01	0.0000
14624011	Wallingford Energy LLC	WALLINGFORD	4911	3.11	9.71	7.65	6.48	6.48	4.09	0.52	0.0000

**Table 1
Final Point Source List For the State of Connecticut
2011 Annual Emissions (TPY) by Site and County that are major sources**

EIS Identifier	Site name	City/Town	SIC	Site Emissions With RE (TPY)							
				VOC	NOx	CO	PM10	PM2.5	NH3	SO2	Lead
15588211	WATERBURY GENERATION, LLC	WATERBURY	4911	1.43	2.71	3.97	1.96	1.96	1.67	0.23	0.0000
843911	YALE UNIV /CENTRAL POWER PLT	NEW HAVEN	8221	3.17	23.00	7.85	6.65	6.59	7.11	3.45	0.0003
898111	YALE UNIV, SCHOOL OF MEDICINE	NEW HAVEN	8221	1.44	15.01	9.36	2.30	2.30	0.76	2.38	0.0004
Totals For	NEW HAVEN			374.15	376.15	142.18	113.91	112.63	35.04	96.05	0.0049
	NEW LONDON	County									
920711	AES Thames LLC	MONTVILLE	4911	2.14	26.94	28.47	0.87	0.07	0.00	94.15	0.0001
15588411	AMERICAS STYRENICS, LLC	LEDYARD	2821	8.00	3.96	0.99	0.16	0.13	0.06	0.29	0.0496
754611	COVANTA SOUTHEASTERN CT CO	PRESTON	4953	2.97	398.34	94.95	1.61	0.91	1.93	60.49	0.0039
590211	DOW CHEMICAL CO	LEDYARD	2821	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
922211	ELECTRIC BOAT CORP	GROTON	3731	10.05	18.04	9.71	0.94	0.92	0.38	0.30	0.0001
552711	Fusion Paperboard Connecticut LLC	SPRAGUE	2631	14.43	181.50	33.63	3.42	3.33	1.32	8.25	0.0003
590111	Millstone Power Station	WATERFORD	4911	0.54	16.82	5.31	0.55	0.51	0.13	6.69	0.0000
552611	MONTVILLE POWER, LLC	MONTVILLE	4911	2.00	42.93	9.13	4.54	2.65	1.05	27.25	0.0014
921211	PFIZER INC	GROTON	8731	5.80	59.93	36.03	7.41	7.27	0.21	5.89	0.0003
2662011	RockTenn	MONTVILLE	2631	7.98	22.21	32.80	5.34	5.34	1.25	0.24	0.0002

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EIS Identifier	Site name	City/Town	SIC	Site Emissions With RE (TPY)							
				VOC	NOx	CO	PM10	PM2.5	NH3	SO2	Lead
15588511	Styron LLC - Allyn's Point	LEDYARD	2821	1.28	5.89	9.07	0.87	0.82	0.32	0.07	0.0000
15588311	The Gilman Brothers Company	BOZRAH	3089	32.61	1.11	0.12	0.19	0.14	0.02	0.23	0.0000
2661611	U S NAVAL SUBMARINE BASE NEW LONDON	GROTON	9711	13.63	25.53	15.07	2.17	2.15	0.43	1.52	0.0002
8501611	WHEELABRATOR LISBON INC	LISBON	4953	7.05	242.21	13.02	2.75	2.44	1.78	40.95	0.0140
Totals For	NEW LONDON			108.48	1,045.41	288.30	30.81	26.69	8.87	246.31	0.0701
	TOLLAND	County									
642611	UNIV OF CT / STORRS	MANSFIELD	8221	4.27	26.17	24.88	17.10	17.09	6.80	3.24	0.0002
Totals For	TOLLAND			4.27	26.17	24.88	17.10	17.09	6.80	3.24	0.0002
	WINDHAM	County									
751611	ALGONQUIN GAS TRANSMISSION (Chaplin)	CHAPLIN	4922	4.73	18.92	8.46	1.44	1.44	0.00	0.74	0.0000
2765911	FRITO-LAY INC	KILLINGLY	2096	4.09	11.91	16.42	18.86	8.67	0.48	0.59	0.0001
844711	LAKE ROAD GENERATING CO, L.P.	KILLINGLY	4911	21.13	141.31	51.31	94.33	94.33	93.64	11.45	0.0000
2766111	ReEnergy Sterling	STERLING	4911	4.88	69.80	73.50	18.60	18.60	13.07	64.90	0.0022
844811	TEGRANT DIVERSIFIED BRANDS,INC	PUTNAM	3086	28.99	1.54	1.29	0.12	0.12	0.05	0.01	0.0000
Totals For	WINDHAM			63.82	243.48	150.98	133.34	123.15	107.24	77.68	0.0023
StateWide Total:				925.56	5,955.35	2,032.54	457.19	403.67	453.96	1,215.68	0.1612

Table 2
Final Point Source List For the State of Connecticut
2011 Typical Summer Day VOC, NOx and CO Emissions (lbs/day) by Site and County that are
Major Sources

EIS	Site name	City/Town	SIC	Site Emissions With RE (lbs/day)		
				VOC	NOx	CO
FAIRFIELD	County					
754511	BRIDGEPORT ENERGY LLC	BRIDGEPORT	4911	89.93	1,189.14	414.51
14623811	BRIDGEPORT INSULATED WIRE CO	STRATFORD	3357	39.89	1.10	0.92
2722511	CONNECTICUT JET POWER, LLC	GREENWICH	4911	0.05	17.49	24.42
533411	Cray Valley USA, LLC	STRATFORD	2869	102.06	1.18	0.99
2722111	DANBURY /DPW (LANDFILL)	DANBURY	9511	32.57	17.90	40.34
14621711	IROQUOIS PIPELINE OPERATING CO	BROOKFIELD	4922	101.44	70.65	118.88
2722211	KINGSWOOD KITCHENS INC	DANBURY	2434	51.37	1.48	0.37
754211	MOTIVA ENTERPRISES LLC	BRIDGEPORT	5171	140.18	0.08	0.02
552411	NORWALK HOSPITAL ASSOCIATION	NORWALK	8062	37.85	178.67	68.99
843611	NORWALK POWER, LLC	NORWALK	4911	12.92	435.87	63.97
754311	PSEG PWR CT LLC/BPT HARBOR STA	BRIDGEPORT	4911	114.50	4,736.70	947.38
642511	SIKORSKY AIRCRAFT	STRATFORD	3721	187.06	249.37	130.66
588811	SPARTECH POLYCAST, INC	STAMFORD	3081	39.84	30.43	18.68
14623911	STRATFORD SCHOOL FOR A.M.TECH.	STRATFORD	8249	0.02	0.30	0.25
754411	WHEELABRATOR BRIDGEPORT LP	BRIDGEPORT	4953	46.58	7,127.33	256.64
Totals For	FAIRFIELD			996.26	14,057.71	2,087.02

Table 2
Final Point Source List For the State of Connecticut
2011 Typical Summer Day VOC, NOx and CO Emissions (lbs/day) by Site and County that are
Major Sources

EIS Identifier	Site name	City/Town	SIC	Site Emissions With RE (lbs/day)		
				VOC	NOx	CO
	HARTFORD	County				
589711	ALGONQUIN POWER WINDSOR LOCKS	WINDSOR LOCKS	4911	248.38	1,478.70	1,111.02
14624511	C R R A / HARTFORD LANDFILL	HARTFORD	9511	0.17	8.59	1.64
715611	C R R A / MID-CONNECTICUT	HARTFORD	4953	36.50	4,862.31	2,666.21
844911	Capitol District Energy Center Cogeneration Associates	HARTFORD	4911	5.13	359.91	41.26
588711	COVANTA BRISTOL, INC	BRISTOL	4953	12.19	1,425.10	141.40
2753811	CTG Resources	ROCKY HILL	4924	0.01	1.18	0.30
753011	HAMILTON SUNDSTRAND CORP	WINDSOR LOCKS	3728	150.38	81.71	55.27
533311	JACOBS VEHICLE SYSTEMS, INC	BLOOMFIELD	3714	4.72	54.54	20.70
552311	M D C /HARTFORD WPCF	HARTFORD	4952	97.30	918.19	2,135.82
14622811	Manchester Landfill Premises	MANCHESTER	4953	28.80	41.69	18.10
2673411	PRATT & WHITNEY DIV UTC	EAST HARTFORD	3724	49.38	1,194.10	533.27
918811	STANLEY TOOLS DIV	NEW BRITAIN	3423	419.77	6.71	5.64
2673711	SUPREME LAKE MFG CO	SOUTHINGTON	3451	0.00	0.00	0.00
Totals For	HARTFORD			1,052.73	10,432.75	6,730.64

Table 2
Final Point Source List For the State of Connecticut
2011 Typical Summer Day VOC, NOx and CO Emissions (lbs/day) by Site and County that are
Major Sources

EIS Identifier	Site name	City/Town	SIC	Site Emissions With RE (lbs/day)		
				VOC	NOx	CO
LITCHFIELD		County				
587911	Albea Metal Americas Inc.	WATERTOWN	3469	0.13	1.51	0.46
2711411	BRAXTON MFG CO INC	WATERTOWN	3965	21.60	0.00	0.00
589811	G L C ASSOCIATES	THOMASTON	6512	0.12	14.54	1.57
845911	KIMBERLY-CLARK CORP	NEW MILFORD	2621	83.06	226.24	94.02
589811	QUALITY ROLLING & DEBURRING CO	THOMASTON		3471	1.88	0.00
2673811	WASTE MANAGEMENT OF CT INC	NEW MILFORD	4953	3.71	148.62	241.88
Totals For	LITCHFIELD			110.50	390.92	337.93
MIDDLESEX		County				
2706711	ALGONQUIN GAS TRANSMISSION (Cromwell)	CROMWELL	4922	207.56	3,594.10	1,154.54
2706811	CONN VALLEY HOSPITAL	MIDDLETOWN	8063	4.99	73.92	48.97
14622911	KLEEN ENERGY SYSTEM PROJECT	MIDDLETOWN	4911	12.98	550.61	165.40
715711	MIDDLETOWN POWER LLC	MIDDLETOWN	4911	265.31	10,313.2	2,769.36
920511	PRATT & WHITNEY DIV UTC	MIDDLETOWN	3724	93.78	2,841.17	783.84
Totals For	MIDDLESEX			584.62	17,373.06	4,922.11

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2011 Typical Summer Day VOC, NOx and CO Emissions (lbs/day) by Site and County that are
Major Sources

EIS Identifier	Site name	City/Town	SIC	Site Emissions With RE (lbs/day)		
				VOC	NOx	CO
NEW HAVEN County						
657911	ALLEGHENY LUDLUM CORP	WALLINGFORD	3316	4.99	34.12	15.12
2711211	AMETEK SPECIALTY METAL PRODUCT	WALLINGFORD	3356	176.00	0.00	0.00
14624111	BRISTOL-MYERS SQUIBB CO	WALLINGFORD	2834	125.41	77.59	14.23
589911	COVANTA PROJECTS OF WALLINGFORD, L.P.	WALLINGFORD	4953	2.92	596.60	54.80
658111	CYTEC INDUSTRIES INC	WALLINGFORD	2821	360.80	159.60	89.50
590011	DEVON POWER, LLC	MILFORD	4911	39.55	2,074.59	106.62
15588611	EVONIK CYRO LLC	WALLINGFORD	2821	51.48	0.96	0.25
918711	GULF OIL L.P.	NEW HAVEN	5171	227.82	0.00	0.00
843211	MAGELLAN TERMINALS HOLDINGS,LP	NEW HAVEN	4226	345.52	0.00	0.00
844411	MAGELLAN TERMINALS HOLDINGS,LP	NEW HAVEN	4226	202.15	20.96	52.38
2708911	MILFORD POWER CO, LLC	MILFORD	4911	50.84	455.01	332.37
555511	MOTIVA ENTERPRISES LLC	NEW HAVEN	5171	250.03	1.57	5.76
898011	NAUGATUCK POTW	NAUGATUCK	4952	1.38	55.71	4.13
897811	NEW HAVEN TERMINAL, INC	EAST HAVEN	4226	71.60	0.00	0.00
555611	NEW HAVEN TERMINAL, INC	NEW HAVEN	4226	15.28	6.50	5.46
14624411	PIERCE GENERATING STATION (Wallingford)	WALLINGFORD	4911	0.34	3.05	0.00
643411	PSEG FOSSIL LLC/ POWER CT LLC	NEW HAVEN	4911	145.53	1,564.27	664.63
555711	SOMERS THIN STRIP	WATERBURY	3351	19.24	11.59	9.62
2724211	THERMOSPAS INC	WALLINGFORD	3088	40.82	0.00	0.00
14623211	UNITED ALUMINUM CORP	NORTH HAVEN	3353	196.83	31.61	35.87

Table 2
Final Point Source List For the State of Connecticut
2011 Typical Summer Day VOC, NOx and CO Emissions (lbs/day) by Site and County that are
Major Sources

EIS		Site Emissions With RE (lbs/day)				
Identifier	Site name	City/Town	SIC	VOC	NOx	CO
14624011	Wallingford Energy LLC	WALLINGFORD	4911	37.95	95.56	114.75
15588211	WATERBURY GENERATION, LLC	WATERBURY	4911	11.62	18.96	27.72
843911	YALE UNIV /CENTRAL POWER PLT	NEW HAVEN	8221	13.58	144.24	35.99
898111	YALE UNIV, SCHOOL OF MEDICINE	NEW HAVEN	8221	25.42	284.45	88.18
Totals For	NEW HAVEN			2,417.11	5,636.92	1,657.40
	NEW LONDON	County				
920711	AES Thames LLC	MONTVILLE	4911	0.00	0.00	0.00
15588411	AMERICAS STYRENICS, LLC	LEDYARD	2821	44.94	34.67	16.86
754611	COVANTA SOUTHEASTERN CT CO	PRESTON	4953	18.08	2,329.03	556.43
590211	DOW CHEMICAL CO	LEDYARD	2821	6.55	0.00	0.00
922211	ELECTRIC BOAT CORP	GROTON	3731	30.10	27.10	10.22
552711	Fusion Paperboard Connecticut LLC	SPRAGUE	2631	84.81	915.84	378.85
590111	Millstone Power Station	WATERFORD	4911	2.71	76.99	26.62
552611	MONTVILLE POWER, LLC	MONTVILLE	4911	18.12	350.21	78.72
921211	PFIZER INC	GROTON	8731	83.67	1,723.54	592.38
2662011	RockTenn	MONTVILLE	2631	44.21	127.96	189.00
15588511	Styron LLC - Allyn's Point	LEDYARD	2821	7.21	34.54	45.37
15588311	The Gilman Brothers Company	BOZRAH	3089	182.93	4.78	0.51
2661611	U S NAVAL SUBMARINE BASE NEW LONDON	GROTON	9711	106.81	112.39	15.45
8501611	WHEELABRATOR LISBON INC	LISBON	4953	41.92	1,389.12	76.44
Totals For	NEW LONDON			672.06	7,126.16	1,986.84

Table 2
Final Point Source List For the State of Connecticut
2011 Typical Summer Day VOC, NOx and CO Emissions (lbs/day) by Site and County that are
Major Sources

EIS Identifier	Site name	City/Town	SIC	Site Emissions With RE (lbs/day)		
				VOC	NOx	CO
TOLLAND		County				
642611	UNIV OF CT / STORRS	MANSFIELD	8221	34.55	416.60	229.78
Totals For	TOLLAND			34.55	416.60	229.78
WINDHAM		County				
751611	ALGONQUIN GAS TRANSMISSION (Chaplin)	CHAPLIN	4922	33.28	271.81	112.55
2765911	FRITO-LAY INC	KILLINGLY	2096	26.48	114.43	121.50
844711	LAKE ROAD GENERATING CO, L.P.	KILLINGLY	4911	402.25	736.23	302.18
2766111	ReEnergy Sterling	STERLING	4911	34.33	484.78	484.78
844811	TEGRANT DIVERSIFIED BRANDS,INC PUTNAM		3086	184.55	18.93	15.90
Totals For	WINDHAM			680.89	1,626.17	1,036.91
StateWide Total:				6,548.73	57,060.30	18,988.63

Table 3
Source Classification Codes and Emission Factor Listing

SCC	PROCES DESCRIPTION	PM10 Lbs/unit	PM2.5 Lbs/unit	SO2 Lbs/unit	NOx Lbs/unit	VOC Lbs/unit	CO Lbs/unit	Lead Lbs/unit	Ammonia Lbs/unit	Units
10100101	Electric Generation Pulverized Coal	$((1E-1*S-3E-2)*24.6)+(2.3E0*A)$		3.9E1*S	18	0.07	0.6	0.0089	0.000565	TON
10100102	Electric Generation Traveling Grate (Overfeed) Stoker	$(4.800E0)+(8E-2*A)$	$(2.500E0)+(8E-2*A)$	3.9E1*S	9	0.07	0.6	0.0089	0.000565	TON
10100201	Electric Generation Pulverized Coal: Wet Bottom (Bituminous Coal)	$((1E-1*S-3E-2)*26)+(2.6E0*A)$		3.8E1*S	31	0.04	0.5	0.013182	0.000565	TON
10100202	Electric Generation Pulverized Coal: Dry Bottom (Bituminous Coal)	$((1E-1*S-3E-2)*26)+(2.3E0*A)$		3.8E1*S	22	0.06	0.5	0.013182	0.000565	TON
10100203	Electric Generation Cyclone Furnace (Bituminous Coal)	$((1E-1*S-3E-2)*26)+(2.6E-1*A)$		3.8E1*S	33	0.11	0.5	0.013182	0.000565	TON
10100204	Electric Generation Spreader Stoker (Bituminous Coal)	14.2	5.64	3.8E1*S	11	0.05	5	0.013182	0.000565	TON
10100205	Electric Generation Traveling Grate (Overfeed) Stoker (Bituminous Coal)	7.04	3.24	3.8E1*S	7.5	0.05	6	0.013182	0.000565	TON
10100211	Electric Generation Wet Bottom (Tangential) (Bituminous Coal)			3.8E1*S	14		0.5		0.000565	TON
10100212	Electric Generation Pulverized Coal: Dry Bottom (Tangential) (Bituminous Coal)	$((1E-1*S-3E-2)*26)+(2.3E0*A)$		3.8E1*S	15	0.06	0.5		0.000565	TON
10100215	Electric Generation Cell Burner (Bituminous Coal)			3.8E1*S	31		0.5		0.000565	TON
10100217	Electric Generation Atmospheric Fluidized Bed Combustion: Bubbling Bed (Bituminous Coal)	12.9	1.88		15.2	0.05	18		0.000565	TON
10100218	Electric Generation Atmospheric Fluidized Bed Combustion: Circulating Bed (Bitum. Coal)	12.9	1.88		5		18		0.000565	TON
10100221	Electric Generation Pulverized Coal: Wet Bottom (Subbituminous Coal)			3.5E1*S	24		0.5	0.01014	0.000565	TON
10100222	Electric Generation Pulverized Coal: Dry Bottom (Subbituminous Coal)			3.5E1*S	7.4		0.5	0.01014	0.000565	TON
10100223	Electric Generation Cyclone Furnace (Subbituminous Coal)			3.5E1*S	17		0.5	0.01014	0.000565	TON
10100224	Electric Generation Spreader Stoker (Subbituminous Coal)	14	5.4	3.5E1*S	8.8		5	0.01014	0.000565	TON

Table 3
Source Classification Codes and Emission Factor Listing

SCC	PROCES DESCRIPTION	PM10 Lbs/unit	PM2.5 Lbs/unit	SO2 Lbs/unit	NOx Lbs/unit	VOC Lbs/unit	CO Lbs/unit	Lead Lbs/unit	Ammonia Lbs/unit	Units
10100225	Electric Generation Traveling Grate (Overfeed) Stoker (Subbituminous Coal)	6.8	3	3.5E1*S	7.5		6	0.01014	0.000565	TON
10100226	Electric Generation Pulverized Coal: Dry Bottom Tangential (Subbituminous Coal)			3.5E1*S	8.4		0.5		0.000565	TON
10100235	Electric Generation Cell Burner (Subbituminous Coal)			3.5E1*S	14		0.5		0.000565	TON
10100237	Electric Generation Atmospheric Fluidized Bed Combustion: Bubbling Bed (Subbitum Coal)	16.6	1.88		15.2	0.05	18		0.000565	TON
10100238	Electric Generation Atmospheric Fluidized Bed Combustion - Circulating Bed (Subbitum Coal)								0.000565	TON
10100300	Electric Generation Pulverized Coal: Wet Bottom								0.000565	TON
10100301	Electric Generation Pulverized Coal: Dry Bottom, Wall Fired			3E1*S	13		0.25		0.000565	TON
10100302	Electric Generation Pulverized Coal: Dry Bottom, Tangential Fired			3E1*S	7.1		0.6		0.000565	TON
10100303	Electric Generation Cyclone Furnace			3E1*S	15		0.6		0.000565	TON
10100304	Electric Generation Traveling Grate (Overfeed) Stoker	(1.070E0*A)+6.400E-1	(4.066E-1*A)+6.400E-1	3E1*S	6		6		0.000565	TON
10100306	Electric Generation Spreader Stoker	(1.600E0*A)+6.400E-1	(5.600E-1*A)+6.400E-1	3E1*S	5.8		5		0.000565	TON
10100316	Electric Generation Atmospheric Fluidized Bed ** (See 101003-17 & -18)			1E1*S	3.6		0.15		0.000565	TON
10100317	Electric Generation Atmospheric Fluidized Bed Combustion - Bubbling Bed			1E1*S	3.6	0.03			0.000565	TON
10100318	Electric Generation Atmospheric Fluidized Bed Combustion - Circulating Bed				3.6	0.03	0.15		0.000565	TON
10100401	Electric Generation Grade 6 Oil: Normal Firing	(5.9E0*(1.12*S+0.37))+(1.500E0)	(4.3E0*(1.12*S+0.37))+(1.500E0)	1.57E2*S	47	1.0792	5	0.00151	0.8	E3GAL
10100404	Electric Generation Grade 6 Oil: Tangential Firing	(5.9E0*(1.12*S+0.37))+(1.500E0)	(4.3E0*(1.12*S+0.37))+(1.500E0)	1.57E2*S	32	1.0792	5	0.00151	0.8	E3GAL
10100405	Electric Generation Grade 5 Oil: Normal Firing	(5.9E0*A)+(1.50E0)	(4.3E0*A)+(1.50E0)	1.57E2*S	47		5	0.0024	0.8	E3GAL

Table 3
Source Classification Codes and Emission Factor Listing

SCC	PROCES DESCRIPTION	PM10 Lbs/unit	PM2.5 Lbs/unit	SO2 Lbs/unit	NOx Lbs/unit	VOC Lbs/unit	CO Lbs/unit	Lead Lbs/unit	Ammonia Lbs/unit	Units
10100406	Electric Generation Grade 5 Oil: Tangential Firing	(5.9E0*A)+(1.50E0)	(4.3E0*A)+(1.50E0)	1.57E2*S	32		5		0.8	E3GAL
10100501	Electric Generation Grades 1 and 2 Oil	2.3	1.55	1.42E2*S	24	0.2	5	0.00126	0.8	E3GAL
10100504	Electric Generation Grade 4 Oil: Normal Firing	(5.9E0*A)+(1.50E0)	(4.3E0*A)+(1.50E0)	1.5E2*S	47	1.1324	5	0.0004	0.8	E3GAL
10100505	Electric Generation Grade 4 Oil: Tangential Firing	6.5	5.1	1.5E2*S	32	1.1324	5	0.0004	0.8	E3GAL
10100601	Electric Generation Boilers > 100 Million Btu/hr except Tangential	7.6	7.6	0.6	280	5.5	84	0.0005	3.2	E6FT3
10100602	Electric Generation Boilers < 100 Million Btu/hr except Tangential	7.6	7.6	0.6	100	5.5	84	0.0005	3.2	E6FT3
10100604	Electric Generation Tangentially Fired Units	7.6	7.6	0.6	170	5.5	24	0.0005	3.2	E6FT3
10100701	Electric Generation Boilers > 100 Million Btu/hr	8.7	7.41	3.5	100	0.43	6.57			E6FT3
10100702	Electric Generation Boilers < 100 Million Btu/hr	8.7	7.41	3.5	100	0.43	6.57			E6FT3
10100801	Electric Generation All Boiler Sizes			3.9E1*S	21	0.07	0.6			TON
10100901	Electric Generation Bark-fired Boiler	((1.70E-02)+(5.00E-01))*9		0.225	1.98	0.153	5.4	0.000432		TON
10100902	Electric Generation Wood/Bark Fired Boiler	((1.70E-02)+(5.00E-01))*9		0.225	1.98	0.153	5.4	0.000432		TON
10100903	Electric Generation Wood-fired Boiler - Wet Wood (>=20% moisture)	((1.70E-02)+(2.90E-01))*9		0.225	1.98	0.153	5.4	0.000432		TON
10100908	Electric Generation Wood-fired Boiler - Dry Wood (<20% moisture)			0.025	0.49	0.017	0.6	0.000048		E6BTU
10100910	Electric Generation Fuel cell/Dutch oven boilers **			0.075	0.38	0.18	6.6			TON
10100911	Electric Generation Stoker boilers **			0.075	1.5	0.22	13.6			TON
10100912	Electric Generation Fluidized bed combustion boilers			0.075	2		1.4			TON
10101001	Electric Generation Butane	1.14	1.14	9.5E-2*S	21	0.26	3.6			E3GAL

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Table 3
Source Classification Codes and Emission Factor Listing

SCC	PROCES DESCRIPTION	PM10 Lbs/unit	PM2.5 Lbs/unit	SO2 Lbs/unit	NOx Lbs/unit	VOC Lbs/unit	CO Lbs/unit	Lead Lbs/unit	Ammonia Lbs/unit	Units
10101002	Electric Generation Propane	1.11	0.848	9.5E-2*S	19	0.459	3.1			E3GAL
10101101	Electric Generation All Boiler Sizes				1.2					TON
10101201	Electric Generation Specify Waste Material in Comments							0.265		TON
10101202	Electric Generation Refuse Derived Fuel			1.7	5		3.6			TON
10101301	Electric Generation Specify Waste Material in Comments					1				E3GAL
10101302	Electric Generation Waste Oil			1.47E2*S	19	1	5	2.2		E3GAL
10200101	Industrial Pulverized Coal	((1E-1*S-3E-2)*24.6)+(2.3E0*A)		3.9E1*S	18	0.07	0.6	0.0089	0.000565	TON
10200104	Industrial Traveling Grate (Overfeed) Stoker	(4.800E0)+(8E-2*A)	(2.500E0)+(8E-2*A)		9	0.07	0.6	0.0089	0.000565	TON
10200107	Industrial Hand-fired			3.9E1*S	3	10	90	0.0089	0.000565	TON
10200117	Industrial Fluidized Bed Boiler Burning Anthracite-Culm Fuel			2.9	1.8		0.3		0.000565	TON
10200201	Industrial Pulverized Coal: Wet Bottom	((1E-1*S-3E-2)*26)+(2.6E0*A)		3.8E1*S	31	0.0328	0.5	0.013182	0.000565	TON
10200202	Industrial Pulverized Coal: Dry Bottom	((1E-1*S-3E-2)*26)+(2.3E0*A)		3.8E1*S	22	0.0492	0.5	0.0142	0.000565	TON
10200203	Industrial Cyclone Furnace	((1E-1*S-3E-2)*26)+(2.6E-1*A)		3.8E1*S	33	0.0902	0.5	0.013182	0.000565	TON
10200204	Industrial Spreader Stoker	14.2	5.64	3.8E1*S	11	0.041	5	0.013182	0.000565	TON
10200205	Industrial Overfeed Stoker	7.04	3.24	3.8E1*S	7.5	0.041	6	0.013182	0.000565	TON
10200206	Industrial Underfeed Stoker	7.24	4.84	3.1E1*S	9.5	1.066	11	0.013182	0.000565	TON
10200210	Industrial Overfeed Stoker **	7.04	3.24	3.9E1*S	7.5	0.07	6	0.0133	0.000565	TON

Table 3
Source Classification Codes and Emission Factor Listing

SCC	PROCES DESCRIPTION	PM10 Lbs/unit	PM2.5 Lbs/unit	SO2 Lbs/unit	NOx Lbs/unit	VOC Lbs/unit	CO Lbs/unit	Lead Lbs/unit	Ammonia Lbs/unit	Units
10200212	Industrial Pulverized Coal: Dry Bottom (Tangential)	((1E-1*S-3E-2)*26)+(2.3E0*A)		3.8E1*S	15	0.0492	0.5		0.000565	TON
10200213	Industrial Wet Slurry								0.000565	TON
10200217	Industrial Atmospheric Fluidized Bed Combustion: Bubbling Bed (Bituminous Coal)	12.9	1.88		15.2	0.041	18		0.000565	TON
10200218	Industrial Atmospheric Fluidized Bed Combustion: Circulating Bed (Bitum. Coal)	12.9	1.88		5		18		0.000565	TON
10200219	Industrial Cogeneration (Bituminous Coal)	((1E-1*S-3E-2)*26)+(2.3E0*A)		3.9E1*S	15	0.07	0.6		0.000565	TON
10200221	Industrial Pulverized Coal: Wet Bottom (Subbituminous Coal)			3.5E1*S	24		0.5	0.01014	0.000565	TON
10200222	Industrial Pulverized Coal: Dry Bottom (Subbituminous Coal)			3.5E1*S	12		0.5	0.01014	0.000565	TON
10200223	Industrial Cyclone Furnace (Subbituminous Coal)			3.5E1*S	17		0.5	0.01014	0.000565	TON
10200224	Industrial Spreader Stoker (Subbituminous Coal)	14	5.4	3.5E1*S	8.8		5	0.01014	0.000565	TON
10200225	Industrial Traveling Grate (Overfeed) Stoker (Subbituminous Coal)	6.8	3	3.5E1*S	7.5		6	0.01014	0.000565	TON
10200226	Industrial Pulverized Coal: Dry Bottom Tangential (Subbituminous Coal)			3.5E1*S	8.4		0.5		0.000565	TON
10200229	Industrial Cogeneration (Subbituminous Coal)			3.5E1*S	14.4	0.06	0.6		0.000565	TON
10200300	Industrial Pulverized Coal: Wet Bottom								0.000565	TON
10200301	Industrial Pulverized Coal: Dry Bottom, Wall Fired			3E1*S		0.07			0.000565	TON
10200302	Industrial Pulverized Coal: Dry Bottom, Tangential Fired			3E1*S		0.07	0.6		0.000565	TON
10200303	Industrial Cyclone Furnace			3E1*S		0.07	0.6		0.000565	TON
10200304	Industrial Traveling Grate (Overfeed) Stoker	(1.070E0*A)+6.400E-1	(4.066E-1*A)+6.400E-1	3E1*S	6	0.07	6		0.000565	TON
10200306	Industrial Spreader Stoker	(1.600E0*A)+6.400E-1	(5.600E-1*A)+6.400E-1	3E1*S		0.07	5		0.000565	TON

Table 3
Source Classification Codes and Emission Factor Listing

SCC	PROCES DESCRIPTION	PM10 Lbs/unit	PM2.5 Lbs/unit	SO2 Lbs/unit	NOx Lbs/unit	VOC Lbs/unit	CO Lbs/unit	Lead Lbs/unit	Ammonia Lbs/unit	Units
10200307	Industrial Cogeneration	(2.3E0*A)+6.400E-1	(6.600E-1*A)+6.400E-1	3E1*S	7.3	0.07	0.6		0.000565	TON
10200401	Industrial Grade 6 Oil	8.03E0*S+4.15E0	5.23E0*S+3.23E0	1.57E2*S	47	0.3976	5	0.0015	0.8	E3GAL
10200402	Industrial 10-100 Million Btu/hr **	(7.17E0*(1.12*S+0.37))+(1.50E0)	(4.67E0*(1.12*S+0.37))+(1.50E0)	1.57E2*S	55	0.3976	5	0.0015	0.8	E3GAL
10200403	Industrial < 10 Million Btu/hr **	(7.17E0*A)+(1.50E0)	(4.67E0*A)+(1.50E0)	1.57E2*S	55		5		0.8	E3GAL
10200404	Industrial Grade 5 Oil	10.1	7.1	1.57E2*S	47		5		0.8	E3GAL
10200405	Industrial Cogeneration	(7.90E0*S+2.77E0)+1.50E0	(1.226*S+1.803E0)+1.50E0	1.586E2*S	55	0.28	5	0.0015	0.8	E3GAL
10200501	Industrial Grades 1 and 2 Oil	2.3	1.55	1.42E2*S	24	0.298	5	0.00126	0.8	E3GAL
10200502	Industrial 10-100 Million Btu/hr **	2.3	1.55	1.42E2*S	20	0.298	5	0.0012	0.8	E3GAL
10200503	Industrial < 10 Million Btu/hr **	2.3	1.55	1.42E2*S	20	0.298	5	0.0012	0.8	E3GAL
10200504	Industrial Grade 4 Oil	7.5	5.4	1.5E2*S	47	0.298	5	0.0004	0.8	E3GAL
10200505	Industrial Cogeneration	2.3	1.55	1.436E2*S	20	0.2	5		0.8	E3GAL
10200601	Industrial > 100 Million Btu/hr	7.6	7.6	0.6	280	5.5	84	0.0005	3.2	E6FT3
10200602	Industrial 10-100 Million Btu/hr	7.6	7.6	0.6	100	5.5	84	0.0005	3.2	E6FT3
10200603	Industrial < 10 Million Btu/hr	7.6	7.6	0.6	100	5.5	84	0.0005	3.2	E6FT3
10200604	Industrial Cogeneration	7.6	7.6	0.6	170	5.5	24		3.2	E6FT3
10200699	Industrial IND BLR: NAT GAS			0.6	100	5.94	84			E6FT3
10200701	Industrial Petroleum Refinery Gas	8.7	8.7	9.5E2*S	140	2.8	35			E6FT3
10200704	Industrial Blast Furnace Gas	8.6	8.6	9.5E2*S	23		13.7			E6FT3

Table 3
Source Classification Codes and Emission Factor Listing

SCC	PROCES DESCRIPTION	PM10 Lbs/unit	PM2.5 Lbs/unit	SO2 Lbs/unit	NOx Lbs/unit	VOC Lbs/unit	CO Lbs/unit	Lead Lbs/unit	Ammonia Lbs/unit	Units
10200707	Industrial Coke Oven Gas	10.1	8.92	6.8E2*S	80	1.2	18.4			E6FT3
10200710	Industrial Cogeneration					2.8				E6FT3
10200802	Industrial All Boiler Sizes			3.9E1*S	14	0.07	0.6			TON
10200804	Industrial Cogeneration			3.9E1*S	14	0.07	0.6			TON
10200901	Industrial Bark-fired Boiler			((1.70E-02)+(5.00E-01))*9	1.98	0.153	5.4	0.000432		TON
10200902	Industrial Wood/Bark-fired Boiler			((1.70E-02)+(5.00E-01))*9	1.98	0.153	5.4	0.000432		TON
10200903	Industrial Wood-fired Boiler - Wet Wood (>=20% moisture)			((1.70E-02)+(2.90E-01))*9	1.98	0.153	5.4	0.000432		TON
10200904	Industrial Bark-fired Boiler (< 50,000 Lb Steam) **			0.07	1.5	0.22	13.6	0.0029		TON
10200905	Industrial Wood/Bark-fired Boiler (< 50,000 Lb Steam) **			0.07	1.5	1.4	13.6			TON
10200906	Industrial Wood-fired Boiler (< 50,000 Lb Steam) **			0.07	1.5	1.4	13.6			TON
10200907	Industrial Wood Cogeneration			0.15	2.8	1.4	4			TON
10200908	Industrial Wood-fired Boiler - Dry Wood (<20% moisture)			0.025	0.49	0.017	0.6	0.000048		E6BTU
10200910	Industrial Fuel cell/Dutch oven boilers **			0.075	0.38	0.18	6.6			TON
10200911	Industrial Stoker boilers **			0.075	1.5	0.22	13.6			TON
10200912	Industrial Fluidized bed combustion boiler			0.075	2		1.4			TON
10201001	Industrial Butane	1.14	1.14	9.000E-2*S	21	0.648	3.6			E3GAL
10201002	Industrial Propane	1.11	1.11	1.000E-1*S	19	0.54	3.2			E3GAL
10201101	Industrial All Boiler Sizes				1.2					TON

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SCC	PROCES DESCRIPTION	PM10 Lbs/unit	PM2.5 Lbs/unit	SO2 Lbs/unit	NOx Lbs/unit	VOC Lbs/unit	CO Lbs/unit	Lead Lbs/unit	Ammonia Lbs/unit	Units
10201201	Industrial Specify Waste Material in Comments			1.6	5.9	2				TON
10201202	Industrial Refuse Derived Fuel			1.7	5		3.6	0.13		TON
10201301	Industrial Specify Waste Material in Comments			28	23	1				E3GAL
10201302	Industrial Waste Oil			1.47E2*S	19	1.42	5	2.2		E3GAL
10201401	Industrial Natural Gas			0.6	140	2.8	35			E6FT3
10201402	Industrial Process Gas			9.5E2*S	140	2.8	35			E6FT3
10201403	Industrial Distillate Oil			1.436E2*S	20	0.2	5			E3GAL
10201404	Industrial Residual Oil			1.586E2*S	55	0.28	5			E3GAL
10300101	Commercial/Institutional Pulverized Coal	((1E-1*S-3E-2)*24.6)+(2.3E0*A)		3.9E1*S	18	0.07	0.6	0.0089	0.000565	TON
10300102	Commercial/Institutional Traveling Grate (Overfeed) Stoker	(4.800E0)+(8E-2*A)	(2.500E0)+(8E-2*A)		9	0.07	0.6	0.0089	0.000565	TON
10300103	Commercial/Institutional Hand-fired			3.9E1*S	3	10	90	0.0089	0.000565	TON
10300203	Commercial/Institutional Cyclone Furnace (Bituminous Coal)			3.8E1*S	33		0.5	0.013182	0.000565	TON
10300205	Commercial/Institutional Pulverized Coal: Wet Bottom (Bituminous Coal)	((1E-1*S-3E-2)*26)+(2.6E0*A)		3.8E1*S	31	0.04	0.5	0.013182	0.000565	TON
10300206	Commercial/Institutional Pulverized Coal: Dry Bottom (Bituminous Coal)	((1E-1*S-3E-2)*26)+(2.3E0*A)		3.8E1*S	22	0.06	0.5	0.013182	0.000565	TON
10300207	Commercial/Institutional Overfeed Stoker (Bituminous Coal)	7.04	3.24	3.8E1*S	7.5	0.05	6	0.013182	0.000565	TON
10300208	Commercial/Institutional Underfeed Stoker (Bituminous Coal)	7.24	4.84	3.1E1*S	9.5	1.3	11	0.0142	0.000565	TON
10300209	Commercial/Institutional Spreader Stoker (Bituminous Coal)	14.2	5.64	3.8E1*S	11	0.05	5	0.013182	0.000565	TON
10300211	Commercial/Institutional Overfeed Stoker **	7.04	3.24	3.9E1*S	7.5	0.07	6		0.000565	TON

Table 3
Source Classification Codes and Emission Factor Listing

SCC	PROCES DESCRIPTION	PM10 Lbs/unit	PM2.5 Lbs/unit	SO2 Lbs/unit	NOx Lbs/unit	VOC Lbs/unit	CO Lbs/unit	Lead Lbs/unit	Ammonia Lbs/unit	Units
10300214	Commercial/Institutional Hand-fired (Bituminous Coal)			3.1E1*S	9.1	10	275	0.0142	0.000565	TON
10300216	Commercial/Institutional Pulverized Coal: Dry Bottom (Tangential) (Bituminous Coal)	((1E-1*S-3E-2)*26)+(2.3E0*A)		3.8E1*S	15	0.06	0.5		0.000565	TON
10300217	Commercial/Institutional Atmospheric Fluidized Bed Combustion: Bubbling Bed (Bituminous Coal)	12.9	1.88		15.2	0.05	18		0.000565	TON
10300218	Commercial/Institutional Atmospheric Fluidized Bed Combustion: Circulating Bed (Bitum. Coal)	12.9	1.88		5		18		0.000565	TON
10300221	Commercial/Institutional Pulverized Coal: Wet Bottom (Subbituminous Coal)			3.5E1*S	24		0.5	0.01014	0.000565	TON
10300222	Commercial/Institutional Pulverized Coal: Dry Bottom (Subbituminous Coal)			3.5E1*S	12		0.5	0.01014	0.000565	TON
10300223	Commercial/Institutional Cyclone Furnace (Subbituminous Coal)			3.5E1*S	17		0.5	0.01014	0.000565	TON
10300224	Commercial/Institutional Spreader Stoker (Subbituminous Coal)	14	5.4	3.5E1*S	8.8		5	0.01014	0.000565	TON
10300225	Commercial/Institutional Traveling Grate (Overfeed) Stoker (Subbituminous Coal)	6.8	3	3.5E1*S	7.5		6	0.01014	0.000565	TON
10300226	Commercial/Institutional Pulverized Coal: Dry Bottom Tangential (Subbituminous Coal)			3.5E1*S	8.4		0.5		0.000565	TON
10300300	Commercial/Institutional Pulverized Coal: Wet Bottom								0.000565	TON
10300305	Commercial/Institutional Pulverized Coal: Dry Bottom, Wall Fired			3E1*S		0.07			0.000565	TON
10300306	Commercial/Institutional Pulverized Coal: Dry Bottom, Tangential Fired			3E1*S		0.07	0.6		0.000565	TON
10300307	Commercial/Institutional Traveling Grate (Overfeed) Stoker	(1.070E0*A)+6.400E-1	(4.066E-1*A)+6.400E-1	3E1*S	6	0.07	6		0.000565	TON
10300309	Commercial/Institutional Spreader Stoker	(1.600E0*A)+6.400E-1	(5.600E-1*A)+6.400E-1	3E1*S		0.07	5		0.000565	TON
10300401	Commercial/Institutional Grade 6 Oil	5.17E0*(1.12*S+0.37)+(1.50E0)	1.92E0*(1.12*S+0.37)+(1.50E0)	1.57E2*S	47	1.6046	5	0.0015	0.8	E3GAL
10300402	Commercial/Institutional 10-100 Million Btu/hr **	(5.17E0*A)+(1.50E0)	(1.92E0*A)+(1.50E0)	1.57E2*S	55	1.6046	5	0.0015	0.8	E3GAL

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Table 3
Source Classification Codes and Emission Factor Listing

SCC	PROCES DESCRIPTION	PM10 Lbs/unit	PM2.5 Lbs/unit	SO2 Lbs/unit	NOx Lbs/unit	VOC Lbs/unit	CO Lbs/unit	Lead Lbs/unit	Ammonia Lbs/unit	Units
10300403	Commercial/Institutional < 10 Million Btu/hr **	(5.17E0*A)+(1.50E0)	(1.92E0*A)+(1.50E0)	1.57E2*S	55		5		0.8	E3GAL
10300404	Commercial/Institutional Grade 5 Oil	7.7	3.8	1.57E2*S	55		5		0.8	E3GAL
10300501	Commercial/Institutional Grades 1 and 2 Oil	2.38	2.13	1.42E2*S	24	0.5066	5	0.00126	0.8	E3GAL
10300502	Commercial/Institutional 10-100 Million Btu/hr **	2.38	2.13	1.42E2*S	20	0.5066	5		0.8	E3GAL
10300503	Commercial/Institutional < 10 Million Btu/hr **	2.38	2.13	1.42E2*S	20	0.5066	5		0.8	E3GAL
10300504	Commercial/Institutional Grade 4 Oil	2.38	2.13	1.5E2*S	20	0.5066	5	0.0004	0.8	E3GAL
10300601	Commercial/Institutional > 100 Million Btu/hr	7.6	7.6	0.6	280	5.5	84	0.0005	0.49	E6FT3
10300602	Commercial/Institutional 10-100 Million Btu/hr	7.6	7.6	0.6	100	5.5	84	0.0005	0.49	E6FT3
10300603	Commercial/Institutional < 10 Million Btu/hr	7.6	7.6	0.6	100	5.5	84	0.0005	0.49	E6FT3
10300701	Commercial/Institutional POTW Digester Gas-fired Boiler			4.5		3				E6FT3
10300901	Commercial/Institutional Bark-fired Boiler	((1.70E-02)+(5.00E-01))*9		0.225	1.98	0.153	5.4	0.000432		TON
10300902	Commercial/Institutional Wood/Bark-fired Boiler	((1.70E-02)+(5.00E-01))*9		0.225	1.98	0.153	5.4	0.000432		TON
10300903	Commercial/Institutional Wood-fired Boiler - Wet Wood (>=20% moisture)	((1.70E-02)+(2.90E-01))*9		0.225	1.98	0.153	5.4	0.000432		TON
10300908	Commercial/Institutional Wood-fired Boiler - Dry Wood (<20% moisture)			0.025	0.49	0.017	0.6	0.000048		E6BTU
10300910	Commercial/Institutional Fuel cell/Dutch oven boilers **			0.075	0.38	0.18	6.6			TON
10300911	Commercial/Institutional Stoker boilers **			0.075	1.5	0.22	13.6			TON
10300912	Commercial/Institutional Fluidized bed combustion boilers			0.075	2		1.4			TON
10301001	Commercial/Institutional Butane	1.04	1.04	9.000E-2*S	15	0.5	2.1			E3GAL

Table 3
Source Classification Codes and Emission Factor Listing

SCC	PROCES DESCRIPTION	PM10 Lbs/unit	PM2.5 Lbs/unit	SO2 Lbs/unit	NOx Lbs/unit	VOC Lbs/unit	CO Lbs/unit	Lead Lbs/unit	Ammonia Lbs/unit	Units
10301002	Commercial/Institutional Propane	0.906	0.906	1.000E-1*S	14	0.5076	1.9			E3GAL
10301201	Commercial/Institutional Specify Waste Material in Comments			1.6	5.9	2				TON
10301202	Commercial/Institutional Refuse Derived Fuel			1.7	5		3.6	0.13		TON
10301301	Commercial/Institutional Specify Waste Material in Comments					1				E3GAL
10301302	Commercial/Institutional Waste Oil			1.47E2*S	19	0.142	5	2.2		E3GAL
10500101	Space Heaters IND SPACE HEATER:ANT COAL			39*S	18	0.0574	0.6	0.0133		TON
10500102	Space Heaters Coal **			3.9E1*S	3				0.000565	TON
10500105	Space Heaters Distillate Oil	3.76	1.92	1.436E2*S	20	0.298	5	0.0012	0.8	E3GAL
10500106	Space Heaters Natural Gas	8.7	8.7	0.6	100	5.3	20			E6FT3
10500110	Space Heaters Liquified Petroleum Gas (LPG)	1.13	1.13	9.5E-2*S	20	0.54	3.4			E3GAL
10500113	Space Heaters Waste Oil: Air Atomized Burner	(5.700E1*A)+1.500E0	(4.554E1*A)+1.50E0	1.07E2*S	16	1	2.1	2		E3GAL
10500114	Space Heaters Waste Oil: Vaporizing Burner	(2.49E0*A)+1.50E0	(1.93E0*A)+1.50E0	1E2*S	11	1	1.7	0.0164		E3GAL
10500201	Space Heaters COM SPACE HEATER:ANT COAL			39*S	18	0.07	0.6	0.0133		TON
10500202	Space Heaters Coal **			3.9E1*S	3				0.000565	TON
10500205	Space Heaters Distillate Oil	3.76	1.92	1.436E2*S	20	0.7	5	0.0012	0.8	E3GAL
10500206	Space Heaters Natural Gas	8.7	8.7	0.6	100	5.3	20			E6FT3
10500209	Space Heaters Wood			0.075	1.5	1.4	13.6			TON
10500210	Space Heaters Liquified Petroleum Gas (LPG)	0.976	0.976	9.5E-2*S	14.5	0.54	2			E3GAL

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Table 3
Source Classification Codes and Emission Factor Listing

SCC	PROCES DESCRIPTION	PM10 Lbs/unit	PM2.5 Lbs/unit	SO2 Lbs/unit	NOx Lbs/unit	VOC Lbs/unit	CO Lbs/unit	Lead Lbs/unit	Ammonia Lbs/unit	Units
10500213	Space Heaters Waste Oil: Air Atomized Burner	(5.700E1*A)+1.500E0	(4.554E1*A)+1.50E0	1.07E2*S	16	1	2.1	2		E3GAL
10500214	Space Heaters Waste Oil: Vaporizing Burner	(2.49E0*A)+1.50E0	(1.93E0*A)+1.50E0	1E2*S	11	1	1.7	0.0164		E3GAL
20100101	Electric Generation Turbine			(1.01E0*S)*140	123.2	0.0574	0.462	0.00196		E3GAL
20100102	Electric Generation Reciprocating			39.7	604	57.96	130			E3GAL
20100201	Electric Generation Turbine	0.31	0.19	(9.4E-1*S)*1000	320	2.1	82			E6FT3
20100202	Electric Generation Reciprocating	20.1	20.1	0.6	2840	116	399			E6FT3
20100901	Electric Generation Turbine			(1.01*S)*135	118.8	0.0684	0.4455	0.0019		E3GAL
20100902	Electric Generation Reciprocating			39.15	595.35	42.75	128.25			E3GAL
20200101	Industrial Turbine			(1.01E0*S)*140	123.2	0.0574	0.462	0.00196		E3GAL
20200102	Industrial Reciprocating			39.7	604	57.96	130			E3GAL
20200103	Industrial Turbine: Cogeneration			(1.01E0*S)*140	123.2	0.0574	0.462	0.00196		E3GAL
20200104	Industrial Reciprocating: Cogeneration			39.7	604	57.96	130			E3GAL
20200201	Industrial Turbine			(9.4E-1*S)*1000	320	2.1	82			E6FT3
20200202	Industrial Reciprocating	20.1	20.1	0.6	2840	116	399			E6FT3
20200203	Industrial Turbine: Cogeneration			(9.4E-1*S)*1000	320	2.1	82			E6FT3
20200204	Industrial Reciprocating: Cogeneration	20.1	20.1	0.6	2840	116	399			E6FT3
20200252	Industrial 2-cycle Lean Burn	48.3	48.3	0.588	3170	120	386			E6FT3
20200253	Industrial 4-cycle Rich Burn	19.4	19.4	0.588	2270	29.6	3720			E6FT3

Table 3
Source Classification Codes and Emission Factor Listing

SCC	PROCES DESCRIPTION	PM10 Lbs/unit	PM2.5 Lbs/unit	SO2 Lbs/unit	NOx Lbs/unit	VOC Lbs/unit	CO Lbs/unit	Lead Lbs/unit	Ammonia Lbs/unit	Units
20200254	Industrial 4-cycle Lean Burn	9.99	9.99	0.588	4080	118	557			E6FT3
20200301	Industrial Reciprocating			10.6	205	281.1	7900			E3GAL
20200401	Industrial Diesel	7.85	7.55	1.38E2*S	438	11.5	116			E3GAL
20200402	Industrial Dual Fuel (Oil/Gas)	57.3	55.6							E6FT3
20200403	Industrial Cogeneration: Dual Fuel	0.0573	0.0556							E6BTU
20200501	Industrial Reciprocating			1.55E2*S	604	32.1	130			E3GAL
20200901	Industrial Turbine	1.593	1.4985	(1.01*S)*135	118.8	5.4378	0.4455			E3GAL
20200902	Industrial Reciprocating			39.15	595.35	42.75	128.25			E3GAL
20300101	Commercial/Institutional Reciprocating			39.7	604	57.96	130			E3GAL
20300102	Commercial/Institutional Turbine			(1.01E0*S)*140	123.2	0.0574	0.462	0.00196		E3GAL
20300103	Commercial/Institutional COM/INS TURB:#2 OIL,COGEN			141.4*S	97.72	2.7132	6.72	0.0081		E3GAL
20300201	Commercial/Institutional Reciprocating	20.1	20.1	0.6	2840	116	399			E6FT3
20300202	Commercial/Institutional Turbine			(9.4E-1*S)*1000	320	2.1	82			E6FT3
20300203	Commercial/Institutional Turbine: Cogeneration			(9.4E-1*S)*1000	320	2.1	82			E6FT3
20300301	Commercial/Institutional Reciprocating			10.6	205	282.1	7900			E3GAL
20300701	Commercial/Institutional Turbine	0.0148	0.0148	0.0065	0.16	0.0058	0.017	0.0000034		E6BTU
20300801	Commercial/Institutional Turbine	0.0248	0.0248	0.045	0.14	0.013	0.44			E6BTU
20301001	Commercial/Institutional Propane: Reciprocating			0.35	139	34.03	129			E3GAL

Table 3
Source Classification Codes and Emission Factor Listing

SCC	PROCES DESCRIPTION	PM10 Lbs/unit	PM2.5 Lbs/unit	SO2 Lbs/unit	NOx Lbs/unit	VOC Lbs/unit	CO Lbs/unit	Lead Lbs/unit	Ammonia Lbs/unit	Units
20301002	Commercial/Institutional Butane: Reciprocating			0.35	139	34.03	129			E3GAL
20400101	Engine Testing Turbojet			13	14.6	52.44	32.7			E3GAL
20400102	Engine Testing Turboshaft			13	14.6	52.44	32.7			E3GAL
20400110	Engine Testing Jet A Fuel			13	14.6	46	32.7			E3GAL
20400111	Engine Testing JP-5 Fuel			13	14.6	46	32.7			E3GAL
20400112	Engine Testing JP-4 Fuel			13	14.6	46	32.7			E3GAL
20400199	Engine Testing Other Not Classified			13	14.6	46	32.7			E3GAL
20400301	Engine Testing Natural Gas	18.8	18.8	0.6	300	6.9	120			E6FT3
20400302	Engine Testing Diesel/Kerosene			1.4E2*S	97.7	1.9557	6.72			E3GAL
20400401	Engine Testing Gasoline			5.31	102	148	3940			E3GAL
20400402	Engine Testing Diesel/Kerosene			39.7	604	32.1	130			E3GAL
30100101	Chemical Manufacturing General					42.7	115			TON
30100102	Chemical Manufacturing Raw Material Storage					2.2				TON
30100103	Chemical Manufacturing Cyclohexane Oxidation				1.4	0.55	0.49			TON
30100104	Chemical Manufacturing Nitric Acid Reaction				1.6	0.014	0.28			TON
30100105	Chemical Manufacturing Adipic Acid Refining				0.6	0.5				TON
30100106	Chemical Manufacturing Drying, Loading, and Storage					0.1				TON
30100107	Chemical Manufacturing Absorber				94.8	0.4				TON

Table 3
Source Classification Codes and Emission Factor Listing

SCC	PROCES DESCRIPTION	PM10 Lbs/unit	PM2.5 Lbs/unit	SO2 Lbs/unit	NOx Lbs/unit	VOC Lbs/unit	CO Lbs/unit	Lead Lbs/unit	Ammonia Lbs/unit	Units
30100180	Chemical Manufacturing Fugitive Emissions: General					61800				EACH
30100305	Chemical Manufacturing Feedstock Desulfurization			0.0576		7.2	13.8			TON
30100306	Chemical Manufacturing Primary Reformer: Natural Gas Fired			0.0048	5.4	0.012	0.136			TON
30100307	Chemical Manufacturing Primary Reformer: Oil Fired			2.6	5.4	0.38	0.24			TON
30100308	Chemical Manufacturing Carbon Dioxide Regenerator					1.04	2		2	TON
30100309	Chemical Manufacturing Condensate Stripper					1.2			2.2	TON
30100504	Chemical Manufacturing Oil Furnace Process: Main Process Vent				0.56	100	2800			TON
30100507	Chemical Manufacturing Pellet Dryer				0.73	0.4				TON
30100510	Chemical Manufacturing Main Process Vent with CO Boiler and Incinerator			35.2	9.3	1.98	1.75			TON
30100601	Chemical Manufacturing General				24	276.32	344			TON
30100603	Chemical Manufacturing Batch Kiln				24	270	290			TON
30100604	Chemical Manufacturing Continuous Kiln				24	270	290			TON
30100901	Chemical Manufacturing Spray Drying: Soaps and Detergents					0.05				TON
30101011	Chemical Manufacturing Batch Process: Nitration Reactors Fume Recovery				25					TON
30101012	Chemical Manufacturing Batch Process: Nitration Reactors Acid Recovery				55					TON
30101013	Chemical Manufacturing Batch Process: Nitric Acid Concentrators				37					TON
30101014	Chemical Manufacturing Batch Process: Sulfuric Acid Concentrators			14	40					TON
30101015	Chemical Manufacturing Batch Process: Red Water			2	26	1.1				TON

Table 3
Source Classification Codes and Emission Factor Listing

SCC	PROCES DESCRIPTION	PM10 Lbs/unit	PM2.5 Lbs/unit	SO2 Lbs/unit	NOx Lbs/unit	VOC Lbs/unit	CO Lbs/unit	Lead Lbs/unit	Ammonia Lbs/unit	Units
	Incinerator									
30101021	Chemical Manufacturing Continuous Process: Nitration Reactor Fume Recover **(Use 3-01-010-51)				8					TON
30101022	Chemical Manufacturing Continuous Process: Nitration Reactor Acid Recover **(Use 3-01-010-52)				3					TON
30101023	Chemical Manufacturing Continuous Process: Red Water Incinerator ** (Use 3-01-010-53)			0.24	7	1.1				TON
30101030	Chemical Manufacturing Open Burning: Waste				150	1.1	56			TON
30101202	Chemical Manufacturing Rotary Kiln: Acid Reactor			2.7	0.07					TON
30101203	Chemical Manufacturing Fluorspar Grinding/Drying				0.145					TON
30101206	Chemical Manufacturing Tail Gas Vent			45						TON
30101301	Chemical Manufacturing Absorber Tail Gas (Pre-1970 Facilities)				43					TON
30101302	Chemical Manufacturing Absorber Tail Gas (Post-1970 Facilities)				57					TON
30101303	Chemical Manufacturing Nitric Acid Concentrators (Pre-1970)				10					TON
30101304	Chemical Manufacturing Nitric Acid Concentrators (Post-1970)				10					TON
30101401	Chemical Manufacturing General Mixing and Handling					30				TON
30101501	Chemical Manufacturing Bodying Oil					40				TON
30101502	Chemical Manufacturing Oleoresinous					150				TON
30101503	Chemical Manufacturing Alkyd					160				TON
30101505	Chemical Manufacturing Acrylic					20				TON
30101801	Chemical Manufacturing Polyvinyl Chlorides and Copolymers ** (Use 6-46-3X0-XX)			0.025	200	17				TON

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Table 3
Source Classification Codes and Emission Factor Listing

SCC	PROCES DESCRIPTION	PM10 Lbs/unit	PM2.5 Lbs/unit	SO2 Lbs/unit	NOx Lbs/unit	VOC Lbs/unit	CO Lbs/unit	Lead Lbs/unit	Ammonia Lbs/unit	Units
30101802	Chemical Manufacturing Polypropylene and Copolymers				131	0.7				TON
30101805	Chemical Manufacturing Phenolic Resins					0.000067				
30101809	Chemical Manufacturing Extruder					11				TON
30101810	Chemical Manufacturing Conveying					0.46				TON
30101811	Chemical Manufacturing Storage					0.01				TON
30101814	Chemical Manufacturing Extruder					66				TON
30101817	Chemical Manufacturing General					6.68				TON
30101819	Chemical Manufacturing Solvent Recovery					3.2				TON
30101821	Chemical Manufacturing Extruding/Pelletizing/Conveying/Storage					0.3				TON
30101827	Chemical Manufacturing Polyamide Resins				1					TON
30101832	Chemical Manufacturing Urea-Formaldehyde Resins					14.7				TON
30101837	Chemical Manufacturing Polyester Resins					0.5				TON
30101842	Chemical Manufacturing Melamine Resins					50				TON
30101847	Chemical Manufacturing Epoxy Resins					5.1				TON
30101849	Chemical Manufacturing Acrylonitrile-Butadiene-Styrene (ABS) Resin					60				TON
30101870	Chemical Manufacturing Reactor (Polyether Resins)					50				TON
30101880	Chemical Manufacturing Reactor (Polyurethane)					52				TON
30101892	Chemical Manufacturing Separation Processes					2				TON

Table 3
Source Classification Codes and Emission Factor Listing

SCC	PROCES DESCRIPTION	PM10 Lbs/unit	PM2.5 Lbs/unit	SO2 Lbs/unit	NOx Lbs/unit	VOC Lbs/unit	CO Lbs/unit	Lead Lbs/unit	Ammonia Lbs/unit	Units
30101899	Chemical Manufacturing Others Not Specified					7.8				TON
30101901	Chemical Manufacturing o-Xylene Oxidation: Main Process Stream			94			301			TON
30101904	Chemical Manufacturing o-Xylene Oxidation: Distillation					2.4				TON
30101905	Chemical Manufacturing Naphthalene Oxidation: Main Process Stream						100			TON
30101907	Chemical Manufacturing Naphthalene Oxidation: Distillation					10				TON
30102001	Chemical Manufacturing Vehicle Cooking: General					120				TON
30102002	Chemical Manufacturing Vehicle Cooking: Oils					40				TON
30102003	Chemical Manufacturing Vehicle Cooking: Oleoresin					150				TON
30102004	Chemical Manufacturing Vehicle Cooking: Alkyds					160				TON
30102005	Chemical Manufacturing Pigment Mixing					6.2				TON
30102105	Chemical Manufacturing Monohydrate Process: Rotary Ore Calciner: Coal-fired			0.01	1.4					TON
30102301	Chemical Manufacturing Absorber/@ 99.9% Conversion			1.4	0.004					TON
30102304	Chemical Manufacturing Absorber/@ 99.5% Conversion			7	0.004					TON
30102306	Chemical Manufacturing Absorber/@ 99.0% Conversion			14	0.004					TON
30102308	Chemical Manufacturing Absorber/@ 98.0% Conversion			26	0.004					TON
30102310	Chemical Manufacturing Absorber/@ 97.0% Conversion			40	0.004					TON
30102312	Chemical Manufacturing Absorber/@ 96.0% Conversion			55	0.004					TON
30102314	Chemical Manufacturing Absorber/@ 95.0% Conversion			70	0.004					TON

Table 3
Source Classification Codes and Emission Factor Listing

SCC	PROCES DESCRIPTION	PM10 Lbs/unit	PM2.5 Lbs/unit	SO2 Lbs/unit	NOx Lbs/unit	VOC Lbs/unit	CO Lbs/unit	Lead Lbs/unit	Ammonia Lbs/unit	Units
30102316	Chemical Manufacturing Absorber/@ 94.0% Conversion			82	0.004					TON
30102318	Chemical Manufacturing Absorber/@ 93.0% Conversion			9.6	0.004					TON
30102401	Chemical Manufacturing Nylon #6: Staple (Uncontrolled)					4.3				TON
30102402	Chemical Manufacturing Polyesters: Staple					1.2				TON
30102410	Chemical Manufacturing Acrylic: Uncontrolled					80				TON
30102414	Chemical Manufacturing Polyolefin: Melt Spun					74.2				TON
30102416	Chemical Manufacturing Aramid					4.3				TON
30102499	Chemical Manufacturing Other Not Classified					398				TON
30102505	Chemical Manufacturing Cellulose Acetate: Filer Tow					290				TON
30102601	Chemical Manufacturing General					5.2				TON
30102609	Chemical Manufacturing Dryers					5.02				TON
30102613	Chemical Manufacturing Monomer Recovery: Absorber Vent					0.52				TON
30102614	Chemical Manufacturing Blending Tanks					0.84				TON
30102616	Chemical Manufacturing Latex: Monomer Removal					16.9				TON
30102617	Chemical Manufacturing Latex: Blending Tank					0.2				TON
30102704	Chemical Manufacturing Neutralizer								36.02	TON
30102707	Chemical Manufacturing Rotary Drum Granulator								59.4	TON
30102708	Chemical Manufacturing Pan Granulator								0.14	TON

Table 3
Source Classification Codes and Emission Factor Listing

SCC	PROCES DESCRIPTION	PM10 Lbs/unit	PM2.5 Lbs/unit	SO2 Lbs/unit	NOx Lbs/unit	VOC Lbs/unit	CO Lbs/unit	Lead Lbs/unit	Ammonia Lbs/unit	Units
30102711	Chemical Manufacturing Neutralizer: High Density								36.02	TON
30102712	Chemical Manufacturing Prilling Tower: High Density								57.2	TON
30102714	Chemical Manufacturing Prilling Cooler: High Density								0.04	TON
30102717	Chemical Manufacturing Evaporator/Concentrator: High Density								33.4	TON
30102721	Chemical Manufacturing Neutralizer: Low Density								36.02	TON
30102722	Chemical Manufacturing Prilling Tower: Low Density								0.26	TON
30102724	Chemical Manufacturing Prilling Cooler: Low Density								0.3	TON
30102725	Chemical Manufacturing Prilling Dryer: Low Density								3.18	TON
30102727	Chemical Manufacturing Evaporator/Concentrator: Low Density								33.4	TON
30103000	Chemical Manufacturing Entire Plant								0.14	TON
30103001	Chemical Manufacturing Dryers and Coolers			3.1	1.7	0.03				TON
30103002	Chemical Manufacturing Ammoniator/Granulator			0.3						TON
30103102	Chemical Manufacturing Reactor Vent					30	34			TON
30103103	Chemical Manufacturing Crystallization, Separation, and Drying Vent					3.8				TON
30103104	Chemical Manufacturing Distillation and Recovery Vent					2.2				TON
30103105	Chemical Manufacturing Product Transfer Vent					3.6	4			TON
30103180	Chemical Manufacturing Fugitive Emissions					294000				EACH
30103201	Chemical Manufacturing Mod. Claus: 2 Stage w/o Control (92-95% Removal)			278	0.35	3				TON

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Table 3
Source Classification Codes and Emission Factor Listing

SCC	PROCES DESCRIPTION	PM10 Lbs/unit	PM2.5 Lbs/unit	SO2 Lbs/unit	NOx Lbs/unit	VOC Lbs/unit	CO Lbs/unit	Lead Lbs/unit	Ammonia Lbs/unit	Units
30103202	Chemical Manufacturing Mod. Claus: 3 Stage w/o Control (95-96% Removal)			188	0.1	9.1				TON
30103203	Chemical Manufacturing Mod. Claus: 4 Stage w/o Control (96-97% Removal)			145	0.1					TON
30103204	Chemical Manufacturing Sulfur Removal Process (99.9% Removal)				0.1	0.05				TON
30103301	Chemical Manufacturing Malathion					0.01				GAL
30103402	Chemical Manufacturing General: Aniline					0.2				TON
30103506	Chemical Manufacturing Lead Oxide: Barton Pot							0.44		TON
30103507	Chemical Manufacturing Lead Oxide: Calciner							14		TON
30103510	Chemical Manufacturing Red Lead							0.9		TON
30103515	Chemical Manufacturing White Lead							0.55		TON
30103520	Chemical Manufacturing Lead Chromate							0.13		TON
30103901	Chemical Manufacturing Air Heater: General					14				TON
30104002	Chemical Manufacturing Solution Concentration (Controlled)								18.5	TON
30104004	Chemical Manufacturing Drum Granulation					0.009			2.15	TON
30104008	Chemical Manufacturing Non-fluidized Bed Prilling (Agricultural Grade)								0.87	TON
30104010	Chemical Manufacturing Fluidized Bed Prilling (Agricultural Grade)					0.02			2.91	TON
30104011	Chemical Manufacturing Fluidized Bed Prilling (Feed Grade)					0.004			4.14	TON
30104012	Chemical Manufacturing Rotary Drum Cooler								0.051	TON
30104201	Chemical Manufacturing Recovery Furnace				2.67			55		TON

Table 3
Source Classification Codes and Emission Factor Listing

SCC	PROCES DESCRIPTION	PM10 Lbs/unit	PM2.5 Lbs/unit	SO2 Lbs/unit	NOx Lbs/unit	VOC Lbs/unit	CO Lbs/unit	Lead Lbs/unit	Ammonia Lbs/unit	Units
30104204	Chemical Manufacturing Sludge Pits							1.2		TON
30109105	Chemical Manufacturing Methyl Ethyl Ketone					2.4				TON
30109180	Chemical Manufacturing Acetone: Fugitive Emissions					452000				EACH
30110002	Chemical Manufacturing Product Recovery Absorber					174				TON
30110003	Chemical Manufacturing Vacuum System Vent					0.2				TON
30110004	Chemical Manufacturing Briquetting					2.5				TON
30110005	Chemical Manufacturing Secondary Sources: Dehydration Column, Vacuum System					0.2				TON
30110080	Chemical Manufacturing Fugitive Emissions					62300				EACH
30112001	Chemical Manufacturing Formaldehyde: Silver Catalyst					13	36			TON
30112002	Chemical Manufacturing Formaldehyde: Mixed Oxide Catalyst					16				TON
30112007	Chemical Manufacturing Formaldehyde: Fugitive Emissions					35700				EACH
30112011	Chemical Manufacturing Acetaldehyde from Ethylene					2.8				TON
30112012	Chemical Manufacturing Acetaldehyde from Ethanol					0.04	5.5			TON
30112013	Chemical Manufacturing Acetaldehyde: Off-air Absorber Vent					4.5				TON
30112014	Chemical Manufacturing Acetaldehyde: Off-gas Absorber Vent					5.6				TON
30112017	Chemical Manufacturing Acetaldehyde: Fugitive Emissions					165000				EACH
30112031	Chemical Manufacturing Acrolein: CO2 Stripping Tower					120				TON
30112032	Chemical Manufacturing Acrolein: Aqueous Acrolein Receiver					6				TON

Table 3
Source Classification Codes and Emission Factor Listing

SCC	PROCES DESCRIPTION	PM10 Lbs/unit	PM2.5 Lbs/unit	SO2 Lbs/unit	NOx Lbs/unit	VOC Lbs/unit	CO Lbs/unit	Lead Lbs/unit	Ammonia Lbs/unit	Units
30112033	Chemical Manufacturing Acrolein: Distillation System					15				TON
30112034	Chemical Manufacturing Acrolein: Refrigeration Unit					54				TON
30112401	Chemical Manufacturing General					11.2				TON
30112402	Chemical Manufacturing Butadiene Dryer					2.4				TON
30112403	Chemical Manufacturing Chlorination Reactor					0.47				TON
30112404	Chemical Manufacturing Dichlorobutene Still					7.8				TON
30112405	Chemical Manufacturing Isomerization and 3,4-DCB Recovery Vent					0.3				TON
30112406	Chemical Manufacturing Chloroprene Stripper					0.3				TON
30112407	Chemical Manufacturing Brine Stripper					0.3				TON
30112509	Chemical Manufacturing Ethylene Dichloride: Fugitive Emissions					182000				EACH
30112510	Chemical Manufacturing Chloromethanes: General					12.3				TON
30112511	Chemical Manufacturing Chloromethanes: Recycled Methane Inert-purge					4.2				TON
30112512	Chemical Manufacturing Chloromethanes: Drying Bed Regeneration Vent					0.1				TON
30112514	Chemical Manufacturing Chloromethanes: Fugitive Emissions					482000				EACH
30112520	Chemical Manufacturing Perchloroethylene: General					2.7				TON
30112521	Chemical Manufacturing Perchloroethylene: Distillation Vent					0.8				TON
30112524	Chemical Manufacturing Perchloroethylene: Fugitive Emissions					365000				EACH
30112525	Chemical Manufacturing Trichloroethane: General					5.2				TON

Table 3
Source Classification Codes and Emission Factor Listing

SCC	PROCES DESCRIPTION	PM10 Lbs/unit	PM2.5 Lbs/unit	SO2 Lbs/unit	NOx Lbs/unit	VOC Lbs/unit	CO Lbs/unit	Lead Lbs/unit	Ammonia Lbs/unit	Units
30112526	Chemical Manufacturing Trichloroethane: HCl Absorber Vent					0.2				TON
30112528	Chemical Manufacturing Trichloroethane: Distillation Column Vent					0.38				TON
30112530	Chemical Manufacturing Trichloroethylene: General					1.3				TON
30112534	Chemical Manufacturing Trichloroethylene: Fugitive Emissions					365000				EACH
30112540	Chemical Manufacturing Vinyl Chloride: General					6.5				TON
30112542	Chemical Manufacturing Vinyl Chloride: HCl Recovery					0.2				TON
30112543	Chemical Manufacturing Vinyl Chloride: Light-ends Recovery					2				TON
30112544	Chemical Manufacturing Dichloroethane: Drying Column					1				TON
30112545	Chemical Manufacturing Vinyl Chloride Monomer: Drying Column					1				TON
30112550	Chemical Manufacturing Vinyl Chloride: Fugitive Emissions					274000				EACH
30112552	Chemical Manufacturing Vinylidene Chloride: Dehydrochlorination Reactor					12.4				TON
30112553	Chemical Manufacturing Vinylidene Chloride: Distillation Column Vent					1.4				TON
30112555	Chemical Manufacturing Vinylidene Chloride: Fugitive Emissions					19000				EACH
30112556	Chemical Manufacturing Chloromethanes via MH & MCC Processes: Inert-gas Purge Vent					3				TON
30112557	Chemical Manufacturing Chloromethanes via MH & MCC Processes: Methylene Chloride Condenser					0.04				TON
30112558	Chemical Manufacturing Chloromethanes via MH & MCC Processes: Chloroform Condenser					0.01				TON
30112701	Chemical Manufacturing General					14.5				TON

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Table 3
Source Classification Codes and Emission Factor Listing

SCC	PROCES DESCRIPTION	PM10 Lbs/unit	PM2.5 Lbs/unit	SO2 Lbs/unit	NOx Lbs/unit	VOC Lbs/unit	CO Lbs/unit	Lead Lbs/unit	Ammonia Lbs/unit	Units
30112702	Chemical Manufacturing Distillation Column					12.7				TON
30112720	Chemical Manufacturing Chlorofluorocarbon 12/11					6.2				TON
30112730	Chemical Manufacturing Chlorofluorocarbon 23/22					38				TON
30112740	Chemical Manufacturing Chlorofluorocarbon 113/114					13.2				TON
30113004	Chemical Manufacturing Caprolactum By-product: Rotary Dryer					1.48				TON
30113005	Chemical Manufacturing Caprolactum By-product: Fluid Bed Dryer					1.48				TON
30113201	Chemical Manufacturing Acetic Acid via Methanol				0.06	4				TON
30113205	Chemical Manufacturing Acetic Acid via Butane				0.08	14	27.1			TON
30113210	Chemical Manufacturing Acetic Acid via Acetaldehyde					22				TON
30113221	Chemical Manufacturing General: Acrylic Acid					240				TON
30113222	Chemical Manufacturing Quench Absorber					239				TON
30113223	Chemical Manufacturing Extraction Column					0.29				TON
30113224	Chemical Manufacturing Vacuum System					7.6				TON
30113301	Chemical Manufacturing General					5.5	9.9			TON
30113302	Chemical Manufacturing Reactor By-product Gas Vent					9	14			TON
30113303	Chemical Manufacturing Distillation Column Vent					1.4				TON
30114004	Chemical Manufacturing Waste Handling				13.5	9.3				TON
30115310	Chemical Manufacturing Houdry Process: Total					23				TON

Table 3
Source Classification Codes and Emission Factor Listing

SCC	PROCES DESCRIPTION	PM10 Lbs/unit	PM2.5 Lbs/unit	SO2 Lbs/unit	NOx Lbs/unit	VOC Lbs/unit	CO Lbs/unit	Lead Lbs/unit	Ammonia Lbs/unit	Units
30115311	Chemical Manufacturing Houdry Process: Flue Gas Vent					0.1				TON
30115312	Chemical Manufacturing Houdry Process: Dehydrogenation Reactor					6.6				TON
30115320	Chemical Manufacturing n-Butene Process: Total					23.2				TON
30115321	Chemical Manufacturing n-Butene Process: Flue Gas Vent					0.1				TON
30115322	Chemical Manufacturing n-Butene Process: Hydrocarbon Absorber Column					10				TON
30115601	Chemical Manufacturing General					1.1				TON
30115602	Chemical Manufacturing Aluminum Chloride Catalyst Process: Benzene Drying Column					0.04				TON
30115603	Chemical Manufacturing Aluminum Chloride Catalyst Process: Catalyst Mix Tank Scrubber Vent					0.3				TON
30115604	Chemical Manufacturing Aluminum Chloride Catalyst Process: Wash-Decant System Vent					0.02				TON
30115605	Chemical Manufacturing Aluminum Chloride Catalyst Process: Benzene Recovery					0.03				TON
30115606	Chemical Manufacturing Aluminum Chloride Catalyst Process: Cumene Distillation Vent					0.06				TON
30115607	Chemical Manufacturing Aluminum Chloride Catalyst Process: DIPB Stripping Vent					0.002				TON
30115609	Chemical Manufacturing Solid Phosphoric Acid Catalyst Process: Cumene Distillation Sys. Vent					0.06				TON
30115680	Chemical Manufacturing Fugitive Emissions					149000				EACH
30115702	Chemical Manufacturing Blowdown Tank Discharge					0.006				TON
30115703	Chemical Manufacturing Pumps/Valves/Compressors					1.5				TON
30115780	Chemical Manufacturing Fugitive Emissions					240000				EACH
30115801	Chemical Manufacturing General					44.4				TON

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Table 3
Source Classification Codes and Emission Factor Listing

SCC	PROCES DESCRIPTION	PM10 Lbs/unit	PM2.5 Lbs/unit	SO2 Lbs/unit	NOx Lbs/unit	VOC Lbs/unit	CO Lbs/unit	Lead Lbs/unit	Ammonia Lbs/unit	Units
30115802	Chemical Manufacturing High Pressure Scrubber Vent					33.8	85.2			TON
30115803	Chemical Manufacturing Low Pressure Scrubber Vent					5.3	19.4			TON
30115821	Chemical Manufacturing Hydrogenation Reactor Vent					3				TON
30115822	Chemical Manufacturing Distillation Vent					0.12				TON
30115880	Chemical Manufacturing Fugitive Emissions					378000				EACH
30116702	Chemical Manufacturing Inert-gas Purge Vent					8.8				TON
30116703	Chemical Manufacturing CO2 Purge Vent					0.6				TON
30116704	Chemical Manufacturing Inhibitor Mix Tank Discharge					5.6				TON
30116780	Chemical Manufacturing Fugitive Emissions					360000				EACH
30116980	Chemical Manufacturing Fugitive Emissions					328000				EACH
30117402	Chemical Manufacturing Air Oxidation Process Reactor: Main Vent					2				TON
30117410	Chemical Manufacturing Oxygen Oxidation Process Reactor: CO2 Purge Vent					1.5				TON
30117411	Chemical Manufacturing Oxygen Oxidation Process Reactor: Argon Purge Vent					0.004				TON
30117421	Chemical Manufacturing Stripper Purge Vent					0.2				TON
30117480	Chemical Manufacturing Fugitive Emissions					168000				EACH
30117601	Chemical Manufacturing General					132				TON
30117611	Chemical Manufacturing CO2 Absorber					0.8				TON
30117612	Chemical Manufacturing Evaporator					0.2				TON

Table 3
Source Classification Codes and Emission Factor Listing

SCC	PROCES DESCRIPTION	PM10 Lbs/unit	PM2.5 Lbs/unit	SO2 Lbs/unit	NOx Lbs/unit	VOC Lbs/unit	CO Lbs/unit	Lead Lbs/unit	Ammonia Lbs/unit	Units
30117613	Chemical Manufacturing Concentrator					0.2				TON
30117614	Chemical Manufacturing Stripping Column					0.2				TON
30117615	Chemical Manufacturing Light-ends Stripping Column					0.2				TON
30117616	Chemical Manufacturing Solvent Stripping Column					0.04				TON
30117617	Chemical Manufacturing Product Distillation Column					0.2				TON
30117618	Chemical Manufacturing Cooling Tower					5.6				TON
30117631	Chemical Manufacturing Light-ends Stripper					30				TON
30117632	Chemical Manufacturing Concentrator					0.3				TON
30117633	Chemical Manufacturing Glycerin Flasher Column					0.3				TON
30117634	Chemical Manufacturing Product Distillation Column					0.3				TON
30118101	Chemical Manufacturing General					19.3				TON
30118102	Chemical Manufacturing Sulfuric Acid Concentrator					10				TON
30118103	Chemical Manufacturing Nitration Reactor					0.05				TON
30118104	Chemical Manufacturing Catalyst Filtration					0.001				TON
30118105	Chemical Manufacturing TDA Vacuum Distillation Vent					0.007				TON
30118106	Chemical Manufacturing Dichlorobenzene Solvent Recovery					3				TON
30118107	Chemical Manufacturing TDI Flash Distillation					3				TON
30118108	Chemical Manufacturing TDI Purification					3				TON

Table 3
Source Classification Codes and Emission Factor Listing

SCC	PROCES DESCRIPTION	PM10 Lbs/unit	PM2.5 Lbs/unit	SO2 Lbs/unit	NOx Lbs/unit	VOC Lbs/unit	CO Lbs/unit	Lead Lbs/unit	Ammonia Lbs/unit	Units
30119002	Chemical Manufacturing Acetone Cyanohydrin Reactor Off-gas					0.08				TON
30119003	Chemical Manufacturing Recovery Columns					2.3				TON
30119004	Chemical Manufacturing Acetone Evaporation Vacuum Vent					0.008				TON
30119010	Chemical Manufacturing Hydrolysis Reactor					13.2				TON
30119011	Chemical Manufacturing Distillation Unit					1.9				TON
30119012	Chemical Manufacturing MMA and Light-ends Distillation Unit					16.5				TON
30119013	Chemical Manufacturing Acid Distillation					1.1				TON
30119014	Chemical Manufacturing MMA Purification					15.8				TON
30119080	Chemical Manufacturing Fugitive Emissions					273000				EACH
30119502	Chemical Manufacturing Reactor and Separator Vent					1.9				TON
30119503	Chemical Manufacturing Acid Stripper Vent					0.34				TON
30119504	Chemical Manufacturing Washer and Neutralizer Vent					0.02				TON
30119505	Chemical Manufacturing Nitrobenzene Stripper Vent					0.34				TON
30119580	Chemical Manufacturing Fugitive Emissions					138000				EACH
30119701	Chemical Manufacturing Ethylene: General			6	0.02		0.02			TON
30119705	Chemical Manufacturing Propylene: General					1				TON
30119743	Chemical Manufacturing Ethylene: Acid Gas Removal			6		0.02				TON
30119745	Chemical Manufacturing Ethylene: Compressor Lube Oil Vent					0.02				TON

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Table 3
Source Classification Codes and Emission Factor Listing

SCC	PROCES DESCRIPTION	PM10 Lbs/unit	PM2.5 Lbs/unit	SO2 Lbs/unit	NOx Lbs/unit	VOC Lbs/unit	CO Lbs/unit	Lead Lbs/unit	Ammonia Lbs/unit	Units
30119749	Chemical Manufacturing Ethylene: Fugitive Emissions					695000				EACH
30120201	Chemical Manufacturing General					15.4				TON
30120202	Chemical Manufacturing Cumene Oxidation					4.6				TON
30120203	Chemical Manufacturing CHP Concentrator					2.4				TON
30120204	Chemical Manufacturing Light-ends Distillation Vent					0.6				TON
30120205	Chemical Manufacturing Acetone Finishing					1.3				TON
30120206	Chemical Manufacturing Phenol Distillation Column					7.6				TON
30120210	Chemical Manufacturing Oxidate Wash/Separation					0.16				TON
30120211	Chemical Manufacturing CHP Cleavage Vent					0.95				TON
30120280	Chemical Manufacturing Fugitive Emissions					729000				EACH
30120503	Chemical Manufacturing Vent Gas Scrubber Vent					20.5				TON
30120504	Chemical Manufacturing Saponification Column Vent					0.09				TON
30120505	Chemical Manufacturing PO Stripping Column Vent					0.01				TON
30120506	Chemical Manufacturing Light-ends Stripping Column Vent					0.01				TON
30120507	Chemical Manufacturing PO Final Distillation Column Vent					0.01				TON
30120508	Chemical Manufacturing DCP Distillation Column Vent					0.0002				TON
30120521	Chemical Manufacturing Oxidation Reactor Scrubber Vent					3.5				TON
30120522	Chemical Manufacturing TBA Stripping Column Vent					0.008				TON

Table 3
Source Classification Codes and Emission Factor Listing

SCC	PROCES DESCRIPTION	PM10 Lbs/unit	PM2.5 Lbs/unit	SO2 Lbs/unit	NOx Lbs/unit	VOC Lbs/unit	CO Lbs/unit	Lead Lbs/unit	Ammonia Lbs/unit	Units
30120524	Chemical Manufacturing PO Stripping Column Vent					0.04				TON
30120525	Chemical Manufacturing Crude TBA Recovery Column Vent					0.03				TON
30120526	Chemical Manufacturing TBA Wash-Decant System Vent					0.01				TON
30120527	Chemical Manufacturing Wastewater Stripping Column Vent					4.56				TON
30120528	Chemical Manufacturing Solvent Scrubber Vent					1.3				TON
30120529	Chemical Manufacturing Solvent Recovery Column Vent					0.0009				TON
30120530	Chemical Manufacturing Water Stripping Column Vent					0.003				TON
30120531	Chemical Manufacturing Propylene Glycol and Dipropylene Glycol Combined Vent					0.1				TON
30120532	Chemical Manufacturing Flue Gas Vent					0.08				TON
30120541	Chemical Manufacturing Oxidation Reactor Scrubber Vent					3.2				TON
30120542	Chemical Manufacturing Falling Film Evaporator Vent					0.01				TON
30120544	Chemical Manufacturing Separation Column Vent					0.3				TON
30120545	Chemical Manufacturing Light-ends Stripping Column Vent					0.3				TON
30120546	Chemical Manufacturing Propylene Recovery Column Vent					0.3				TON
30120547	Chemical Manufacturing Product Wash-Decant System Vent					0.001				TON
30120548	Chemical Manufacturing Mixed Hydrocarbon Wash-Decant System Vent					0.003				TON
30120549	Chemical Manufacturing Ethyl Benzene Wash-Decant System Vent					0.003				TON
30120550	Chemical Manufacturing Ethyl Benzene Stripping Column Vent					0.003				TON

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Table 3
Source Classification Codes and Emission Factor Listing

SCC	PROCES DESCRIPTION	PM10 Lbs/unit	PM2.5 Lbs/unit	SO2 Lbs/unit	NOx Lbs/unit	VOC Lbs/unit	CO Lbs/unit	Lead Lbs/unit	Ammonia Lbs/unit	Units
30120551	Chemical Manufacturing Light-hydrocarbon Stripping Column Vent					0.003				TON
30120552	Chemical Manufacturing MBA-AP Stripping Column Vent					0.02				TON
30120553	Chemical Manufacturing Dehydration Reactor System Vent					0.002				TON
30120554	Chemical Manufacturing Light-impurities Stripping Column Vent					2.5				TON
30120555	Chemical Manufacturing Styrene Finishing Column Vent					1.7				TON
30120601	Chemical Manufacturing General				0.04					TON
30120680	Chemical Manufacturing Fugitive Emissions					248000				EACH
30121001	Chemical Manufacturing General					11.9				TON
30121002	Chemical Manufacturing Cyclohexanone Purification Vent					6.2				TON
30121005	Chemical Manufacturing Neutralization Reactor Vent					0.08				TON
30121006	Chemical Manufacturing Solvent Separation/Recovery					4				TON
30121007	Chemical Manufacturing Oximation Reactor/Separator					0.05				TON
30121008	Chemical Manufacturing Caprolactum Purification					0.3				TON
30121009	Chemical Manufacturing Ammonium Sulfate Drying ** (Use 3-01-130-04 or 3-01-130-05)					1.2				TON
30121010	Chemical Manufacturing AS:Cool/Screen/Storage**(Use 301130-06&07,301870-25&26,301875-25&26)					0.1				TON
30121103	Chemical Manufacturing Hydrogen Fluoride Scrubber Vent					0.022				TON
30121104	Chemical Manufacturing Vacuum Refining					0.2				TON
30121122	Chemical Manufacturing Parafin Drying Column Vent					0.0056				TON

Table 3
Source Classification Codes and Emission Factor Listing

SCC	PROCES DESCRIPTION	PM10 Lbs/unit	PM2.5 Lbs/unit	SO2 Lbs/unit	NOx Lbs/unit	VOC Lbs/unit	CO Lbs/unit	Lead Lbs/unit	Ammonia Lbs/unit	Units
30121123	Chemical Manufacturing HCl Absorber Vent					0.5				TON
30121124	Chemical Manufacturing Atmospheric Wash-Decant Vent					0.025				TON
30121125	Chemical Manufacturing Benzene Stripping Column					0.0074				TON
30125002	Chemical Manufacturing Methanol: Purge Gas Vent					2.2				TON
30125003	Chemical Manufacturing Methanol: Distillation Vent					0.8				TON
30125004	Chemical Manufacturing Methanol: Fugitive Emissions					573000				EACH
30125010	Chemical Manufacturing Ethanol by Fermentation					1.9				TON
30125020	Chemical Manufacturing Alcohols by Oxo Process				0.08		22.5			TON
30125101	Chemical Manufacturing General					10.3				TON
30125180	Chemical Manufacturing Fugitive Emissions					24000				EACH
30125201	Chemical Manufacturing General					0.16				TON
30125302	Chemical Manufacturing Vacuum System Vent					0.03				TON
30125305	Chemical Manufacturing Catalyst: Methanol Mix Tank					0.02				TON
30125306	Chemical Manufacturing Methanol Recovery Column Vent					0.3				TON
30125315	Chemical Manufacturing Catalyst: Ethanol Mix Tank					0.01				TON
30125316	Chemical Manufacturing Ethanol Recovery Column Vent					0.19				TON
30125325	Chemical Manufacturing Catalyst: Butanol Mix Tank					0.002				TON
30125326	Chemical Manufacturing Butanol Recovery Column Vent					0.03				TON

Table 3
Source Classification Codes and Emission Factor Listing

SCC	PROCES DESCRIPTION	PM10 Lbs/unit	PM2.5 Lbs/unit	SO2 Lbs/unit	NOx Lbs/unit	VOC Lbs/unit	CO Lbs/unit	Lead Lbs/unit	Ammonia Lbs/unit	Units
30125330	Chemical Manufacturing Secondary Emissions: Handling and Disposal of Process Waste Streams					0.06				TON
30125380	Chemical Manufacturing Fugitive Emissions					20100				EACH
30125401	Chemical Manufacturing Acetonitrile					497				TON
30125405	Chemical Manufacturing General: Acrylonitrile					220				TON
30125406	Chemical Manufacturing Absorber Vent: Normal					200				TON
30125407	Chemical Manufacturing Absorber Vent: Startup					0.5				TON
30125408	Chemical Manufacturing Recovery/Purification Column Vent					20				TON
30125409	Chemical Manufacturing Fugitive Emissions					223000				EACH
30125410	Chemical Manufacturing Via Adipic Acid: General				0.3					TON
30125411	Chemical Manufacturing Ammonia Recovery Still				0.3					TON
30125415	Chemical Manufacturing Via Butadiene: General				232	51.3				TON
30125416	Chemical Manufacturing Chlorination Reactor					35.8				TON
30125417	Chemical Manufacturing Cyanide Synthesis				75.8					TON
30125418	Chemical Manufacturing Cyanation/Isomerization				42.4	15.5				TON
30125880	Chemical Manufacturing Aromatics: Fugitive Emissions					379000				EACH
30130101	Chemical Manufacturing Tail Gas Scrubber					1.2				TON
30130106	Chemical Manufacturing Vacuum System Vent					0.9				TON
30130107	Chemical Manufacturing DCB Crystallization					0.03				TON

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Table 3
Source Classification Codes and Emission Factor Listing

SCC	PROCES DESCRIPTION	PM10 Lbs/unit	PM2.5 Lbs/unit	SO2 Lbs/unit	NOx Lbs/unit	VOC Lbs/unit	CO Lbs/unit	Lead Lbs/unit	Ammonia Lbs/unit	Units
30130108	Chemical Manufacturing DCB Crystal Handling/Loading					0.04				TON
30130114	Chemical Manufacturing Secondary Emissions: Handling and Disposal of Wastewater					0.06				TON
30130115	Chemical Manufacturing Atmospheric Distillation Vents					0.8				TON
30130180	Chemical Manufacturing Fugitive Emissions					417000				EACH
30130202	Chemical Manufacturing Distillation Vent					0.01				TON
30130203	Chemical Manufacturing Caustic Scrubber					0.3				TON
30130302	Chemical Manufacturing HCl Absorber					0.3				TON
30130303	Chemical Manufacturing Light-ends Distillation					130				TON
30130304	Chemical Manufacturing Allyl Chloride Distillation Column					0.2				TON
30130305	Chemical Manufacturing DCP Distillation Column					2				TON
30130402	Chemical Manufacturing Catalyst Preparation					450				TON
30130403	Chemical Manufacturing Filtration System					6.4				TON
30130404	Chemical Manufacturing Light-ends Stripper					22				TON
30130405	Chemical Manufacturing Distillation System Condenser					23				TON
30190001	Chemical Manufacturing Distillate Oil (No. 2): Process Heaters			1.436E2*S	20	0.2				E3GAL
30190002	Chemical Manufacturing Residual Oil: Process Heaters			1.586E2*S	50	0.28				E3GAL
30190003	Chemical Manufacturing Natural Gas: Process Heaters			0.6	140	2.8				E6FT3
30190004	Chemical Manufacturing Process Gas: Process Heaters				140	2.8				E6FT3

Table 3
Source Classification Codes and Emission Factor Listing

SCC	PROCES DESCRIPTION	PM10 Lbs/unit	PM2.5 Lbs/unit	SO2 Lbs/unit	NOx Lbs/unit	VOC Lbs/unit	CO Lbs/unit	Lead Lbs/unit	Ammonia Lbs/unit	Units
30190011	Chemical Manufacturing Distillate Oil (No. 2): Incinerators					0.4				E3GAL
30190012	Chemical Manufacturing Residual Oil: Incinerators					0.56				E3GAL
30190013	Chemical Manufacturing Natural Gas: Incinerators					5.6				E6FT3
30190014	Chemical Manufacturing Process Gas: Incinerators					5.6				E6FT3
30190099	Chemical Manufacturing Specify in Comments Field				0.068		0.37			E6BTU
30200220	Food and Agriculture Indirect-fired Batch Roaster -Natural Gas (incl combustion emiss)					0.86				TON
30200221	Food and Agriculture Indirect-fired Continuous Roaster - Natural Gas (incl combustion emiss)					1.4	1.5			TON
30200907	Food and Agriculture Brew Kettle					0.64				E3BBL
30200908	Food and Agriculture Aging Tank: Filling					0.57				E3BBL
30200921	Food and Agriculture Mash Tun					0.054				E3BBL
30200922	Food and Agriculture Cerial Cooker					0.0075				E3BBL
30200923	Food and Agriculture Lauter Tun or Strainmaster					0.0055				E3BBL
30200924	Food and Agriculture Hot Wort Settling Tank					0.075				E3BBL
30200925	Food and Agriculture Wort Cooler					0.022				E3BBL
30200926	Food and Agriculture Trub Vessel					0.25				E3BBL
30200930	Food and Agriculture Brewers Grain Dryer: Natural Gas-fired					0.73				TON
30200932	Food and Agriculture Brewers Grain Dryer: Steam-heated					0.73	0.22			TON
30200935	Food and Agriculture Fermenter Venting: Closed Fermenter					2				E3BBL

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Table 3
Source Classification Codes and Emission Factor Listing

SCC	PROCES DESCRIPTION	PM10 Lbs/unit	PM2.5 Lbs/unit	SO2 Lbs/unit	NOx Lbs/unit	VOC Lbs/unit	CO Lbs/unit	Lead Lbs/unit	Ammonia Lbs/unit	Units
30200939	Food and Agriculture Activated Carbon Regeneration					0.035				E3BBL
30200951	Food and Agriculture Can Filling Line					14				E3BBL
30200952	Food and Agriculture Sterilized Can Filling Line					35				E3BBL
30200953	Food and Agriculture Bottle Filling Line					17				E3BBL
30200954	Food and Agriculture Sterilized Bottle Filling Line					40				E3BBL
30200955	Food and Agriculture Keg Filling Line					0.69				E3BBL
30200960	Food and Agriculture Bottle Soaker and Cleaner					0.2				E3EACH
30200961	Food and Agriculture Bottle Crusher					0.48				EACH
30200962	Food and Agriculture Can Crusher with Pneumatic Conveyor					0.088				GAL
30201003	Food and Agriculture Aging** (see 3-02-010-17)					10				BBL50GAL
30201105	Food and Agriculture Wine Fermentation - White Wine					1.8				E3GAL
30201106	Food and Agriculture Wine Fermentation - Red Wine					4.6				E3GAL
30201111	Food and Agriculture Fugitive Emissions: Pomace Screening - Red Wine					0.5				E3GAL
30201112	Food and Agriculture Fugitive Emissions: Pomace Press - Red Wine					0.02				E3GAL
30201121	Food and Agriculture Wine Bottling - White Wine					0.1				E3GAL
30201201	Food and Agriculture Cookers: Fresh Fish Scrap					0.03				TON
30201202	Food and Agriculture Cookers: Stale Fish Scrap					3.5				TON
30201302	Food and Agriculture Batch Smokehouses: Smoking Cycle	53	53			44				TON

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Table 3
Source Classification Codes and Emission Factor Listing

SCC	PROCES DESCRIPTION	PM10 Lbs/unit	PM2.5 Lbs/unit	SO2 Lbs/unit	NOx Lbs/unit	VOC Lbs/unit	CO Lbs/unit	Lead Lbs/unit	Ammonia Lbs/unit	Units
30201304	Food and Agriculture Continuous Smokehouse: Smoke Zone	140	140			17				TON
30201401	Food and Agriculture Combined Operations				121	252				TON
30201601	Food and Agriculture Pulp Dryer : Coal-fired			0.41	0.06	0.2				TON
30201799	Food and Agriculture Other Not Classified				0.065					TON
30201906	Food and Agriculture Corn Oil: General					18.7				TON
30201907	Food and Agriculture Cottonseed Oil: General					17.5				TON
30201909	Food and Agriculture Peanut Oil: General					20.7				TON
30201916	Food and Agriculture Oil Extraction					16.8				TON
30201917	Food and Agriculture Meal Preparation					1.1				TON
30201918	Food and Agriculture Oil Refining					0.46				TON
30201998	Food and Agriculture Soybean Oil Production: Complete Process-Solvent Loss (average)					4.9				TON
30203399	Food and Agriculture Other Not Classified			0.48		0.34				TON
30203404	Food and Agriculture Intermediate Fermentor (F4 Stage)					36				TON
30203405	Food and Agriculture Stock Fermentor (F5 Stage)					5				TON
30203406	Food and Agriculture Pitch Fermentor (F6 Stage)					5				TON
30203407	Food and Agriculture Trade Fermentor (F7 Stage)					5				TON
30203601	Food and Agriculture Continuous Deep Fat Fryer: Potato Chips					0.02				TON
30203602	Food and Agriculture Continuous Deep Fat Fryer: Other Snack Chips					0.085				TON

Table 3
Source Classification Codes and Emission Factor Listing

SCC	PROCES DESCRIPTION	PM10 Lbs/unit	PM2.5 Lbs/unit	SO2 Lbs/unit	NOx Lbs/unit	VOC Lbs/unit	CO Lbs/unit	Lead Lbs/unit	Ammonia Lbs/unit	Units
30290001	Food and Agriculture Distillate Oil (No. 2): Process Heaters			1.436E2*S	20	0.2				E3GAL
30290002	Food and Agriculture Residual Oil: Process Heaters			1.586E2*S	55	0.28				E3GAL
30290003	Food and Agriculture Natural Gas: Process Heaters			0.6	140	2.8				E6FT3
30300002	Primary Metal Production Drying Oven			1.4						TON
30300003	Primary Metal Production Fine Ore Storage			3						TON
30300101	Primary Metal Production Prebaked Reduction Cell			60	0.003	0.1				TON
30300102	Primary Metal Production Horizontal Stud Soderberg Cell					1				TON
30300103	Primary Metal Production Vertical Stud Soderberg Cell					1				TON
30300105	Primary Metal Production Anode Baking Furnace					1				TON
30300107	Primary Metal Production Roof Vents					2.7				TON
30300201	Primary Metal Production Overall Process					0.02				TON
30300302	Primary Metal Production Oven Charging			0.02	0.03	2.5	0.6		0.02	TON
30300303	Primary Metal Production Oven Pushing			3.3	0.03	0.2	0.07		0.1	TON
30300304	Primary Metal Production Quenching				0.6					TON
30300306	Primary Metal Production Oven Underfiring				0.04	2				TON
30300308	Primary Metal Production Oven/Door Leaks			0.294	0.01	1.5	0.6		0.06	TON
30300313	Primary Metal Production Coal Preheater					0.3				TON
30300314	Primary Metal Production Topside Leaks			0.1	0.01	1.5				TON

Table 3
Source Classification Codes and Emission Factor Listing

SCC	PROCES DESCRIPTION	PM10 Lbs/unit	PM2.5 Lbs/unit	SO2 Lbs/unit	NOx Lbs/unit	VOC Lbs/unit	CO Lbs/unit	Lead Lbs/unit	Ammonia Lbs/unit	Units
30300317	Primary Metal Production Combustion Stack: Coke Oven Gas (COG)			4						TON
30300318	Primary Metal Production Combustion Stack: Blast Furnace Gas (BFG)			1.08						TON
30300502	Primary Metal Production Multiple Hearth Roaster			280				0.15		TON
30300503	Primary Metal Production Reverberatory Smelting Furnace after Roaster			160				0.072		TON
30300504	Primary Metal Production Converter (All Configurations)			740				0.27		TON
30300506	Primary Metal Production Ore Concentrate Dryer			1						TON
30300509	Primary Metal Production Fluidized Bed Roaster			360						TON
30300510	Primary Metal Production Electric Smelting Furnace			240						TON
30300512	Primary Metal Production Flash Smelting			820						TON
30300513	Primary Metal Production Roasting: Fugitive Emissions			1						TON
30300514	Primary Metal Production Reverberatory Furnace: Fugitive Emissions			4						TON
30300515	Primary Metal Production Converter: Fugitive Emissions			130						TON
30300516	Primary Metal Production Anode Refining Furnace: Fugitive Emissions			0.1						TON
30300517	Primary Metal Production Slag Cleaning Furnace: Fugitive Emissions			6						TON
30300518	Primary Metal Production Converter Slag Return: Fugitive Emissions			0.1						TON
30300522	Primary Metal Production Slag Cleaning Furnace			6						TON
30300523	Primary Metal Production Reverberatory Furnace with Converter			320						TON
30300524	Primary Metal Production AFT MHR+RF/FBR+EF			600						TON

Table 3
Source Classification Codes and Emission Factor Listing

SCC	PROCES DESCRIPTION	PM10 Lbs/unit	PM2.5 Lbs/unit	SO2 Lbs/unit	NOx Lbs/unit	VOC Lbs/unit	CO Lbs/unit	Lead Lbs/unit	Ammonia Lbs/unit	Units
30300525	Primary Metal Production Fluid Bed Roaster with Reverberatory Furnace and Converter			360						TON
30300526	Primary Metal Production Dryer with Electric Furnace and Cleaning Furnace and Converter			1						TON
30300527	Primary Metal Production Dryer with Flash Furnace and Converter			1						TON
30300529	Primary Metal Production Multiple Hearth Roaster with Reverberatory Furnace and Converter			280						TON
30300530	Primary Metal Production Fluid Bed Roaster with Electric Furnace and Converter			600						TON
30300531	Primary Metal Production Reverberatory Furnace After Multiple Hearth Roaster			180						TON
30300532	Primary Metal Production Reverberatory Furnace After Fluid Bed Roaster			160						TON
30300533	Primary Metal Production Electric Furnace After Concentrate Dryer			240						TON
30300534	Primary Metal Production Flash Furnace After Concentrate Dryer			820						TON
30300601	Primary Metal Production 50% FeSi: Electric Smelting Furnace			0.07	0.1	4.5		0.29		TON
30300602	Primary Metal Production 75% FeSi: Electric Smelting Furnace			0.07	0.1					TON
30300603	Primary Metal Production 90% FeSi: Electric Smelting Furnace			0.07	0.1					TON
30300604	Primary Metal Production Silicon Metal: Electric Smelting Furnace			0.07	0.1	71.8		0.0031		TON
30300605	Primary Metal Production Silicomanganese: Electric Smelting Furnace				0.1			0.0057		TON
30300615	Primary Metal Production Ferromanganese: Blast Furnace					16				TON
30300616	Primary Metal Production Ferrosilicon: Blast Furnace					16				TON
30300617	Primary Metal Production Cast House					2.8				TON

Table 3
Source Classification Codes and Emission Factor Listing

SCC	PROCES DESCRIPTION	PM10 Lbs/unit	PM2.5 Lbs/unit	SO2 Lbs/unit	NOx Lbs/unit	VOC Lbs/unit	CO Lbs/unit	Lead Lbs/unit	Ammonia Lbs/unit	Units
30300701	Primary Metal Production Ferromanganese: Electric Arc Furnace			0.01	0.1	1.4		0.11		TON
30300703	Primary Metal Production Ferrochromium: Electric Arc Furnace					8.2				TON
30300704	Primary Metal Production Ferrochromium Silicon: Electric Arc Furnace					8.2				TON
30300813	Primary Metal Production Windbox				0.3	1.4	44.7			TON
30300817	Primary Metal Production Cooler			0.14						TON
30300819	Primary Metal Production Sinter Process (Combined Code includes 15,16,17,18)					0.05				TON
30300822	Primary Metal Production Raw Material Stockpile: Ore, Pellets, Limestone, Coke, Sinter					4.8				TON
30300824	Primary Metal Production Blast Heating Stoves					0.01				TON
30300825	Primary Metal Production Cast House			3	0.03	2.8				TON
30300901	Primary Metal Production Open Hearth Furnace: Stack			2.8		0.17		0.14		TON
30300904	Primary Metal Production Electric Arc Furnace: Alloy Steel (Stack)			0.07	0.2	0.35	18	0.22		TON
30300906	Primary Metal Production Charging: Electric Arc Furnace					0.001				TON
30300907	Primary Metal Production Tapping: Electric Arc Furnace					0.005				TON
30300908	Primary Metal Production Electric Arc Furnace: Carbon Steel (Stack)			0.07	0.2	0.35	18	0.04		TON
30300911	Primary Metal Production Soaking Pits					0.59				TON
30300913	Primary Metal Production Basic Oxygen Furnace: Open Hood-Stack				0.08	0.001	138	0.2		TON
30300914	Primary Metal Production Basic Oxygen Furnace: Closed Hood-Stack					0.001	138	0.2		TON
30300915	Primary Metal Production Hot Metal (Iron) Transfer to					0.001				TON

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Table 3
Source Classification Codes and Emission Factor Listing

SCC	PROCES DESCRIPTION	PM10 Lbs/unit	PM2.5 Lbs/unit	SO2 Lbs/unit	NOx Lbs/unit	VOC Lbs/unit	CO Lbs/unit	Lead Lbs/unit	Ammonia Lbs/unit	Units
	Steelmaking Furnace									
30300916	Primary Metal Production Charging: BOF					0.001				TON
30300917	Primary Metal Production Tapping: BOF				0.02	0.005				TON
30300918	Primary Metal Production Charging: Open Hearth					0.001				TON
30300919	Primary Metal Production Tapping: Open Hearth					0.002				TON
30300921	Primary Metal Production Teeming (Unleaded Steel)					0.002				TON
30300922	Primary Metal Production Continuous Casting				0.05					TON
30300923	Primary Metal Production Steel Furnace Slag Tapping and Dumping					0.002				TON
30300925	Primary Metal Production Teeming (Leaded Steel)					0.002				TON
30300933	Primary Metal Production Reheat Furnaces				0.8	0.01				TON
30300934	Primary Metal Production Heat Treating Furnaces: Annealing				0.1					TON
30300936	Primary Metal Production Coating: Tin, Zinc, etc.				1.9	0.07				TON
30301001	Primary Metal Production Sintering: Single Stream			275				105		TON
30301002	Primary Metal Production Blast Furnace Operation			45						TON
30301003	Primary Metal Production Dross Reverberatory Furnace							2.9		TON
30301004	Primary Metal Production Ore Crushing							0.3		TON
30301006	Primary Metal Production Sintering: Dual Stream Feed End			550				174		TON
30301008	Primary Metal Production Slag Fume Furnace			2.9						TON
30301029	Primary Metal Production Sinter Machine (Weak Gas)			550						TON

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Table 3
Source Classification Codes and Emission Factor Listing

SCC	PROCES DESCRIPTION	PM10 Lbs/unit	PM2.5 Lbs/unit	SO2 Lbs/unit	NOx Lbs/unit	VOC Lbs/unit	CO Lbs/unit	Lead Lbs/unit	Ammonia Lbs/unit	Units
30302351	Primary Metal Production Induration: Grate/Kiln, Gas-fired, Acid Pellets			0.29	1.5	0.075	0.014			TON
30302352	Primary Metal Production Induration: Grate/Kiln, Gas-fired, Flux Pellets					0.075				TON
30302355	Primary Metal Production Induration: Grate/Kiln, Coke-fired, Acid Pellets			1.9						TON
30302357	Primary Metal Production Induration: Grate/Kiln, Coke & Coal-fired, Acid Pellets			2.3						TON
30302371	Primary Metal Production Induration: Vertical Shaft, Gas-fired, Acid Pellets, Top Gas Stack				0.2	0.013	0.077			TON
30302372	Primary Metal Production Induration: Vertical Shaft, Gas-fired, Flux Pellets, Top Gas Stack					0.013				TON
30302373	Primary Metal Production Induration: Vertical Shaft, Gas-fired, Acid Pellets, Bottom Gas Stack					0.046				TON
30302374	Primary Metal Production Induration: Vertical Shaft, Gas-fired, Flux Pellets, Bottom Gas Stack					0.046				TON
30302381	Primary Metal Production Induration: Straight Grate, Gas-fired, Acid Pellets						0.039			TON
30302382	Primary Metal Production Induration: Straight Grate, Gas-fired, Flux Pellets				2.5					TON
30302387	Primary Metal Production Induration: Straight Grate, Coke & Gas-fired, Acid Pellets				0.44		0.15			TON
30302411	Primary Metal Production Ore Drying				1.6	0.004				TON
30303003	Primary Metal Production Sinter Strand			0.64						TON
30303005	Primary Metal Production Vertical Retort/Electrothermal Furnace			1.13						TON
30303007	Primary Metal Production Flash Roaster			404						TON
30303008	Primary Metal Production Fluid Bed Roaster			224						TON
30303012	Primary Metal Production Raw Material Unloading							0.13		TON

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Table 3
Source Classification Codes and Emission Factor Listing

SCC	PROCES DESCRIPTION	PM10 Lbs/unit	PM2.5 Lbs/unit	SO2 Lbs/unit	NOx Lbs/unit	VOC Lbs/unit	CO Lbs/unit	Lead Lbs/unit	Ammonia Lbs/unit	Units
30303101	Primary Metal Production Lead Ore w/ 5.1% Lead Content							0.3		TON
30303102	Primary Metal Production Zinc Ore w/ 0.2% Lead Content							0.012		TON
30303103	Primary Metal Production Copper Ore w/ 0.2% Lead Content							0.012		TON
30303104	Primary Metal Production Lead-Zinc Ore w/ 2% Lead Content							0.12		TON
30303105	Primary Metal Production Copper-Lead Ore w/ 2% Lead Content							0.12		TON
30303106	Primary Metal Production Copper-Zinc Ore w/ 0.2% Lead Content							0.012		TON
30303107	Primary Metal Production Copper-Lead-Zinc w/ 2% Lead Content							0.12		TON
30390001	Primary Metal Production Distillate Oil (No. 2): Process Heaters			1.436E2*S	20	0.2				E3GAL
30390002	Primary Metal Production Residual Oil: Process Heaters			1.586E2*S	55	0.28				E3GAL
30390003	Primary Metal Production Natural Gas: Process Heaters			0.6	140	2.8				E6FT3
30390004	Primary Metal Production Process Gas: Process Heaters					2.8				E6FT3
30390011	Primary Metal Production Distillate Oil (No. 2): Incinerators					0.34				E3GAL
30390012	Primary Metal Production Residual Oil: Incinerators					0.56				E3GAL
30390013	Primary Metal Production Natural Gas: Incinerators					5.6				E6FT3
30390014	Primary Metal Production Process Gas: Incinerators					5.6				E6FT3
30390023	Primary Metal Production Natural Gas: Flares					5.6				E6FT3
30390024	Primary Metal Production Process Gas: Flares					5.6				E6FT3
30400101	Secondary Metal Production Sweating Furnace			0.02	0.6	2.4				TON

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Table 3
Source Classification Codes and Emission Factor Listing

SCC	PROCES DESCRIPTION	PM10 Lbs/unit	PM2.5 Lbs/unit	SO2 Lbs/unit	NOx Lbs/unit	VOC Lbs/unit	CO Lbs/unit	Lead Lbs/unit	Ammonia Lbs/unit	Units
30400102	Secondary Metal Production Smelting Furnace/Crucible			2.5	1.7	2.5				TON
30400103	Secondary Metal Production Smelting Furnace/Reverberatory			0.9	0.76	0.2				TON
30400109	Secondary Metal Production Burning/Drying			2.9	0.9					TON
30400111	Secondary Metal Production Foil Converting					2.4				TON
30400114	Secondary Metal Production Pouring/Casting			0.02	0.01	0.14				TON
30400120	Secondary Metal Production Can Manufacture				0.7					TON
30400207	Secondary Metal Production Scrap Dryer (Rotary)			1.5	18					TON
30400208	Secondary Metal Production Wire Burning: Incinerator			12.8	1.7	0.6				TON
30400209	Secondary Metal Production Sweating Furnace					0.1296				TON
30400210	Secondary Metal Production Charge with Scrap Copper: Cupolas					0.18				TON
30400211	Secondary Metal Production Charge with Insulated Copper Wire: Cupolas					0.6				TON
30400212	Secondary Metal Production Charge with Scrap Copper And Brass: Cupolas					0.18				TON
30400214	Secondary Metal Production Charge with Copper: Reverberatory Furnace					0.2				TON
30400215	Secondary Metal Production Charge with Brass and Bronze: Reverberatory Furnace					0.2				TON
30400217	Secondary Metal Production Charge with Brass and Bronze: Rotary Furnace					2.4				TON
30400219	Secondary Metal Production Charge with Brass and Bronze: Crucible and Pot Furnace			0.5						TON
30400301	Secondary Metal Production Cupola			1.2	0.1	0.18	145	1.1		TON
30400302	Secondary Metal Production Reverberatory Furnace			180	5.8	0.15		0.14		TON

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Table 3
Source Classification Codes and Emission Factor Listing

SCC	PROCES DESCRIPTION	PM10 Lbs/unit	PM2.5 Lbs/unit	SO2 Lbs/unit	NOx Lbs/unit	VOC Lbs/unit	CO Lbs/unit	Lead Lbs/unit	Ammonia Lbs/unit	Units
30400303	Secondary Metal Production Electric Induction Furnace							0.1		TON
30400304	Secondary Metal Production Electric Arc Furnace			0.24	0.6	0.3	37			TON
30400305	Secondary Metal Production Annealing Operation				1	0.1				TON
30400310	Secondary Metal Production Inoculation					0.005				TON
30400320	Secondary Metal Production Pouring/Casting			0.02	0.01	0.14				TON
30400331	Secondary Metal Production Casting Shakeout					1.2				TON
30400332	Secondary Metal Production Casting Knock Out					1.2				TON
30400333	Secondary Metal Production Shakeout Machine					1.2				TON
30400351	Secondary Metal Production Core Ovens			0.038	0.5					TON
30400353	Secondary Metal Production Core Ovens			0.32	0.5					TON
30400354	Secondary Metal Production Core Ovens				0.5					GAL
30400370	Secondary Metal Production Shell Core Machine			0.32	0.5					TON
30400371	Secondary Metal Production Core Machines/Other				0.5					TON
30400398	Secondary Metal Production Other Not Classified			0.063						TON
30400401	Secondary Metal Production Pot Furnace							0.2		TON
30400402	Secondary Metal Production Reverberatory Furnace			80	0.3			65		TON
30400403	Secondary Metal Production Blast Furnace (Cupola)			53	0.1		18	104		TON
30400404	Secondary Metal Production Rotary Sweating Furnace							16		TON

Table 3
Source Classification Codes and Emission Factor Listing

SCC	PROCES DESCRIPTION	PM10 Lbs/unit	PM2.5 Lbs/unit	SO2 Lbs/unit	NOx Lbs/unit	VOC Lbs/unit	CO Lbs/unit	Lead Lbs/unit	Ammonia Lbs/unit	Units
30400405	Secondary Metal Production Reverberatory Sweating Furnace							11.73		TON
30400406	Secondary Metal Production Pot Furnace Heater: Distillate Oil			1.436E2*S	20	0.2				E3GAL
30400407	Secondary Metal Production Pot Furnace Heater: Natural Gas			0.6	100	2.8				E6FT3
30400408	Secondary Metal Production Barton Process Reactor (Oxidation Kettle)							0.44		TON
30400409	Secondary Metal Production Casting							0.01		TON
30400412	Secondary Metal Production Sweating Furnace: Fugitive Emissions							1.8		TON
30400413	Secondary Metal Production Smelting Furnace: Fugitive Emissions							0.6		TON
30400414	Secondary Metal Production Kettle Refining: Fugitive Emissions							0.0006		TON
30400425	Secondary Metal Production Casting: Fugitive Emissions							0.0007		TON
30400426	Secondary Metal Production Kettle Refining							0.01		TON
30400501	Secondary Metal Production Overall Process **							1.18		TON
30400502	Secondary Metal Production Casting Furnace **							0.059		TON
30400503	Secondary Metal Production Paste Mixer **							0.192		TON
30400504	Secondary Metal Production Three Process Operation **							0.815		TON
30400505	Secondary Metal Production Overall Process							17.7		E3EACH
30400506	Secondary Metal Production Grid Casting							0.9		E3EACH
30400507	Secondary Metal Production Paste Mixing							2.49		E3EACH
30400508	Secondary Metal Production Lead Oxide Mill (Baghouse)							0.11		E3EACH

Table 3
Source Classification Codes and Emission Factor Listing

SCC	PROCES DESCRIPTION	PM10 Lbs/unit	PM2.5 Lbs/unit	SO2 Lbs/unit	NOx Lbs/unit	VOC Lbs/unit	CO Lbs/unit	Lead Lbs/unit	Ammonia Lbs/unit	Units
	Outlet)									
30400509	Secondary Metal Production Three Process Operation							14.6		E3EACH
30400510	Secondary Metal Production Lead Reclaiming Furnace							1.38		E3EACH
30400511	Secondary Metal Production Small Parts Casting							0.1		E3EACH
30400601	Secondary Metal Production Pot Furnace				2.5	2.4				TON
30400701	Secondary Metal Production Electric Arc Furnace			0.24	0.2	0.35				TON
30400702	Secondary Metal Production Open Hearth Furnace				0.01	0.17				TON
30400703	Secondary Metal Production Open Hearth Furnace with Oxygen Lance					0.17				TON
30400704	Secondary Metal Production Heat Treating Furnace			277	80.7	0.6				TON
30400707	Secondary Metal Production Core Ovens			0.32	0.05					TON
30400708	Secondary Metal Production Pouring/Casting			0.02	0.01	0.14				TON
30400709	Secondary Metal Production Casting Shakeout				2.4	1.2				TON
30400710	Secondary Metal Production Casting Knock Out					1.2				TON
30400714	Secondary Metal Production Shakeout Machine					1.2				TON
30400715	Secondary Metal Production Finishing			47.7		1.1				TON
30400717	Secondary Metal Production Core Ovens				0.5					TON
30400718	Secondary Metal Production Core Ovens				0.5					GAL
30400730	Secondary Metal Production Shell Core Machine				0.5					TON

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Table 3
Source Classification Codes and Emission Factor Listing

SCC	PROCES DESCRIPTION	PM10 Lbs/unit	PM2.5 Lbs/unit	SO2 Lbs/unit	NOx Lbs/unit	VOC Lbs/unit	CO Lbs/unit	Lead Lbs/unit	Ammonia Lbs/unit	Units
30400731	Secondary Metal Production Core Machines/Other				0.5					TON
30400802	Secondary Metal Production Horizontal Muffle Furnace					2.4				TON
30400803	Secondary Metal Production Pot Furnace					2.4				TON
30400806	Secondary Metal Production Calcining Kiln			18.3						TON
30400809	Secondary Metal Production Rotary Sweat Furnace					2.4				TON
30400810	Secondary Metal Production Muffle Sweat Furnace					2.4				TON
30400811	Secondary Metal Production Electric Resistance Sweat Furnace					2.4				TON
30400824	Secondary Metal Production Kettle-Sweat Furnace: General Metallic Scrap					2.4				TON
30400828	Secondary Metal Production Reverberatory Sweat Furnace: General Metallic Scrap					2.4				TON
30400834	Secondary Metal Production Kettle-Sweat Furnace: Residual Metallic Scrap					2.4				TON
30400838	Secondary Metal Production Reverberatory Sweat Furnace: Residual Metallic Scrap					2.4				TON
30400841	Secondary Metal Production Scrap Melting: Crucible					2.5				TON
30400842	Secondary Metal Production Scrap Melting: Reverberatory Furnace					0.2				TON
30400843	Secondary Metal Production Scrap Melting: Electric Induction Furnace					0.18				TON
30400854	Secondary Metal Production Retort Distillation/Oxidation			21						TON
30400855	Secondary Metal Production Muffle Distillation/Oxidation			40.2						TON
30400861	Secondary Metal Production Reverberatory Sweating					2.4				TON
30400862	Secondary Metal Production Rotary Sweating					2.4				TON

Table 3
Source Classification Codes and Emission Factor Listing

SCC	PROCES DESCRIPTION	PM10 Lbs/unit	PM2.5 Lbs/unit	SO2 Lbs/unit	NOx Lbs/unit	VOC Lbs/unit	CO Lbs/unit	Lead Lbs/unit	Ammonia Lbs/unit	Units
30400863	Secondary Metal Production Muffle Sweating					2.4				TON
30400864	Secondary Metal Production Kettle (Pot) Sweating					2.4				TON
30400865	Secondary Metal Production Electric Resistance Sweating					2.4				TON
30400867	Secondary Metal Production Kettle (Pot) Melting Furnace					2.4				TON
30400868	Secondary Metal Production Crucible Melting Furnace					2.5				TON
30400869	Secondary Metal Production Reverberatory Melting Furnace					0.2				TON
30400870	Secondary Metal Production Electric Induction Melting Furnace					0.18				TON
30400901	Secondary Metal Production Annealing					0.1				TON
30401007	Secondary Metal Production Electric Arc Furnace with Carbon Electrode			60	0.003	0.1				TON
30401008	Secondary Metal Production Electric Arc Furnace			0.24	0.32	0.18				TON
30402001	Secondary Metal Production Calcination					0.06				TON
30402004	Secondary Metal Production Bake Furnaces			1.6		1				TON
30402201	Secondary Metal Production Furnace: General				4	0.1				TON
30402210	Secondary Metal Production Quench Bath					280				TON
30404001	Secondary Metal Production General							0.5		TON
30490001	Secondary Metal Production Distillate Oil (No. 2): Process Heaters			1.436E2*S	20	0.2				E3GAL
30490002	Secondary Metal Production Residual Oil: Process Heaters			1.586E2*S	55	0.28				E3GAL
30490003	Secondary Metal Production Natural Gas: Process Heaters			0.6	140	2.8				E6FT3

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Table 3
Source Classification Codes and Emission Factor Listing

SCC	PROCES DESCRIPTION	PM10 Lbs/unit	PM2.5 Lbs/unit	SO2 Lbs/unit	NOx Lbs/unit	VOC Lbs/unit	CO Lbs/unit	Lead Lbs/unit	Ammonia Lbs/unit	Units
30490004	Secondary Metal Production Process Gas: Process Heaters			9.5E2*S	140	2.8				E6FT3
30490011	Secondary Metal Production Distillate Oil (No. 2): Incinerators					0.4				E3GAL
30490012	Secondary Metal Production Residual Oil: Incinerators					0.56				E3GAL
30490013	Secondary Metal Production Natural Gas: Incinerators					5.6				E6FT3
30490014	Secondary Metal Production Process Gas: Incinerators					5.6				E6FT3
30490023	Secondary Metal Production Natural Gas: Flares					5.6				E6FT3
30490024	Secondary Metal Production Process Gas: Flares					5.6				E6FT3
30500101	Mineral Products Asphalt Blowing: Saturant (Use 3-05-050-10 for MACT)					1.46	0.27			TON
30500102	Mineral Products Asphalt Blowing: Coating (Use 3-05-050-10 for MACT)					1.86	0.27			TON
30500103	Mineral Products Felt Saturation: Dipping Only					0.02	0.02			TON
30500104	Mineral Products Felt Saturation: Dipping/Spraying					0.03	0.25			TON
30500105	Mineral Products General **					0.48	2.9			TON
30500110	Mineral Products Blowing (Use 3-05-050-01 for MACT)						0.27			TON
30500111	Mineral Products Dipping Only					0.02				TON
30500112	Mineral Products Spraying Only					0.01				TON
30500113	Mineral Products Dipping/Spraying					0.03				TON
30500116	Mineral Products Shingle Saturation: Dip Saturator, Drying-in Drum, Hot Looper & Coater					0.091				TON
30500117	Mineral Products Shingle Saturation: Dip Saturator, Drying-in Drum and Coater						0.0019			TON

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Table 3
Source Classification Codes and Emission Factor Listing

SCC	PROCES DESCRIPTION	PM10 Lbs/unit	PM2.5 Lbs/unit	SO2 Lbs/unit	NOx Lbs/unit	VOC Lbs/unit	CO Lbs/unit	Lead Lbs/unit	Ammonia Lbs/unit	Units
30500119	Mineral Products Shingle Sat'ion:Spray/Dip Satur,Drying-in Drm,Hot Loopr.Coatr & Str Tk					0.26				TON
30500202	Mineral Products Batch Mix Plant: Hot Elevs, Screens, Bins&Mixer (also see -45 thru -47			0.09	0.03					TON
30500205	Mineral Products Drum Dryer: Drum Mix Plant (see 3-05- 002-55 thru -63 for subtypes)	6.5								TON
30500206	Mineral Products Asphalt Heater: Natural Gas			0.6	140	2.8	35			E6FT3
30500207	Mineral Products Asphalt Heater: Residual Oil			159*S	55	0.28	5			E3GAL
30500208	Mineral Products Asphalt Heater: Distillate Oil			144*S	20	0.2	5			E3GAL
30500209	Mineral Products Asphalt Heater: LPG			86.5*S	8.8	0.47	1.8			E3GAL
30500213	Mineral Products Storage Silo					0.012	0.00118			TON
30500214	Mineral Products Truck Load-out					0.0039	0.0013			TON
30500245	Mineral Products Batch Mix Plant: Hot Elevators, Screens, Bins, Mixer & NG Rot Dryer	4.5		0.0046	0.025	0.0082	0.4			TON
30500246	Mineral Products Batch Mix Plant: Hot Elevators, Screens, Bins, Mixer& #2 Oil Rot Dryer	4.5		0.088	0.12	0.0082	0.4			TON
30500247	Mineral Products Batch Mix Plant: Hot Elevs, Scrn, Bins, Mixer& Waste/Drain/#6 Oil Rot	4.5		0.088	0.12	0.036	0.4			TON
30500255	Mineral Products Drum Mix Plant: Rotary Drum Dryer / Mixer, Natural Gas-Fired	6.5		0.0034	0.026	0.032	0.13			TON
30500256	Mineral Products Drum Mix Plant: Rotary Drum Dryer / Mixer, Natural Gas, Parallel Flow	6.5		0.0034	0.026	0.032	0.13			TON
30500257	Mineral Products Drum Mix Plant: Rotary Drum Dryer / Mixer, Natural Gas, Counterflow	6.5		0.0034	0.026	0.032	0.13			TON
30500258	Mineral Products Drum Mix Plant: Rotary Drum Dryer / Mixer, #2 Oil-Fired	6.5		0.011	0.055	0.032	0.13	0.00054		TON
30500259	Mineral Products Drum Mix Plant: Rotary Drum Dryer / Mixer, #2 Oil-Fired, Parallel Flow	6.5		0.011	0.055	0.032	0.13	0.00054		TON
30500260	Mineral Products Drum Mix Plant: Rotary Drum Dryer /	6.5		0.011	0.055	0.032	0.13	0.00054		TON

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Table 3
Source Classification Codes and Emission Factor Listing

SCC	PROCES DESCRIPTION	PM10 Lbs/unit	PM2.5 Lbs/unit	SO2 Lbs/unit	NOx Lbs/unit	VOC Lbs/unit	CO Lbs/unit	Lead Lbs/unit	Ammonia Lbs/unit	Units
	Mixer, #2 Oil-Fired, Counterflow									
30500261	Mineral Products Drum Mix Plant: Rotary Drum Dryer/Mixer, Waste/Drain/#6 Oil-Fired	6.5		0.058	0.055	0.032	0.13			TON
30500262	Mineral Products Drum Mix Pl: Rotary Drum Dryer/Mixer, Waste/Drain/#6 Oil, Parallel Flo	6.5		0.058	0.055	0.032	0.13			TON
30500263	Mineral Products Drum Mix Pl: Rotary Drum Dryer/Mixer, Waste/Drain/#6 Oil, Counterflow	6.5		0.058	0.055	0.032	0.13			TON
30500270	Mineral Products Yard Emissions: Emissions from asphalt in truck beds					0.001	0.00035			TON
30500298	Mineral Products Other Not Classified			0.19						TON
30500302	Mineral Products Raw Material Grinding & Screening	0.53								TON
30500304	Mineral Products Curing **			0.02	0.29	0.03	0.07			TON
30500310	Mineral Products Curing and Firing: Sawdust Fired Tunnel Kilns	0.85	0.75	0.67	0.37	0.024	1.6	0.00015		TON
30500311	Mineral Products Curing and Firing: Gas-fired Tunnel Kilns	0.87		0.67	0.35	0.024	1.2	0.00015		TON
30500312	Mineral Products Curing and Firing: Oil-fired Tunnel Kilns			3.95E0*S	1.05	0.007	0.12			TON
30500313	Mineral Products Curing and Firing: Coal-fired Tunnel Kilns	1.4	0.87	1.2	0.51	0.024	0.8	0.00015		TON
30500314	Mineral Products Curing and Firing: Gas-fired Periodic Kilns				0.5	0.01	0.15			TON
30500315	Mineral Products Curing and Firing: Oil-fired Periodic Kilns			5.9E0*S	1.62	0.01	0.19			TON
30500316	Mineral Products Curing and Firing: Coal-fired Periodic Kilns			1.213E1*S	2.35	0.02	2.39			TON
30500322	Mineral Products Firing: Natural Gas-fired Tunnel Kiln Firing High-Sulfur Material			5.1	0.35		1.2			TON
30500350	Mineral Products Brick Dryer: Heated With Waste Heat From Kiln Cooling Zone					0.03				TON
30500351	Mineral Products Brick Dryer: Heated With Waste Heat And Supplemental Gas Burners				0.098	0.03	0.31			TON

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Table 3
Source Classification Codes and Emission Factor Listing

SCC	PROCES DESCRIPTION	PM10 Lbs/unit	PM2.5 Lbs/unit	SO2 Lbs/unit	NOx Lbs/unit	VOC Lbs/unit	CO Lbs/unit	Lead Lbs/unit	Ammonia Lbs/unit	Units
30500361	Mineral Products Sawdust Dryer: Heated With Exhaust From Sawdust-fired Kiln	0.31				0.18		0.00012		TON
30500401	Mineral Products Electric Furnace: Hoods and Main Stack			3						TON
30500402	Mineral Products Coke Dryer			3	0.2					TON
30500504	Mineral Products Curing Oven				0.16	1				TON
30500606	Mineral Products Kilns			10	6	0.028	0.21	0.12		TON
30500613	Mineral Products Raw Material Grinding and Drying							0.04		TON
30500617	Mineral Products Clinker Grinding							0.04		TON
30500622	Mineral Products Preheater Kiln			0.55	4.8	0.18	0.98			TON
30500623	Mineral Products Preheater/Precalciner Kiln			1.1	4.2	0.12	3.7			TON
30500706	Mineral Products Kilns			8.2	7.4	0.028	0.12	0.1		TON
30500717	Mineral Products Clinker Grinding							0.02		TON
30500845	Mineral Products Ceramic Glaze Spray Booth							3		TON
30500850	Mineral Products Firing - Natural Gas-fired Kiln			4.4E1*S	0.54	0.43	3.3			TON
30501001	Mineral Products Fluidized Bed			1.4	0.16	0.098				TON
30501002	Mineral Products Flash or Suspension			0.52						TON
30501015	Mineral Products Loading									TON
30501035	Mineral Products Blasting: Coal Overburden									EACH
30501036	Mineral Products Dragline: Overburden Removal									YD3

Table 3
Source Classification Codes and Emission Factor Listing

SCC	PROCES DESCRIPTION	PM10 Lbs/unit	PM2.5 Lbs/unit	SO2 Lbs/unit	NOx Lbs/unit	VOC Lbs/unit	CO Lbs/unit	Lead Lbs/unit	Ammonia Lbs/unit	Units
30501045	Mineral Products Bulldozing: Overburden									HR
30501046	Mineral Products Bulldozing: Coal									HR
30501047	Mineral Products Grading									MILE
30501107	Mineral Products Cement Unloading to Elevated Storage Silo							0.0000007 36		TON
30501109	Mineral Products Mixer Loading of Cement/Sand/Aggregate							0.0000003 82		TON
30501110	Mineral Products Loading of Transit Mix Truck							0.00000362		TON
30501201	Mineral Products Regenerative Furnace (Wool-type Fiber)			10	5	0.2	0.25			TON
30501202	Mineral Products Recuperative Furnace (Wool-type Fiber)			10	1.7	0.2	0.25			TON
30501203	Mineral Products Electric Furnace (Wool-type Fiber)			0.04	0.27	0.2	0.05			TON
30501207	Mineral Products Unit Melter Furnace (Wool-type Fiber)			0.6	0.3		0.25			TON
30501208	Mineral Products Forming: Flame Attenuation (Wool-type Fiber)						0.3			TON
30501209	Mineral Products Curing: Flame Attenuation (Wool-type Fiber)				2	7	3.5			TON
30501211	Mineral Products Regenerative Furnace (Textile-type Fiber)			30	20	0.2	1			TON
30501212	Mineral Products Recuperative Furnace (Textile-type Fiber)			3	20	0.2	0.5			TON
30501213	Mineral Products Unit Melter Furnace (Textile-type Fiber)				20		0.9			TON
30501215	Mineral Products Curing Oven (Textile-type Fiber)				2.6		1.5			TON
30501305	Mineral Products Rotary Smelting Furnace				16		4.8			TON
30501306	Mineral Products Continuous Smelting Furnace				16		4.8			TON

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Table 3
Source Classification Codes and Emission Factor Listing

SCC	PROCES DESCRIPTION	PM10 Lbs/unit	PM2.5 Lbs/unit	SO2 Lbs/unit	NOx Lbs/unit	VOC Lbs/unit	CO Lbs/unit	Lead Lbs/unit	Ammonia Lbs/unit	Units
30501402	Mineral Products Container Glass: Melting Furnace			3.4	6.2	0.2	0.2			TON
30501403	Mineral Products Flat Glass: Melting Furnace			3	8	0.1	0.1			TON
30501404	Mineral Products Pressed and Blown Glass: Melting Furnace			5.6	8.5	0.3	0.2			TON
30501406	Mineral Products Container Glass: Forming/Finishing					8.7				TON
30501408	Mineral Products Pressed and Blown Glass: Forming/Finishing					9				TON
30501414	Mineral Products Ground Cullet Beading Furnace			5.6	8.5	0.3				TON
30501603	Mineral Products Calcining: Vertical Kiln			8.2	2.8	0.02				TON
30501604	Mineral Products Calcining: Rotary Kiln ** (See SCC Codes 3-05-016-18,-19,-20,-21)			6.71	2.8	0.06	2			TON
30501605	Mineral Products Calcining: Gas-fired Calcimatic Kiln				0.15	0.02				TON
30501606	Mineral Products Fluidized Bed Kiln					0.02				TON
30501618	Mineral Products Calcining: Coal-fired Rotary Kiln			5.4	3.1		1.5			TON
30501619	Mineral Products Calcining: Gas-fired Rotary Kiln				3.5		2.2			TON
30501701	Mineral Products Cupola			8	1.6		250			TON
30501703	Mineral Products Blow Chamber			0.087		0.9				TON
30501704	Mineral Products Curing Oven			1.2	0.16	1				TON
30501705	Mineral Products Cooler			0.068		0.04				TON
30501901	Mineral Products Drying						0.34			TON
30502002	Mineral Products Secondary Crushing/Screening	0.0087								TON

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Table 3
Source Classification Codes and Emission Factor Listing

SCC	PROCES DESCRIPTION	PM10 Lbs/unit	PM2.5 Lbs/unit	SO2 Lbs/unit	NOx Lbs/unit	VOC Lbs/unit	CO Lbs/unit	Lead Lbs/unit	Ammonia Lbs/unit	Units
30502003	Mineral Products Tertiary Crushing/Screening	0.0024								TON
30502005	Mineral Products Fines Mill	0.015								TON
30502006	Mineral Products Miscellaneous Operations: Screen/Convey/Handling	0.0011	0.000013							TON
30502010	Mineral Products Drilling	0.00008								TON
30502021	Mineral Products Fines Screening	0.072								TON
30502031	Mineral Products Truck Unloading	0.000016								TON
30502032	Mineral Products Truck Loading: Conveyor	0.0001								TON
30502720	Mineral Products Sand Drying: Gas- or Oil-fired Rotary or Fluidized Bed Dryer				0.031					TON
30502910	Mineral Products Rotary Kiln			5.6			0.59			TON
30503301	Mineral Products General			0.47	0.08					TON
30531001	Mineral Products Fluidized Bed			1400	160	98				E3TON
30531002	Mineral Products Flash or Suspension			520						E3TON
30590001	Mineral Products Distillate Oil (No. 2): Process Heaters			1.436E2*S	20	0.2				E3GAL
30590002	Mineral Products Residual Oil: Process Heaters			1.586E2*S	55	0.28				E3GAL
30590003	Mineral Products Natural Gas: Process Heaters			0.6	140	2.8				E6FT3
30590011	Mineral Products Distillate Oil (No. 2): Incinerators					0.4				E3GAL
30590012	Mineral Products Residual Oil: Incinerators					0.56				E3GAL
30590013	Mineral Products Natural Gas: Incinerators					5.6				E6FT3

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Table 3
Source Classification Codes and Emission Factor Listing

SCC	PROCES DESCRIPTION	PM10 Lbs/unit	PM2.5 Lbs/unit	SO2 Lbs/unit	NOx Lbs/unit	VOC Lbs/unit	CO Lbs/unit	Lead Lbs/unit	Ammonia Lbs/unit	Units
30590023	Mineral Products Natural Gas: Flares					5.6				E6FT3
30600101	Petroleum Industry Oil-fired **			6.678E3*S	2310	12.6		0.0121716		E3BBL
30600102	Petroleum Industry Gas-fired **			9.5E-1*S	0.14		0.03			E3FT3
30600103	Petroleum Industry Oil-fired			1.586E2*S	55	0.3	5			E3GAL
30600104	Petroleum Industry Gas-fired				100	5.5	84			E6FT3
30600105	Petroleum Industry Natural Gas-fired			0.6	140	2.8	35			E6FT3
30600106	Petroleum Industry Process Gas-fired				140	2.8	35			E6FT3
30600107	Petroleum Industry LPG-fired				12.8	0.26	3.2			E3GAL
30600108	Petroleum Industry Landfill Gas-fired					2.8				E6FT3
30600111	Petroleum Industry Oil-fired (No. 6 Oil) > 100 Million Btu Capacity			1.593E2*S	67		5			E3GAL
30600201	Petroleum Industry Fluid Catalytic Cracking Unit			493	71	220	13700		54	E3BBL
30600301	Petroleum Industry Thermal Catalytic Cracking Unit			60	5	87	3800		6	E3BBL
30600401	Petroleum Industry Blowdown System with Vapor Recovery System with Flaring			26.9	18.9	0.8	4.3			E3BBL
30600402	Petroleum Industry Blowdown System w/o Controls					580				E3BBL
30600503	Petroleum Industry Process Drains and Wastewater Separators					5				E3GAL
30600504	Petroleum Industry Process Drains and Wastewater Separators					200				E3BBL
30600505	Petroleum Industry Wastewater Treatment w/o Separator					0.03				E3GAL
30600506	Petroleum Industry Wastewater Treatment w/o Separator					0.7				E3BBL

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Table 3
Source Classification Codes and Emission Factor Listing

SCC	PROCES DESCRIPTION	PM10 Lbs/unit	PM2.5 Lbs/unit	SO2 Lbs/unit	NOx Lbs/unit	VOC Lbs/unit	CO Lbs/unit	Lead Lbs/unit	Ammonia Lbs/unit	Units
30600602	Petroleum Industry Vacuum Distillation Column Condenser					50				E3BBL
30600603	Petroleum Industry Vacuum Distillation Column Condenser					18				E3BBL
30600701	Petroleum Industry Cooling Towers					6				E6GAL
30600702	Petroleum Industry Cooling Towers					10				E3BBL
30600811	Petroleum Industry Pipeline Valves: Gas Streams					517				EACH
30600812	Petroleum Industry Pipeline Valves: Light Liquid/Gas Streams					210				EACH
30600813	Petroleum Industry Pipeline Valves: Heavy Liquid Streams					4.38				EACH
30600814	Petroleum Industry Pipeline Valves: Hydrogen Streams					158				EACH
30600815	Petroleum Industry Open-ended Valves: All Streams					43.8				EACH
30600816	Petroleum Industry Flanges: All Streams					4.9				EACH
30600817	Petroleum Industry Pump Seals: Light Liquid/Gas Streams					2190				EACH
30600818	Petroleum Industry Pump Seals: Heavy Liquid Streams					403				EACH
30600819	Petroleum Industry Compressor Seals: Gas Streams					12300				EACH
30600820	Petroleum Industry Compressor Seals: Heavy Liquid Streams					964				EACH
30600821	Petroleum Industry Drains: All Streams					613				EACH
30600822	Petroleum Industry Vessel Relief Valves: All Streams					3150				EACH
30600903	Petroleum Industry Natural Gas					5.6				E6FT3
30600904	Petroleum Industry Process Gas					5.6				E6FT3

Table 3
Source Classification Codes and Emission Factor Listing

SCC	PROCES DESCRIPTION	PM10 Lbs/unit	PM2.5 Lbs/unit	SO2 Lbs/unit	NOx Lbs/unit	VOC Lbs/unit	CO Lbs/unit	Lead Lbs/unit	Ammonia Lbs/unit	Units
30601001	Petroleum Industry General					35.6				TON
30601101	Petroleum Industry General					60				TON
30601201	Petroleum Industry General					16				E3BBL
30601401	Petroleum Industry Coke Calciner			16	1.1	0.7				TON
30602401	Petroleum Industry Natural Gas Fired								0.2	E3FT3
30609901	Petroleum Industry Distillate Oil (No. 2)					0.4				E3GAL
30609902	Petroleum Industry Residual Oil					0.56				E3GAL
30609903	Petroleum Industry Natural Gas					5.6				E6FT3
30609904	Petroleum Industry Process Gas					5.6				E6FT3
30700102	Pulp and Paper and Wood Products Washer/Screens			0.01		0.2				TON
30700104	Pulp and Paper and Wood Products Recovery Furnace/Direct Contact Evaporator			7	2	1.95	11			TON
30700105	Pulp and Paper and Wood Products Smelt Dissolving Tank			0.2	1	0.16				TON
30700106	Pulp and Paper and Wood Products Lime Kiln			0.3	2.8	0.25	0.1	0.000109		TON
30700107	Pulp and Paper and Wood Products Turpentine Condenser					0.07				TON
30700108	Pulp and Paper and Wood Products Fluid Bed Calciner			0.3	2.8	0.25				TON
30700109	Pulp and Paper and Wood Products Liquor Oxidation Tower			0.02		0.45				TON
30700110	Pulp and Paper and Wood Products Recovery Furnace/Indirect Contact Evaporator				1.9	0.8	11			TON
30700221	Pulp and Paper and Wood Products Recovery System: MgO			9						TON

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Table 3
Source Classification Codes and Emission Factor Listing

SCC	PROCES DESCRIPTION	PM10 Lbs/unit	PM2.5 Lbs/unit	SO2 Lbs/unit	NOx Lbs/unit	VOC Lbs/unit	CO Lbs/unit	Lead Lbs/unit	Ammonia Lbs/unit	Units
30700222	Pulp and Paper and Wood Products Recovery System: NH3			7						TON
30700223	Pulp and Paper and Wood Products Recovery System: Na			2						TON
30700231	Pulp and Paper and Wood Products Acid Plant: NH3			0.3		3.5				TON
30700232	Pulp and Paper and Wood Products Acid Plant: Na			0.2		3.5				TON
30700233	Pulp and Paper and Wood Products Acid Plant: Ca			8		3.5				TON
30700301	Pulp and Paper and Wood Products Digester/Blow Pit/Dump Tank			4						TON
30700302	Pulp and Paper and Wood Products Evaporator			0.01						TON
30700303	Pulp and Paper and Wood Products Fluid Bed Reactor				1.6	0.25				TON
30700401	Pulp and Paper and Wood Products Paperboard: General					0.2				TON
30700402	Pulp and Paper and Wood Products Fiberboard: General					2.5				TON
30700530	Pulp and Paper and Wood Products Empty-cell process, creosote					0.00074				FT3
30700540	Pulp and Paper and Wood Products Empty-cell process with artificial conditioning, creosote					0.0058				FT3
30700607	Pulp and Paper and Wood Products Direct Wood-fired Rotary Dryer, Softwood				0.58	0.9	0.68			TON
30700608	Pulp and Paper and Wood Products Direct Wood-fired Rotary Dryer, mixed soft/hardwoods				1.8	0.059	0.59			TON
30700610	Pulp and Paper and Wood Products Direct Wood-fired Rotary Dryer, Hardwoods				0.92	0.24	5.7			TON
30700625	Pulp and Paper and Wood Products Direct Wood-fired Rotary Dryer, Softwood, green (>50%inlet moisture)				2.7	4.7	3.5			TON
30700626	Pulp and Paper and Wood Products Direct Wood-fired Rotary Dryer, mixed soft/hardwoods, green				1.4	1.6	0.77			TON
30700630	Pulp and Paper and Wood Products Direct Natural Gas-fired Rotary Dryer, Softwood					2				TON

Table 3
Source Classification Codes and Emission Factor Listing

SCC	PROCES DESCRIPTION	PM10 Lbs/unit	PM2.5 Lbs/unit	SO2 Lbs/unit	NOx Lbs/unit	VOC Lbs/unit	CO Lbs/unit	Lead Lbs/unit	Ammonia Lbs/unit	Units
30700631	Pulp and Paper and Wood Products Direct Natural Gas-fired Rotary Dryer, Softwood, green (>50% moisture)					0.94				TON
30700632	Pulp and Paper and Wood Products Direct Natural Gas-fired Rotary Dryer, Hardwood				0.024	0.28	1.2			TON
30700635	Pulp and Paper and Wood Products Indirect Natural Gas-heated Rotary Dryer, Softwood				0.31	0.3	0.12			TON
30700651	Pulp and Paper and Wood Products Batch Hot Press, Urea Formaldehyde Resin				0.017	1.1	0.22			E3FT2
30700661	Pulp and Paper and Wood Products Particleboard Board Cooler, Urea-Formaldehyde Resin					0.091	0.15			E3FT2
30700664	Pulp and Paper and Wood Products Flaker/refiner/hammermill, softwoods & mixtures containing softwoods					1.1				TON
30700665	Pulp and Paper and Wood Products Sander					0.079				E3FT2
30700734	Pulp and Paper and Wood Products Hardwood Plywood, Veneer Dryer, Direct Wood-fired, Heated Zones					0.063	0.23			E3FT2
30700735	Pulp and Paper and Wood Products Hardwood Plywood, Veneer Dryer, Direct Wood-fired, Cooling Section					0.0045				E3FT2
30700736	Pulp and Paper and Wood Products Softwood Plywood, Veneer Dryer, Direct Wood-fired, Heated Zones				0.17	1.1	3.2			E3FT2
30700752	Pulp and Paper and Wood Products Softwood Plywood, Veneer Dryer, Direct Natural Gas-Fired, Heated Zones				0.012	2.5	0.64			E3FT2
30700753	Pulp and Paper and Wood Products Softwood Plywood, Veneer Dryer, Direct Nat Gas-Fired, Cooling Section					0.044	0.01			E3FT2
30700756	Pulp and Paper and Wood Products Hardwood Plywood, Veneer Dryer, Indirect-heated, Heated Zones					0.28	0.0088			E3FT2
30700757	Pulp and Paper and Wood Products Hardwood Plywood, Veneer Dryer, Indirect-heated, Cooling Section					0.72	0.099			E3FT2
30700762	Pulp and Paper and Wood Products Softwood Plywood, Veneer Dryer, Indirect-heated, Heated Zones					1.8	0.028			E3FT2
30700763	Pulp and Paper and Wood Products Softwood Plywood, Veneer Dryer, Indirect-heated, Cooling Section					0.054	0.043			E3FT2
30700771	Pulp and Paper and Wood Products Softwood Plywood, Veneer Dryer, Radio Frequency-Heated					0.28				E3FT2

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Table 3
Source Classification Codes and Emission Factor Listing

SCC	PROCES DESCRIPTION	PM10 Lbs/unit	PM2.5 Lbs/unit	SO2 Lbs/unit	NOx Lbs/unit	VOC Lbs/unit	CO Lbs/unit	Lead Lbs/unit	Ammonia Lbs/unit	Units
30700783	Pulp and Paper and Wood Products Softwood Plywood Press: Phenol-formaldehyde Resin					0.25				E3FT2
30700785	Pulp and Paper and Wood Products Hardwood Plywood Press: Urea-formaldehyde Resin					0.047				E3FT2
30700788	Pulp and Paper and Wood Products HardwdPlywd,Comb'dDustBH:Trim&CoreSaws,Composr,DryHog,Hammermill,Sandr					0.014				E3FT2
30700790	Pulp and Paper and Wood Products Softwood Plywood, Dry Veneer Trim Chipper					0.072				E3FT2
30700791	Pulp and Paper and Wood Products Softwood Plywood, Dry Plywood Trim Chippers					0.068				E3FT2
30700792	Pulp and Paper and Wood Products Softwood Plywood, Sanders and Specialty Saw					0.18				E3FT2
30700793	Pulp and Paper and Wood Products Softwood Plywood, Saws, Hog, and Sander					0.086				E3FT2
30700923	Pulp and Paper and Wood Products Direct Wood-fired Tube Dryer, Blowline Blend, UF Resin, Softwoods					6.7	4			TON
30700927	Pulp and Paper and Wood Products Direct Natural Gas-fired Tube Dryer, Non-blowline Blend, Hardwoods					1.2	0.2			TON
30700932	Pulp and Paper and Wood Products Indirect-heated Tube Dryer, Blowline Blend, UF Resin, Softwoods					5.6	0.068			TON
30700933	Pulp and Paper and Wood Products Indirect-heated Tube Dryer, Non-blowline Blend, Softwoods					2.1	0.11			TON
30700936	Pulp and Paper and Wood Products Indirect-heated Tube Dryer, Blowline Blend, UF Resin, Hardwoods					4.8				TON
30700937	Pulp and Paper and Wood Products Indirect-heated Second Stage Tube Dryer, Blowline Blend, Softwoods					0.18				TON
30700940	Pulp and Paper and Wood Products Direct Natural Gas-fired Rotary Predryer, Softwoods					0.95	0.24			TON
30700960	Pulp and Paper and Wood Products Batch Hot Press, UF Resin				0.03	0.8	0.034			E3FT2
30700971	Pulp and Paper and Wood Products MDF Board Cooler, UF Resin					0.13				E3FT2
30700982	Pulp and Paper and Wood Products Former With Blowline Blend, UF Resin					0.067				TON

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Table 3
Source Classification Codes and Emission Factor Listing

SCC	PROCES DESCRIPTION	PM10 Lbs/unit	PM2.5 Lbs/unit	SO2 Lbs/unit	NOx Lbs/unit	VOC Lbs/unit	CO Lbs/unit	Lead Lbs/unit	Ammonia Lbs/unit	Units
30700983	Pulp and Paper and Wood Products Sander					0.0066				E3FT2
30700984	Pulp and Paper and Wood Products Saw and hogger (pulverizer)					0.13				E3FT2
30701009	Pulp and Paper and Wood Products Direct Wood-fired Rotary Dryer, Softwoods				0.7	8.1	5.3			TON
30701010	Pulp and Paper and Wood Products Direct Wood-fired Rotary Dryer, Hardwoods				0.63	2.1	5.5			TON
30701015	Pulp and Paper and Wood Products Direct Wood-fired Rotary Dryer, Mixed (40-60% softwd, 40-60% hardwood)				0.51	4.4	5.9			TON
30701020	Pulp and Paper and Wood Products Direct Natural Gas-fired Rotary Dryer, Hardwoods				0.68		0.72			TON
30701030	Pulp and Paper and Wood Products Indirect-heated Rotary Dryer, Hardwoods					0.51				TON
30701053	Pulp and Paper and Wood Products Hot Press, Phenol-Formaldehyde Resin				0.049	0.21	0.095			E3FT2
30701054	Pulp and Paper and Wood Products Hot Press, Phenol-Formaldehyde Resin (Dry)				0.0014		0.0026			E3FT2
30701055	Pulp and Paper and Wood Products Hot Press, Methylene Diphenyl Diisocyanate Resin				0.019	0.2	0.11			E3FT2
30701057	Pulp and Paper and Wood Products Hot Press, PF Resin (surface layers) / MDI Resin (core layers)			0.037	0.041	0.67	0.1			E3FT2
30701060	Pulp and Paper and Wood Products Blender, PF Resin/MDI Resin					0.16				E3FT2
30701062	Pulp and Paper and Wood Products Sanderdust Metering Bin					0.12				E3FT2
30701064	Pulp and Paper and Wood Products Raw Fuel Bin					0.06				E3FT2
30701410	Pulp and Paper and Wood Products Tube dryer, direct wood-fired, blowline blend, PF resin, hardwood					1.1	0.085			TON
30701415	Pulp and Paper and Wood Products Tube dryer, direct NG-fired, blowline blend, PF resin, hardwood				0.44	5	0.067			TON
30701416	Pulp and Paper and Wood Products Board dryer,direct NG-fired,softwood, linseed oil binder(heated zones)						0.49			E3FT2

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Table 3
Source Classification Codes and Emission Factor Listing

SCC	PROCES DESCRIPTION	PM10 Lbs/unit	PM2.5 Lbs/unit	SO2 Lbs/unit	NOx Lbs/unit	VOC Lbs/unit	CO Lbs/unit	Lead Lbs/unit	Ammonia Lbs/unit	Units
30701420	Pulp and Paper and Wood Products Tempering oven, direct natural gas-fired, hardwood					0.61	0.11			E3FT2
30701425	Pulp and Paper and Wood Products Tube dryer, second stage, indirect heated, hardwood					0.27	0.076			TON
30701430	Pulp and Paper and Wood Products Humidification kiln, indirect heated				0.0028	0.76	0.16			E3FT2
30701440	Pulp and Paper and Wood Products Hot press, PF resin					0.52				E3FT2
30701442	Pulp and Paper and Wood Products Hot press, linseed oil binder					0.71				E3FT2
30701482	Pulp and Paper and Wood Products Log chipper, hardwood					0.005				TON
30701484	Pulp and Paper and Wood Products Pressurized digester/refiner, hardwood					0.49				TON
30701510	Pulp and Paper and Wood Products Board dryer, indirect heated, softwood, starch binder (heated zones)					0.082	0.092			E3FT2
30701512	Pulp and Paper and Wood Products Board dryer, indirect htd, softwood, 6-12% asphalt binder(heated zones)					0.14	0.029			E3FT2
30701530	Pulp and Paper and Wood Products Atmospheric refiner and dump chest, softwood					0.96				TON
30701540	Pulp and Paper and Wood Products Washer, softwood					0.23				TON
30701550	Pulp and Paper and Wood Products Former, vacuum system, wet, 6-12% asphalt					0.17				E3FT2
30701601	Pulp and Paper and Wood Products LVL, veneer, indirect heated, hardwood (heated zones)					0.016				E3FT2
30701602	Pulp and Paper and Wood Products LVL, veneer, indirect heated, hardwood (cooling section)					0.26				E3FT2
30701612	Pulp and Paper and Wood Products LVL, press, PF resin					10.4				E3FT3
30701620	Pulp and Paper and Wood Products LVL, I-Beam Saw					0.11				E3FT
30701630	Pulp and Paper and Wood Products I-Joist manufacture: I-Joist, curing chamber					0.0035				E3FT

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Table 3
Source Classification Codes and Emission Factor Listing

SCC	PROCES DESCRIPTION	PM10 Lbs/unit	PM2.5 Lbs/unit	SO2 Lbs/unit	NOx Lbs/unit	VOC Lbs/unit	CO Lbs/unit	Lead Lbs/unit	Ammonia Lbs/unit	Units
30701640	Pulp and Paper and Wood Products LSL, rotary, direct wood-fired, hardwood				0.47	0.29	1.3			TON
30701641	Pulp and Paper and Wood Products LSL, conveyor, indirect heated, hardwood				2.3					TON
30701650	Pulp and Paper and Wood Products LSL, press, MDI resin						0.7			E3FT3
30790001	Pulp and Paper and Wood Products Distillate Oil (No. 2): Process Heaters			1.436E2*S	20	0.2				E3GAL
30790002	Pulp and Paper and Wood Products Residual Oil: Process Heaters			1.586E2*S	55	0.28				E3GAL
30790003	Pulp and Paper and Wood Products Natural Gas: Process Heaters			0.6	140	2.8				E6FT3
30790011	Pulp and Paper and Wood Products Distillate Oil (No. 2): Incinerators					0.4				E3GAL
30790012	Pulp and Paper and Wood Products Residual Oil: Incinerators					0.56				E3GAL
30790013	Pulp and Paper and Wood Products Natural Gas: Incinerators					5.6				E6FT3
30790023	Pulp and Paper and Wood Products Natural Gas: Flares					5.6				E6FT3
30800101	Rubber and Miscellaneous Plastics Products Undertread and Sidewall Cementing					230				E3EACH
30800102	Rubber and Miscellaneous Plastics Products Bead Dipping					13.3				E3EACH
30800103	Rubber and Miscellaneous Plastics Products Bead Swabbing					18.3				E3EACH
30800104	Rubber and Miscellaneous Plastics Products Tire Building					72.6				E3EACH
30800105	Rubber and Miscellaneous Plastics Products Tread End Cementing					33.2				E3EACH
30800106	Rubber and Miscellaneous Plastics Products Green Tire Spraying					302				E3EACH
30800107	Rubber and Miscellaneous Plastics Products Tire Curing					4.4				E3EACH

Table 3
Source Classification Codes and Emission Factor Listing

SCC	PROCES DESCRIPTION	PM10 Lbs/unit	PM2.5 Lbs/unit	SO2 Lbs/unit	NOx Lbs/unit	VOC Lbs/unit	CO Lbs/unit	Lead Lbs/unit	Ammonia Lbs/unit	Units
30800108	Rubber and Miscellaneous Plastics Products Solvent Mixing					10.8				TON
30800120	Rubber and Miscellaneous Plastics Products Undertread and Sidewall Cementing					1800				TON
30800121	Rubber and Miscellaneous Plastics Products Tread End Cementing					1800				TON
30800122	Rubber and Miscellaneous Plastics Products Bead Dipping					1800				TON
30800123	Rubber and Miscellaneous Plastics Products Green Tire Spraying					1840				TON
30800501	Rubber and Miscellaneous Plastics Products Tire Buffing Machines					600				E3EACH
30800701	Rubber and Miscellaneous Plastics Products Plastics Machining: Drilling/Sanding/Sawing/etc.					13				TON
30800703	Rubber and Miscellaneous Plastics Products Solvent Consumption					649				TON
30800704	Rubber and Miscellaneous Plastics Products Adhesive Consumption					649				TON
30800721	Rubber and Miscellaneous Plastics Products Gel Coat: Roll On					940				TON
30800722	Rubber and Miscellaneous Plastics Products Gel Coat: Spray On					600				TON
30800723	Rubber and Miscellaneous Plastics Products Resin: General: Roll On					500				TON
30800724	Rubber and Miscellaneous Plastics Products Resin: General: Spray On ** (use 3-08-007-30)					220				TON
30800901	Rubber and Miscellaneous Plastics Products Polystyrene: General					49.8				TON

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Table 3
Source Classification Codes and Emission Factor Listing

SCC	PROCES DESCRIPTION	PM10 Lbs/unit	PM2.5 Lbs/unit	SO2 Lbs/unit	NOx Lbs/unit	VOC Lbs/unit	CO Lbs/unit	Lead Lbs/unit	Ammonia Lbs/unit	Units
30890001	Rubber and Miscellaneous Plastics Products Distillate Oil (No. 2): Process Heaters			1.436E2*S	20	0.2				E3GAL
30890002	Rubber and Miscellaneous Plastics Products Residual Oil: Process Heaters			1.586E2*S	55	0.28				E3GAL
30890003	Rubber and Miscellaneous Plastics Products Natural Gas: Process Heaters			0.6	140	2.8				E6FT3
30890011	Rubber and Miscellaneous Plastics Products Distillate Oil (No. 2): Incinerators					0.4				E3GAL
30890012	Rubber and Miscellaneous Plastics Products Residual Oil: Incinerators					0.56				E3GAL
30890013	Rubber and Miscellaneous Plastics Products Natural Gas: Incinerators					5.6				E6FT3
30890023	Rubber and Miscellaneous Plastics Products Natural Gas: Flares					5.6				E6FT3
30900202	Fabricated Metal Products Sand Abrasive	26	2.6							TON
30901001	Fabricated Metal Products Entire Process: General				0.009	0.026				FT2
30901028	Fabricated Metal Products Decorative Chromium - Electroplating Tank	0.069								AMP-HR
30901038	Fabricated Metal Products Chromic Acid Anodizing - Anodizing Tank	4.2								E3FT2
30901101	Fabricated Metal Products Alkaline Cleaning Bath				0.3					TON
30901102	Fabricated Metal Products Acid Cleaning Bath (Pickling)				13					TON
30901103	Fabricated Metal Products Anodizing Kettle				0.2					TON
30901104	Fabricated Metal Products Rinsing/Finishing				8	100				TON
30901501	Fabricated Metal Products Milling Tank				160					TON
30901601	Fabricated Metal Products Asphalt Dipping					1000				TON
30901605	Fabricated Metal Products Asphalt Dipping					23.3				E3FT2

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Table 3
Source Classification Codes and Emission Factor Listing

SCC	PROCES DESCRIPTION	PM10 Lbs/unit	PM2.5 Lbs/unit	SO2 Lbs/unit	NOx Lbs/unit	VOC Lbs/unit	CO Lbs/unit	Lead Lbs/unit	Ammonia Lbs/unit	Units
30901606	Fabricated Metal Products Pipe Spinning					23.3				E3FT2
30901607	Fabricated Metal Products Pipe Wrapping					23.3				E3FT2
30902501	Fabricated Metal Products Drum Burning Furnace				0.002					EACH
30904001	Fabricated Metal Products Metallizing: Wire Atomization and Spraying							0.5		TON
30905116	Fabricated Metal Products E310 Electrode							0.024		E3LB
30905152	Fabricated Metal Products E7028 Electrode							0.162		E3LB
30990001	Fabricated Metal Products Distillate Oil (No. 2): Process Heaters			1.436E2*S	20	0.2				E3GAL
30990002	Fabricated Metal Products Residual Oil: Process Heaters			1.586E2*S	55	0.28				E3GAL
30990003	Fabricated Metal Products Natural Gas: Process Heaters			0.6	140	2.8				E6FT3
30990011	Fabricated Metal Products Distillate Oil (No. 2): Incinerators					0.4				E3GAL
30990012	Fabricated Metal Products Residual Oil: Incinerators					0.56				E3GAL
30990013	Fabricated Metal Products Natural Gas: Incinerators					5.6				E6FT3
30990023	Fabricated Metal Products Natural Gas: Flares					5.6				E6FT3
31000101	Oil and Gas Production Complete Well: Fugitive Emissions					396				EACH
31000102	Oil and Gas Production Miscellaneous Well: General					280				EACH
31000103	Oil and Gas Production Wells: Rod Pumps					456				EACH
31000104	Oil and Gas Production Crude Oil Sumps					9				FT2
31000105	Oil and Gas Production Crude Oil Pits					9				FT2

Table 3
Source Classification Codes and Emission Factor Listing

SCC	PROCES DESCRIPTION	PM10 Lbs/unit	PM2.5 Lbs/unit	SO2 Lbs/unit	NOx Lbs/unit	VOC Lbs/unit	CO Lbs/unit	Lead Lbs/unit	Ammonia Lbs/unit	Units
31000203	Oil and Gas Production Compressors					6				E6FT3
31000204	Oil and Gas Production Wells					35.3				E6FT3
31000205	Oil and Gas Production Flares					5.6				E6FT3
31000206	Oil and Gas Production Gas Lift					6				E6FT3
31000401	Oil and Gas Production Distillate Oil (No. 2)			1.436E2*S	20	0.2	5			E3GAL
31000402	Oil and Gas Production Residual Oil			1.586E2*S	55	0.28	5	0.00224		E3GAL
31000403	Oil and Gas Production Crude Oil			1.586E2*S	55	0.28	5			E3GAL
31000404	Oil and Gas Production Natural Gas			0.6	140	2.8	35			E6FT3
31000405	Oil and Gas Production Process Gas			9.5E2*S	140	2.8	35			E6FT3
31000411	Oil and Gas Production Distillate Oil (No. 2): Steam Generators			1.436E2*S	20	0.2	5			E3GAL
31000412	Oil and Gas Production Residual Oil: Steam Generators			1.586E2*S	55	0.28	5			E3GAL
31000413	Oil and Gas Production Crude Oil: Steam Generators			1.586E2*S	55	0.28	5			E3GAL
31000414	Oil and Gas Production Natural Gas: Steam Generators			0.6	140	2.8	35			E6FT3
31000415	Oil and Gas Production Process Gas: Steam Generators				140	2.8	35			E6FT3
31307001	Electrical Equipment Single Chamber Incinerator/Oven			2.5		950				TON
31307002	Electrical Equipment Multiple Chamber Incinerator/Oven			2.5	0.1	190				TON
31390001	Electrical Equipment Distillate Oil (No. 2)			1.436E2*S	20	0.2				E3GAL
31390002	Electrical Equipment Residual Oil			1.586E2*S	55	0.28				E3GAL

Table 3
Source Classification Codes and Emission Factor Listing

SCC	PROCES DESCRIPTION	PM10 Lbs/unit	PM2.5 Lbs/unit	SO2 Lbs/unit	NOx Lbs/unit	VOC Lbs/unit	CO Lbs/unit	Lead Lbs/unit	Ammonia Lbs/unit	Units
31390003	Electrical Equipment Natural Gas			0.6	140	2.8				E6FT3
31401001	Transportation Equipment Single Chamber Incinerator			2.5		950				TON
31401002	Transportation Equipment Multiple Chamber Incinerator			2.5		190				TON
31501002	Photo Equip/Health Care/Labs/Air Condit/SwimPools Toner Classification					630				E3LB
31502001	Photo Equip/Health Care/Labs/Air Condit/SwimPools Sterilization with Ethylene Oxide					2000				TON
31502101	Photo Equip/Health Care/Labs/Air Condit/SwimPools Crematory Stack							0.0000662		EACH
32099998	Leather and Leather Products Other Not Classified					19				GAL
33000102	Textile Products Printing					284				TON
33000104	Textile Products Tenter Frames: Heat Setting					0.47				TON
33000211	Textile Products Impregnation					120				TON
33000212	Textile Products Wet Coating					1200				TON
33000213	Textile Products Hot Melt Coating					120				TON
33000214	Textile Products Wet Coating Mixing					120				TON
33000297	Textile Products Other Not Classified					2000				TON
36000101	Printing and Publishing Remelting (Lead Emissions Only)							0.25		TON
38500102	Cooling Tower Natural Draft					0.03				E6GAL
39000189	In-process Fuel Use General			3.9E1*S	18	0.07	0.6	0.0133		TON
39000288	In-process Fuel Use General (Subbituminous)			3.9E1*S	34	0.07	0.6			TON

Table 3
Source Classification Codes and Emission Factor Listing

SCC	PROCES DESCRIPTION	PM10 Lbs/unit	PM2.5 Lbs/unit	SO2 Lbs/unit	NOx Lbs/unit	VOC Lbs/unit	CO Lbs/unit	Lead Lbs/unit	Ammonia Lbs/unit	Units
39000289	In-process Fuel Use General (Bituminous)			3.9E1*S	34	0.07	0.6	0.0133		TON
39000389	In-process Fuel Use General			3E1*S	14	0.07	0.6			TON
39000403	In-process Fuel Use Lime Kiln			7.95E1*S						E3GAL
39000489	In-process Fuel Use General			1.586E2*S	55	0.28	5	0.0042		E3GAL
39000502	In-process Fuel Use Cement Kiln/Dryer			9.8E1*S						E3GAL
39000503	In-process Fuel Use Lime Kiln			7.2E1*S						E3GAL
39000588	In-process Fuel Use PROCESS FUEL: #4 OIL			152*S	20	0.298	5	0.0004		E3GAL
39000589	In-process Fuel Use General			1.436E2*S	20	0.2	5	0.0012		E3GAL
39000689	In-process Fuel Use General			0.6	100	5.94	84	0.0005		E6FT3
39000889	In-process Fuel Use General			38*S	14	0.0623	0.6			TON
39000989	In-process Fuel Use General			0.15	0.68	1.4	4			TON
39001089	In-process Fuel Use General			0.02*S	14	0.5	1.9			E3GAL
39001389	In-process Fuel Use General			147*S	20	1	5	1.68		E3GAL
39990001	Miscellaneous Manufacturing Industries Distillate Oil (No. 2): Process Heaters			1.436E2*S	20	0.2				E3GAL
39990002	Miscellaneous Manufacturing Industries Residual Oil: Process Heaters			1.586E2*S	55	0.28				E3GAL
39990003	Miscellaneous Manufacturing Industries Natural Gas: Process Heaters			0.6	140	2.8				E6FT3
39990004	Miscellaneous Manufacturing Industries Process Gas: Process Heaters			9.5E2*S	140	2.8				E6FT3
39990011	Miscellaneous Manufacturing Industries Distillate Oil (No. 2): Incinerators					0.4				E3GAL

Table 3
Source Classification Codes and Emission Factor Listing

SCC	PROCES DESCRIPTION	PM10 Lbs/unit	PM2.5 Lbs/unit	SO2 Lbs/unit	NOx Lbs/unit	VOC Lbs/unit	CO Lbs/unit	Lead Lbs/unit	Ammonia Lbs/unit	Units
39990012	Miscellaneous Manufacturing Industries Residual Oil: Incinerators					0.56				E3GAL
39990013	Miscellaneous Manufacturing Industries Natural Gas: Incinerators					5.6				E6FT3
39990014	Miscellaneous Manufacturing Industries Process Gas: Incinerators					5.6				E6FT3
39990023	Miscellaneous Manufacturing Industries Natural Gas: Flares					5.6				E6FT3
39990024	Miscellaneous Manufacturing Industries Process Gas: Flares					5.6				E6FT3
40100101	Organic Solvent Evaporation Perchloroethylene					550				TON
40100102	Organic Solvent Evaporation Stoddard (Petroleum Solvent) ** (Use 4-10-001-01 or 4-10-002-01)					560				TON
40100103	Organic Solvent Evaporation Perchloroethylene					2000				TON
40100104	Organic Solvent Evaporation Stoddard (Petroleum Solvent) ** (Use 4-10-001-02 or 4-10-002-02)					2000				TON
40100105	Organic Solvent Evaporation Trichlorotrifluoroethane (Freon)					2000				TON
40100201	Organic Solvent Evaporation Stoddard (Petroleum Solvent): Open-top Vapor Degreasing					2000				TON
40100203	Organic Solvent Evaporation Perchloroethylene: Open-top Vapor Degreasing					2000				TON
40100204	Organic Solvent Evaporation Methylene Chloride: Open- top Vapor Degreasing					2000				TON
40100205	Organic Solvent Evaporation Trichloroethylene: Open-top Vapor Degreasing					2000				TON
40100206	Organic Solvent Evaporation Toluene: Open-top Vapor Degreasing					2000				TON
40100208	Organic Solvent Evaporation Chlorosolve: Open-top Vapor Degreasing					2000				TON
40100209	Organic Solvent Evaporation Butyl Acetate: Open-top Vapor Degreasing					2000				TON

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Table 3
Source Classification Codes and Emission Factor Listing

SCC	PROCES DESCRIPTION	PM10 Lbs/unit	PM2.5 Lbs/unit	SO2 Lbs/unit	NOx Lbs/unit	VOC Lbs/unit	CO Lbs/unit	Lead Lbs/unit	Ammonia Lbs/unit	Units
40100215	Organic Solvent Evaporation Entire Unit: Open-top Vapor Degreasing					21000				TON
40100216	Organic Solvent Evaporation Degreaser: Entire Unit					150				E3FT2
40100217	Organic Solvent Evaporation Entire Unit					0.15				FT2
40100221	Organic Solvent Evaporation Stoddard (Petroleum Solvent): Conveyorized Vapor Degreasing					2000				TON
40100222	Organic Solvent Evaporation 1,1,1-Trichloroethane (Methyl Chloroform):Conveyorized Vapor Degreaser					1030				TON
40100223	Organic Solvent Evaporation Perchloroethylene: Conveyorized Vapor Degreasing					2000				TON
40100224	Organic Solvent Evaporation Methylene Chloride: Conveyorized Vapor Degreasing					2000				TON
40100225	Organic Solvent Evaporation Trichloroethylene: Conveyorized Vapor Degreasing					2000				TON
40100227	Organic Solvent Evaporation CONV VAPOR DEG: FREON 113					2000				TON
40100235	Organic Solvent Evaporation Entire Unit: with Vaporized Solvent: Conveyorized Vapor Degreasing					52000				EACH
40100236	Organic Solvent Evaporation Entire Unit: with Non-boiling Solvent: Conveyorized Vapor Degreasing					104000				EACH
40100252	Organic Solvent Evaporation 1,1,1-Trichloroethane (Methyl Chloroform): General Degreasing Units					2000				TON
40100254	Organic Solvent Evaporation Methylene Chloride: General Degreasing Units					2000				TON
40100257	Organic Solvent Evaporation Trichlorotrifluoroethane (Freon): General Degreasing Units					2000				TON
40100295	Organic Solvent Evaporation Other Not Classified: General Degreasing Units					2000				GAL
40100296	Organic Solvent Evaporation Other Not Classified: General Degreasing Units					2000				TON
40100297	Organic Solvent Evaporation Other Not Classified: Open-top Vapor Degreasing					2000				TON

Table 3
Source Classification Codes and Emission Factor Listing

SCC	PROCES DESCRIPTION	PM10 Lbs/unit	PM2.5 Lbs/unit	SO2 Lbs/unit	NOx Lbs/unit	VOC Lbs/unit	CO Lbs/unit	Lead Lbs/unit	Ammonia Lbs/unit	Units
40100298	Organic Solvent Evaporation Other Not Classified: ConveyORIZED Vapor Degreasing					2000				TON
40100299	Organic Solvent Evaporation Other Not Classified: Open-top Vapor Degreasing					2000				TON
40100301	Organic Solvent Evaporation Methanol					2000				TON
40100302	Organic Solvent Evaporation Methylene Chloride					2000				TON
40100303	Organic Solvent Evaporation Stoddard (Petroleum Solvent)					2000				TON
40100304	Organic Solvent Evaporation Perchloroethylene					2000				TON
40100305	Organic Solvent Evaporation 1,1,1-Trichloroethane (Methyl Chloroform)					2000				TON
40100306	Organic Solvent Evaporation Trichloroethylene					2000				TON
40100307	Organic Solvent Evaporation Isopropyl Alcohol					2000				TON
40100308	Organic Solvent Evaporation Methyl Ethyl Ketone					2000				TON
40100309	Organic Solvent Evaporation Freon					2000				TON
40100310	Organic Solvent Evaporation Acetone					2000				TON
40100335	Organic Solvent Evaporation Entire Unit					660				EACH
40100336	Organic Solvent Evaporation Degreaser: Entire Unit					80				E3FT2
40100399	Organic Solvent Evaporation Other Not Classified					2000				TON
40100401	Organic Solvent Evaporation Perchloroethylene					2000				TON
40100499	Organic Solvent Evaporation Other Not Classified					2000				TON
40200101	Surface Coating Operations Paint: Solvent-base					1120				TON

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Table 3
Source Classification Codes and Emission Factor Listing

SCC	PROCES DESCRIPTION	PM10 Lbs/unit	PM2.5 Lbs/unit	SO2 Lbs/unit	NOx Lbs/unit	VOC Lbs/unit	CO Lbs/unit	Lead Lbs/unit	Ammonia Lbs/unit	Units
40200110	Surface Coating Operations Paint: Solvent-base					5.6				GAL
40200201	Surface Coating Operations Paint: Water-base					246				TON
40200210	Surface Coating Operations Paint: Water-base					1.3				GAL
40200301	Surface Coating Operations Varnish/Shellac					1000				TON
40200310	Surface Coating Operations Varnish/Shellac					3.3				GAL
40200401	Surface Coating Operations Lacquer					1540				TON
40200410	Surface Coating Operations Lacquer					6.1				GAL
40200501	Surface Coating Operations Enamel					840				TON
40200510	Surface Coating Operations Enamel					3.5				GAL
40200601	Surface Coating Operations Primer					1320				TON
40200610	Surface Coating Operations Primer					6.6				GAL
40200701	Surface Coating Operations Adhesive Application					1270				TON
40200706	Surface Coating Operations Adhesive: Solvent Mixing					200				TON
40200710	Surface Coating Operations Adhesive: General					4.4				GAL
40200801	Surface Coating Operations General			5	54	800				TON
40200901	Surface Coating Operations General: Specify in Comments					2000				TON
40200902	Surface Coating Operations Acetone					2000				TON
40200903	Surface Coating Operations Butyl Acetate					2000				TON

Table 3
Source Classification Codes and Emission Factor Listing

SCC	PROCES DESCRIPTION	PM10 Lbs/unit	PM2.5 Lbs/unit	SO2 Lbs/unit	NOx Lbs/unit	VOC Lbs/unit	CO Lbs/unit	Lead Lbs/unit	Ammonia Lbs/unit	Units
40200904	Surface Coating Operations Butyl Alcohol					2000				TON
40200905	Surface Coating Operations Carbitol					2000				TON
40200906	Surface Coating Operations Cellosolve					2000				TON
40200907	Surface Coating Operations Cellosolve Acetate					2000				TON
40200908	Surface Coating Operations Dimethyl Formamide					2000				TON
40200909	Surface Coating Operations Ethyl Acetate					2000				TON
40200910	Surface Coating Operations Ethyl Alcohol					2000				TON
40200911	Surface Coating Operations Gasoline					2000				TON
40200912	Surface Coating Operations Isopropyl Alcohol					2000				TON
40200913	Surface Coating Operations Isopropyl Acetate					2000				TON
40200914	Surface Coating Operations Kerosene					2000				TON
40200915	Surface Coating Operations Lactol Spirits					2000				TON
40200916	Surface Coating Operations Methyl Acetate					2000				TON
40200917	Surface Coating Operations Methyl Alcohol					2000				TON
40200918	Surface Coating Operations Methyl Ethyl Ketone					2000				TON
40200919	Surface Coating Operations Methyl Isobutyl Ketone					2000				TON
40200920	Surface Coating Operations Mineral Spirits					2000				TON
40200921	Surface Coating Operations Naphtha					2000				TON

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Table 3
Source Classification Codes and Emission Factor Listing

SCC	PROCES DESCRIPTION	PM10 Lbs/unit	PM2.5 Lbs/unit	SO2 Lbs/unit	NOx Lbs/unit	VOC Lbs/unit	CO Lbs/unit	Lead Lbs/unit	Ammonia Lbs/unit	Units
40200922	Surface Coating Operations Toluene					2000				TON
40200923	Surface Coating Operations Varsol					2000				TON
40200924	Surface Coating Operations Xylene					2000				TON
40200925	Surface Coating Operations Benzene					2000				TON
40200926	Surface Coating Operations Turpentine					2000				TON
40200927	Surface Coating Operations Hexylene Glycol					2000				TON
40200928	Surface Coating Operations Ethylene Oxide					2000				TON
40200929	Surface Coating Operations 1,1,1-Trichloroethane (Methyl Chloroform)					2000				TON
40200930	Surface Coating Operations Methylene Chloride					2000				TON
40200931	Surface Coating Operations Perchloroethylene					2000				TON
40200998	Surface Coating Operations General: Specify in Comments					2000				GAL
40201001	Surface Coating Operations Natural Gas			0.6						E6FT3
40201002	Surface Coating Operations Distillate Oil			1.4365E2*S						E3GAL
40201003	Surface Coating Operations Residual Oil			1.586E2*S						E3GAL
40201004	Surface Coating Operations Liquified Petroleum Gas (LPG)			9.0E-2*S						E3GAL
40201101	Surface Coating Operations Coating Operation (Also See Specific Coating Method Codes 4-02-04X)					2000				TON
40201103	Surface Coating Operations Coating Mixing (Also See Specific Coating Method Codes 4-02-04X)					2000				TON
40201105	Surface Coating Operations Equipment Cleanup: Fabric Coating (Also Spec Coat Method Codes 4-02-04X)					2000				TON

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Table 3
Source Classification Codes and Emission Factor Listing

SCC	PROCES DESCRIPTION	PM10 Lbs/unit	PM2.5 Lbs/unit	SO2 Lbs/unit	NOx Lbs/unit	VOC Lbs/unit	CO Lbs/unit	Lead Lbs/unit	Ammonia Lbs/unit	Units
40201111	Surface Coating Operations Fabric Printing: Roller (Also See New Codes Under 4-02-040-XX)					284				TON
40201112	Surface Coating Operations Fabric Printing: Roller (Also See New Codes Under 4-02-040-XX)					278000				EACH
40201113	Surface Coating Operations Fabric Printing: Rotary Screen (Also See New Codes Under 4-02-040-XX)					46				TON
40201114	Surface Coating Operations Fabric Printing: Rotary Screen (Also See New Codes Under 4-02-040-XX)					62000				EACH
40201115	Surface Coating Operations Fabric Printing: Flat Screen (Also See New Codes Under 4-02-040-XX)					158				TON
40201116	Surface Coating Operations Fabric Printing: Flat Screen (Also See New Codes Under 4-02-040-XX)					62000				EACH
40201199	Surface Coating Operations Other Not Classified (Also See New Codes Under 4-02-040-XX)					2000				TON
40201201	Surface Coating Operations Dye Application: General (Also See New Codes Under 4-02-060-XX)					2000				TON
40201301	Surface Coating Operations Coating Operation					2000				TON
40201303	Surface Coating Operations Coating Mixing					2000				TON
40201305	Surface Coating Operations Equipment Cleanup					2000				TON
40201399	Surface Coating Operations Other Not Classified					2000				TON
40201401	Surface Coating Operations Prime Coating Operation					2000				TON
40201403	Surface Coating Operations Coating Mixing					2000				TON
40201405	Surface Coating Operations Equipment Cleanup					2000				TON
40201406	Surface Coating Operations Topcoat Spray					2000				TON
40201431	Surface Coating Operations Coating Line: General					0.9				EACH
40201432	Surface Coating Operations Prime Air Spray					3.1				E3FT2

Table 3
Source Classification Codes and Emission Factor Listing

SCC	PROCES DESCRIPTION	PM10 Lbs/unit	PM2.5 Lbs/unit	SO2 Lbs/unit	NOx Lbs/unit	VOC Lbs/unit	CO Lbs/unit	Lead Lbs/unit	Ammonia Lbs/unit	Units
40201433	Surface Coating Operations Prime Electrostatic Spray					1.79				E3FT2
40201434	Surface Coating Operations Prime Flow Coat					1.65				E3FT2
40201435	Surface Coating Operations Prime Dip Coat					1.65				E3FT2
40201436	Surface Coating Operations Prime Electro-deposition					1.5				E3FT2
40201437	Surface Coating Operations Top Air Spray					6.3				E3FT2
40201438	Surface Coating Operations Top Electrostatic Spray					3.2				E3FT2
40201499	Surface Coating Operations Other Not Classified					2000				TON
40201501	Surface Coating Operations Coating/Application/Curing					2000				TON
40201502	Surface Coating Operations Cleaning/Pretreatment					2000				TON
40201503	Surface Coating Operations Coating Mixing					2000				TON
40201505	Surface Coating Operations Equipment Cleanup					2000				TON
40201531	Surface Coating Operations Coating Line: General					186000				EACH
40201599	Surface Coating Operations Other Not Classified					2000				TON
40201601	Surface Coating Operations Prime Application/Electro-deposition/Dip/Spray					2000				TON
40201603	Surface Coating Operations Coating Mixing					2000				TON
40201605	Surface Coating Operations Equipment Cleanup					2000				TON
40201606	Surface Coating Operations Topcoat Operation					2000				TON
40201619	Surface Coating Operations Prime Surfacing Operation					2000				TON

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Table 3
Source Classification Codes and Emission Factor Listing

SCC	PROCES DESCRIPTION	PM10 Lbs/unit	PM2.5 Lbs/unit	SO2 Lbs/unit	NOx Lbs/unit	VOC Lbs/unit	CO Lbs/unit	Lead Lbs/unit	Ammonia Lbs/unit	Units
40201620	Surface Coating Operations Repair Topcoat Application Area					2000				TON
40201621	Surface Coating Operations Prime Coating: Solvent-borne - Automobiles					14.5				EACH
40201622	Surface Coating Operations Prime Coating: Electro-deposition - Automobiles					0.45				EACH
40201623	Surface Coating Operations Guide Coating: Solvent-borne - Automobiles					4.16				EACH
40201624	Surface Coating Operations Guide Coating: Water-borne - Automobiles					1.5				EACH
40201625	Surface Coating Operations Topcoat: Solvent-borne - Automobiles					27.3				EACH
40201626	Surface Coating Operations Topcoat: Water-borne - Automobiles					4.95				EACH
40201627	Surface Coating Operations Prime Coating: Solvent-borne - Light Trucks					42.4				EACH
40201628	Surface Coating Operations Prime Coating: Electro-deposition - Light Trucks					0.58				EACH
40201629	Surface Coating Operations Guide Coating: Solvent-borne - Light Trucks					14				EACH
40201630	Surface Coating Operations Guide Coating: Water-borne - Light Trucks					5.06				EACH
40201631	Surface Coating Operations Topcoat: Solvent-borne - Light Trucks					40.3				EACH
40201632	Surface Coating Operations Topcoat: Water-borne - Light Trucks					15.5				EACH
40201699	Surface Coating Operations Other Not Classified					2000				TON
40201702	Surface Coating Operations Cleaning/Pretreatment					2000				TON
40201703	Surface Coating Operations Coating Mixing					2000				TON
40201705	Surface Coating Operations Equipment Cleanup					2000				TON

Table 3
Source Classification Codes and Emission Factor Listing

SCC	PROCES DESCRIPTION	PM10 Lbs/unit	PM2.5 Lbs/unit	SO2 Lbs/unit	NOx Lbs/unit	VOC Lbs/unit	CO Lbs/unit	Lead Lbs/unit	Ammonia Lbs/unit	Units
40201721	Surface Coating Operations Two Piece Exterior Base Coating					2000				TON
40201722	Surface Coating Operations Interior Spray Coating					2000				TON
40201723	Surface Coating Operations Sheet Base Coating (Interior)					2000				TON
40201724	Surface Coating Operations Sheet Base Coating (Exterior)					2000				TON
40201725	Surface Coating Operations Side Seam Spray Coating					2000				TON
40201726	Surface Coating Operations End Sealing Compound (Also See 4-02-017-36 & -37)					2000				TON
40201727	Surface Coating Operations Lithography					2000				TON
40201728	Surface Coating Operations Over Varnish					2000				TON
40201731	Surface Coating Operations Three-piece Can Sheet Base Coating					352000				EACH
40201732	Surface Coating Operations Three-piece Can Sheet Lithographic Coating Line					110000				EACH
40201733	Surface Coating Operations Three-piece Can-side Seam Spray Coating					40000				EACH
40201734	Surface Coating Operations Three-piece Can Interior Body Spray Coat					176000				EACH
40201735	Surface Coating Operations Two-piece Can Coating Line					574000				EACH
40201736	Surface Coating Operations Two-piece Can End Sealing Compound					30000				EACH
40201799	Surface Coating Operations Other Not Classified					2000				TON
40201801	Surface Coating Operations Prime Coating Application					2000				TON
40201803	Surface Coating Operations Solvent Mixing					2000				TON
40201805	Surface Coating Operations Equipment Cleanup					2000				TON

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Table 3
Source Classification Codes and Emission Factor Listing

SCC	PROCES DESCRIPTION	PM10 Lbs/unit	PM2.5 Lbs/unit	SO2 Lbs/unit	NOx Lbs/unit	VOC Lbs/unit	CO Lbs/unit	Lead Lbs/unit	Ammonia Lbs/unit	Units
40201806	Surface Coating Operations Finish Coating					2000				TON
40201899	Surface Coating Operations Other Not Classified					2000				TON
40201901	Surface Coating Operations Coating Operation					2000				TON
40201903	Surface Coating Operations Coating Mixing					2000				TON
40201999	Surface Coating Operations Other Not Classified					2000				TON
40202001	Surface Coating Operations Coating Operation					2000				TON
40202002	Surface Coating Operations Cleaning/Pretreatment					2000				TON
40202003	Surface Coating Operations Coating Mixing					2000				TON
40202004	Surface Coating Operations Coating Storage					2000				TON
40202005	Surface Coating Operations Equipment Cleanup					2000				TON
40202031	Surface Coating Operations Single Spray Line: General					22.9				E3FT2
40202032	Surface Coating Operations Spray Dip Line: General ** (Use 4-02-020-37)					15.3				E3FT2
40202033	Surface Coating Operations Spray High Solids Coating ** (Use 4-02-020-35)					6.8				E3FT2
40202034	Surface Coating Operations Spray Water-borne Coating ** (Use 4-02-020-36)					4.3				E3FT2
40202099	Surface Coating Operations Other Not Classified					2000				TON
40202101	Surface Coating Operations Base Coat					2000				TON
40202103	Surface Coating Operations Coating Mixing					2000				TON
40202105	Surface Coating Operations Equipment Cleanup					2000				TON

Table 3
Source Classification Codes and Emission Factor Listing

SCC	PROCES DESCRIPTION	PM10 Lbs/unit	PM2.5 Lbs/unit	SO2 Lbs/unit	NOx Lbs/unit	VOC Lbs/unit	CO Lbs/unit	Lead Lbs/unit	Ammonia Lbs/unit	Units
40202106	Surface Coating Operations Topcoat					2000				TON
40202107	Surface Coating Operations Filler					2000				TON
40202108	Surface Coating Operations Sealer					2000				TON
40202109	Surface Coating Operations Inks					2000				TON
40202131	Surface Coating Operations Water-borne Coating					2.5				E3FT2
40202132	Surface Coating Operations Solvent-borne Coating					16.5				E3FT2
40202133	Surface Coating Operations Ultraviolet Coating					0.8				E3FT2
40202199	Surface Coating Operations Other Not Classified					2000				TON
40202201	Surface Coating Operations Coating Operation					2000				TON
40202202	Surface Coating Operations Cleaning/Pretreatment					2000				TON
40202203	Surface Coating Operations Coating Mixing					2000				TON
40202205	Surface Coating Operations Equipment Cleanup					2000				TON
40202299	Surface Coating Operations Other Not Classified					2000				TON
40202301	Surface Coating Operations Prime Coating Operation					2000				TON
40202302	Surface Coating Operations Cleaning/Pretreatment					2000				TON
40202303	Surface Coating Operations Coating Mixing					2000				TON
40202305	Surface Coating Operations Equipment Cleanup					2000				TON
40202306	Surface Coating Operations Topcoat Operation					2000				TON

Table 3
Source Classification Codes and Emission Factor Listing

SCC	PROCES DESCRIPTION	PM10 Lbs/unit	PM2.5 Lbs/unit	SO2 Lbs/unit	NOx Lbs/unit	VOC Lbs/unit	CO Lbs/unit	Lead Lbs/unit	Ammonia Lbs/unit	Units
40202399	Surface Coating Operations Other Not Classified					2000				TON
40202402	Surface Coating Operations Cleaning/Pretreatment					2000				TON
40202501	Surface Coating Operations Coating Operation					2000				TON
40202502	Surface Coating Operations Cleaning/Pretreatment					2000				TON
40202503	Surface Coating Operations Coating Mixing					2000				TON
40202505	Surface Coating Operations Equipment Cleanup					2000				TON
40202531	Surface Coating Operations Conveyor Single Flow					15.3				E3FT2
40202532	Surface Coating Operations Conveyor Single Dip					15.3				E3FT2
40202533	Surface Coating Operations Conveyor Single Spray					27.5				E3FT2
40202534	Surface Coating Operations Conveyor Two Coat, Flow and Spray					42.8				E3FT2
40202535	Surface Coating Operations Conveyor Two Coat, Dip and Spray					42.8				E3FT2
40202536	Surface Coating Operations Conveyor Two Coat, Spray					55				E3FT2
40202537	Surface Coating Operations Manual Two Coat, Spray and Air Dry					54.8				E3FT2
40202599	Surface Coating Operations Other Not Classified					2000				TON
40202601	Surface Coating Operations Coating Operation					4.3				GAL
40202603	Surface Coating Operations Coating Mixing					0.5				GAL
40202605	Surface Coating Operations Equipment Cleanup					0.5				GAL
40202606	Surface Coating Operations Interior Coating					2.2				GAL

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Table 3
Source Classification Codes and Emission Factor Listing

SCC	PROCES DESCRIPTION	PM10 Lbs/unit	PM2.5 Lbs/unit	SO2 Lbs/unit	NOx Lbs/unit	VOC Lbs/unit	CO Lbs/unit	Lead Lbs/unit	Ammonia Lbs/unit	Units
40202607	Surface Coating Operations Exterior Coating					2.2				GAL
40290023	Surface Coating Operations Natural Gas: Flares					5.6				E6FT3
40299996	Surface Coating Operations Specify in Comments Field					2000				TON
40300101	Petroleum Product Storage at Refineries Gasoline **					30.5				E3GAL
40300102	Petroleum Product Storage at Refineries Crude **					23.4				E3GAL
40300103	Petroleum Product Storage at Refineries Gasoline **					16.5				E3GAL
40300104	Petroleum Product Storage at Refineries Crude **					2.47				E3GAL
40300105	Petroleum Product Storage at Refineries Jet Fuel **					8.8				E3GAL
40300106	Petroleum Product Storage at Refineries Kerosene **					0.45				E3GAL
40300107	Petroleum Product Storage at Refineries Dist Fuel **					0.39				E3GAL
40300150	Petroleum Product Storage at Refineries Jet Fuel **					2.5				E3GAL
40300151	Petroleum Product Storage at Refineries Kerosene **					0.03				E3GAL
40300152	Petroleum Product Storage at Refineries Dist Fuel **					0.02				E3GAL
40300201	Petroleum Product Storage at Refineries Gasoline **					13.4				E3GAL
40300203	Petroleum Product Storage at Refineries Crude **					1.76				E3GAL
40300205	Petroleum Product Storage at Refineries Jet Fuel **					3.5				E3GAL
40300207	Petroleum Product Storage at Refineries Dist Fuel **					0.02				E3GAL
40300302	Petroleum Product Storage at Refineries Gasoline **					7.7				E3GAL

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Table 3
Source Classification Codes and Emission Factor Listing

SCC	PROCES DESCRIPTION	PM10 Lbs/unit	PM2.5 Lbs/unit	SO2 Lbs/unit	NOx Lbs/unit	VOC Lbs/unit	CO Lbs/unit	Lead Lbs/unit	Ammonia Lbs/unit	Units
40301001	Petroleum Product Storage at Refineries Gasoline RVP 13: Breathing Loss (67000 Bbl. Tank Size)					30.5				E3GAL
40301002	Petroleum Product Storage at Refineries Gasoline RVP 10: Breathing Loss (67000 Bbl. Tank Size)					23.4				E3GAL
40301003	Petroleum Product Storage at Refineries Gasoline RVP 7: Breathing Loss (67000 Bbl. Tank Size)					16.5				E3GAL
40301004	Petroleum Product Storage at Refineries Gasoline RVP 13: Breathing Loss (250000 Bbl. Tank Size)					22				E3GAL
40301005	Petroleum Product Storage at Refineries Gasoline RVP 10: Breathing Loss (250000 Bbl. Tank Size)					16.9				E3GAL
40301006	Petroleum Product Storage at Refineries Gasoline RVP 7: Breathing Loss (250000 Bbl. Tank Size)					11.9				E3GAL
40301007	Petroleum Product Storage at Refineries Gasoline RVP 13: Working Loss (Tank Diameter Independent)					10				E3GAL
40301008	Petroleum Product Storage at Refineries Gasoline RVP 10: Working Loss (Tank Diameter Independent)					8.2				E3GAL
40301009	Petroleum Product Storage at Refineries Gasoline RVP 7: Working Loss (Tank Diameter Independent)					5.7				E3GAL
40301010	Petroleum Product Storage at Refineries Crude Oil RVP 5: Breathing Loss (67000 Bbl. Tank Size)					6.5				E3GAL
40301011	Petroleum Product Storage at Refineries Crude Oil RVP 5: Breathing Loss (250000 Bbl. Tank Size)					4.69				E3GAL
40301012	Petroleum Product Storage at Refineries Crude Oil RVP 5: Working Loss (Tank Diameter Independent)					2.8				E3GAL
40301013	Petroleum Product Storage at Refineries Jet Naphtha (JP-4): Breathing Loss (67000 Bbl. Tank Size)					8.8				E3GAL
40301014	Petroleum Product Storage at Refineries Jet Naphtha (JP-4): Breathing Loss (250000 Bbl. Tank Size)					6.3				E3GAL
40301015	Petroleum Product Storage at Refineries Jet Naphtha (JP-4): Working Loss (Tank Diameter Independent)					2.5				E3GAL
40301016	Petroleum Product Storage at Refineries Jet Kerosene: Breathing Loss (67000 Bbl. Tank Size)					0.44				E3GAL
40301017	Petroleum Product Storage at Refineries Jet Kerosene: Breathing Loss (250000 Bbl. Tank Size)					0.3				E3GAL

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Table 3
Source Classification Codes and Emission Factor Listing

SCC	PROCES DESCRIPTION	PM10 Lbs/unit	PM2.5 Lbs/unit	SO2 Lbs/unit	NOx Lbs/unit	VOC Lbs/unit	CO Lbs/unit	Lead Lbs/unit	Ammonia Lbs/unit	Units
40301018	Petroleum Product Storage at Refineries Jet Kerosene: Working Loss (Tank Diameter Independent)					0.03				E3GAL
40301019	Petroleum Product Storage at Refineries Distillate Fuel #2: Breathing Loss (67000 Bbl. Tank Size)					0.4				E3GAL
40301020	Petroleum Product Storage at Refineries Distillate Fuel #2: Breathing Loss (250000 Bbl. Tank Size)					0.29				E3GAL
40301021	Petroleum Product Storage at Refineries Distillate Fuel #2: Working Loss (Tank Diameter Independent)					0.02				E3GAL
40301099	Petroleum Product Storage at Refineries Specify Liquid: Working Loss (Tank Diameter Independent)					0.4				E3GAL
40301111	Petroleum Product Storage at Refineries Jet Naphtha (JP-4): Standing Loss (67000 Bbl. Tank Size)					3.5				E3GAL
40301113	Petroleum Product Storage at Refineries Jet Kerosene: Standing Loss (67000 Bbl. Tank Size)					0.04				E3GAL
40301115	Petroleum Product Storage at Refineries Distillate Fuel #2: Standing Loss (67000 Bbl. Tank Size)					0.03				E3GAL
40301201	Petroleum Product Storage at Refineries Gasoline RVP 13: Filling Loss					9.6				E3GAL
40301202	Petroleum Product Storage at Refineries Gasoline RVP 10: Filling Loss					7.7				E3GAL
40301203	Petroleum Product Storage at Refineries Gasoline RVP 7: Filling Loss					5.4				E3GAL
40301204	Petroleum Product Storage at Refineries Jet Naphtha (JP-4): Filling Loss					2.3				E3GAL
40301205	Petroleum Product Storage at Refineries Jet Kerosene: Filling Loss					0.025				E3GAL
40301206	Petroleum Product Storage at Refineries Distillate Fuel #2: Filling Loss					0.022				E3GAL
40301207	Petroleum Product Storage at Refineries Benzene: Filling Loss					2.1				E3GAL
40400101	Petroleum Liquids Storage (non-Refinery) Gasoline RVP 13: Breathing Loss (67000 Bbl Capacity) - Fixed Roof Tank					30.5				E3GAL
40400102	Petroleum Liquids Storage (non-Refinery) Gasoline RVP 10: Breathing Loss (67000 Bbl Capacity) - Fixed Roof Tank					23.4				E3GAL

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Table 3
Source Classification Codes and Emission Factor Listing

SCC	PROCES DESCRIPTION	PM10 Lbs/unit	PM2.5 Lbs/unit	SO2 Lbs/unit	NOx Lbs/unit	VOC Lbs/unit	CO Lbs/unit	Lead Lbs/unit	Ammonia Lbs/unit	Units
40400103	Petroleum Liquids Storage (non-Refinery) Gasoline RVP 7: Breathing Loss (67000 Bbl. Capacity) - Fixed Roof Tank					16.5				E3GAL
40400104	Petroleum Liquids Storage (non-Refinery) Gasoline RVP 13: Breathing Loss (250000 Bbl Capacity)-Fixed Roof Tank					22				E3GAL
40400105	Petroleum Liquids Storage (non-Refinery) Gasoline RVP 10: Breathing Loss (250000 Bbl Capacity)-Fixed Roof Tank					16.9				E3GAL
40400106	Petroleum Liquids Storage (non-Refinery) Gasoline RVP 7: Breathing Loss (250000 Bbl Capacity) - Fixed Roof Tank					11.9				E3GAL
40400107	Petroleum Liquids Storage (non-Refinery) Gasoline RVP 13: Working Loss (Diam. Independent) - Fixed Roof Tank					10				E3GAL
40400108	Petroleum Liquids Storage (non-Refinery) Gasoline RVP 10: Working Loss (Diameter Independent) - Fixed Roof Tank					8.2				E3GAL
40400109	Petroleum Liquids Storage (non-Refinery) Gasoline RVP 7: Working Loss (Diameter Independent) - Fixed Roof Tank					5.7				E3GAL
40400110	Petroleum Liquids Storage (non-Refinery) Gasoline RVP 13: Standing Loss (67000 Bbl Capacity)-Floating Roof Tank					18.2				E3GAL
40400111	Petroleum Liquids Storage (non-Refinery) Gasoline RVP 10: Standing Loss (67000 Bbl Capacity)-Floating Roof Tank					13.4				E3GAL
40400112	Petroleum Liquids Storage (non-Refinery) Gasoline RVP 7: Standing Loss (67000 Bbl Capacity)- Floating Roof Tank					8.6				E3GAL
40400113	Petroleum Liquids Storage (non-Refinery) Gasoline RVP 13: Standing Loss (250000 Bbl Cap.) - Floating Roof Tank					8.9				E3GAL
40400114	Petroleum Liquids Storage (non-Refinery) Gasoline RVP 10: Standing Loss (250000 Bbl Cap.) - Floating Roof Tank					6.5				E3GAL
40400115	Petroleum Liquids Storage (non-Refinery) Gasoline RVP 7: Standing Loss (250000 Bbl Cap.) - Floating Roof Tank					4.2				E3GAL
40400116	Petroleum Liquids Storage (non-Refinery) Gasoline RVP 13/10/7: Withdrawal Loss (67000 Bbl Cap.) - Float Rf Tnk					0.01				E3GAL
40400117	Petroleum Liquids Storage (non-Refinery) Gasoline RVP 13/10/7: Withdrawal Loss (250000 Bbl Cap.) - Float Rf Tnk					0.01				E3GAL
40400118	Petroleum Liquids Storage (non-Refinery) Gasoline RVP 13: Filling Loss (10500 Bbl Cap.) - Variable Vapor Space					9.6				E3GAL
40400119	Petroleum Liquids Storage (non-Refinery) Gasoline RVP 10: Filling Loss (10500 Bbl Cap.) - Variable Vapor Space					7.7				E3GAL

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Table 3
Source Classification Codes and Emission Factor Listing

SCC	PROCES DESCRIPTION	PM10 Lbs/unit	PM2.5 Lbs/unit	SO2 Lbs/unit	NOx Lbs/unit	VOC Lbs/unit	CO Lbs/unit	Lead Lbs/unit	Ammonia Lbs/unit	Units
40400120	Petroleum Liquids Storage (non-Refinery) Gasoline RVP 7: Filling Loss (10500 Bbl Cap.) - Variable Vapor Space					5.4				E3GAL
40400131	Petroleum Liquids Storage (non-Refinery) Gasoline RVP 13: Standing Loss - Ext. Floating Roof w/ Primary Seal					18.2				E3GAL
40400132	Petroleum Liquids Storage (non-Refinery) Gasoline RVP 10: Standing Loss - Ext. Floating Roof w/ Primary Seal					13.4				E3GAL
40400141	Petroleum Liquids Storage (non-Refinery) Gasoline RVP 13: Standing Loss - Ext. Floating Roof w/ Secondary Seal					18.2				E3GAL
40400142	Petroleum Liquids Storage (non-Refinery) Gasoline RVP 10: Standing Loss - Ext. Floating Roof w/ Secondary Seal					13.4				E3GAL
40400152	Petroleum Liquids Storage (non-Refinery) Vapor Collection Losses					5.2				E3GAL
40400153	Petroleum Liquids Storage (non-Refinery) Vapor Control Unit Losses					5				E3GAL
40400161	Petroleum Liquids Storage (non-Refinery) Gasoline RVP 13: Standing Loss - Int. Floating Roof w/ Primary Seal					18.2				E3GAL
40400162	Petroleum Liquids Storage (non-Refinery) Gasoline RVP 10: Standing Loss - Int. Floating Roof w/ Primary Seal					13.4				E3GAL
40400171	Petroleum Liquids Storage (non-Refinery) Gasoline RVP 13: Standing Loss - Int. Floating Roof w/ Secondary Seal					18.2				E3GAL
40400172	Petroleum Liquids Storage (non-Refinery) Gasoline RVP 10: Standing Loss - Int. Floating Roof w/ Secondary Seal					13.4				E3GAL
40400201	Petroleum Liquids Storage (non-Refinery) Gasoline RVP 13: Breathing Loss (67000 Bbl Capacity) - Fixed Roof Tank					30.5				E3GAL
40400202	Petroleum Liquids Storage (non-Refinery) Gasoline RVP 10: Breathing Loss (67000 Bbl Capacity) - Fixed Roof Tank					23.4				E3GAL
40400203	Petroleum Liquids Storage (non-Refinery) Gasoline RVP 7: Breathing Loss (67000 Bbl. Capacity) - Fixed Roof Tank					16.5				E3GAL
40400204	Petroleum Liquids Storage (non-Refinery) Gasoline RVP 13: Working Loss (67000 Bbl. Capacity) - Fixed Roof Tank					10				E3GAL
40400205	Petroleum Liquids Storage (non-Refinery) Gasoline RVP 10: Working Loss (67000 Bbl. Capacity) - Fixed Roof Tank					8.2				E3GAL
40400206	Petroleum Liquids Storage (non-Refinery) Gasoline RVP 7: Working Loss (67000 Bbl. Capacity) - Fixed Roof Tank					5.7				E3GAL
40400211	Petroleum Liquids Storage (non-Refinery) Gasoline RVP					9.6				E3GAL

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Table 3
Source Classification Codes and Emission Factor Listing

SCC	PROCES DESCRIPTION	PM10 Lbs/unit	PM2.5 Lbs/unit	SO2 Lbs/unit	NOx Lbs/unit	VOC Lbs/unit	CO Lbs/unit	Lead Lbs/unit	Ammonia Lbs/unit	Units
	13: Filling Loss (10500 Bbl Cap.) - Variable Vapor Space									
40400212	Petroleum Liquids Storage (non-Refinery) Gasoline RVP 10: Filling Loss (10500 Bbl Cap.) - Variable Vapor Space					7.7				E3GAL
40400213	Petroleum Liquids Storage (non-Refinery) Gasoline RVP 7: Filling Loss (10500 Bbl Cap.) - Variable Vapor Space					5.4				E3GAL
40400250	Petroleum Liquids Storage (non-Refinery) Loading Racks					4.8				E3GAL
40400301	Petroleum Liquids Storage (non-Refinery) Fixed Roof Tank: Breathing Loss					36				E3GAL
40400302	Petroleum Liquids Storage (non-Refinery) Fixed Roof Tank: Working Loss					1.1				E3GAL
40400402	Petroleum Liquids Storage (non-Refinery) Gasoline RVP 13: Working Loss					14.9				E3GAL
40400404	Petroleum Liquids Storage (non-Refinery) Gasoline RVP 10: Working Loss					11.9				E3GAL
40400406	Petroleum Liquids Storage (non-Refinery) Gasoline RVP 7: Working Loss					8.3				E3GAL
40400408	Petroleum Liquids Storage (non-Refinery) Crude Oil RVP 5: Working Loss					4.9				E3GAL
40400410	Petroleum Liquids Storage (non-Refinery) Jet Naphtha (JP-4): Working Loss					3.6				E3GAL
40400412	Petroleum Liquids Storage (non-Refinery) Jet Kerosene: Working Loss					0.04				E3GAL
40400414	Petroleum Liquids Storage (non-Refinery) Distillate Fuel #2: Working Loss					0.03				E3GAL
40500101	Printing/Publishing Dryer				57	2000				TON
40500201	Printing/Publishing Letter Press: 2751					238				TON
40500202	Printing/Publishing Ink Thinning Solvent (Kerosene)					2000				TON
40500203	Printing/Publishing Ink Thinning Solvents (Mineral Solvents)					2000				TON
40500211	Printing/Publishing Letter Press: 2751					1200				TON

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Table 3
Source Classification Codes and Emission Factor Listing

SCC	PROCES DESCRIPTION	PM10 Lbs/unit	PM2.5 Lbs/unit	SO2 Lbs/unit	NOx Lbs/unit	VOC Lbs/unit	CO Lbs/unit	Lead Lbs/unit	Ammonia Lbs/unit	Units
40500212	Printing/Publishing Printing: Letter Press					1.5				GAL
40500301	Printing/Publishing Printing: Flexographic					711				TON
40500302	Printing/Publishing Ink Thinning Solvent (Carbitol)					2000				TON
40500303	Printing/Publishing Ink Thinning Solvent (Cellosolve)					2000				TON
40500304	Printing/Publishing Ink Thinning Solvent (Ethyl Alcohol)					2000				TON
40500305	Printing/Publishing Ink Thinning Solvent (Isopropyl Alcohol)					2000				TON
40500306	Printing/Publishing Ink Thinning Solvent (n-Propyl Alcohol)					2000				TON
40500307	Printing/Publishing Ink Thinning Solvent (Naphtha)					2000				TON
40500311	Printing/Publishing Printing: Flexographic					1910				TON
40500312	Printing/Publishing Printing: Flexographic					4.4				GAL
40500314	Printing/Publishing Printing: Flexographic: Propyl Alcohol Cleanup					2000				TON
40500401	Printing/Publishing Lithographic: 2752					198				TON
40500411	Printing/Publishing Lithographic: 2752					1000				TON
40500412	Printing/Publishing Lithographic: 2752					1.24				GAL
40500413	Printing/Publishing Lithographic: Isopropyl Alcohol Cleanup					2000				TON
40500414	Printing/Publishing Flexographic: Propyl Alcohol Cleanup					2000				TON
40500501	Printing/Publishing Gravure: 2754					711				TON
40500502	Printing/Publishing Ink Thinning Solvent: Dimethylformamide					2000				TON

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Table 3
Source Classification Codes and Emission Factor Listing

SCC	PROCES DESCRIPTION	PM10 Lbs/unit	PM2.5 Lbs/unit	SO2 Lbs/unit	NOx Lbs/unit	VOC Lbs/unit	CO Lbs/unit	Lead Lbs/unit	Ammonia Lbs/unit	Units
40500503	Printing/Publishing Ink Thinning Solvent: Ethyl Acetate					2000				TON
40500506	Printing/Publishing Ink Thinning Solvent: Methyl Ethyl Ketone					2000				TON
40500507	Printing/Publishing Ink Thinning Solvent: Methyl Isobutyl Ketone					2000				TON
40500510	Printing/Publishing Ink Thinning Solvent: Toluene					2000				TON
40500511	Printing/Publishing Gravure: 2754					1910				TON
40500512	Printing/Publishing Gravure: 2754					4.4				GAL
40500513	Printing/Publishing Gravure: 2754					12.4				GAL
40500514	Printing/Publishing Gravure: Cleanup Solvent					2000				TON
40500599	Printing/Publishing Ink Thinning Solvent: Other Not Specified					2000				TON
40500601	Printing/Publishing Ink Mixing					2000				TON
40500701	Printing/Publishing Solvent Storage					2000				TON
40600101	Transportation and Marketing of Petroleum Products Gasoline: Splash Loading **					12.4				E3GAL
40600126	Transportation and Marketing of Petroleum Products Gasoline: Submerged Loading **					4.1				E3GAL
40600130	Transportation and Marketing of Petroleum Products Distillate Oil: Submerged Loading **					0.48				E3GAL
40600131	Transportation and Marketing of Petroleum Products Gasoline: Submerged Loading (Normal Service)					5				E3GAL
40600132	Transportation and Marketing of Petroleum Products Crude Oil: Submerged Loading (Normal Service)					2				E3GAL
40600133	Transportation and Marketing of Petroleum Products Jet Naphtha: Submerged Loading (Normal Service)					1.5				E3GAL
40600134	Transportation and Marketing of Petroleum Products Kerosene: Submerged Loading (Normal Services)					0.16				E3GAL

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Table 3
Source Classification Codes and Emission Factor Listing

SCC	PROCES DESCRIPTION	PM10 Lbs/unit	PM2.5 Lbs/unit	SO2 Lbs/unit	NOx Lbs/unit	VOC Lbs/unit	CO Lbs/unit	Lead Lbs/unit	Ammonia Lbs/unit	Units
40600135	Transportation and Marketing of Petroleum Products Distillate Oil: Submerged Loading (Normal Service)					0.014				E3GAL
40600136	Transportation and Marketing of Petroleum Products Gasoline: Splash Loading (Normal Service)					12				E3GAL
40600137	Transportation and Marketing of Petroleum Products Crude Oil: Splash Loading (Normal Service)					5.5				E3GAL
40600138	Transportation and Marketing of Petroleum Products Jet Naphtha: Splash Loading (Normal Service)					4				E3GAL
40600139	Transportation and Marketing of Petroleum Products Kerosene: Splash Loading (Normal Service)					0.04				E3GAL
40600140	Transportation and Marketing of Petroleum Products Distillate Oil: Splash Loading (Normal Service)					0.03				E3GAL
40600141	Transportation and Marketing of Petroleum Products Gasoline: Submerged Loading (Balanced Service)					8				E3GAL
40600142	Transportation and Marketing of Petroleum Products Crude Oil: Submerged Loading (Balanced Service)					3				E3GAL
40600143	Transportation and Marketing of Petroleum Products Jet Naphtha: Submerged Loading (Balanced Service)					2.5				E3GAL
40600144	Transportation and Marketing of Petroleum Products Gasoline: Splash Loading (Balanced Service)					8				E3GAL
40600145	Transportation and Marketing of Petroleum Products Crude Oil: Splash Loading (Balanced Service)					3				E3GAL
40600146	Transportation and Marketing of Petroleum Products Jet Naphtha: Splash Loading (Balanced Service)					2.5				E3GAL
40600147	Transportation and Marketing of Petroleum Products Gasoline: Submerged Loading (Clean Tanks)					4				E3GAL
40600148	Transportation and Marketing of Petroleum Products Crude Oil: Submerged Loading (Clean Tanks)					1.7				E3GAL
40600149	Transportation and Marketing of Petroleum Products Jet Naphtha: Submerged Loading (Clean Tanks)					1.5				E3GAL
40600160	Transportation and Marketing of Petroleum Products Kerosene: Submerged Loading (Clean Tanks)					0.017				E3GAL
40600161	Transportation and Marketing of Petroleum Products Distillate Oil: Submerged Loading (Clean Tanks)					0.013				E3GAL

Table 3
Source Classification Codes and Emission Factor Listing

SCC	PROCES DESCRIPTION	PM10 Lbs/unit	PM2.5 Lbs/unit	SO2 Lbs/unit	NOx Lbs/unit	VOC Lbs/unit	CO Lbs/unit	Lead Lbs/unit	Ammonia Lbs/unit	Units
40600162	Transportation and Marketing of Petroleum Products Gasoline: Loaded with Fuel (Transit Losses)					0.01				E3GAL
40600163	Transportation and Marketing of Petroleum Products Gasoline: Return with Vapor (Transit Losses)					0.11				E3GAL
40600231	Transportation and Marketing of Petroleum Products Gasoline: Ship Loading - Cleaned and Vapor Free Tanks					0.7				E3GAL
40600232	Transportation and Marketing of Petroleum Products Gasoline: Ocean Barges Loading					0.7				E3GAL
40600234	Transportation and Marketing of Petroleum Products Gasoline: Ship Loading - Ballasted Tank					1.7				E3GAL
40600235	Transportation and Marketing of Petroleum Products Gasoline: Ocean Barges Loading - Ballasted Tank					1.7				E3GAL
40600236	Transportation and Marketing of Petroleum Products Gasoline: Ship Loading - Uncleaned Tanks					2.6				E3GAL
40600237	Transportation and Marketing of Petroleum Products Gasoline: Ocean Barges Loading - Uncleaned Tanks					2.6				E3GAL
40600238	Transportation and Marketing of Petroleum Products Gasoline: Barges Loading - Uncleaned Tanks					3.9				E3GAL
40600239	Transportation and Marketing of Petroleum Products Gasoline: Tanker Ship - Ballasted Tank Condition					0.8				E3GAL
40600240	Transportation and Marketing of Petroleum Products Gasoline: Barge Loading - Average Tank Condition					3.4				E3GAL
40600241	Transportation and Marketing of Petroleum Products Gasoline: Tanker Ship - Ballasting					1.7				E3GAL
40600242	Transportation and Marketing of Petroleum Products Gasoline: Transit Loss					140				E3GAL
40600243	Transportation and Marketing of Petroleum Products Crude Oil: Loading Tankers					0.61				E3GAL
40600244	Transportation and Marketing of Petroleum Products Jet Fuel: Loading Tankers					0.5				E3GAL
40600245	Transportation and Marketing of Petroleum Products Kerosene: Loading Tankers					0.005				E3GAL
40600246	Transportation and Marketing of Petroleum Products Distillate Oil: Loading Tankers					0.005				E3GAL
40600248	Transportation and Marketing of Petroleum Products					1				E3GAL

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Table 3
Source Classification Codes and Emission Factor Listing

SCC	PROCES DESCRIPTION	PM10 Lbs/unit	PM2.5 Lbs/unit	SO2 Lbs/unit	NOx Lbs/unit	VOC Lbs/unit	CO Lbs/unit	Lead Lbs/unit	Ammonia Lbs/unit	Units
	Crude Oil: Loading Barges									
40600249	Transportation and Marketing of Petroleum Products Jet Fuel: Loading Barges					1.2				E3GAL
40600250	Transportation and Marketing of Petroleum Products Kerosene: Loading Barges					0.013				E3GAL
40600251	Transportation and Marketing of Petroleum Products Distillate Oil: Loading Barges					0.012				E3GAL
40600253	Transportation and Marketing of Petroleum Products Crude Oil: Tanker Ballasting					1.1				E3GAL
40600254	Transportation and Marketing of Petroleum Products Crude Oil: Transit Loss					69.6				E3GAL
40600255	Transportation and Marketing of Petroleum Products Jet Fuel: Transit Loss					57				E3GAL
40600256	Transportation and Marketing of Petroleum Products Kerosene: Transit Loss					0.26				E3GAL
40600257	Transportation and Marketing of Petroleum Products Distillate Oil: Transit Loss					0.26				E3GAL
40600301	Transportation and Marketing of Petroleum Products Splash Filling					11.5				E3GAL
40600302	Transportation and Marketing of Petroleum Products Submerged Filling w/o Controls					7.3				E3GAL
40600305	Transportation and Marketing of Petroleum Products Unloading **					1				E3GAL
40600306	Transportation and Marketing of Petroleum Products Balanced Submerged Filling					0.3				E3GAL
40600307	Transportation and Marketing of Petroleum Products Underground Tank Breathing and Emptying					1				E3GAL
40600401	Transportation and Marketing of Petroleum Products Vapor Loss w/o Controls					11				E3GAL
40600402	Transportation and Marketing of Petroleum Products Liquid Spill Loss w/o Controls					0.7				E3GAL
40700401	Organic Chemical Storage Acetic Anhydrides: Breathing Loss					1.2				E3GAL
40700402	Organic Chemical Storage Acetic Anhydrides: Working Loss					0.13				E3GAL

Table 3
Source Classification Codes and Emission Factor Listing

SCC	PROCES DESCRIPTION	PM10 Lbs/unit	PM2.5 Lbs/unit	SO2 Lbs/unit	NOx Lbs/unit	VOC Lbs/unit	CO Lbs/unit	Lead Lbs/unit	Ammonia Lbs/unit	Units
40700801	Organic Chemical Storage N-Butyl Alcohol: Breathing Loss					0.9				E3GAL
40700802	Organic Chemical Storage N-Butyl Alcohol: Working Loss					0.1				E3GAL
40700803	Organic Chemical Storage Sec-Butyl Alcohol: Breathing Loss					2				E3GAL
40700804	Organic Chemical Storage Sec-Butyl Alcohol: Working Loss					0.32				E3GAL
40700805	Organic Chemical Storage Tert-Butyl Alcohol: Breathing Loss					3.6				E3GAL
40700806	Organic Chemical Storage Tert-Butyl Alcohol: Working Loss					0.76				E3GAL
40700807	Organic Chemical Storage Cyclohexanol: Breathing Loss					0.58				E3GAL
40700808	Organic Chemical Storage Cyclohexanol: Working Loss					0.046				E3GAL
40700809	Organic Chemical Storage Ethyl Alcohol: Breathing Loss					2.9				E3GAL
40700810	Organic Chemical Storage Ethyl Alcohol: Working Loss					0.66				E3GAL
40700811	Organic Chemical Storage Isobutyl Alcohol: Breathing Loss					1.3				E3GAL
40700812	Organic Chemical Storage Isobutyl Alcohol: Working Loss					0.17				E3GAL
40700813	Organic Chemical Storage Isopropyl Alcohol: Breathing Loss					3.8				E3GAL
40700814	Organic Chemical Storage Isopropyl Alcohol: Working Loss					0.86				E3GAL
40700815	Organic Chemical Storage Methyl Alcohol: Breathing Loss					3.7				E3GAL
40700816	Organic Chemical Storage Methyl Alcohol: Working Loss					1.07				E3GAL
40700817	Organic Chemical Storage N-Propyl Alcohol: Breathing Loss					1.8				E3GAL
40700818	Organic Chemical Storage N-Propyl Alcohol: Working Loss					0.3				E3GAL

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Table 3
Source Classification Codes and Emission Factor Listing

SCC	PROCES DESCRIPTION	PM10 Lbs/unit	PM2.5 Lbs/unit	SO2 Lbs/unit	NOx Lbs/unit	VOC Lbs/unit	CO Lbs/unit	Lead Lbs/unit	Ammonia Lbs/unit	Units
40701601	Organic Chemical Storage N-Decane: Breathing Loss					0.61				E3GAL
40701602	Organic Chemical Storage N-Decane: Working Loss					0.04				E3GAL
40701603	Organic Chemical Storage N-Dodecane: Breathing Loss					0.13				E3GAL
40701604	Organic Chemical Storage N-Dodecane: Working Loss					0.004				E3GAL
40701605	Organic Chemical Storage N-Heptane: Breathing Loss					5.8				E3GAL
40701606	Organic Chemical Storage N-Heptane: Working Loss					1.3				E3GAL
40701607	Organic Chemical Storage Isopentane: Breathing Loss					57.2				E3GAL
40701608	Organic Chemical Storage Isopentane: Working Loss					16.3				E3GAL
40701609	Organic Chemical Storage Pentadecane: Breathing Loss					0.05				E3GAL
40701610	Organic Chemical Storage Pentadecane: Working Loss					0.0008				E3GAL
40701611	Organic Chemical Storage Naphtha: Breathing Loss					0.17				E3GAL
40701612	Organic Chemical Storage Naphtha: Working Loss					0.006				E3GAL
40701613	Organic Chemical Storage Petroleum Distillate: Breathing Loss					0.17				E3GAL
40701614	Organic Chemical Storage Petroleum Distillate: Working Loss					0.006				E3GAL
40702001	Organic Chemical Storage Dodecene: Breathing Loss					0.15				E3GAL
40702002	Organic Chemical Storage Dodecene: Working Loss					0.005				E3GAL
40703201	Organic Chemical Storage Aniline: Breathing Loss					0.24				E3GAL
40703202	Organic Chemical Storage Aniline: Working Loss					0.13				E3GAL

Table 3
Source Classification Codes and Emission Factor Listing

SCC	PROCES DESCRIPTION	PM10 Lbs/unit	PM2.5 Lbs/unit	SO2 Lbs/unit	NOx Lbs/unit	VOC Lbs/unit	CO Lbs/unit	Lead Lbs/unit	Ammonia Lbs/unit	Units
40703203	Organic Chemical Storage Ethanolamines: Breathing Loss					0.1				E3GAL
40703204	Organic Chemical Storage Ethanolamines: Working Loss					0.004				E3GAL
40703205	Organic Chemical Storage Ethyleneamines: Breathing Loss					7				E3GAL
40703206	Organic Chemical Storage Ethyleneamines: Working Loss					2.6				E3GAL
40703601	Organic Chemical Storage Benzene: Breathing Loss					8				E3GAL
40703602	Organic Chemical Storage Benzene: Working Loss					2.25				E3GAL
40703603	Organic Chemical Storage Cresol: Breathing Loss					0.13				E3GAL
40703604	Organic Chemical Storage Cresol: Working Loss					0.005				E3GAL
40703605	Organic Chemical Storage Cumene: Breathing Loss					1.4				E3GAL
40703606	Organic Chemical Storage Cumene: Working Loss					0.16				E3GAL
40703609	Organic Chemical Storage Ethyl Benzene: Breathing Loss					2				E3GAL
40703610	Organic Chemical Storage Ethyl Benzene: Working Loss					0.26				E3GAL
40703611	Organic Chemical Storage Methyl Styrene: Breathing Loss					0.64				E3GAL
40703612	Organic Chemical Storage Methyl Styrene: Working Loss					0.05				E3GAL
40703613	Organic Chemical Storage Styrene: Breathing Loss					1.4				E3GAL
40703614	Organic Chemical Storage Styrene: Working Loss					0.17				E3GAL
40703615	Organic Chemical Storage Toluene: Breathing Loss					3.5				E3GAL
40703616	Organic Chemical Storage Toluene: Working Loss					0.66				E3GAL

Table 3
Source Classification Codes and Emission Factor Listing

SCC	PROCES DESCRIPTION	PM10 Lbs/unit	PM2.5 Lbs/unit	SO2 Lbs/unit	NOx Lbs/unit	VOC Lbs/unit	CO Lbs/unit	Lead Lbs/unit	Ammonia Lbs/unit	Units
40703617	Organic Chemical Storage m-Xylene: Breathing Loss					1.8				E3GAL
40703618	Organic Chemical Storage m-Xylene: Working Loss					0.23				E3GAL
40703619	Organic Chemical Storage o-Xylene: Breathing Loss					1.5				E3GAL
40703620	Organic Chemical Storage o-Xylene: Working Loss					0.18				E3GAL
40703621	Organic Chemical Storage p-Xylene: Breathing Loss					1.9				E3GAL
40703622	Organic Chemical Storage p-Xylene: Working Loss					0.24				E3GAL
40704001	Organic Chemical Storage Acetic Acid: Breathing Loss					1.5				E3GAL
40704002	Organic Chemical Storage Acetic Acid: Working Loss					0.24				E3GAL
40704003	Organic Chemical Storage Acrylic Acid: Breathing Loss					0.65				E3GAL
40704004	Organic Chemical Storage Acrylic Acid: Working Loss					0.064				E3GAL
40704005	Organic Chemical Storage Adipic Acid (Soln): Breathing Loss					0.0003				E3GAL
40704007	Organic Chemical Storage Formic Acid: Breathing Loss					2.6				E3GAL
40704008	Organic Chemical Storage Formic Acid: Working Loss					0.57				E3GAL
40704009	Organic Chemical Storage Propionic Acid: Breathing Loss					0.63				E3GAL
40704010	Organic Chemical Storage Propionic Acid: Working Loss					0.06				E3GAL
40704401	Organic Chemical Storage Butyl Acetate: Breathing Loss					2.4				E3GAL
40704402	Organic Chemical Storage Butyl Acetate: Working Loss					0.34				E3GAL
40704403	Organic Chemical Storage Butyl Acrylate: Breathing Loss					1.59				E3GAL

Table 3
Source Classification Codes and Emission Factor Listing

SCC	PROCES DESCRIPTION	PM10 Lbs/unit	PM2.5 Lbs/unit	SO2 Lbs/unit	NOx Lbs/unit	VOC Lbs/unit	CO Lbs/unit	Lead Lbs/unit	Ammonia Lbs/unit	Units
40704404	Organic Chemical Storage Butyl Acrylate: Working Loss					0.2				E3GAL
40704405	Organic Chemical Storage Ethyl Acetate: Breathing Loss					8.5				E3GAL
40704406	Organic Chemical Storage Ethyl Acetate: Working Loss					2.3				E3GAL
40704407	Organic Chemical Storage Ethyl Acrylate: Breathing Loss					5.2				E3GAL
40704408	Organic Chemical Storage Ethyl Acrylate: Working Loss					1.1				E3GAL
40704411	Organic Chemical Storage Isopropyl Acetate: Breathing Loss					7.3				E3GAL
40704412	Organic Chemical Storage Isopropyl Acetate: Working Loss					1.8				E3GAL
40704413	Organic Chemical Storage Methyl Acetate: Breathing Loss					14.4				E3GAL
40704414	Organic Chemical Storage Methyl Acetate: Working Loss					4.8				E3GAL
40704415	Organic Chemical Storage Methyl Acrylate: Breathing Loss					8.2				E3GAL
40704416	Organic Chemical Storage Methyl Acrylate: Working Loss					2.2				E3GAL
40704417	Organic Chemical Storage Methyl Methacrylate: Breathing Loss					3.8				E3GAL
40704418	Organic Chemical Storage Methyl Methacrylate: Working Loss					0.7				E3GAL
40704419	Organic Chemical Storage Vinyl Acetate: Breathing Loss					9.4				E3GAL
40704420	Organic Chemical Storage Vinyl Acetate: Working Loss					2.7				E3GAL
40705209	Organic Chemical Storage Diethylene Glycol: Breathing Loss					0.003				E3GAL
40705603	Organic Chemical Storage Ethylene Glycol: Breathing Loss					0.052				E3GAL
40705604	Organic Chemical Storage Ethylene Glycol: Working Loss					0.002				E3GAL

Table 3
Source Classification Codes and Emission Factor Listing

SCC	PROCES DESCRIPTION	PM10 Lbs/unit	PM2.5 Lbs/unit	SO2 Lbs/unit	NOx Lbs/unit	VOC Lbs/unit	CO Lbs/unit	Lead Lbs/unit	Ammonia Lbs/unit	Units
40705609	Organic Chemical Storage Propylene Glycol: Breathing Loss					0.007				E3GAL
40706005	Organic Chemical Storage Carbon Tetrachloride: Breathing Loss					17.8				E3GAL
40706006	Organic Chemical Storage Carbon Tetrachloride: Working Loss					5.2				E3GAL
40706007	Organic Chemical Storage Chlorobenzene: Breathing Loss					2.5				E3GAL
40706008	Organic Chemical Storage Chlorobenzene: Working Loss					0.36				E3GAL
40706009	Organic Chemical Storage o-Dichlorobenzene: Breathing Loss					0.69				E3GAL
40706010	Organic Chemical Storage o-Dichlorobenzene: Working Loss					0.05				E3GAL
40706011	Organic Chemical Storage p-Dichlorobenzene: Breathing Loss					0.82				E3GAL
40706012	Organic Chemical Storage p-Dichlorobenzene: Working Loss					0.06				E3GAL

Table 3
Source Classification Codes and Emission Factor Listing

SCC	PROCES DESCRIPTION	PM10 Lbs/unit	PM2.5 Lbs/unit	SO2 Lbs/unit	NOx Lbs/unit	VOC Lbs/unit	CO Lbs/unit	Lead Lbs/unit	Ammonia Lbs/unit	Units
40706013	Organic Chemical Storage Epichlorohydrin: Breathing Loss					2.5				E3GAL
40706014	Organic Chemical Storage Epichlorohydrin: Working Loss					0.4				E3GAL
40706015	Organic Chemical Storage Ethylene Dibromide: Breathing Loss					4.9				E3GAL
40706016	Organic Chemical Storage Ethylene Dibromide: Working Loss					0.77				E3GAL
40706017	Organic Chemical Storage Ethylene Dichloride: Breathing Loss					8.7				E3GAL
40706018	Organic Chemical Storage Ethylene Dichloride: Working Loss					2.3				E3GAL
40706021	Organic Chemical Storage Perchloroethylene: Breathing Loss					5				E3GAL
40706022	Organic Chemical Storage Perchloroethylene: Working Loss					0.84				E3GAL
40706023	Organic Chemical Storage Trichloroethylene: Breathing Loss					11.1				E3GAL
40706024	Organic Chemical Storage Trichloroethylene: Working Loss					2.9				E3GAL
40706403	Organic Chemical Storage TDI: Breathing Loss					0.044				E3GAL
40706404	Organic Chemical Storage TDI: Working Loss					0.0008				E3GAL
40706801	Organic Chemical Storage Cyclohexanone: Breathing Loss					1.7				E3GAL
40706802	Organic Chemical Storage Cyclohexanone: Working Loss					0.2				E3GAL
40707601	Organic Chemical Storage Acrylonitrile: Breathing Loss					6.1				E3GAL
40707602	Organic Chemical Storage Acrylonitrile: Working Loss					1.8				E3GAL
40708001	Organic Chemical Storage Nitrobenzene: Breathing Loss					0.43				E3GAL
40708002	Organic Chemical Storage Nitrobenzene: Working Loss					0.027				E3GAL

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Table 3
Source Classification Codes and Emission Factor Listing

SCC	PROCES DESCRIPTION	PM10 Lbs/unit	PM2.5 Lbs/unit	SO2 Lbs/unit	NOx Lbs/unit	VOC Lbs/unit	CO Lbs/unit	Lead Lbs/unit	Ammonia Lbs/unit	Units
40708403	Organic Chemical Storage Phenol: Breathing Loss					0.15				E3GAL
40708404	Organic Chemical Storage Phenol: Working Loss					0.006				E3GAL
40717205	Organic Chemical Storage n-Butyraldehyde: Standing Loss					1.4				E3GAL
40717206	Organic Chemical Storage n-Butyraldehyde: Withdrawal Loss					0.002				E3GAL
40717209	Organic Chemical Storage Isobutyraldehyde: Standing Loss					2.4				E3GAL
40717211	Organic Chemical Storage Propionaldehyde: Standing Loss					3.9				E3GAL
40717212	Organic Chemical Storage Propionaldehyde: Withdrawal Loss					0.002				E3GAL
40717601	Organic Chemical Storage Cyclohexane: Standing Loss					1.47				E3GAL
40717602	Organic Chemical Storage Cyclohexane: Withdrawal Loss					0.002				E3GAL
40717603	Organic Chemical Storage n-Hexane: Standing Loss					2.5				E3GAL
40717604	Organic Chemical Storage n-Hexane: Withdrawal Loss					0.002				E3GAL
40717605	Organic Chemical Storage n-Pentane: Standing Loss					9.4				E3GAL
40717606	Organic Chemical Storage n-Pentane: Withdrawal Loss					0.002				E3GAL
40718001	Organic Chemical Storage Isoprene: Standing Loss					9.7				E3GAL
40718002	Organic Chemical Storage Isoprene: Withdrawal Loss					0.002				E3GAL
40718005	Organic Chemical Storage 1-Pentene: Standing Loss					12.6				E3GAL
40718006	Organic Chemical Storage 1-Pentene: Withdrawal Loss					0.002				E3GAL
40718007	Organic Chemical Storage Piperylene: Standing Loss					6.4				E3GAL

Table 3
Source Classification Codes and Emission Factor Listing

SCC	PROCES DESCRIPTION	PM10 Lbs/unit	PM2.5 Lbs/unit	SO2 Lbs/unit	NOx Lbs/unit	VOC Lbs/unit	CO Lbs/unit	Lead Lbs/unit	Ammonia Lbs/unit	Units
40718008	Organic Chemical Storage Piperylene: Withdrawal Loss					0.002				E3GAL
40718009	Organic Chemical Storage Cyclopentene: Standing Loss					5.8				E3GAL
40718010	Organic Chemical Storage Cyclopentene: Withdrawal Loss					0.002				E3GAL
40720801	Organic Chemical Storage Ethyl Ether: Standing Loss					9.9				E3GAL
40720802	Organic Chemical Storage Ethyl Ether: Withdrawal Loss					0.002				E3GAL
40720803	Organic Chemical Storage Propylene Oxide: Standing Loss					7.8				E3GAL
40720804	Organic Chemical Storage Propylene Oxide: Withdrawal Loss					0.002				E3GAL
40722001	Organic Chemical Storage Carbon Tetrachloride: Standing Loss					3.2				E3GAL
40722002	Organic Chemical Storage Carbon Tetrachloride: Withdrawal Loss					0.004				E3GAL
40722003	Organic Chemical Storage Chloroform: Standing Loss					4.6				E3GAL
40722004	Organic Chemical Storage Chloroform: Withdrawal Loss					0.004				E3GAL
40722005	Organic Chemical Storage Ethylene Dichloride: Standing Loss					1.4				E3GAL
40722006	Organic Chemical Storage Ethylene Dichloride: Withdrawal Loss					0.003				E3GAL
40722009	Organic Chemical Storage Trichlorethylene: Standing Loss					0.56				E3GAL
40722010	Organic Chemical Storage Trichlorethylene: Withdrawal Loss					0.004				E3GAL
40722801	Organic Chemical Storage Acetone: Standing Loss					2.6				E3GAL
40722802	Organic Chemical Storage Acetone: Withdrawal Loss					0.002				E3GAL
40722803	Organic Chemical Storage Methyl Ethyl Ketone: Standing Loss					1.3				E3GAL

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Table 3
Source Classification Codes and Emission Factor Listing

SCC	PROCES DESCRIPTION	PM10 Lbs/unit	PM2.5 Lbs/unit	SO2 Lbs/unit	NOx Lbs/unit	VOC Lbs/unit	CO Lbs/unit	Lead Lbs/unit	Ammonia Lbs/unit	Units
40722804	Organic Chemical Storage Methyl Ethyl Ketone: Withdrawal Loss					0.002				E3GAL
40722805	Organic Chemical Storage Methyl Isobutyl Ketone: Standing Loss					0.31				E3GAL
40722806	Organic Chemical Storage Methyl Isobutyl Ketone: Withdrawal Loss					0.002				E3GAL
40723201	Organic Chemical Storage Ethyl Mercaptan: Standing Loss					8.2				E3GAL
40723202	Organic Chemical Storage Ethyl Mercaptan: Withdrawal Loss					0.002				E3GAL
40799997	Organic Chemical Storage Specify in Comments					1.44				TON
49000101	Organic Solvent Evaporation Petroleum Naphtha (Stoddard)					2000				TON
49000102	Organic Solvent Evaporation Methyl Ethyl Ketone					2000				TON
49000103	Organic Solvent Evaporation Methyl Isobutyl Ketone					2000				TON
49000104	Organic Solvent Evaporation Furfural					2000				TON
49000105	Organic Solvent Evaporation Trichloroethylene					2000				TON
49000199	Organic Solvent Evaporation Other Not Classified					2000				TON
49000201	Organic Solvent Evaporation Storage Tank Vent					0.02				TON
49000202	Organic Solvent Evaporation Condenser Vent					3.3				TON
49000203	Organic Solvent Evaporation Incinerator Stack					0.02				TON
49000204	Organic Solvent Evaporation Solvent Spillage					0.2				TON
49000205	Organic Solvent Evaporation Solvent Loading					0.72				TON
49000299	Organic Solvent Evaporation Other Not Classified					2000				TON

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**Table 3
Source Classification Codes and Emission Factor Listing**

SCC	PROCES DESCRIPTION	PM10 Lbs/unit	PM2.5 Lbs/unit	SO2 Lbs/unit	NOx Lbs/unit	VOC Lbs/unit	CO Lbs/unit	Lead Lbs/unit	Ammonia Lbs/unit	Units
49000301	Organic Solvent Evaporation Ethylene Glycol					0.0007				EACH
49000302	Organic Solvent Evaporation Chlorobenzene					0.035				EACH
49000303	Organic Solvent Evaporation o-Dichlorobenzene					0.166				EACH
49000304	Organic Solvent Evaporation Creosote					5.18				EACH
49000401	Organic Solvent Evaporation Acetone					0.69				EACH
49000402	Organic Solvent Evaporation Perchloroethylene					0.474				EACH
49000403	Organic Solvent Evaporation Methyl Methacrylate					0.071				EACH
49000404	Organic Solvent Evaporation Phenol					0.012				EACH
49000405	Organic Solvent Evaporation Propylene Glycol					0.002				EACH
49000501	Organic Solvent Evaporation Trichloroethylene					2000				TON
49000502	Organic Solvent Evaporation Perchloroethylene					2000				TON
49000504	Organic Solvent Evaporation Chloroform					2000				TON
49000599	Organic Solvent Evaporation Specify Solvent in Comments					2000				TON
49090011	Organic Solvent Evaporation Distillate Oil (No. 2): Incinerators					0.4				E3GAL
49090012	Organic Solvent Evaporation Residual Oil: Incinerators					0.56				E3GAL
49090013	Organic Solvent Evaporation Natural Gas: Incinerators					5.6				E6FT3
49090023	Organic Solvent Evaporation Natural Gas: Flares					5.6				E6FT3
49099999	Organic Solvent Evaporation Identify the Process and Solvent in Comments					2000				TON

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Table 3
Source Classification Codes and Emission Factor Listing

SCC	PROCES DESCRIPTION	PM10 Lbs/unit	PM2.5 Lbs/unit	SO2 Lbs/unit	NOx Lbs/unit	VOC Lbs/unit	CO Lbs/unit	Lead Lbs/unit	Ammonia Lbs/unit	Units
50100101	Solid Waste Disposal - Government Starved Air: Multiple Chamber			3.23	3.16	1.5	0.299	0.12		TON
50100102	Solid Waste Disposal - Government Mass Burn: Single Chamber			1.7	3.6	0.1	2.2	0.18		TON
50100103	Solid Waste Disposal - Government Refuse Derived Fuel			3.9	5.02		1.92	0.201		TON
50100104	Solid Waste Disposal - Government Mass Burn Refractory Wall Combustor			3.46	2.46		1.37	0.213		TON
50100105	Solid Waste Disposal - Government Mass Burn Waterwall Combustor			3.46	3.56		0.463	0.213		TON
50100106	Solid Waste Disposal - Government Mass Burn Rotary Waterwall Combustor			3.46	2.25		0.766	0.213		TON
50100107	Solid Waste Disposal - Government Modular Excess Air Combustor			3.46	2.47			0.213		TON
50100201	Solid Waste Disposal - Government General Refuse			1	6	30	85			TON
50100202	Solid Waste Disposal - Government Vegetation Only				4	19	140			TON
50100410	Solid Waste Disposal - Government Waste Gas Destruction: Waste Gas Flares	17	17		40		750			E6FT3S
50100420	Solid Waste Disposal - Government Waste Gas Recovery: Gas Turbines	22	22		87		230			E6FT3S
50100421	Solid Waste Disposal - Government Waste Gas Recovery: Internal Combustion Device	48	48		250		470			E6FT3
50100423	Solid Waste Disposal - Government Waste Gas Recovery: Boiler	8.2	8.2		33		5.7			E6FT3
50100505	Solid Waste Disposal - Government Medical Waste Incinerator, unspecified type, Infectious wastes only			2.17	3.56	0.3	2.95	0.0728		TON
50100506	Solid Waste Disposal - Government Sludge			1	1.04	1	7.73	0.025		TON
50100507	Solid Waste Disposal - Government Conical Design (Tee Pee) Municipal Refuse			2	5	20	60			TON
50100508	Solid Waste Disposal - Government Conical Design (Tee Pee) Wood Refuse			0.1	1	11	130			TON
50100510	Solid Waste Disposal - Government Trench Burner: Wood			0.1	4	19				TON

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Table 3
Source Classification Codes and Emission Factor Listing

SCC	PROCES DESCRIPTION	PM10 Lbs/unit	PM2.5 Lbs/unit	SO2 Lbs/unit	NOx Lbs/unit	VOC Lbs/unit	CO Lbs/unit	Lead Lbs/unit	Ammonia Lbs/unit	Units
50100511	Solid Waste Disposal - Government Trench Burner: Tires					6				TON
50100512	Solid Waste Disposal - Government Trench Burner: Refuse			2.5		13				TON
50100515	Solid Waste Disposal - Government Sludge: Multiple Hearth			28	5	1.7	31	0.1		TON
50100516	Solid Waste Disposal - Government Sludge: Fluidized Bed			0.3	1.7		2.1	0.04		TON
50100517	Solid Waste Disposal - Government Sludge: Electric Infrared			18	8.6			0.1		TON
50100701	Solid Waste Disposal - Government Entire Plant					8.9			19	E6GAL
50200101	Solid Waste Disposal - Commercial/Institutional Multiple Chamber			2.5	3	3	10			TON
50200102	Solid Waste Disposal - Commercial/Institutional Single Chamber			2.5	2	15	20			TON
50200103	Solid Waste Disposal - Commercial/Institutional Controlled Air			1.5	10					TON
50200104	Solid Waste Disposal - Commercial/Institutional Conical Design (Tee Pee) Municipal Refuse			2	5	20	60			TON
50200105	Solid Waste Disposal - Commercial/Institutional Conical Design (Tee Pee) Wood Refuse			0.1	1	11	130			TON
50200201	Solid Waste Disposal - Commercial/Institutional Wood				4	19	140			TON
50200202	Solid Waste Disposal - Commercial/Institutional Refuse			1	6	30	85			TON
50200301	Solid Waste Disposal - Commercial/Institutional Flue Fed			0.5	3	15	20			TON
50200302	Solid Waste Disposal - Commercial/Institutional Flue Fed with Afterburner and Draft Controls			0.5	10	3	10			TON
50200501	Solid Waste Disposal - Commercial/Institutional Med Waste Controlled Air Incin-aka Starved air, 2-stg, or Modular comb			2.17	3.56	0.299	2.95	0.0728		TON
50200503	Solid Waste Disposal - Commercial/Institutional Medical Waste Rotary Kiln Incinerator			1.09	4.63	0.0666	0.382	0.124		TON
50200505	Solid Waste Disposal - Commercial/Institutional Medical Waste Incinerator, unspecified type, Infectious wastes only			2.17	3.56	0.3	2.95	0.0728		TON

Table 3
Source Classification Codes and Emission Factor Listing

SCC	PROCES DESCRIPTION	PM10 Lbs/unit	PM2.5 Lbs/unit	SO2 Lbs/unit	NOx Lbs/unit	VOC Lbs/unit	CO Lbs/unit	Lead Lbs/unit	Ammonia Lbs/unit	Units
50200506	Solid Waste Disposal - Commercial/Institutional Sludge			1	5	1		0.1		TON
50200601	Solid Waste Disposal - Commercial/Institutional Waste Gas Flares ** (Use 5-01-004-10)				40	5.6	750			E6FT3
50300101	Solid Waste Disposal - Industrial Multiple Chamber			2.5	3	3	10			TON
50300102	Solid Waste Disposal - Industrial Single Chamber			2.5	2	15	20	0.00181		TON
50300103	Solid Waste Disposal - Industrial Controlled Air			1.5	10					TON
50300104	Solid Waste Disposal - Industrial Conical Design (Tee Pee) Municipal Refuse			2	5	20	60			TON
50300105	Solid Waste Disposal - Industrial Conical Design (Tee Pee) Wood Refuse			0.1	1	11	130			TON
50300106	Solid Waste Disposal - Industrial Trench Burner: Wood			0.1	4					TON
50300107	Solid Waste Disposal - Industrial Trench Burner: Tires					6				TON
50300108	Solid Waste Disposal - Industrial Auto Body Components				0.1		2.5			EACH
50300109	Solid Waste Disposal - Industrial Trench Burner: Refuse			2.5		13				TON
50300111	Solid Waste Disposal - Industrial Mass Burn Refractory Wall Combustor			3.46	2.46		1.37	0.213		TON
50300112	Solid Waste Disposal - Industrial Mass Burn Waterwall Combustor			3.46	3.56		0.463	0.213		TON
50300113	Solid Waste Disposal - Industrial Mass Burn Rotary Waterwall Combustor			3.46	2.25		0.766	0.213		TON
50300114	Solid Waste Disposal - Industrial Modular Starved-air Combustor			3.23	3.16		0.299			TON
50300115	Solid Waste Disposal - Industrial Modular Excess-air Combustor			3.46	2.47			0.213		TON
50300201	Solid Waste Disposal - Industrial Wood/Vegetation/Leaves				4					TON
50300202	Solid Waste Disposal - Industrial Refuse			1	6	30	85			TON

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Table 3
Source Classification Codes and Emission Factor Listing

SCC	PROCES DESCRIPTION	PM10 Lbs/unit	PM2.5 Lbs/unit	SO2 Lbs/unit	NOx Lbs/unit	VOC Lbs/unit	CO Lbs/unit	Lead Lbs/unit	Ammonia Lbs/unit	Units
50300203	Solid Waste Disposal - Industrial Auto Body Components				4000	32000	125000	0.67		E3TON
50300505	Solid Waste Disposal - Industrial Hazardous Waste Incinerators: Multiple Hearth				3					TON
50300506	Solid Waste Disposal - Industrial Sludge			1	5	1				TON
50300601	Solid Waste Disposal - Industrial Waste Gas Flares	17	17		40		750			E6FT3
50300701	Solid Waste Disposal - Industrial General				42.6	4.5				E3GAL
50300830	Solid Waste Disposal - Industrial Containers: Fugitive Emissions					222				E3EACH

TABLE 4

DETAIL LISTING OF 2011 CONNECTICUT POINT SOURCE INVENTORY

Site Information:

Site Name: BRIDGEPORT ENERGY LLC EIS ID : 754511 CT ID: 15-862 SIC Code: 4911
 Address : 10 ATLANTIC ST, BRIDGEPORT, CT Latitude: 41.168931 Longitude: -73.184491
 County : FAIRFIELD Ozone Status Area : CT-NY-NJ CSA PM2.5 Status Area: CT-NY-NJ PM2.5 Nonattainment Area

2011 Information:

Point ID	Process Description	Annual Emissions with RE (tons / year)								Daily Emissions with RE (lbs/ day)		
		VOC	NOx	CO	PM10	PM2.5	NH3	SO2	Lead	VOC	NOx	CO
E1	303(PEAK)HP CATERPILLER DIESEL	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.00000	3	4	3
P190	170 MW SIEMENS TURBINE	5.8	88.7	38.3	4.8	4.8	1.4	3.0	0.00000	44	591	202
P191	170 MW SIEMENS TURBINE	6.0	84.7	33.8	5.0	5.0	1.4	3.6	0.00000	43	594	211

Site Information:

Site Name: BRIDGEPORT INSULATED WIRE CO EIS ID : 14623811 CT ID: 178-60 SIC Code: 3357
 Address : 514 SURF AVE, STRATFORD, CT Latitude: 41.177402 Longitude: -73.150877
 County : FAIRFIELD Ozone Status Area : CT-NY-NJ CSA PM2.5 Status Area: CT-NY-NJ PM2.5 Nonattainment Area

2011 Information:

Point ID	Process Description	Annual Emissions with RE (tons / year)								Daily Emissions with RE (lbs/ day)		
		VOC	NOx	CO	PM10	PM2.5	NH3	SO2	Lead	VOC	NOx	CO
E1	Miscellaneous Cleaning (MEK)	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	20	0	0
E2	Magnet Wire Coating Slip Oil Application	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	20	0	0
U1	MAGNET WIRE COATING	0.1	0.2	0.1	0.0	0.0	0.0	0.0	0.00000	0	1	1

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TABLE 4

DETAIL LISTING OF 2011 CONNECTICUT POINT SOURCE INVENTORY

Site Information:

Site Name: CONNECTICUT JET POWER, LLC EIS ID : 2722511 CT ID: 67-17 SIC Code: 4911
 Address : SOUND SHORE DR, GREENWICH, CT Latitude: 41.028798 Longitude: -73.598721
 County : FAIRFIELD Ozone Status Area : CT-NY-NJ CSA PM2.5 Status Area: CT-NY-NJ PM2.5 Nonattainment Area

2011 Information:

Point ID	Process Description	Annual Emissions with RE (tons / year)							Daily Emissions with RE (lbs/ day)			
		VOC	NOx	CO	PM10	PM2.5	NH3	SO2	Lead	VOC	NOx	CO
P97	20 MW FT4 TURBINE Unit 13	0.0	0.5	0.8	0.0	0.0	0.0	0.0	0.00004	0	6	9
P98	20 MW FT4 TURBINE Unit 14	0.0	0.2	0.3	0.0	0.0	0.0	0.0	0.00002	0	2	3
R52	P&WA FT4 TURBINE Unit 10	0.0	0.4	0.6	0.0	0.0	0.0	0.0	0.00003	0	1	1
R53	P&WA FT4 TURBINE Unit 11	0.0	0.4	0.6	0.0	0.0	0.0	0.0	0.00003	0	4	7
R54	P&WA FT4 TURBINE Unit 12	0.0	0.5	0.5	0.0	0.0	0.0	0.0	0.00003	0	5	5

Site Information:

Site Name: Cray Valley USA, LLC EIS ID : 533411 CT ID: 178-167 SIC Code: 2869
 Address : 105 ONTARIO ST, STRATFORD, CT Latitude: 41.172881 Longitude: -73.149812
 County : FAIRFIELD Ozone Status Area : CT-NY-NJ CSA PM2.5 Status Area: CT-NY-NJ PM2.5 Nonattainment Area

2011 Information:

Point ID	Process Description	Annual Emissions with RE (tons / year)							Daily Emissions with RE (lbs/ day)			
		VOC	NOx	CO	PM10	PM2.5	NH3	SO2	Lead	VOC	NOx	CO
E1	MISC BLR CB 200-60	0.0	0.3	0.3	0.0	0.0	0.0	0.0	0.00000	0	1	1
P112	BATCH PROCESS REACTOR BL2	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	27	0	0
P113	BATCH PROCESS REACTOR BL3	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	27	0	0
R304	BATCH PROCESS REACTOR BL1&MISC	5.0	0.0	0.0	0.4	0.0	0.0	0.0	0.00000	48	0	0

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TABLE 4

DETAIL LISTING OF 2011 CONNECTICUT POINT SOURCE INVENTORY

Site Information:

Site Name: DANBURY /DPW (LANDFILL) EIS ID : 2722111 CT ID: 44-158 SIC Code: 9511
 Address : 23 PLUMTREES RD, DANBURY, CT Latitude: 41.419933 Longitude: -73.407263
 County : FAIRFIELD Ozone Status Area : CT-NY-NJ CSA PM2.5 Status Area: CT-NY-NJ PM2.5 Nonattainment Area

2011 Information:

Point ID	Process Description	Annual Emissions with RE (tons / year)							Daily Emissions with RE (lbs/ day)			
		VOC	NOx	CO	PM10	PM2.5	NH3	SO2	Lead	VOC	NOx	CO
E1	BLR PACIFIC 1606R EMU-004	0.0	1.0	0.8	0.1	0.1	0.0	0.0	0.00000	0	5	4
E2	BLR AJAX FD-5500 EMU-005	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.00000	0	0	0
E3	CAT 3508 DIESEL GEN EMU-006	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.00000	0	1	0
E4	CAT 3512 DIESEL GEN EMU-013	0.0	0.4	0.1	0.0	0.0	0.0	0.0	0.00000	0	2	1
E5	BLR WM WCR2-OAS EMU-025	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0
E6	DIGEST GAS-FIRED FLARE EMU-028	0.1	0.0	0.3	0.0	0.0	0.0	0.0	0.00000	1	0	2
E7	VAREC 244W FLARE EMU-027	0.4	0.2	1.0	0.2	0.2	0.0	0.0	0.00000	3	1	8
E8	WPCP VESSELS EMU-029	5.8	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	28	0	0
E10	HEATING UNITS EMU-056-062	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0
E11	HOT WATER HEAT EMU-041-051	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.00000	0	0	0
E12	BLR NAT GAS EMU-001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0
E13	BLR BURHAM PF-505 EMU-002	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0
E14	HEATING UNITS EMU-003	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0
E15	BLR NAT GAS EMU-007	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0
E16	HOT WATER HEAT EMU-008	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0
E17	HEATING UNITS EMUS 9-19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0
E18	HEATING UNITS EMUS 20-24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0
E19	HEATING UNITS EMUS 30-31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0

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TABLE 4

DETAIL LISTING OF 2011 CONNECTICUT POINT SOURCE INVENTORY

E20	HEATING UNITS EMUS 32-34	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0
E21	HEATING UNITS EMUS 35-40	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0
E22	HEATING UNITS EMUS 52-54	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0
E23	HOT WATER HEAT EMU-055	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0
E24	Plant Ops Bldg Natural Gas Hot Water Heater	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0
P92	LANDFILL FLARE	0.1	1.6	5.3	1.9	1.9	0.0	2.0	0.00000	1	8	26

Site Information:

Site Name: IROQUOIS PIPELINE OPERATING EIS ID : 14621711 CT ID: 28-49 SIC Code: 4922
 Address : 78 HIGH MEADOW ROAD, BROOKFIELD, CT Latitude: 41.43302 Longitude: -73.377022
 County : FAIRFIELD Ozone Status Area : CT-NY-NJ CSA PM2.5 Status Area: CT-NY-NJ PM2.5 Nonattainment Area

2011 Information:

Point ID	Process Description	Annual Emissions with RE (tons / year)								Daily Emissions with RE (lbs/ day)		
		VOC	NOx	CO	PM10	PM2.5	NH3	SO2	Lead	VOC	NOx	CO
E1	Station Emergency Shutdown Device Natural Gas Venting	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	6	0	0
E4	Caterpillar emergency power generator engine	0.2	2.1	1.5	0.0	0.0	0.0	0.0	0.00000	1	12	9
E5	Compressor normal seal gas leakage	14.3	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	81	0	0
E6	EU01 Startups, Shutdowns and Malfunctions	0.2	0.0	3.4	0.0	0.0	0.0	0.0	0.00000	2	0	33
E7	EU02 Startups, Shutdowns and Malfunctions	0.4	0.1	6.4	0.0	0.0	0.0	0.0	0.00000	4	1	73
P25	SOLAR TAURUS 60 NG COMPRESSOR (never installed)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0
P27	Solar Taurus Model 60 SoLoNOx combustion turbine	0.5	6.7	0.2	8.2	8.2	0.0	0.1	0.00000	3	37	1
P28	Solar Taurus Model 70 SoLoNOx combustion turbine	0.8	3.6	0.5	1.7	1.7	0.0	0.2	0.00000	4	21	3

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TABLE 4

DETAIL LISTING OF 2011 CONNECTICUT POINT SOURCE INVENTORY

E3	TANK# 34-ADDITIVE(DIESEL)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0
E4	TANK# 33 ADDITIVE (GENERIC)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0
E5	TANK# 32-ADDITIVE(GENERIC)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0
E6	TANK# 20 (DISTILLATE)	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	2	0	0
E7	TANK# 22 (DISTILLATE)	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	3	0	0
E8	TANK# 23 (DISTILLATE)	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	3	0	0
E9	TANK# 24 (DISTILLATE)	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	2	0	0
E10	TANK# 25 -ADDITIVE (SHELL)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0
E11	TANK#31-DISTILLATE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0
E12	TANK#37-ADDITIVE (TEXACO)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0
E13	TANK#38-ADDITIVE (EXXON)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0
E14	TANK DEGASSING AND CLEANING OPERATIONS	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0
E15	Stack #17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0
E16	Fugitive VOC Losses From Pumps/Valves/Flanges	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	5	0	0
P168	TRUCK LOAD RACK - DIST (4)	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0
P733	TRUCK LOADING RACK - GASOLINE	8.3	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	45	0	0
R734	TANK #11 - MNL GASOLINE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0
R735	TANK #12 - GASOLINE	5.9	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	22	0	0
R736	TANK #14 - FUEL ETHANOL	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	5	0	0
R737	TANK #15 - FUEL ETHANOL	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	2	0	0
R738	TANK #16- GASOLINE	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0
R952	TANK #18 - GASOLINE	6.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	24	0	0
R953	TANK #19 - DISTILLATE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0
R954	TANK #17 - GASOLINE	5.4	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	22	0	0

TABLE 4

DETAIL LISTING OF 2011 CONNECTICUT POINT SOURCE INVENTORY

U1 DISTILLATE SPLASHLOADING-BARGE 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.00000 0 0 0

Site Information:

Site Name: NORWALK HOSPITAL EIS ID : 552411 CT ID: 137-3 SIC Code: 8062
 Address : 24 STEVENS ST, NORWALK, CT Latitude: 41.10848 Longitude: -73.42196
 County : FAIRFIELD Ozone Status Area : CT-NY-NJ CSA PM2.5 Status Area: CT-NY-NJ PM2.5 Nonattainment Area

2011 Information:

Point ID	Process Description	Annual Emissions with RE (tons / year)							Daily Emissions with RE (lbs/ day)			
		VOC	NOx	CO	PM10	PM2.5	NH3	SO2	Lead	VOC	NOx	CO
E1	300 KW GENERATOR	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0
P38	CUMMINS VTA12-800GTS DIESEL #1	0.0	0.4	0.1	0.0	0.0	0.0	0.0	0.00000	0	2	1
P39	CUMMINS VTA12-800GTS DIESEL #2	0.0	0.4	0.1	0.0	0.0	0.0	0.0	0.00000	0	2	1
P51	KAWASAKI M1A-13 TURBINE #1	2.5	10.0	4.4	1.2	1.2	0.0	0.0	0.00019	16	64	28
P52	KAWASAKI M1A-13 TURBINE #2	2.7	10.9	4.8	1.4	1.4	0.0	0.0	0.00020	20	80	35
P53	BLR CB 200-500 #1	0.0	1.4	0.2	0.1	0.1	0.0	0.0	0.00000	0	5	1
P54	BLR CB 200-500 #2	0.0	2.1	0.3	0.2	0.2	0.0	0.0	0.00000	0	5	1
P66	CAT 3508 DIESEL	0.1	1.0	0.2	0.1	0.1	0.0	0.0	0.00000	0	6	1
P135	CTERPILLAR 3516 B	0.1	2.0	0.3	0.1	0.1	0.0	0.0	0.00000	1	14	2
U1	HEALTH SERVICES: ETO STERILIZA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0

Site Information:

Site Name: NORWALK POWER, LLC EIS ID : 843611 CT ID: 137-14 SIC Code: 4911
 Address : MANRESA ISLAND AVE, NORWALK, CT Latitude: 41.074033 Longitude: -73.40612
 County : FAIRFIELD Ozone Status Area : CT-NY-NJ CSA PM2.5 Status Area: CT-NY-NJ PM2.5 Nonattainment Area

2011 Information:

Point ID	Process Description	Annual Emissions with RE (tons / year)							Daily Emissions with RE (lbs/ day)			
		VOC	NOx	CO	PM10	PM2.5	NH3	SO2	Lead	VOC	NOx	CO
E1	EMERGENCY GENERATOR (STATION)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0
E2	DIESEL EMERGENCY GENERATOR	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0

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TABLE 4

DETAIL LISTING OF 2011 CONNECTICUT POINT SOURCE INVENTORY

E5	DIESEL FUELED CRANKING ENGINE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0
P125	JOHN DEERE DIESEL # 6068HF250	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.00000	0	1	0
R28	BLR C.E. #1	0.6	14.8	2.9	1.1	1.0	0.5	23.4	0.00087	7	191	33
R30	BLR C.E. #2	0.6	16.2	3.1	1.2	1.1	0.5	25.6	0.00092	6	236	30
R32	WESTINGHOUSE TURBINE W191G	0.0	0.5	0.0	0.0	0.0	0.0	0.3	0.00001	0	6	0
R33	BLR SUPERIOR C300 HT6	0.0	0.8	0.2	0.1	0.1	0.0	1.3	0.00004	0	2	0

Site Information:

Site Name: PSEG PWR CT LLC/BPT HARBOR STA EIS ID : 754311
 Address : 1 ATLANTIC ST, BRIDGEPORT, CT
 County : FAIRFIELD Ozone Status Area : CT-NY-NJ CSA

CT ID: 15-45 SIC Code: 4911
 Latitude: 41.168587 Longitude: -73.183378
 PM2.5 Status Area: CT-NY-NJ PM2.5 Nonattainment Area

2011 Information:

Point ID	Process Description	Annual Emissions with RE (tons / year)								Daily Emissions with RE (lbs/ day)		
		VOC	NOx	CO	PM10	PM2.5	NH3	SO2	Lead	VOC	NOx	CO
E2	CUMMINGS 98HP JN-130-1P	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0
E3	CUMMINGS H6-1P/101 HP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0
E4	SPACE HEATER,MODEL AH 9	0.0	0.2	0.1	0.0	0.0	0.0	0.0	0.00000	0	0	0
E5	SPACE HEATER,MODEL AH 9	0.0	0.2	0.1	0.0	0.0	0.0	0.0	0.00000	0	0	0
E6	SPACE HEATER,MODEL AH 9	0.0	0.2	0.1	0.0	0.0	0.0	0.0	0.00000	0	0	0
P89	C.E. STEAM GENERATOR #3	9.2	372.3	76.2	6.4	2.2	0.4	512.9	0.00097	114	4,724	947
R160	B&W GENERATOR (CY) #1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0
R162	B&W GENERATOR (CY) #2	0.0	0.2	0.1	0.0	0.0	0.0	0.7	0.00002	0	0	0
R166	P&WA FT4A-8 TURBINE	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.00002	0	12	0

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TABLE 4

DETAIL LISTING OF 2011 CONNECTICUT POINT SOURCE INVENTORY

P122	AEROSPACE ENGINE TEST CELL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0
P123	AEROSPACE ENGINE TEST CELL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0

Site Information:

Site Name: WHEELABRATOR BRIDGEPORT LP EIS ID : 754411 CT ID: 15-765 SIC Code: 4953
 Address : 6 HOWARD AVE, BRIDGEPORT, CT Latitude: 41.157711 Longitude: -73.215788
 County : FAIRFIELD Ozone Status Area : CT-NY-NJ CSA PM2.5 Status Area: CT-NY-NJ PM2.5 Nonattainment Area

2011 Information:

Point ID	Process Description	Annual Emissions with RE (tons / year)								Daily Emissions with RE (lbs/ day)		
		VOC	NOx	CO	PM10	PM2.5	NH3	SO2	Lead	VOC	NOx	CO
E2	SPECTRUM DIESEL EMERG GEN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	1	0
E3	ASH CONDITIONER/HANDLING SYS	0.0	0.0	0.0	0.5	0.5	0.0	0.0	0.00000	0	0	0
E4	CAT DIESEL EMERG FIRE ENG	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.00000	1	7	1
E5	LIME SLAKERS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0
E6	LIME SILO W/FAB FILT VENT	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.00000	0	0	0
E10	CARBON SILO W/FAB FILTER VENT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0
P97	B&W RES RECOV INCIN #1	2.6	401.0	15.6	1.7	1.5	1.2	16.6	0.00388	15	2,310	90
P98	B&W RES RECOV INCIN #2	2.6	413.2	14.8	1.4	1.2	1.2	21.7	0.00334	15	2,440	87
P99	B&W RES RECOV INCIN #3	2.6	406.1	13.4	12.1	10.6	1.2	22.0	0.04574	15	2,370	78

Site Information:

Site Name: ALGONQUIN POWER WINDSOR EIS ID : 589711 CT ID: 213-1 SIC Code: 4911
 Address : 26 CANAL BANK RD, WINDSOR LOCKS, CT Latitude: 41.92341 Longitude: -72.626611
 County : HARTFORD Ozone Status Area : Greater Connecticut Area PM2.5 Status Area: PM2.5 Attainment Area

2011 Information:

Point ID	Process Description	Annual Emissions with RE (tons / year)								Daily Emissions with RE (lbs/ day)		
		VOC	NOx	CO	PM10	PM2.5	NH3	SO2	Lead	VOC	NOx	CO
P29	GE PB6541B GAS TURBINE	45.6	262.3	196.3	7.7	7.7	0.0	2.7	0.00003	244	1,401	1,053
P31	BLR NEBRASKA TYPE A #1	0.1	1.5	1.2	0.1	0.1	0.0	0.0	0.00000	1	11	8

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TABLE 4

DETAIL LISTING OF 2011 CONNECTICUT POINT SOURCE INVENTORY

P32 BLR NEBRASKA TYPE A #2 0.4 7.9 5.8 0.3 0.3 0.2 0.1 0.00000 3 67 50

Site Information:

Site Name: C R R A / HARTFORD LANDFILL EIS ID : 14624511 CT ID: 75-761 SIC Code: 9511
 Address : 180 LEIBERT RD, HARTFORD, CT Latitude: 41.785269 Longitude: -72.653375
 County : HARTFORD Ozone Status Area : Greater Connecticut Area PM2.5 Status Area: PM2.5 Attainment Area

2011 Information:

Point ID	Process Description	Annual Emissions with RE (tons / year)								Daily Emissions with RE (lbs/ day)		
		VOC	NOx	CO	PM10	PM2.5	NH3	SO2	Lead	VOC	NOx	CO
P120	LFG SPEC EF735I10 ENCL FLARE	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.00000	0	9	2

Site Information:

Site Name: C R R A / MID-CONNECTICUT EIS ID : 715611 CT ID: 75-158 SIC Code: 4953
 Address : RESERVE-MAXIM RDS, HARTFORD, CT Latitude: 41.747446 Longitude: -72.653551
 County : HARTFORD Ozone Status Area : Greater Connecticut Area PM2.5 Status Area: PM2.5 Attainment Area

2011 Information:

Point ID	Process Description	Annual Emissions with RE (tons / year)								Daily Emissions with RE (lbs/ day)		
		VOC	NOx	CO	PM10	PM2.5	NH3	SO2	Lead	VOC	NOx	CO
P44	C.E. VU-40 INCIN #1	2.0	260.0	118.1	0.4	0.4	4.1	3.9	0.00499	12	1,604	690
P45	C.E. VU-40 INCIN #2	2.0	267.3	181.2	0.9	0.9	2.5	9.9	0.00614	12	1,511	1,132
P46	C.E. VU-40 INCIN #3	2.2	276.4	160.8	1.2	1.2	1.3	8.8	0.00212	12	1,596	844
R260	P&W FT4A-9 TURBINE 11A	0.0	1.4	0.0	0.0	0.0	0.1	0.1	0.00003	0	18	0
R261	P&W FT4A-9 TURBINE 11B	0.0	1.4	0.0	0.0	0.0	0.1	0.1	0.00003	0	18	0
R262	P&W FT4A-9 TURBINE 12A	0.0	1.7	0.0	0.0	0.0	0.1	0.1	0.00003	0	19	0
R263	P&W FT4A-9 TURBINE 12B	0.0	1.6	0.0	0.0	0.0	0.1	0.1	0.00003	0	18	0
R264	P&W FT4A-9 TURBINE 13A	0.0	1.6	0.0	0.0	0.0	0.1	0.1	0.00003	0	16	0
R265	P&W FT4A-9 TURBINE 13B	0.0	1.9	0.0	0.1	0.1	0.1	0.1	0.00004	0	20	0
R266	P&W FT4A-9 TURBINE 14A	0.0	1.7	0.0	0.0	0.0	0.1	0.1	0.00003	0	21	0
R267	P&W FT4A-9 TURBINE 14B	0.0	1.7	0.0	0.0	0.0	0.1	0.1	0.00003	0	22	0

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TABLE 4

DETAIL LISTING OF 2011 CONNECTICUT POINT SOURCE INVENTORY

Site Information:

Site Name: Capitol District Energy Center EIS ID : 844911 CT ID: 75-766 SIC Code: 4911
 Address : 490 CAPITOL AVE, HARTFORD, CT Latitude: 41.760827 Longitude: -72.691555
 County : HARTFORD Ozone Status Area : Greater Connecticut Area PM2.5 Status Area: PM2.5 Attainment Area

2011 Information:

Point ID	Process Description	Annual Emissions with RE (tons / year)								Daily Emissions with RE (lbs/ day)		
		VOC	NOx	CO	PM10	PM2.5	NH3	SO2	Lead	VOC	NOx	CO
E1	BLR 2 CLEAVER BROOKS CBI-400-800-200	0.2	1.6	2.0	0.5	0.5	0.0	0.0	0.00002	2	13	17
P64	GE PG6531 GAS TURB & DUCT BRNR	0.0	3.0	0.2	0.2	0.2	0.0	0.0	0.00001	2	307	15
P65	BLR ZURN 22M KEYSTONE	0.5	11.5	2.6	0.7	0.7	0.0	0.1	0.00004	2	36	8
P150	DETROIT 12V-71-IT DIESEL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	3	1
P329	FUEL OIL TANKS #1,#2,#3,#4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0

Site Information:

Site Name: COVANTA BRISTOL, INC EIS ID : 588711 CT ID: 26-202 SIC Code: 4953
 Address : 170 ENTERPRISE DR, BRISTOL, CT Latitude: 41.647154 Longitude: -72.916559
 County : HARTFORD Ozone Status Area : Greater Connecticut Area PM2.5 Status Area: PM2.5 Attainment Area

2011 Information:

Point ID	Process Description	Annual Emissions with RE (tons / year)								Daily Emissions with RE (lbs/ day)		
		VOC	NOx	CO	PM10	PM2.5	NH3	SO2	Lead	VOC	NOx	CO
P26	MARTIN/ZURN INCIN #1	1.0	96.5	14.0	0.5	0.3	0.8	10.1	0.00158	6	562	81
P27	MARTIN/ZURN INCIN #2	1.0	151.2	10.4	1.0	0.6	0.3	6.4	0.00350	6	864	60

Site Information:

Site Name: CTG Resources EIS ID : 2753811 CT ID: 155-15 SIC Code: 4924
 Address : 1376 CROMWELL AVE, ROCKY HILL, CT Latitude: 41.631839 Longitude: -72.68176
 County : HARTFORD Ozone Status Area : Greater Connecticut Area PM2.5 Status Area: PM2.5 Attainment Area

2011 Information:

Point ID	Process Description	Annual Emissions with RE (tons / year)								Daily Emissions with RE (lbs/ day)		
		VOC	NOx	CO	PM10	PM2.5	NH3	SO2	Lead	VOC	NOx	CO

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TABLE 4

DETAIL LISTING OF 2011 CONNECTICUT POINT SOURCE INVENTORY

E2	Parts Washer	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0
P3	HISPANO SUIZA #1203 TURBINE	0.0	0.8	0.3	0.0	0.0	0.0	0.0	0.00000	0	0	0
P11	LNG VAPORIZER 24-30-N	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0
P15	LNG VAPORIZER 24-30-S	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0
P77	LNG VAPORIZER 36-48-E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0
R5	WHITE NG RECIP ENG 6G-825	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0
R32	SOLAR TURBINE GS-350 #1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.00000	0	1	0
R34	SOLAR TURBINE GS-350 #2	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.00000	0	1	0

Site Information:

Site Name: HAMILTON SUNDSTRAND CORP EIS ID : 753011 CT ID: 213-2 SIC Code: 3728
 Address : 1 HAMILTON RD, WINDSOR LOCKS, CT Latitude: 41.923816 Longitude: -72.69051
 County : HARTFORD Ozone Status Area : Greater Connecticut Area PM2.5 Status Area: PM2.5 Attainment Area

2011 Information:

Point ID	Process Description	Annual Emissions with RE (tons / year)								Daily Emissions with RE (lbs/ day)		
		VOC	NOx	CO	PM10	PM2.5	NH3	SO2	Lead	VOC	NOx	CO
E1	STAHL AIR HEATER F26A 'F'	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	4	2
P39	CUMMINS 200KW DIESEL	0.0	0.4	0.1	0.0	0.0	0.0	0.0	0.00000	0	0	0
P43	ALUMINUM COATING PROCESS	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	3	0	0
P44	4 SPRAY BOOTHS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0
P47	ENGINE TEST CELL E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0
P58	1A EMERGENCY GEN 500KW	0.1	1.0	0.2	0.1	0.1	0.0	0.1	0.00000	0	0	0
P85	BINKS SPRAY BOOTH #1/ELEC OVEN	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	1	0	0
P86	BINKS SPRAY BOOTH #2/ELEC OVEN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0
P110	BINKS SPRAY BOOTH	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	1	0	0
P115	Cogeneration Facility P115	0.3	3.3	2.6	2.4	2.4	2.5	0.1	0.00001	2	22	17

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TABLE 4

DETAIL LISTING OF 2011 CONNECTICUT POINT SOURCE INVENTORY

R52	BLR RILEY #1	0.2	4.0	2.3	0.2	0.2	0.1	0.0	0.00001	1	26	15
R53	BLR RILEY #2	0.1	1.8	1.0	0.1	0.1	0.0	0.0	0.00001	0	10	6
R54	BLR RILEY #3	0.1	2.5	1.9	0.2	0.2	0.1	0.0	0.00001	1	19	14
R59	BLR CB 760-500, B3 #2	0.0	0.3	0.3	0.0	0.0	0.0	0.0	0.00000	0	0	0
R60	BLR CB 760-500, B3 #1	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.00000	0	0	0
R94	JET ENG, TEST CELL D	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0
R97	JET ENG,HLTP ALLISON	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0
U5	THINNING SOLVENTS: ISOPROPYL A	12.6	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	68	0	0
U6	THINNING SOLVENTS: METHYL ALCO	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0
U7	THINNING SOLVENTS: MEK	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0
U8	THINNING SOLVENTS: MINERAL SPI	12.3	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	67	0	0
U9	THINNING SOLVENTS: TOLUENE	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	1	0	0
U10	UNREG MISC VOC EVAP	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	2	0	0

Site Information:

Site Name: JACOBS VEHICLE SYSTEMS, INC EIS ID : 533311 CT ID: 11-6 SIC Code: 3714
 Address : 22 E DUDLEY TOWN RD, BLOOMFIELD, CT Latitude: 41.851965 Longitude: -72.700325
 County : HARTFORD Ozone Status Area : Greater Connecticut Area PM2.5 Status Area: PM2.5 Attainment Area

2011 Information:

Point ID	Process Description	Annual Emissions with RE (tons / year)							Daily Emissions with RE (lbs/ day)			
		VOC	NO _x	CO	PM10	PM2.5	NH3	SO2	Lead	VOC	NO _x	CO
E1	ENGINEERING LAB (IC ENGINES)	0.8	7.9	3.5	0.2	0.2	0.0	0.0	0.00000	4	54	20
E2	BLR JOHNSTON PFTA-400-4HG 150	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0
E3	CLEAVER BROOKS LOW EMIT #1 BLR	0.1	0.2	0.1	0.0	0.0	0.0	0.0	0.00000	0	1	0
E4	CLEAVER BROOK LOW EMIT #2 BLR	0.1	0.3	0.3	0.1	0.1	0.0	0.0	0.00000	0	0	0
E5	UNREG OT VAPOR DEG: MC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0

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TABLE 4

DETAIL LISTING OF 2011 CONNECTICUT POINT SOURCE INVENTORY

P121	HFB SPRAY BOOTH EHRO BT 816461	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0
P122	SPEC. COAT SPRAY BOOTH 541784	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0
P124	SPEC. COAT SPRAY BOOTH 244095	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0
P132	HVOF PLASMA SPRAY BOOTH 542073	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0
P133	CANMC STC PB 02 SPRAY BOOTH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0
R19	X7 INLET AIR HEATER	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	5	5
R20	X8 INLET AIR HEATER	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0
R39	BLR UNION WT-VO #6	0.5	36.0	8.2	0.9	0.8	0.3	1.7	0.00008	8	543	127
R41	BLR UNION WT-VO #8	0.3	16.7	4.9	0.6	0.6	0.2	1.8	0.00006	1	32	10
R42	BLR UNION WT-VO #9	1.3	64.4	20.0	1.8	1.8	0.8	0.4	0.00012	7	354	110
U4	THIN SOLV: IPA PMC 9094	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	20	0	0
U14	SPRAY GUN CLEANING PMC 9060	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0

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Site Information:

Site Name: STANLEY TOOLS DIV EIS ID : 918811 CT ID: 110-282 SIC Code: 3423
 Address : 600 MYRTLE ST, NEW BRITAIN, CT Latitude: 41.666558 Longitude: -72.798224
 County : HARTFORD Ozone Status Area : Greater Connecticut Area PM2.5 Status Area: PM2.5 Attainment Area

2011 Information:

Point ID	Process Description	Annual Emissions with RE (tons / year)								Daily Emissions with RE (lbs/ day)		
		VOC	NOx	CO	PM10	PM2.5	NH3	SO2	Lead	VOC	NOx	CO
E1	BLR IBW BF350C-W12 #1	0.0	0.5	0.4	0.0	0.0	0.0	0.1	0.00000	0	0	0
E2	BLR IBW BF350C-W12 #2	0.0	0.4	0.3	0.0	0.0	0.0	0.0	0.00000	0	0	0
E3	ADHESIVE CLEANING TANK	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0
E6	OFF-SET PRINTERS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0
E7	4 MTL COIL LAMINATORS/GAS OVEN	0.0	0.3	0.3	0.0	0.0	0.0	0.0	0.00000	0	3	2
E8	BEAD BLASTER	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0

TABLE 4

DETAIL LISTING OF 2011 CONNECTICUT POINT SOURCE INVENTORY

P47	ULTRAKOOL VAPOR DEGREASER	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0
U2	OPEN-TOP VAPOR DEGREASING: MC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0

Site Information:

Site Name: Albea Metal Americas Inc. EIS ID : 587911 CT ID: 200-26 SIC Code: 3469
 Address : 1 Seemar Road, WATERTOWN, CT Latitude: 41.614114 Longitude: -73.088047
 County : LITCHFIELD Ozone Status Area : Greater Connecticut Area PM2.5 Status Area: PM2.5 Attainment Area

2011 Information:

Point ID	Process Description	Annual Emissions with RE (tons / year)								Daily Emissions with RE (lbs/ day)		
		VOC	NOx	CO	PM10	PM2.5	NH3	SO2	Lead	VOC	NOx	CO
E1	CB BOILER	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.00000	0	1	0
E2	HEATERS	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0
P14	ACE 230TLG BURNOFF OVEN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0
P15	SPRAYLINE 1,2,3	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.00000	0	1	0
U1	CONVEYORIZED VAPOR DEGREAS:TRI	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0

Site Information:

Site Name: BRAXTON MFG CO INC EIS ID : 2711411 CT ID: 200-52 SIC Code: 3965
 Address : ECHO LAKE RD, WATERTOWN, CT Latitude: 41.605952 Longitude: -73.084688
 County : LITCHFIELD Ozone Status Area : Greater Connecticut Area PM2.5 Status Area: PM2.5 Attainment Area

2011 Information:

Point ID	Process Description	Annual Emissions with RE (tons / year)								Daily Emissions with RE (lbs/ day)		
		VOC	NOx	CO	PM10	PM2.5	NH3	SO2	Lead	VOC	NOx	CO
P73	Ultra-Kool Cold Trap Plus Batch Vapor Degreaser	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	22	0	0

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TABLE 4

DETAIL LISTING OF 2011 CONNECTICUT POINT SOURCE INVENTORY

E14	EFFLUENT TREATMENT PLANT - CHEMICALS USED	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	15	0	0
E15	EMERGENCY GENERATOR #1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0
E16	EMERGENCY GENERATOR #2	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0
E17	EMERGENCY GENERATOR FOR FIRE PROTECTION WATER BED	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0
P14	TISSUE MACHINE #2 HOOD BURNERS	0.6	0.6	4.7	0.3	0.3	0.0	0.0	0.00002	3	3	19
P26	TISSUE MACHINE #1 HOOD BURNERS	0.9	0.9	6.5	0.4	0.4	0.0	0.0	0.00002	5	5	35
P29	TISSUE MACHINES #1 AND #2, PROCESS	4.8	0.0	0.0	6.8	6.8	0.0	0.0	0.00000	26	0	0
P33	OFF-LINE PRINTER/WINDER #1	2.7	0.0	0.0	0.2	0.2	0.0	0.0	0.00000	15	0	0
P70	COMBUSTION TURBINE #1 W/SUPP BURNER	0.6	6.2	3.7	5.8	5.8	4.5	0.9	0.00000	3	34	21
P71	COMBUSTION TURBINE #2	0.6	33.7	3.4	5.0	5.0	0.0	0.9	0.00000	3	181	18
R19	BOILER #3	0.1	1.9	0.8	0.1	0.1	0.0	0.0	0.00000	0	1	0
U1	COLD CLEANER MAINTENANCE PARTS WASHERS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0
U2	TOWEL PRINTER/WINDER	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0

Site Information:

Site Name: QUALITY ROLLING & DEBURRING EIS ID : 589811 CT ID: 180-2 SIC Code: 3471
 Address : 135 S MAIN ST, THOMASTON, CT Latitude: 41.667046 Longitude: -73.07567
 County : LITCHFIELD Ozone Status Area : Greater Connecticut Area PM2.5 Status Area: PM2.5 Attainment Area

2011 Information:

Point ID	Process Description	Annual Emissions with RE (tons / year)							Daily Emissions with RE (lbs/ day)			
		VOC	NOx	CO	PM10	PM2.5	NH3	SO2	Lead	VOC	NOx	CO
E1	8 Gallon Coating Dip Tank	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	2	0	0

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TABLE 4

DETAIL LISTING OF 2011 CONNECTICUT POINT SOURCE INVENTORY

Site Information:

Site Name: WASTE MANAGEMENT OF CT INC EIS ID : 2673811 CT ID: 130-67 SIC Code: 4953
 Address : 182-2 DANBURY RD, NEW MILFORD, CT Latitude: 41.550854 Longitude: -73.430431
 County : LITCHFIELD Ozone Status Area : Greater Connecticut Area PM2.5 Status Area: PM2.5 Attainment Area

2011 Information:

Point ID	Process Description	Annual Emissions with RE (tons / year)								Daily Emissions with RE (lbs/ day)		
		VOC	NOx	CO	PM10	PM2.5	NH3	SO2	Lead	VOC	NOx	CO
P21	MCGILL BFT-1650 FLARE	0.0	0.5	1.2	0.0	0.0	0.0	0.1	0.00000	0	2	5
P64	CAT #G3516 ENGINE 1	0.3	10.7	17.4	0.3	0.3	0.0	0.8	0.00000	1	51	83
P68	CAT #G3516 ENGINE 2	0.2	11.4	17.6	0.3	0.3	0.0	0.8	0.00000	1	69	107
P69	CAT #G3516 ENGINE 3	0.2	5.1	8.9	0.2	0.2	0.0	0.4	0.00000	1	27	47

Site Information:

Site Name: ALGONQUIN GAS TRANSMISSION EIS ID : 2706711 CT ID: 43-5 SIC Code: 4922
 Address : 252 SHUNPIKE ROAD, CROMWELL, CT Latitude: 41.631669 Longitude: -72.673363
 County : MIDDLESEX Ozone Status Area : CT-NY-NJ CSA PM2.5 Status Area: PM2.5 Attainment Area

2011 Information:

Point ID	Process Description	Annual Emissions with RE (tons / year)								Daily Emissions with RE (lbs/ day)		
		VOC	NOx	CO	PM10	PM2.5	NH3	SO2	Lead	VOC	NOx	CO
E1	KEWANEE SCOTCH BOILER	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0
E2	410 HPLER01 L-3000 EMER GEN	0.0	1.0	1.6	0.0	0.0	0.0	0.0	0.00000	3	226	370
E3	410 HP LER01 L-3000 EMER GEN	0.0	1.0	1.6	0.0	0.0	0.0	0.0	0.00000	3	226	370
P5	SOLAR T-4700 TURBINE	0.9	23.9	1.4	0.9	0.9	0.0	0.5	0.00000	8	200	12
P6	SOLAR T-4700 TURBINE	0.9	23.3	1.0	0.9	0.9	0.0	0.5	0.00000	7	175	8
R11	C-B GAS COMPRESSOR 44688	5.5	84.0	13.9	2.2	2.2	0.0	0.0	0.00000	36	556	92
R12	C-B GAS COMPRESSOR 44687	4.0	63.9	6.0	1.9	1.9	0.0	0.0	0.00000	36	568	53
R13	C-B GAS COMPRESSOR 44843	2.4	39.0	6.3	1.8	1.8	0.0	0.0	0.00000	24	389	63
R14	C-B GAS COMPRESSOR 44844	0.6	17.1	2.4	0.5	0.5	0.0	0.0	0.00000	20	626	88

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TABLE 4

DETAIL LISTING OF 2011 CONNECTICUT POINT SOURCE INVENTORY

Site Information:

Site Name: KLEEN ENERGY SYSTEM PROJECT EIS ID : 14622911 CT ID: 104-246 SIC Code: 4911
 Address : 1349 RIVER ROAD, MIDDLETOWN, CT Latitude: 41.552666 Longitude: -72.598265
 County : MIDDLESEX Ozone Status Area : CT-NY-NJ CSA PM2.5 Status Area: PM2.5 Attainment Area

2011 Information:

Point ID	Process Description	Annual Emissions with RE (tons / year)								Daily Emissions with RE (lbs/ day)		
		VOC	NOx	CO	PM10	PM2.5	NH3	SO2	Lead	VOC	NOx	CO
P131	SIEMENS SGT6-5000F TURBINE #1	0.4	19.0	5.3	13.7	0.0	0.9	1.6	0.00000	4	266	28
P133	SIEMENS SGT6-5000F TURBINE #2	0.7	18.3	6.5	12.2	0.0	2.1	1.6	0.00000	8	273	118
P134	73.5 MMBTU/HR AUX BOILER	0.1	1.7	2.7	0.2	0.2	0.0	0.1	0.00002	1	12	19

Site Information:

Site Name: MIDDLETOWN POWER LLC EIS ID : 715711 CT ID: 104-24 SIC Code: 4911
 Address : 1866 RIVER RD, MIDDLETOWN, CT Latitude: 41.553859 Longitude: -72.569445
 County : MIDDLESEX Ozone Status Area : CT-NY-NJ CSA PM2.5 Status Area: PM2.5 Attainment Area

2011 Information:

Point ID	Process Description	Annual Emissions with RE (tons / year)								Daily Emissions with RE (lbs/ day)		
		VOC	NOx	CO	PM10	PM2.5	NH3	SO2	Lead	VOC	NOx	CO
E1	CB BOILER (GLYCOL) #1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	3	3
E2	CB BOILER (GLYCOL) #2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	1	20	17
P2	Unit 4A (EU-4) Aux Boiler	0.3	6.3	5.3	0.5	0.5	0.2	0.0	0.00003	3	60	50
P3	BLR C.E. #4	0.9	36.4	4.1	4.6	3.7	0.7	53.3	0.00123	103	3,122	481
P144	GE LM6000 Turbine 50 MW - Unit 12	0.0	0.8	0.8	0.0	0.0	0.0	0.0	0.00034	2	321	54
P145	GE LM6000 Turbine 50 MW - Unit 13	0.0	0.7	0.6	0.0	0.0	0.0	0.0	0.00026	2	297	54
P146	GE LM6000 Turbine 50 MW - Unit 14	0.0	0.8	0.7	0.0	0.0	0.0	0.0	0.00037	1	417	7
P147	GE LM6000 Turbine 50 MW - Unit 15	0.0	1.0	0.9	0.0	0.0	0.0	0.0	0.00029	1	255	4
R98	BLR RILEY #2	3.5	38.2	51.6	0.8	0.8	0.2	10.6	0.00056	47	1,468	584
R100	BLR B&W (CY) #3	1.4	57.8	20.6	1.6	1.6	0.2	7.4	0.00033	104	4,153	1,515

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TABLE 4

DETAIL LISTING OF 2011 CONNECTICUT POINT SOURCE INVENTORY

R102 P&W FT4A-8 TURBINE 0.0 1.0 0.0 0.0 0.0 0.0 0.0 0.0 0.00002 1 197 1

Site Information:

Site Name: PRATT & WHITNEY DIV UTC EIS ID : 920511 CT ID: 104-7 SIC Code: 3724
 Address : AIRCRAFT RD, MIDDLETOWN, CT Latitude: 41.539257 Longitude: -72.560402
 County : MIDDLESEX Ozone Status Area : CT-NY-NJ CSA PM2.5 Status Area: PM2.5 Attainment Area

2011 Information:

Point ID	Process Description	Annual Emissions with RE (tons / year)								Daily Emissions with RE (lbs/ day)		
		VOC	NOx	CO	PM10	PM2.5	NH3	SO2	Lead	VOC	NOx	CO
E1	KOHLER DIESEL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	1	0
E136	TEST CELL NO. P-1	1.2	23.9	8.8	1.1	1.1	0.0	4.2	0.00000	11	225	83
E137	TEST CELL NO. P-2	0.9	16.8	6.2	0.9	0.9	0.0	1.9	0.00000	8	159	59
E138	TEST CELL NO. P-3	0.1	14.7	3.2	2.4	2.4	0.0	1.0	0.00000	2	158	37
E139	TEST CELL NO. P-4	0.1	10.5	2.2	1.7	1.7	0.0	0.7	0.00000	1	200	36
E140	TEST CELL NO. P-5	0.2	14.1	3.5	2.5	2.5	0.0	1.1	0.00000	1	183	36
E141	TEST CELL NO. P-6	0.6	16.8	5.1	2.0	2.0	0.0	1.2	0.00000	3	194	48
E142	TEST CELL NO. P-7	1.3	64.1	10.8	1.8	1.8	0.0	2.2	0.00000	17	842	148
E143	TEST CELL NO. P-8	0.9	66.7	8.8	1.2	1.2	0.0	2.2	0.00000	7	765	75
P5	INDIRECT AIR HEATER (NVA #1)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0
P27	FT-4 TURBINE DRIVE ENG X960	0.1	10.3	1.1	1.4	1.4	0.0	1.5	0.00088	0	0	0
P28	INLET AIR HEATER X960 #2	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0
P29	INLET AIR HEATER X960 #3	0.0	0.1	0.0	0.0	0.0	0.0	0.1	0.00001	0	0	0
P30	COMB TEST RIG X960	0.2	1.7	0.3	0.0	0.0	0.0	0.2	0.00011	0	0	0
P36	BLR CB-D68 #4	0.0	0.2	0.1	0.0	0.0	0.0	0.0	0.00002	0	2	1
P62	GG-8 GAS TURBINE ENGINE	0.1	3.0	0.4	0.3	0.3	0.0	0.7	0.00017	4	81	11
P73	BINKS WW SPRAY BOOTH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00068	0	0	0

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TABLE 4

DETAIL LISTING OF 2011 CONNECTICUT POINT SOURCE INVENTORY

P77	CUMMINS DIESEL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	1	0
P78	ONAN DIESEL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	1	0
P80	CUMMINS DIESEL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0
P126	ATR paint spray booth (BT541944)	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	1	0	0
P139	ATR paint spray booth (BT542361)	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.00008	0	0	0
P140	RENTECH O-TYPE BOILER	0.1	0.7	0.8	0.2	0.2	0.1	0.0	0.00001	1	4	4
P141	RENTECH O-TYPE BOILER	0.2	1.1	1.1	0.2	0.2	0.1	0.0	0.00002	1	8	8
P142	SOLAR TAURUS 70 GAS TURBINE	0.6	3.1	37.6	1.9	1.9	1.8	0.2	0.00000	4	19	237
R34	TEST BURNER I904	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0
U2	MISC METAL PARTS COATINGS	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	2	0	0
U5	THIN SOLV: MEK	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	3	0	0
U6	THIN SOLV: MISC	5.3	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	28	0	0

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Site Information:

Site Name: ALLEGHENY LUDLUM CORP EIS ID : 657911
 Address : 80 VALLEY ST, WALLINGFORD, CT
 County : NEW HAVEN Ozone Status Area : CT-NY-NJ CSA

CT ID: 189-5 SIC Code: 3316
 Latitude: 41.448454 Longitude: -72.837938
 PM2.5 Status Area: CT-NY-NJ PM2.5 Nonattainment Area

2011 Information:

Point ID	Process Description	Annual Emissions with RE (tons / year)								Daily Emissions with RE (lbs/ day)		
		VOC	NOx	CO	PM10	PM2.5	NH3	SO2	Lead	VOC	NOx	CO
E1	NO. 30 BRIGHT ANNEAL LINE - ACID PASSIVATING	0.0	0.0	0.0	1.9	1.9	0.0	0.0	0.00000	0	0	0
E2	NO. 31 BRIGHT ANNEAL LINE - ACID PASSIVATING	0.0	0.0	0.0	1.6	1.6	0.0	0.0	0.00000	0	0	0
E4	ZR 25 ROLLING MILL	0.0	0.0	0.0	1.7	1.1	0.0	0.0	0.00000	0	0	0
E5	ZR 26 ROLLING MILL	0.0	0.0	0.0	0.5	0.3	0.0	0.0	0.00000	0	0	0
P36	JOHNSTON BOILER #1	0.1	1.9	0.8	0.1	0.1	0.0	0.0	0.00001	0	8	3
P137	JOHNSTON BOILER #2	0.1	3.1	1.3	0.1	0.1	0.0	0.0	0.00001	0	11	4

TABLE 4

DETAIL LISTING OF 2011 CONNECTICUT POINT SOURCE INVENTORY

Point ID	Process Description	VOC	NOx	CO	PM10	PM2.5	NH3	SO2	Lead	Daily VOC	Daily NOx	Daily CO
P138	JOHNSTON BOILER #3	0.0	1.6	0.6	0.1	0.1	0.0	0.0	0.00000	0	2	1
R14	NO. 12 ANNEAL & PICKLE LINE - ESS DESCALING	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0
R15	NO. 12 ANNEAL & PICKLE LINE - ACID PICKLING	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0
R16	NO. 12 ANNEAL & PICKLE LINE - FURNACE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0
R26	NO. 30 BRIGHT ANNEAL LINE - FURNACE	0.1	2.9	1.5	0.1	0.1	0.1	0.0	0.00001	0	13	7
U4	SOLVENT -MISC USAGE	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	4	0	0

Site Information:

Site Name: AMETEK SPECIALTY METAL EIS ID : 2711211 CT ID: 189-76 SIC Code: 3356
 Address : 21 TOELLES RD, WALLINGFORD, CT Latitude: 41.428697 Longitude: -72.840988
 County : NEW HAVEN Ozone Status Area : CT-NY-NJ CSA PM2.5 Status Area: CT-NY-NJ PM2.5 Nonattainment Area

2011 Information:

Point ID	Process Description	Annual Emissions with RE (tons / year)							Daily Emissions with RE (lbs/ day)			
		VOC	NOx	CO	PM10	PM2.5	NH3	SO2	Lead	VOC	NOx	CO
E13	COMPACT MILL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0
E17	10 CUFT BLENDER- GEU1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0
E18	30 CUFT BLENDER- GEU1	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.00000	0	0	0
E19	NX 1000 GRINDER #301	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0
E20	POWDER SCREEN(SWECO WRHSE AREA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0
E21	SINTER FURNACE #1 NX- GEU2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0
E22	SWECO SCREEN #1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0
E23	SWECO SCREEN #2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0
E24	24"" SWECO SCREEN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0
E29	GRINDER ROTARY FINE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0
E30	SINTER FURNACE (ANNEAL & CRUSH- GEU2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0
E31	SWECO SCREEN #3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0

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TABLE 4

DETAIL LISTING OF 2011 CONNECTICUT POINT SOURCE INVENTORY

E32	60" SWECO SCREEN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0
E39	VAUGHGN WIRE DRAWING MACHINE 553-1- GEU3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0
E41	SLITTER #1- GEU5	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	12	0	0
E44	VAUGHGN WIRE DRAWING MACHINE 552- GEU3	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.00000	0	0	0
E45	SLITTER #2- GEU5	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	20	0	0
E46	SLITTER #12- GEU5	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	8	0	0
P217	BARON BLAKESLEE DEGREASER-GEU4	6.5	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	70	0	0
P218	DREVER FURNACE IN-LINE DEGRSR- GEU4	7.7	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	66	0	0

Site Information:

Site Name: BRISTOL-MYERS SQUIBB CO EIS ID : 14624111 CT ID: 189-197 SIC Code: 2834
 Address : 5 RESEARCH PARKWAY, WALLINGFORD, CT Latitude: 41.482018 Longitude: -72.756577
 County : NEW HAVEN Ozone Status Area : CT-NY-NJ CSA PM2.5 Status Area: CT-NY-NJ PM2.5 Nonattainment Area

2011 Information:

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Point ID	Process Description	Annual Emissions with RE (tons / year)							Daily Emissions with RE (lbs/ day)			
		VOC	NOx	CO	PM10	PM2.5	NH3	SO2	Lead	VOC	NOx	CO
E1	FORNEY DUCT BURNR HEAT RECOVERY	0.0	0.7	0.0	0.2	0.2	0.1	0.0	0.00001	0	2	0
P56	BLR CB-DL-68 #1	0.0	0.3	0.2	0.0	0.0	0.0	0.0	0.00000	0	6	5
P57	BLR CB-D-60 #2	0.0	0.2	0.2	0.0	0.0	0.0	0.0	0.00000	0	1	1
P58	ECP 1000 TES INCIN	0.0	0.8	0.4	0.1	0.1	0.0	0.1	0.00040	0	5	4
P60	BLR SUPERIOR W4-613 #3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0
P64	WAUKESHA VHP-5900 DIESEL #1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0
P73	WAUKESHA VHP-5900 DIESEL #2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	2	0
P167	4.75 MW SOLAR TAURUS MODEL	0.1	11.4	3.1	1.4	1.4	0.0	0.1	0.00000	1	50	2
P205	CUMMINS MODELQSK60-G6 GENERATOR	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	12	2
U1	MISC VOC EVAP	23.2	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	107	0	0

TABLE 4

DETAIL LISTING OF 2011 CONNECTICUT POINT SOURCE INVENTORY

U2 THINNING SOLVENTS: METHYLENE C 3.2 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.00000 18 0 0

Site Information:

Site Name: COVANTA PROJECTS OF EIS ID : 589911 CT ID: 189-178 SIC Code: 4953
 Address : 530 S CHERRY ST, WALLINGFORD, CT Latitude: 41.438485 Longitude: -72.834679
 County : NEW HAVEN Ozone Status Area : CT-NY-NJ CSA PM2.5 Status Area: CT-NY-NJ PM2.5 Nonattainment Area

2011 Information:

Point ID	Process Description	Annual Emissions with RE (tons / year)								Daily Emissions with RE (lbs/ day)		
		VOC	NOx	CO	PM10	PM2.5	NH3	SO2	Lead	VOC	NOx	CO
P61	ENERCON INCIN #1	0.2	46.6	4.5	0.4	0.2	0.0	2.0	0.00080	1	254	21
P62	ENERCON INCIN #2	0.1	16.6	2.7	0.2	0.1	0.0	0.9	0.00018	0	77	11
P63	ENERCON INCIN #3	0.2	47.4	6.7	0.2	0.2	0.0	1.4	0.00077	1	266	23

Site Information:

Site Name: CYTEC INDUSTRIES INC EIS ID : 658111 CT ID: 189-27 SIC Code: 2821
 Address : S CHERRY & BALL STS, WALLINGFORD, CT Latitude: 41.434075 Longitude: -72.839613
 County : NEW HAVEN Ozone Status Area : CT-NY-NJ CSA PM2.5 Status Area: CT-NY-NJ PM2.5 Nonattainment Area

2011 Information:

Point ID	Process Description	Annual Emissions with RE (tons / year)								Daily Emissions with RE (lbs/ day)		
		VOC	NOx	CO	PM10	PM2.5	NH3	SO2	Lead	VOC	NOx	CO
E3	MIXED ALCOHOLS RECOVERY, B-5	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	2	0	0
E4	CS-MISC. EMERGENCY GENERATORS	0.0	0.1	0.2	0.0	0.0	0.0	0.0	0.00000	0	1	8
E7	RESINS COOLING TOWERS	0.0	0.0	0.0	5.1	5.1	0.0	0.0	0.00000	0	0	0
E9	WELL #4 EMERG GENERATOR	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0
E10	LIME SILO WWTP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0
E11	ADIPIC ACID HOPPER, B-5B	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0
E12	KETTLE 150-1, B-5B	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0
E13	MIXING TANK 150-2, B-5B	0.2	0.0	0.0	0.0	0.0	0.1	0.0	0.00000	1	0	0
E14	FURNACE 608-1, B-5B	0.0	0.3	0.3	0.0	0.0	0.0	0.0	0.00000	0	1	1

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TABLE 4

DETAIL LISTING OF 2011 CONNECTICUT POINT SOURCE INVENTORY

E16	B. REACTOR 102-1, B-5B	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0
E17	METH/FORMALDEHYD RECOVERY, B-6	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	2	0	0
E18	REACTOR TRAINS 103, 104, 106	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	3	0	0
E20	BLEND TANK 106-08	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0
E22	BLEND TANK 106-11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0
E26	UNDRGRND STORAGE TANKS 551 553	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0
E27	UNDRGRND STORAGE TANKS 511 512	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	1	0	0
E28	UST (T-561)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0
E31	200 Reactor Hot Oil Furnace	0.0	0.4	0.3	0.0	0.0	0.0	0.0	0.00000	0	2	1
E32	MONMACT RTO	0.0	0.3	0.2	0.0	0.0	0.0	0.0	0.00000	0	1	1
E33	REACTOR TRAIN 200	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	1	0	0
P75	KOHLER 1500ROZD DIESEL	0.0	0.5	0.1	0.0	0.0	0.0	0.0	0.00000	0	10	2
P189	EMERG AIR COMPRESSOR ENGINE B2	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.00000	0	1	0
R108	BLR MURRAY #1	0.3	3.9	4.5	0.4	0.4	0.2	0.0	0.00003	1	10	12
R110	BLR RILEY #3	0.8	22.7	12.4	1.1	1.1	0.5	0.1	0.00007	4	132	63
R150	REACTOR TRAINS 101,102,120,150	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	9	0	0
R182	REACTOR TRAINS 61/62 & 65/68	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	2	0	0
R201	REACTOR TRAIN 104-34	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0
U1	ABOVE GROUND TANKS 502 & 503	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0
U7	RESINS MISC, STORAGE TANKS	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	1	0	0
U8	RESINS MISC, FUGITIVES	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	22	0	0
U9	CS-WWTP	62.5	0.0	0.0	0.0	0.0	0.6	0.0	0.00000	308	0	0
U10	CS-LANDFILL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0
U11	CS-MISC. TKS.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0

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TABLE 4

DETAIL LISTING OF 2011 CONNECTICUT POINT SOURCE INVENTORY

U12 CS-FUGITIVES 0.2 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.00000 1 0 0

Site Information:

Site Name: DEVON POWER, LLC EIS ID : 590011 CT ID: 105-14 SIC Code: 4911
 Address : NAUGATUCK AVE, MILFORD, CT Latitude: 41.209171 Longitude: -73.107871
 County : NEW HAVEN Ozone Status Area : CT-NY-NJ CSA PM2.5 Status Area: CT-NY-NJ PM2.5 Nonattainment Area

2011 Information:

Point ID	Process Description	Annual Emissions with RE (tons / year)								Daily Emissions with RE (lbs/ day)		
		VOC	NOx	CO	PM10	PM2.5	NH3	SO2	Lead	VOC	NOx	CO
P26	P&W FT4A-8 TURBINE #10	0.0	1.2	0.0	0.0	0.0	0.0	0.1	0.00002	1	974	5
P40	GE LM6000 TURBINE #11	0.0	1.0	0.2	0.1	0.1	0.0	0.0	0.00009	7	240	26
P41	GE LM6000 TURBINE #12	0.0	0.9	0.1	0.1	0.1	0.0	0.0	0.00007	11	404	41
P42	GE LM6000 TURBINE #13	0.0	1.0	0.2	0.1	0.1	0.0	0.0	0.00008	5	188	20
P43	GE LM6000 TURBINE #14	0.0	1.3	0.2	0.1	0.1	0.0	0.0	0.00010	3	136	13
P98	GE LM6000PC TURBINE #15	0.0	0.4	0.0	0.4	0.4	0.1	0.0	0.00032	3	31	0
P99	GE LM6000PC TURBINE #16	0.0	0.3	0.0	0.2	0.2	0.1	0.0	0.00030	3	30	0
P100	GE LM6000PC TURBINE #17	0.0	0.3	0.0	0.4	0.4	0.1	0.0	0.00028	3	27	0
P101	GE LM6000PC TURBINE #18	0.0	0.5	0.0	0.2	0.2	0.1	0.0	0.00025	4	45	0

Site Information:

Site Name: EVONIK CYRO LLC EIS ID : 15588611 CT ID: 189-27 SIC Code: 2821
 Address : 600 SOUTH CHERRY STREET, WALLINGFORD, CT Latitude: 41.434075 Longitude: -72.839613
 County : NEW HAVEN Ozone Status Area : CT-NY-NJ CSA PM2.5 Status Area: CT-NY-NJ PM2.5 Nonattainment Area

2011 Information:

Point ID	Process Description	Annual Emissions with RE (tons / year)								Daily Emissions with RE (lbs/ day)		
		VOC	NOx	CO	PM10	PM2.5	NH3	SO2	Lead	VOC	NOx	CO
E2	FURNACE #3,B-10	0.0	0.4	0.3	0.0	0.0	0.0	0.0	0.00000	0	0	0
E5	FLUID BED OVEN #1(B45),#2(B22)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	1	0
E29	RE 400 KETTLE,B-10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0

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TABLE 4
DETAIL LISTING OF 2011 CONNECTICUT POINT SOURCE INVENTORY

E30	RE 402B KETTLE,B-10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0
P11	EXTRUDER EX-102, B-10	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	9	0	0
P82	ONAN EMERGEN GEN 275DFBF	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0
P97	UNDERGROUND STORAGE TANK T-951	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0
P98	UST-950, UST-952	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0
R213	EXTRUDER EX-302, B-10	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	9	0	0
R214	EXTRUDER EX-402, B-10	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	9	0	0
R221	RE 100 KETTLE,B-10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0
R222	RE 300 KETTLE,B-10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0
R223	RE 102B KETTLE,B-10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0
R224	RE 302B KETTLE,B-10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0
R233	TA802 SOLV REC TKB10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0
R246	EXTRUDER 1008/7, B-10A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0
U4	FUGITIVES,B-10	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	8	0	0
U5	Grouped Emitting Unit (GEU-01)	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	15	0	0
U6	MISC,B-10A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0

Site Information:

Site Name: GULF OIL L.P. EIS ID : 918711 CT ID: 117-88 SIC Code: 5171
 Address : 428-500 WATERFRONT ST, NEW HAVEN, CT Latitude: 41.035503 Longitude: -73.558132
 County : NEW HAVEN Ozone Status Area : CT-NY-NJ CSA PM2.5 Status Area: CT-NY-NJ PM2.5 Nonattainment Area

2011 Information:

Point ID	Process Description	Annual Emissions with RE (tons / year)								Daily Emissions with RE (lbs/ day)		
		VOC	NOx	CO	PM10	PM2.5	NH3	SO2	Lead	VOC	NOx	CO
E1	TANK #110 - ETHANOL	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	10	0	0
P241	TRUCK LOAD RACK - GAS	19.3	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	107	0	0

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TABLE 4

DETAIL LISTING OF 2011 CONNECTICUT POINT SOURCE INVENTORY

P243	TANK #113 - NL GAS	6.1	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	34	0	0
P352	STORAGE TANK #112	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0
P353	STORAGE TANK #114	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	4	0	0
R298	TANK #101 - NL GAS	5.4	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	25	0	0
R301	TANK #103 - SNL GAS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0
R307	TANK #108 - SNL GAS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0
R309	TANK #109 - SNL GAS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0
R312	TANK #111 - NL GAS	7.2	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	46	0	0
R317	TANK #115 - ETHANOL	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	1	0	0

Site Information:

Site Name: MAGELLAN TERMINALS EIS ID : 843211 CT ID: 117-519 SIC Code: 4226
 Address : 280 WATERFRONT ST, NEW HAVEN, CT Latitude: 41.291137 Longitude: -72.902853
 County : NEW HAVEN Ozone Status Area : CT-NY-NJ CSA PM2.5 Status Area: CT-NY-NJ PM2.5 Nonattainment Area

2011 Information:

Point ID	Process Description	Annual Emissions with RE (tons / year)							Daily Emissions with RE (lbs/ day)			
		VOC	NOx	CO	PM10	PM2.5	NH3	SO2	Lead	VOC	NOx	CO
E1	TRUCK LOAD RACK - DISTILLATE	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	34	0	0
E2	TANK #208 -DISTILLATE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0
E3	TANK #213-DISTILLATE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0
E4	TANK #216-DISTILLATE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0
E5	PRODUCT DISTRIBUTION SYSTEM	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	2	0	0
E5	TANK #217-DISTILLATE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0
E6	TANK #1A -FUEL OIL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0
E7	Tank # 30 - Distillate	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0
E8	Tank # 31 - Distillate/Gasoline	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	32	0	0

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TABLE 4

DETAIL LISTING OF 2011 CONNECTICUT POINT SOURCE INVENTORY

E9	Tank # 32 - Distillate/Gasoline	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	47	0	0
E10	Equipment Fugitives - Product Distribution System	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	2	0	0
E11	BOILER	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0
E13	Barge Dock Distillate Loading	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0
E16	Tank # 218	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	14	0	0
P46	Tank # 20 - Gasoline	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	14	0	0
P125	Tank # 22 - Gasoline	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	9	0	0
P154	Tank # 29 - Ethanol	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	2	0	0
P167	Tank # 21 - Gasoline	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	37	0	0
P363	Gasoline, Ethanol, & Distillate Loading Rack w. VCU	1.7	4.6	11.5	0.0	0.0	0.0	0.0	0.00000	11	21	52
P625	Tank # 24 - Ethanol	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	4	0	0
P627	Tank # 27 - Gasoline	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	9	0	0
P628	Tank # 28 - Gasoline	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	20	0	0
R810	Tank # 202 - Gasoline	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	13	0	0
R811	Tank # 215 - Gasoline	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	22	0	0
R812	Tank # 209 - Gasoline	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	7	0	0
R813	Tank # 212 - Gasoline	4.6	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	22	0	0
R814	Tank # 210 - Gasoline	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	7	0	0
R815	TRUCK LOAD RACK GASLINE & ETHNL	24.4	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	198	0	0
R908	Tank # 23 - Gasoline	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	16	0	0
R979	Tank # 206 - Ethanol	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	2	0	0
R1005	Tank # 201 - Ethanol	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	4	0	0
R1006	Tank # 214 - Gasoline	5.9	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	22	0	0

TABLE 4

DETAIL LISTING OF 2011 CONNECTICUT POINT SOURCE INVENTORY

R199	TANK #30 - JP-8	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	1	0	0
R200	TANK #31 GAS	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	9	0	0
R201	TANK #32 GAS	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	1	0	0
R202	TANK #33 GAS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0
R203	TANK #38 - JET A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0
R204	TANK J1 DIESEL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0
R205	TANK J2 GAS	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	2	0	0
R206	TANK J3 GAS	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	2	0	0
U1	UNREG MISC VOC EVAPORATION	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	11	0	0

Site Information:

Site Name: NAUGATUCK POTW EIS ID : 898011 CT ID: 109-11 SIC Code: 4952
 Address : 500 CHERRY ST, NAUGATUCK, CT Latitude: 41.470333 Longitude: -73.053958
 County : NEW HAVEN Ozone Status Area : CT-NY-NJ CSA PM2.5 Status Area: CT-NY-NJ PM2.5 Nonattainment Area

2011 Information:

Point ID	Process Description	Annual Emissions with RE (tons / year)							Daily Emissions with RE (lbs/ day)			
		VOC	NOx	CO	PM10	PM2.5	NH3	SO2	Lead	VOC	NOx	CO
E1	UNDERGROUND STORAGE TANK	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0
P81	ZIMPRO FLUIDIZED BED SSI	0.2	10.0	0.7	2.4	2.4	0.0	6.1	0.00007	1	56	4

Site Information:

Site Name: NEW HAVEN TERMINAL, INC EIS ID : 555611 CT ID: 117-120 SIC Code: 4226
 Address : 100 WATERFRONT ST, NEW HAVEN, CT Latitude: 41.289381 Longitude: -72.905298
 County : NEW HAVEN Ozone Status Area : CT-NY-NJ CSA PM2.5 Status Area: CT-NY-NJ PM2.5 Nonattainment Area

2011 Information:

Point ID	Process Description	Annual Emissions with RE (tons / year)							Daily Emissions with RE (lbs/ day)			
		VOC	NOx	CO	PM10	PM2.5	NH3	SO2	Lead	VOC	NOx	CO
E1	BOILER #1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	7	5
E2	BOILER #2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0

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TABLE 4

DETAIL LISTING OF 2011 CONNECTICUT POINT SOURCE INVENTORY

E3	TANK #7E- EMPTY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0
E4	TRUC LOADING RACK- DISTI/CHEMIC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0
E5	TANK #16 -EMPTY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0
E6	TANK #30 -EMPTY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0
P1	TANK #114 - #2 OIL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0
R7	TANK #101 - #2 OIL	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	6	0	0
R8	TANK #102 - #2 OIL	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	3	0	0
R9	TANK #103 - #2 OIL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0
R10	TANK #104 - #2 OIL	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	7	0	0
R11	TANK #107 - #2 OIL	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	7	0	0
R12	TANK #108 - #2 OIL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0
R13	TANK #109 - #2 OIL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0
R14	TANK #110 - #2 OIL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0
R15	TANK #105 - #2 OIL	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	9	0	0
R16	TANK #106 - #2 OIL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0
R430	TANK #1 -#2 OIL	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	2	0	0
R431	TANK #2 - ULSD	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	3	0	0
R432	TANK #3 - # 2 OIL	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	1	0	0
R433	TANK #4 - ULSD	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	2	0	0
R434	TANK #6 - ULSD	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	2	0	0
R435	TANK #7 -EMPTY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0
R436	TANK #8 -EMPTY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0
R438	TANK #13 -ULSD	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	1	0	0
R439	TANK #14 -(EMPTY)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0

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TABLE 4

DETAIL LISTING OF 2011 CONNECTICUT POINT SOURCE INVENTORY

R440	TANK #15 -ULSD	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	1	0	0
R441	TANK #17 -EMPTY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0
R442	TANK #18- ULSD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0
R443	TANK #19- ULSD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0
R444	TANK #20 -ULSD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0
R445	TANK #21 - ULSD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0
R446	TANK #22 - ULSD	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	1	0	0
R447	TANK #23 - ULSD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0
R448	TANK #24 - ULSD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0
R449	TANK #25 - ULSD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0
R450	TANK #26 -EMPTY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0
R451	TANK #27 - ULSD	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	1	0	0
R452	TANK #28 -ULSD	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	1	0	0
R453	TANK #29 - ULSD	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	1	0	0
R454	TANK #1E -(EMPTY)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0
R455	TANK #2E -(EMPTY)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0
R456	TANK #3E -(EMPTY)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0
R457	TANK #4E -(EMPTY)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0
R458	TANK #5E -(EMPTY)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0
U1	TANK #111 - #2 OIL	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	7	0	0
U2	TANK #112 - #2 OIL	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	5	0	0
U3	TANK #113 - #2 OIL	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	5	0	0
U4	TANK #115 - #2 OIL	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	24	0	0

TABLE 4

DETAIL LISTING OF 2011 CONNECTICUT POINT SOURCE INVENTORY

Site Information:

Site Name: PIERCE GENERATING STATION EIS ID : 14624411 CT ID: 189-114 SIC Code: 4911
 Address : 195 EAST ST, PIERCE STATION, WALLINGFORD, CT Latitude: 41.44889 Longitude: -72.83472
 County : NEW HAVEN Ozone Status Area : CT-NY-NJ CSA PM2.5 Status Area: CT-NY-NJ PM2.5 Nonattainment Area

2011 Information:

Point ID	Process Description	Annual Emissions with RE (tons / year)								Daily Emissions with RE (lbs/ day)		
		VOC	NOx	CO	PM10	PM2.5	NH3	SO2	Lead	VOC	NOx	CO
P234	GE COMBUSTION TURBINE	0.1	1.7	0.7	0.2	0.2	0.0	0.1	0.00007	0	3	0

Site Information:

Site Name: PSEG FOSSIL LLC/ POWER CT LLC EIS ID : 643411 CT ID: 117-551 SIC Code: 4911
 Address : 600 Connecticut Avenue, NEW HAVEN, CT Latitude: 41.287537 Longitude: -72.902968
 County : NEW HAVEN Ozone Status Area : CT-NY-NJ CSA PM2.5 Status Area: CT-NY-NJ PM2.5 Nonattainment Area

2011 Information:

Point ID	Process Description	Annual Emissions with RE (tons / year)								Daily Emissions with RE (lbs/ day)		
		VOC	NOx	CO	PM10	PM2.5	NH3	SO2	Lead	VOC	NOx	CO
E1	SOLAR GS350 TURBINE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	6	0
P21	B&W STEAM GENERATOR 2	0.0	1.2	0.5	0.2	0.1	0.1	2.4	0.00012	0	16	6
P31	C.E. STEAM GENERATOR 1	3.6	50.3	16.2	0.6	0.5	2.4	67.6	0.00013	145	1,542	658

Site Information:

Site Name: SOMERS THIN STRIP EIS ID : 555711 CT ID: 192-53 SIC Code: 3351
 Address : 215 PIEDMONT ST, WATERBURY, CT Latitude: 41.534843 Longitude: -73.034045
 County : NEW HAVEN Ozone Status Area : CT-NY-NJ CSA PM2.5 Status Area: CT-NY-NJ PM2.5 Nonattainment Area

2011 Information:

Point ID	Process Description	Annual Emissions with RE (tons / year)								Daily Emissions with RE (lbs/ day)		
		VOC	NOx	CO	PM10	PM2.5	NH3	SO2	Lead	VOC	NOx	CO
E1	AIR MAKE-UP UNITS	0.0	0.3	0.2	0.0	0.0	0.0	0.0	0.00000	0	0	0
E4	#21 FURNACE ANNEALING LINE	0.0	0.5	0.4	0.0	0.0	0.0	0.0	0.00000	0	2	2
E6	BLR CB CBLE700-250-150 #6	0.1	1.6	1.4	0.1	0.1	0.1	0.0	0.00001	0	7	6

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TABLE 4

DETAIL LISTING OF 2011 CONNECTICUT POINT SOURCE INVENTORY

E7	#26 Bell	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0
P201	WWTP EMERGENCY GENERATOR	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0
P247	FIRE PUMP EMERGENCY GENERATOR	0.1	1.3	0.3	0.1	0.1	0.0	0.0	0.00000	0	0	0
R638	BLR PREFERRED BHER80 #1	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.00000	0	1	1
R640	BLR PREFERRED BHER150 #4	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.00000	0	1	1
R808	#15 FURNACE AND DEGREASER	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0
R813	#4 DEGREASING LINE -MC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0
U2	THINNING SOLVENTS: KEROSENE	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	19	0	0

Site Information:

Site Name: THERMOSPAS INC EIS ID : 2724211 CT ID: 189-217 SIC Code: 3088
 Address : 155 East Street, WALLINGFORD, CT Latitude: 41.444808 Longitude: -72.835665
 County : NEW HAVEN Ozone Status Area : CT-NY-NJ CSA PM2.5 Status Area: CT-NY-NJ PM2.5 Nonattainment Area

2011 Information:

Point ID	Process Description	Annual Emissions with RE (tons / year)							Daily Emissions with RE (lbs/ day)			
		VOC	NOx	CO	PM10	PM2.5	NH3	SO2	Lead	VOC	NOx	CO
E4	Wood Working Area	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0
E5	Finishing Process	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	11	0	0
E6	Onan Emergency Engine	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0
P87	POLYESTER RESIN APP'N AREAS	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	30	0	0

Site Information:

Site Name: UNITED ALUMINUM CORP EIS ID : 14623211 CT ID: 135-117 SIC Code: 3353
 Address : 100 UNITED DR, NORTH HAVEN, CT Latitude: 41.36429 Longitude: -72.864639
 County : NEW HAVEN Ozone Status Area : CT-NY-NJ CSA PM2.5 Status Area: CT-NY-NJ PM2.5 Nonattainment Area

2011 Information:

Point ID	Process Description	Annual Emissions with RE (tons / year)							Daily Emissions with RE (lbs/ day)			
		VOC	NOx	CO	PM10	PM2.5	NH3	SO2	Lead	VOC	NOx	CO
E1	DR Generator	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.00000	1	7	2

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TABLE 4

DETAIL LISTING OF 2011 CONNECTICUT POINT SOURCE INVENTORY

E1	ULSK Tank-1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	2	0	0
P300	GE LMS100PA SIMPLE CYCLE TURBI	1.3	2.7	4.0	2.0	2.0	1.7	0.2	0.00000	9	19	28

Site Information:

Site Name: YALE UNIV /CENTRAL POWER PLT EIS ID : 843911
 Address : 18 ASHMUN ST, NEW HAVEN, CT
 County : NEW HAVEN Ozone Status Area : CT-NY-NJ CSA

CT ID: 117-48 SIC Code: 8221
 Latitude: 41.302416 Longitude: -72.928769
 PM2.5 Status Area: CT-NY-NJ PM2.5 Nonattainment Area

2011 Information:

Point ID	Process Description	Annual Emissions with RE (tons / year)							Daily Emissions with RE (lbs/ day)			
		VOC	NOx	CO	PM10	PM2.5	NH3	SO2	Lead	VOC	NOx	CO
E4	BLR NEBRASKA 1A-53	0.0	0.8	0.7	0.1	0.1	0.0	0.0	0.00000	0	2	2
E5	BLR NEBRASKA 1A-53	0.1	1.1	0.9	0.1	0.1	0.0	0.0	0.00001	0	3	2
E6	EMU 21 POLICE EMERG GEN	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.00000	0	6	1
E7	EMU 25 CPP EMERG GEN	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.00000	0	5	1
E8	GEMU2 - Boilers =>5 MMBTU <10 MMBTU	0.1	0.9	0.8	0.1	0.1	0.0	0.0	0.00000	0	2	1
E10	55 Lock St Generator	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.00000	1	6	3
P204	GE PGT-5/M TURBINE W/HRSG #1	0.3	5.6	0.7	2.0	2.0	2.5	0.5	0.00007	2	30	4
P205	GE PGT-5/M TURBINE W/HRSG #2	0.8	6.2	0.8	2.2	2.2	2.3	0.6	0.00007	5	38	5
P206	GE PGT-5/M TURBINE W/HRSG #3	1.6	5.2	1.5	1.9	1.9	2.2	0.5	0.00005	3	30	3
P207	MITSUBISHI MODEL S16R-PTA,CPG1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0
P208	MITSUBISHI S16R-PTA,CPG2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0
P209	MITSUBISHI S16R-PTA,CPG3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0
P210	BLR NEBRASKA 100K	0.2	2.7	2.4	0.4	0.3	0.0	1.8	0.00007	1	20	13
P354	CUMMINS,NTA855-G2,300KW,HSC	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.00000	0	2	0

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TABLE 4

DETAIL LISTING OF 2011 CONNECTICUT POINT SOURCE INVENTORY

Site Information:

Site Name: YALE UNIV, SCHOOL OF MEDICINE EIS ID : 898111
 Address : 330 CEDAR STREET, NEW HAVEN, CT
 County : NEW HAVEN Ozone Status Area : CT-NY-NJ CSA

CT ID: 117-49 SIC Code: 8221
 Latitude: 41.302913 Longitude: -72.93285
 PM2.5 Status Area: CT-NY-NJ PM2.5 Nonattainment Area

2011 Information:

Point ID	Process Description	Annual Emissions with RE (tons / year)							Daily Emissions with RE (lbs/ day)			
		VOC	NOx	CO	PM10	PM2.5	NH3	SO2	Lead	VOC	NOx	CO
E1	CATERPILLAR GENERATOR 3516B	0.0	1.0	0.3	0.0	0.0	0.0	0.0	0.00000	16	171	37
E2	CATERPILLAR 3412, 500KW	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.00000	0	5	1
E6	CATERPILLAR GENERATOR 3516,	0.0	0.3	0.1	0.0	0.0	0.0	0.0	0.00000	0	14	2
E8	BINKS 2001 HVLP SPRAYBOOTH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0
E99	AMISTAD EMERGENCY GENERATOR	0.0	0.4	0.1	0.0	0.0	0.0	0.0	0.00000	0	16	4
E100	100 Church St. South Boilers	0.0	0.2	0.2	0.0	0.0	0.0	0.0	0.00000	0	0	0
P105	BLR B&W #FM103-70 #8	0.1	1.7	1.7	0.2	0.2	0.0	0.1	0.00002	0	9	9
P220	BLR NEBRASKA # NS-F-76 # 10	0.0	1.5	0.6	0.2	0.2	0.0	0.1	0.00002	0	6	2
P223	KOHLER 60RZ, 60KW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0
P225	CUMMINS VTA28-GS1, 500KW	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.00000	0	5	1
P326	BLR NEBRASKA #NS-F-76 #9	0.0	1.6	0.3	0.3	0.3	0.0	0.1	0.00002	0	9	1
P329	mitsubishi S12 H-PTAEG, MSG10	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.00000	0	11	1
P330	724HP MITSUBISHI S6A3-PTAEGS	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.00000	0	4	1
P332	224HP MITSUBISHI6D24-TEG,MSG13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	1	0
P355	BLR NEB NOS-2A-81-ECON#11	0.0	1.5	0.4	0.2	0.2	0.0	0.1	0.00002	0	8	2
P369	TURBINE W/DUCT BURNER	0.6	2.2	2.0	0.7	0.7	0.5	1.0	0.00014	4	14	13
P370	TURBINE W/DUCT BURNER	0.4	2.1	2.1	0.4	0.4	0.3	0.9	0.00017	2	11	11
R170	BLR BIGELOW #5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0

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TABLE 4

DETAIL LISTING OF 2011 CONNECTICUT POINT SOURCE INVENTORY

Site Information:

Site Name: COVANTA SOUTHEASTERN CT CO EIS ID : 754611 CT ID: 150-12 SIC Code: 4953
 Address : 132 MILITARY HWY, PRESTON, CT Latitude: 41.473655 Longitude: -72.067102
 County : NEW LONDON Ozone Status Area : Greater Connecticut Area PM2.5 Status Area: PM2.5 Attainment Area

2011 Information:

Point ID	Process Description	Annual Emissions with RE (tons / year)								Daily Emissions with RE (lbs/ day)		
		VOC	NOx	CO	PM10	PM2.5	NH3	SO2	Lead	VOC	NOx	CO
E1	CAT 3412 DIT DIESEL-EMERGENCY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0
P1	DBA REFUSE INCIN #1	1.5	201.6	45.2	0.9	0.5	1.7	35.9	0.00206	9	1,137	255
P2	DBA REFUSE INCIN #2	1.5	196.7	49.8	0.7	0.4	0.2	24.6	0.00184	9	1,192	302

Site Information:

Site Name: DOW CHEMICAL CO EIS ID : 590211 CT ID: 92-2 SIC Code: 2821
 Address : 1761 RTE 12, LEDYARD, CT Latitude: 41.440707 Longitude: -72.081753
 County : NEW LONDON Ozone Status Area : Greater Connecticut Area PM2.5 Status Area: PM2.5 Attainment Area

2011 Information:

Point ID	Process Description	Annual Emissions with RE (tons / year)								Daily Emissions with RE (lbs/ day)		
		VOC	NOx	CO	PM10	PM2.5	NH3	SO2	Lead	VOC	NOx	CO
P22	SOIL VAPOR EXTRACTION SYSTEM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	7	0	0
P26	Styrofoam Process Line	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0

Site Information:

Site Name: ELECTRIC BOAT CORP EIS ID : 922211 CT ID: 70-5 SIC Code: 3731
 Address : 75 EASTERN POINT RD, GROTON, CT Latitude: 41.343369 Longitude: -72.078936
 County : NEW LONDON Ozone Status Area : Greater Connecticut Area PM2.5 Status Area: PM2.5 Attainment Area

2011 Information:

Point ID	Process Description	Annual Emissions with RE (tons / year)								Daily Emissions with RE (lbs/ day)		
		VOC	NOx	CO	PM10	PM2.5	NH3	SO2	Lead	VOC	NOx	CO
E2	MANUAL ADHESIVE APPL(FACILITY)	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	3	0	0
E9	BUILDING 51 (SILICA SAND)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0

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TABLE 4

DETAIL LISTING OF 2011 CONNECTICUT POINT SOURCE INVENTORY

P8	BLR SUPERIOR 350HP #2N	0.1	1.5	0.9	0.1	0.1	0.0	0.0	0.00001	0	0	0
P32	BLR B&W FMD 640 #4M	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0
P55	BLR SUPERIOR 150HP #1S	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0
P59	GRAVING DOCK #1	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	9	0	0
P94	LAND LEVEL FACILITY- BLASTING	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0
P144	KOHLER 180ROZ271 DIESEL GEN	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0
P145	KOHLER 50ROZ271 DIESEL GEN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	2	0
P146	KOHLER 50ROZ271 DIESEL GEN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0
P147	KOHLER 100ROZ277 DIESEL GEN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	1	0
P148	KOHLER 100ROZ277 DIESEL GEN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0
P149	KOHLER 70ROZ272 PROPANE GEN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0
P150	CATERPILLAR D398A GEN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0
P152	KOHLER 250ROZ271 DIESEL GEN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0
P153	KOHLER 250ROZ273 DIESEL GEN	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.00000	1	7	1
P240	MOLD-IN-PLACE HULL COATING	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	12	0	0
P241	SPRAY BOOTH (BLDG 51)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0
P255	BUILDING 212 BLASTEC (AL02)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0
P256	BUILDING 105 BLAST ROOM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0
P257	250 KW MAGNE TEK DIESEL GEN	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.00000	0	2	0
P258	250 KW MAGNE TEK DIESEL GEN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	3	0
P259	250 KW MAGNE TEK DIESEL GEN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	1	0
P260	250 KW MAGNE TEK DIESEL GEN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	1	0
P261	KOHLER MODEL 125ROZ DIESEL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0
P262	KOHLER 50ROZJ SERIAL #0690077	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0

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TABLE 4

DETAIL LISTING OF 2011 CONNECTICUT POINT SOURCE INVENTORY

P263	BARGE 17 133.7 MMBTU BOILER	0.0	0.6	0.1	0.1	0.0	0.0	0.2	0.00003	0	0	0
P269	EB-33 BLASTING CABINET, BUILDING 129	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0
R57	BLR SUPERIOR 200HP #1N	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0
R66	BLR B&W FM 40K#/H #3M	0.2	4.2	2.9	0.3	0.3	0.1	0.0	0.00002	0	0	0
R67	BLR B&W FM 60K#/H #2M	0.3	8.4	4.1	0.4	0.4	0.2	0.0	0.00002	0	0	0
R68	BLR SUPERIOR 350HP #1M	0.0	0.8	0.5	0.0	0.0	0.0	0.0	0.00000	0	0	0
R74	BLR SUPERIOR 250HP #2S	0.1	2.0	1.2	0.1	0.1	0.0	0.0	0.00001	0	9	7
R75	EB-15 WHEELABRATOR 96/BLDG 212	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0
R94	EB-22 GRIT BLAST-SHIP HULL/GD2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0
R95	EB-23 HULL PAINTING/LLF&GD#2	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	3	0	0
R227	SPRAY PAINTING B#212	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0

Site Information:

Site Name: Fusion Paperboard Connecticut LLC EIS ID : 552711 CT ID: 170-2 SIC Code: 2631
 Address : 130 Inland Rd, SPRAGUE, CT Latitude: 41.619849 Longitude: -72.04368
 County : NEW LONDON Ozone Status Area : Greater Connecticut Area PM2.5 Status Area: PM2.5 Attainment Area

2011 Information:

Point ID	Process Description	Annual Emissions with RE (tons / year)								Daily Emissions with RE (lbs/ day)		
		VOC	NOx	CO	PM10	PM2.5	NH3	SO2	Lead	VOC	NOx	CO
E1	AIR MAKE UP UNIT #1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0
E2	AIR MAKE UP UNIT #2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0
E3	AIR MAKE UP UNIT #3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0
E4	AIR MAKE UP UNIT #4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0
E5	COATER DRYER #2	0.2	2.8	2.3	0.2	0.2	0.1	0.0	0.00001	1	15	13
E6	COATER DRYER #5	0.2	2.8	2.3	0.2	0.2	0.1	0.0	0.00001	1	15	13
E7	COATER DRYER #1	0.2	3.1	2.6	0.2	0.2	0.1	0.0	0.00002	1	15	13

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TABLE 4

DETAIL LISTING OF 2011 CONNECTICUT POINT SOURCE INVENTORY

E10	#EG-1 EMER GENERATOR (B90)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	2	1
E13	#EG-4 EMER GENERATOR (B114)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	2	0
E20	CATERPILLAR 3516B	0.0	1.2	0.3	0.0	0.0	0.0	0.0	0.00000	17	657	175
E22	WASTEWATER EQUALIZATION BASIN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0
E23	CATERPILLAR 3406 CDITA	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.00000	5	48	10
E24	FIRE DEPT GENERATOR	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0
E26	ONAN 600 DPY-4XR DIESEL/RES	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.00000	1	29	8
E27	BLR HURST 400 #S4-G-600-150	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.00000	0	0	0
E28	KOHLER 600 ROZD DIESEL	0.0	0.3	0.1	0.0	0.0	0.0	0.0	0.00000	1	35	9
E29	KOHLER 500ROZD DIESEL #1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.00000	1	31	8
E30	KOHLER 500ROZD DIESEL #2	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.00000	1	32	9
E31	ONAN 60DGCB DIESEL/C RESEARCH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	1	0
E32	ONAN 750 DHFA EMERG GEN	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.00000	4	142	38
E33	CATERPILLAR G3412 SITA	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.00000	0	2	0
E34	ONAN 150 DGFA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	2	25	5
E35	CUMMINS ONAN GTA/GS	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.00000	0	4	0
E36	ONAN 250 DFM EMERGENCY ENGINE	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.00000	3	34	7
E37	EG - 12 EMER GENERATOR (B 101)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	1	10	2
E39	PGM EMERG FIRE PUMP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0
E40	B195 Fire Pump Engine	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.00000	3	27	6
E41	B118E EG Caterpillar	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.00000	5	52	11
P268	SOLAR MARS 100S TURBINE + DB	3.4	4.7	0.4	3.7	3.7	0.2	1.6	0.00001	17	24	2
R7	BLR CE #1 (101-1)	0.6	14.3	9.7	0.9	0.9	0.0	0.4	0.00007	0	8	5
R8	BLR CE #2 (101-1)	0.7	15.8	9.9	1.2	1.1	0.0	2.4	0.00014	3	58	40

TABLE 4
DETAIL LISTING OF 2011 CONNECTICUT POINT SOURCE INVENTORY

E16	BLDG 428 GASOLINE DISPENSING	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	21	0	0
E17	OTHER MISC METAL COATING	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	12	0	0
E18	Methylene Chloride	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0
E19	ELECTOSTAT. POWDER COAT SPRUCE BARGE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0
P61	WAUKESHA VHP8894 DIESEL B29	0.0	0.5	0.3	0.0	0.0	0.0	0.0	0.00000	0	0	0
P75	BLR KEWANEE H35200K02 B325	0.0	0.3	0.1	0.0	0.0	0.0	0.7	0.00002	0	0	0
P96	TG6 TURBINE W/ HRSG	3.3	14.1	14.2	1.1	1.1	0.3	0.1	0.00000	33	100	14
P228	ELECTOSTAT. POWDER COAT - B174	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0
P231	ABRASIVE BLAST BOOTH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0
P238	AIRLESS AIR-ASSISTED SPRAY BOOTH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0
R196	BLR B&W #1	0.2	4.8	0.0	0.4	0.4	0.1	0.5	0.00010	0	0	0
R197	BLR B&W #2	0.2	2.5	0.0	0.3	0.3	0.0	0.0	0.00002	0	5	0
R198	BLR B&W #3	0.2	1.2	0.0	0.1	0.1	0.0	0.0	0.00001	0	0	0
U3	COATING: ENAMEL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0
U4	THINNING SOLVENTS: ETHYL ALCOH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0
U5	THINNING SOLVENTS: MINERAL SPI	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0
U6	THINNING SOLVENTS: XYLENE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0
U7	COLD SOLVENT CLEANING: 111 TRI	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0

Site Information:

Site Name: WHEELABRATOR LISBON INC EIS ID : 8501611 CT ID: 93-14 SIC Code: 4953
 Address : 425 S BURNHAM HWY, LISBON, CT Latitude: 41.583775 Longitude: -72.041729
 County : NEW LONDON Ozone Status Area : Greater Connecticut Area PM2.5 Status Area: PM2.5 Attainment Area

2011 Information:

Point ID	Process Description	Annual Emissions with RE (tons / year)							Daily Emissions with RE (lbs/ day)		
		VOC	NOx	CO	PM10	PM2.5	NH3	SO2	Lead	VOC	NOx

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TABLE 4

DETAIL LISTING OF 2011 CONNECTICUT POINT SOURCE INVENTORY

E588	CATERPILLAR 100KW NG CAPSTONE	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.00000	0	2	2
E589	ISUZU 174HP DIESEL BASEBALLFLD Pump	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0
E591	KOHLER 17 KW NG HILLTOP Generator	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	1	1
E592	CATERPILLAR 1500kW DSL BLKSTRT	0.0	0.6	0.1	0.0	0.0	0.0	0.0	0.00000	1	44	12
E593	60KW CUMMINS NG WPCF FOOTBALL CMLPX GEN	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.00000	0	2	2
E594	250KW CUMMINS NG TOWERS Generator	0.0	0.2	0.2	0.0	0.0	0.0	0.0	0.00000	0	2	2
E595	NG BOILERS HILLTOP APTS (12) EMU-611-622	0.0	0.1	0.6	0.1	0.1	0.0	0.0	0.00000	0	0	1
E596	NG EQUIP HILLTOP CHARTER OAK EMUs-623-1185	0.1	1.2	0.5	0.1	0.1	0.0	0.0	0.00001	0	1	1
E597	NG SMITH DW-1810 BLR HILLTOP Suites	0.0	0.2	0.2	0.0	0.0	0.0	0.0	0.00000	0	0	0
E598	Bio Behav. #4 Cleaver Brooks NG BLR- 5.23 MMBtu/hr	0.0	0.2	0.2	0.0	0.0	0.0	0.0	0.00000	0	1	0
E599	Putnam #1 Weil-McLain NG BLR 6.65 MMBtu/hr	0.0	0.2	0.2	0.0	0.0	0.0	0.0	0.00000	0	1	0
E600	Putnam #2 Weil-McLain NG BLR 6.65 MMBtu/hr	0.0	0.2	0.2	0.0	0.0	0.0	0.0	0.00000	0	1	0
P11	KOHLER DIESEL 350KW BEACH BLDG	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.00000	0	1	0
P12	KOHLER DIESEL 600KW PSYC BLDG	0.0	1.1	0.3	0.0	0.0	0.0	0.0	0.00000	2	54	14
P15	KOHLER 150ROZJ DIESEL BIO4 ANX	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.00000	1	17	4
P18	CUMMINS NT855 DIESEL 230KW Gampel	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.00000	0	1	0
P19	KOHLER 400KW DIESEL FENTON RVR	0.0	0.4	0.1	0.0	0.0	0.0	0.0	0.00000	1	39	10
P20	KOHLER 750KW DIESEL GEN (former Pharmacy)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0
P24	#1 MITSUBISHI 1250kW GEN CHP	0.0	0.4	0.1	0.0	0.0	0.0	0.0	0.00000	1	23	6
P25	#2 MITSUBISHI 1250kW GEN CHP	0.0	0.4	0.1	0.0	0.0	0.0	0.0	0.00000	1	22	6
P26	B & W BOILER #9	0.1	1.0	0.2	0.2	0.2	0.0	0.2	0.00002	0	0	0
P27	WAUKESHA CHILLER ENG #1 CHP	0.3	0.5	0.1	0.2	0.2	0.0	0.2	0.00000	1	2	0
P28	WAUKESHA CHILLER ENG #3 CHP	0.1	0.1	0.0	0.1	0.1	0.0	0.1	0.00000	1	1	0
P32	KOHLER 230 ROZD DIESEL COMMISSARY	0.0	0.5	0.1	0.0	0.0	0.0	0.0	0.00000	2	29	6

TABLE 4

DETAIL LISTING OF 2011 CONNECTICUT POINT SOURCE INVENTORY

P33	CATERPILAR 3412 DIESEL DODD	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0
P34	ONAN 100DGDB DIESEL WPCF GURLEYVILLE	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.00000	1	12	3
P35	ONAN 35DGBB Diesel WPCF Eastwood Generator	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	2	1
P36	ONAN 35DGBB DIESEL WPCF MANSFIELD	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.00000	0	6	1
P37	ONAN 35DGBB DIESEL WPCF Northwood	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.00000	1	7	2
P38	DETROIT DIESEL 100DS NO CAMPUS Parking Garage	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	1	0
P39	DETROIT DIESEL DDFP-03DN-CNTRL Warehouse Fire Pump	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0
P43	KOHLER 150ROZJ DIESEL Fieldhouse Fire Pump	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0
P54	ONAN 500 KW DIESEL GEN/WasteWaterTrtmntPlant	0.0	0.5	0.1	0.0	0.0	0.0	0.0	0.00000	1	41	11
P56	SOLAR TAURUS 70 TURBINE #1 &DB	1.2	2.8	6.5	6.1	6.1	2.6	1.1	0.00005	5	14	32
P61	SOLAR TAURUS 70 TURBINE #2 &DB	1.1	2.8	6.4	6.1	6.1	2.6	0.9	0.00001	5	14	34
P62	SOLAR TAURUS 70 TURBINE #3 &DB	0.7	1.7	3.8	3.7	3.7	1.6	0.7	0.00003	4	11	25
R14	BLR BIGELOW #1	0.1	2.8	1.1	0.1	0.1	0.0	0.0	0.00002	0	1	0
R15	BLR BIGELOW #2	0.1	3.7	1.6	0.2	0.2	0.0	0.0	0.00002	0	0	0
R16	BLR BIGELOW #3	0.0	0.2	0.1	0.0	0.0	0.0	0.0	0.00000	0	0	0
R20	BLR BIGELOW #7	0.1	1.8	0.8	0.1	0.1	0.0	0.0	0.00002	0	0	0

Site Information:

Site Name: ALGONQUIN GAS TRANSMISSION EIS ID : 751611 CT ID: 34-2 SIC Code: 4922
 Address : 539 TOWER HILL RD, CHAPLIN, CT Latitude: 41.814647 Longitude: -72.161132
 County : WINDHAM Ozone Status Area : Greater Connecticut Area PM2.5 Status Area: PM2.5 Attainment Area

2011 Information:

Point ID	Process Description	Annual Emissions with RE (tons / year)							Daily Emissions with RE (lbs/ day)			
		VOC	NOx	CO	PM10	PM2.5	NH3	SO2	Lead	VOC	NOx	CO
E1	CUMMINGS #GTA-19 GEN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	31	5
E2	KEWANEE 1.1 MMBTU/HR GLYCOL HT	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.00000	0	3	2

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TABLE 4

DETAIL LISTING OF 2011 CONNECTICUT POINT SOURCE INVENTORY

E20	PROPANE VAPORIZER	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0
E32	Starch Dryer No. 2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0
P12	LINE #1 COOKER	0.0	0.0	0.0	4.8	0.7	0.0	0.0	0.00000	0	0	0
P13	LINE #3 COOKER	0.0	0.0	0.0	0.9	0.4	0.0	0.0	0.00000	0	0	0
P25	BLR CB-D60 #1	0.0	0.5	0.4	0.0	0.0	0.0	0.0	0.00000	0	1	1
P26	BLR CB-D60 #2	0.2	4.1	4.0	0.3	0.3	0.1	0.0	0.00002	1	22	22
P27	BLR CB-D60 #3	0.0	0.9	2.6	0.1	0.1	0.0	0.4	0.00001	0	1	3
P28	LINE #2 COOKER	0.0	0.0	0.0	4.3	0.6	0.0	0.0	0.00000	0	0	0
P39	Starch Dryer No. 1	0.0	0.0	0.0	2.8	2.8	0.0	0.0	0.00000	0	0	0
P105	SOLAR CENTAUR 50-6200S CHP	3.2	1.4	5.3	1.9	1.9	0.2	0.2	0.00006	18	8	31
U1	COLD SOLVENT CLEANING: STODDAR	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0

Site Information:

Site Name: LAKE ROAD GENERATING CO, L.P. EIS ID : 844711 CT ID: 89-80 SIC Code: 4911
 Address : 56 ALEXANDER PARK WAY, KILLINGLY, CT Latitude: 41.870861 Longitude: -71.895575
 County : WINDHAM Ozone Status Area : Greater Connecticut Area PM2.5 Status Area: PM2.5 Attainment Area

2011 Information:

Point ID	Process Description	Annual Emissions with RE (tons / year)							Daily Emissions with RE (lbs/ day)			
		VOC	NOx	CO	PM10	PM2.5	NH3	SO2	Lead	VOC	NOx	CO
E1	Gastech Engineering Dew Point Heater #1 (2115-02A)	0.4	1.9	1.2	0.1	0.1	0.1	0.0	0.00001	2	10	6
E2	Gastech Engineering Dew Point Heater #2 (2115-02B)	0.4	1.8	1.1	0.1	0.1	0.1	0.0	0.00001	2	10	6
E3	Gastech Engineering Dew point Heater #3 (2115-02A)	0.4	1.8	1.1	0.1	0.1	0.1	0.0	0.00001	2	11	7
P67	ABB COMBUSTION TURBINE #1	6.8	46.4	10.7	55.1	55.1	33.1	3.9	0.00000	102	239	64
P68	ABB COMBUSTION TURBINE #2	6.4	43.0	12.0	21.7	21.7	23.2	3.7	0.00000	109	213	73
P69	ABB COMBUSTION TURBINE #3	6.7	46.2	25.2	17.1	17.1	37.2	3.8	0.00000	184	252	146
P70	GPEE DIESEL FIRE PUMP	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.00000	0	0	0

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Appendix B

ONROAD MOBILE SOURCE TABLES

Appendix B

Table 1: MOVES Fuel Parameter Inputs for Connecticut

Season	Fairfield County			All Other Connecticut Counties		
	Winter	Shoulder (1)	Summer	Winter	Shoulder (1)	Summer
MOVES Parameter (units or N/A)						
fuelFormulationID	9420	9421	9422	9423	9424	9425
fuelSubtypeID	12	12	12	12	12	12
RVP (psia)	11.5661	9.30555	7.045	11.5661	9.32694	7.08778
sulfurLevel (ppm wt S)	40.8	37.2125	33.625	33.3333	33.3333	33.3333
ETOHVolume (% volume)	10.016	9.91113	9.80625	9.9	9.78556	9.67111
MTBEVolume (% volume)	0	0	0	0	0	0
ETBEVolume (% volume)	0	0	0	0	0	0
TAMEVolume (% volume)	0	0	0	0	0	0
aromaticContent (% volume) (2)	15.056	16.5911	18.1262	15.7267	17.7378	19.7489
olefinContent (% volume) (2)	12.824	13.6739	14.5238	11.4567	11.5706	11.6844
benzeneContent (% volume) (2)	0.6798	0.65315	0.6265	0.7175	0.698028	0.678556
e200 (%)	60.02	54.0225	48.025	60.5	55.35	50.2
e300 (%)	89.38	87.44	85.5	90.95	89.8139	88.6778
volToWtPercentOxy (N/A)						
BioDieselEsterVolume (N/A)	0	0	0	0	0	0
CetaneIndex (N/A)	0	0	0	0	0	0
PAHContent (N/A)	0	0	0	0	0	0
T50 (degrees F)	154.36	180.818	207.275	153.483	176.436	199.389
T90 (degrees F)	302.76	312.055	321.35	294.65	300.003	305.356

(1) The Shoulder Season data is applied for March, April, October and November in an annual run. Summer corresponds to May, June, July, August and September consistent with the summer RFG season.

(2) MOVES2010 documentation (Users Guide versus Technical Guidance) is inconsistent on the use of % by volume versus % by weight. EPA removed the units for these parameters in both the MOVES2014 Users Guide and MOVES2014 Technical Guidance as a result of the new fuel wizard provided for MOVES2014. Page 35 of the MOVES2014 Users Interface Manual indicates that units should be % by weight, but this does not appear to be consistent with MOVES default fuel formulation data. These fuel parameters have minimal impact.

Appendix B

Table 2: MOVES Ozone Design Temperature and Humidity Inputs for the CT portion of the NY-NJ-CT CSA

Month ID	Zone ID (Note 1)	Hour ID	Temperature	Relative Humidity
7	90010	1	71.9	85.7
7	90010	2	70.5	86.7
7	90010	3	69.3	89.8
7	90010	4	68.5	90.5
7	90010	5	67.9	90.7
7	90010	6	67.1	92.1
7	90010	7	66.5	84
7	90010	8	67	74.5
7	90010	9	70.2	65.2
7	90010	10	75.2	58.8
7	90010	11	80.3	53.6
7	90010	12	84.7	48
7	90010	13	88.6	45.5
7	90010	14	90.7	42.8
7	90010	15	91.4	41.4
7	90010	16	91.6	44.3
7	90010	17	91.1	45.8
7	90010	18	89.6	49.9
7	90010	19	87.1	56.9
7	90010	20	83.9	66
7	90010	21	80.6	69.7
7	90010	22	77.8	71.5
7	90010	23	75.8	76.1
7	90010	24	73.8	79.1

Note 1: Input shown is for Fairfield County (Zone ID 90010). MOVES input for New Haven (Zone ID 90090) and Middlesex (Zone ID 90050) Counties would be identical with the exception that the appropriate Zone ID would be needed in the input.

Appendix B

Table 3: MOVES Ozone Design Temperature and Humidity Inputs for Greater Connecticut

Month ID	Zone ID (Note 2)	Hour ID	Temperature	Relative Humidity
7	90030	1	73.7	75.6
7	90030	2	72.1	81.8
7	90030	3	70.8	85.3
7	90030	4	69.9	87.4
7	90030	5	69.2	89.1
7	90030	6	68.4	90.6
7	90030	7	67.7	86.2
7	90030	8	68.3	76.2
7	90030	9	71.8	69.5
7	90030	10	77.3	61.2
7	90030	11	83	53.8
7	90030	12	87.9	49
7	90030	13	92.1	44.5
7	90030	14	94.5	41.2
7	90030	15	95.3	40.4
7	90030	16	95.5	38.8
7	90030	17	94.9	40.8
7	90030	18	93.3	43.7
7	90030	19	90.5	47.3
7	90030	20	86.9	56.5
7	90030	21	83.3	63.5
7	90030	22	80.2	67.6
7	90030	23	78	72.8
7	90030	24	75.8	75.3

Note 2: Input shown is for Hartford County (Zone ID 90030). MOVES input for Litchfield (Zone ID 90070), New London (Zone ID 90110), Tolland (Zone ID 90130) and Windham (Zone ID 90150) Counties would be identical with the exception that the appropriate Zone ID would be needed in the input.

Appendix B

Table 4: MOVES Fairfield County PM 2.5 Primary Design Temperatures

Month ID	Zone ID	Hour ID	Temperature	Relative Humidity
1	90010	1	23.3	66.8
1	90010	2	22.4	67.5
1	90010	3	21.5	68.3
1	90010	4	20.8	68.8
1	90010	5	20.1	69.4
1	90010	6	19.9	69.7
1	90010	7	19.4	69.9
1	90010	8	19.2	69.9
1	90010	9	19.9	69.7
1	90010	10	22.8	67.6
1	90010	11	26.4	64.6
1	90010	12	30	61.3
1	90010	13	32.8	59.3
1	90010	14	35	57.7
1	90010	15	36.4	56.9
1	90010	16	36.6	56.5
1	90010	17	35.7	57
1	90010	18	33.2	59.1
1	90010	19	31.2	60.9
1	90010	20	29.4	62.2
1	90010	21	28	63.4
1	90010	22	26.7	64.3
1	90010	23	25.5	65
1	90010	24	24.4	65.7
2	90010	1	26.2	65.7
2	90010	2	25.1	66.7
2	90010	3	24.3	67.2
2	90010	4	23.4	68
2	90010	5	22.6	68.8
2	90010	6	22	69
2	90010	7	21.3	69.8
2	90010	8	20.9	69.8
2	90010	9	22.8	67.9
2	90010	10	25.9	64.8
2	90010	11	29.1	61.1
2	90010	12	32.3	58
2	90010	13	35	55.5
2	90010	14	37.1	53.5
2	90010	15	38.6	52.4
2	90010	16	39.2	51.8
2	90010	17	38.8	52.2
2	90010	18	36.9	54.2
2	90010	19	34.4	56.9
2	90010	20	32.5	59.3
2	90010	21	31	61.1

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Table 4: MOVES Fairfield County PM 2.5 Primary Design Temperatures

Month ID	Zone ID	Hour ID	Temperature	Relative Humidity
2	90010	22	29.7	62.3
2	90010	23	28.5	63.5
2	90010	24	27.4	64.4
3	90010	1	33.6	65
3	90010	2	32.6	66.5
3	90010	3	31.6	67.8
3	90010	4	30.7	68.9
3	90010	5	30.1	69.4
3	90010	6	29.4	70.2
3	90010	7	28.9	70.7
3	90010	8	29.9	69.9
3	90010	9	33.1	65.7
3	90010	10	36.4	60.9
3	90010	11	39.5	56.7
3	90010	12	42.4	53.4
3	90010	13	44.9	50.8
3	90010	14	46.5	49.4
3	90010	15	47.7	48.2
3	90010	16	48.2	47.7
3	90010	17	47.7	48.2
3	90010	18	46.2	49.6
3	90010	19	43.5	53
3	90010	20	41.2	56
3	90010	21	39.4	58.3
3	90010	22	37.9	60.3
3	90010	23	36.7	61.7
3	90010	24	35.4	63.6
4	90010	1	42.7	66.7
4	90010	2	41.5	68.4
4	90010	3	40.4	69.7
4	90010	4	39.4	70.7
4	90010	5	38.6	71.8
4	90010	6	37.9	72.6
4	90010	7	38.2	72.6
4	90010	8	41.4	69
4	90010	9	44.8	63.5
4	90010	10	48.3	58.6
4	90010	11	51.6	54.4
4	90010	12	54.4	51.3
4	90010	13	56.6	49
4	90010	14	58.2	47.6
4	90010	15	59.2	46.4
4	90010	16	59.4	46.5
4	90010	17	58.7	46.9
4	90010	18	57.3	48.4

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Table 4: MOVES Fairfield County PM 2.5 Primary Design Temperatures

Month ID	Zone ID	Hour ID	Temperature	Relative Humidity
4	90010	19	54.8	51.1
4	90010	20	51.6	55
4	90010	21	49.5	58.1
4	90010	22	47.7	60.7
4	90010	23	46	62.9
4	90010	24	44.7	64.8
5	90010	1	52.2	73.2
5	90010	2	51	75.1
5	90010	3	49.9	76.7
5	90010	4	49	77.8
5	90010	5	48.1	79.3
5	90010	6	47.6	79.9
5	90010	7	49.7	77.9
5	90010	8	53.3	72.2
5	90010	9	56.9	66.3
5	90010	10	60.3	61.4
5	90010	11	63.4	57.2
5	90010	12	66	54
5	90010	13	68	51.5
5	90010	14	69.3	50
5	90010	15	70.1	49.2
5	90010	16	70.1	49
5	90010	17	69.3	49.9
5	90010	18	67.7	51.5
5	90010	19	65.4	54.3
5	90010	20	62.1	58.7
5	90010	21	59.2	63.2
5	90010	22	57.2	66.4
5	90010	23	55.7	68.7
5	90010	24	54.2	71.2
6	90010	1	61.6	75.8
6	90010	2	60.4	77.7
6	90010	3	59.2	79.3
6	90010	4	58.1	80.7
6	90010	5	57.2	82.1
6	90010	6	56.9	82.4
6	90010	7	59.3	79.9
6	90010	8	62.5	75.1
6	90010	9	66	69.6
6	90010	10	69.3	64.9
6	90010	11	72.4	60.6
6	90010	12	74.8	57.1
6	90010	13	76.8	54.6
6	90010	14	78	53
6	90010	15	78.6	52.3

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Table 4: MOVES Fairfield County PM 2.5 Primary Design Temperatures

Month ID	Zone ID	Hour ID	Temperature	Relative Humidity
6	90010	16	78.6	52.3
6	90010	17	77.8	53.2
6	90010	18	76.3	54.9
6	90010	19	74.2	57.6
6	90010	20	71.3	61.5
6	90010	21	68	66.6
6	90010	22	66	69.9
6	90010	23	64.3	72
6	90010	24	63	74.3
7	90010	1	67.3	78
7	90010	2	66.1	79.6
7	90010	3	65	80.9
7	90010	4	64.1	82
7	90010	5	63.2	83.1
7	90010	6	62.6	84
7	90010	7	64.6	81.7
7	90010	8	67.9	76.9
7	90010	9	71.3	71.5
7	90010	10	74.5	66.5
7	90010	11	77.5	62.1
7	90010	12	79.9	58.6
7	90010	13	81.9	55.9
7	90010	14	82.9	54.3
7	90010	15	83.7	53.5
7	90010	16	83.5	53.6
7	90010	17	82.8	54.6
7	90010	18	81.3	56.6
7	90010	19	79.3	59.6
7	90010	20	76.5	64.2
7	90010	21	73.5	69
7	90010	22	71.6	72
7	90010	23	70.1	74.4
7	90010	24	68.8	76.2
8	90010	1	65.8	80.1
8	90010	2	64.7	81.5
8	90010	3	63.7	82.9
8	90010	4	62.8	83.7
8	90010	5	61.9	84.9
8	90010	6	61.3	85.4
8	90010	7	62	84.9
8	90010	8	65.2	80.6
8	90010	9	68.8	74.8
8	90010	10	72.1	69.5
8	90010	11	75.2	64.5
8	90010	12	77.8	60.6

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Table 4: MOVES Fairfield County PM 2.5 Primary Design Temperatures

Month ID	Zone ID	Hour ID	Temperature	Relative Humidity
8	90010	13	79.9	57.6
8	90010	14	81.1	55.7
8	90010	15	81.8	54.9
8	90010	16	81.7	55.1
8	90010	17	80.8	56.3
8	90010	18	79.3	58.3
8	90010	19	76.9	62
8	90010	20	73.6	67.5
8	90010	21	71.2	71.4
8	90010	22	69.4	74.6
8	90010	23	68	76.7
8	90010	24	66.8	78.5
9	90010	1	58.2	80.1
9	90010	2	57.2	81.2
9	90010	3	56.3	82.4
9	90010	4	55.5	83.2
9	90010	5	54.5	84.1
9	90010	6	53.9	84.7
9	90010	7	53.6	85
9	90010	8	56.4	82.1
9	90010	9	60.4	76.5
9	90010	10	64	70.7
9	90010	11	67.3	65.6
9	90010	12	70	61.6
9	90010	13	72.2	58.6
9	90010	14	73.6	56.5
9	90010	15	74.2	55.8
9	90010	16	74	56
9	90010	17	73.1	57.3
9	90010	18	71.2	60
9	90010	19	67.9	65.2
9	90010	20	64.9	70.3
9	90010	21	63	73.2
9	90010	22	61.5	75
9	90010	23	60	77.4
9	90010	24	58.9	78.7
10	90010	1	46.5	76.1
10	90010	2	45.5	77.2
10	90010	3	44.5	78.4
10	90010	4	43.7	79.2
10	90010	5	42.9	80.1
10	90010	6	42.2	80.7
10	90010	7	41.9	81
10	90010	8	43.2	79.8
10	90010	9	47.6	74.8

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Table 4: MOVES Fairfield County PM 2.5 Primary Design Temperatures

Month ID	Zone ID	Hour ID	Temperature	Relative Humidity
10	90010	10	51.7	68.5
10	90010	11	55.3	63.2
10	90010	12	58.4	58.7
10	90010	13	60.8	55.5
10	90010	14	62.5	53.5
10	90010	15	63.3	52.4
10	90010	16	63.1	52.4
10	90010	17	61.8	54
10	90010	18	59.1	57.9
10	90010	19	55.6	63
10	90010	20	53.3	66.6
10	90010	21	51.5	69.3
10	90010	22	50.1	71.3
10	90010	23	48.6	73.1
10	90010	24	47.3	74.7
11	90010	1	38.5	70.3
11	90010	2	37.5	71.4
11	90010	3	36.7	72.2
11	90010	4	35.9	73
11	90010	5	35.1	73.5
11	90010	6	34.5	74
11	90010	7	34.1	74.3
11	90010	8	33.9	74.6
11	90010	9	36.7	72.5
11	90010	10	40.7	68.1
11	90010	11	44.2	63.7
11	90010	12	47.4	59.9
11	90010	13	49.6	57.7
11	90010	14	51.4	55.7
11	90010	15	52.2	54.7
11	90010	16	51.8	54.9
11	90010	17	50.2	56.2
11	90010	18	47	59.4
11	90010	19	45	61.8
11	90010	20	43.2	63.8
11	90010	21	41.9	65.5
11	90010	22	40.7	66.7
11	90010	23	39.7	67.7
11	90010	24	38.7	68.9
12	90010	1	28.9	68.3
12	90010	2	27.9	69.1
12	90010	3	27.2	69.9
12	90010	4	26.5	70.4
12	90010	5	25.9	71
12	90010	6	25.4	71.2

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Table 4: MOVES Fairfield County PM 2.5 Primary Design Temperatures

Month ID	Zone ID	Hour ID	Temperature	Relative Humidity
12	90010	7	24.9	71.5
12	90010	8	24.7	71.8
12	90010	9	25.9	70.7
12	90010	10	29.1	68.1
12	90010	11	32.5	64.6
12	90010	12	35.8	61
12	90010	13	38.3	58.9
12	90010	14	40.1	57.5
12	90010	15	41.1	56.4
12	90010	16	41.3	56.2
12	90010	17	39.7	57.6
12	90010	18	36.9	60.2
12	90010	19	35.1	61.7
12	90010	20	33.7	63.1
12	90010	21	32.3	64.5
12	90010	22	31.2	65.5
12	90010	23	30.2	66.5
12	90010	24	29.1	67.5

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Table 5: MOVES Hartford County PM 2.5 Primary Design Temperatures

Month ID	Zone ID	Hour ID	Temperature	Relative Humidity
1	90030	1	20.3	67.9
1	90030	2	19.1	68.9
1	90030	3	18.3	69.8
1	90030	4	17.7	70
1	90030	5	17	70.3
1	90030	6	16.6	70.8
1	90030	7	16.2	71.1
1	90030	8	16	70.8
1	90030	9	16.6	70.5
1	90030	10	20.1	67.6
1	90030	11	24.3	63.7
1	90030	12	28.2	60
1	90030	13	31.5	56.9
1	90030	14	33.8	55.3
1	90030	15	35	54.8
1	90030	16	35.2	54.4
1	90030	17	33.8	55.6
1	90030	18	31.3	57.9
1	90030	19	28.8	60.6
1	90030	20	26.7	62.4
1	90030	21	25.3	63.9
1	90030	22	23.8	65.1
1	90030	23	22.8	65.5
1	90030	24	21.6	66.8
2	90030	1	23.6	65.9
2	90030	2	22.4	67.2
2	90030	3	21.6	68.3
2	90030	4	20.9	68.6
2	90030	5	20	69.4
2	90030	6	19.3	69.6
2	90030	7	18.6	70.1
2	90030	8	18.3	70.4
2	90030	9	20.5	67.6
2	90030	10	24	63.7
2	90030	11	27.7	59.1
2	90030	12	31	55.6
2	90030	13	33.9	52.8

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Table 5: MOVES Hartford County PM 2.5 Primary Design Temperatures

Month ID	Zone ID	Hour ID	Temperature	Relative Humidity
2	90030	14	36.1	50.5
2	90030	15	37.5	49.4
2	90030	16	38	49.1
2	90030	17	37.3	49.8
2	90030	18	35.3	51.9
2	90030	19	32.3	55.1
2	90030	20	30.3	58
2	90030	21	28.6	60.3
2	90030	22	27.2	61.9
2	90030	23	25.8	63.7
2	90030	24	24.8	64.9
3	90030	1	31.4	65.2
3	90030	2	30.4	66.8
3	90030	3	29.4	68.7
3	90030	4	28.6	69.5
3	90030	5	27.9	70.3
3	90030	6	27.1	71.7
3	90030	7	26.7	72
3	90030	8	28	70.6
3	90030	9	31.4	65.5
3	90030	10	35	59.4
3	90030	11	38.3	54.4
3	90030	12	41.3	50.7
3	90030	13	43.8	47.6
3	90030	14	45.4	46.1
3	90030	15	46.6	45
3	90030	16	46.9	44.5
3	90030	17	46.5	44.9
3	90030	18	44.7	46.6
3	90030	19	41.9	49.9
3	90030	20	39.2	53.6
3	90030	21	37.2	56.8
3	90030	22	35.5	59.5
3	90030	23	34.4	61.4
3	90030	24	33.2	63.6
4	90030	1	41.1	65.9
4	90030	2	40	67.7

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Table 5: MOVES Hartford County PM 2.5 Primary Design Temperatures

Month ID	Zone ID	Hour ID	Temperature	Relative Humidity
4	90030	3	38.9	69.5
4	90030	4	37.9	71.1
4	90030	5	37.2	72.2
4	90030	6	36.5	73.3
4	90030	7	37.1	73.1
4	90030	8	40.4	68
4	90030	9	44	61.7
4	90030	10	47.5	55.5
4	90030	11	50.7	50.7
4	90030	12	53.5	46.8
4	90030	13	55.6	44.4
4	90030	14	57.3	42.6
4	90030	15	58.2	41.8
4	90030	16	58.3	41.6
4	90030	17	57.7	42
4	90030	18	56.3	43.7
4	90030	19	53.8	46.7
4	90030	20	50.6	51.1
4	90030	21	48.2	54.7
4	90030	22	46.2	58.1
4	90030	23	44.5	60.7
4	90030	24	43	63.5
5	90030	1	51.3	73.7
5	90030	2	50.1	75.9
5	90030	3	49	78.1
5	90030	4	48	79.6
5	90030	5	47.2	81.1
5	90030	6	46.7	81.7
5	90030	7	49.2	78.5
5	90030	8	52.7	72.2
5	90030	9	56.4	65.2
5	90030	10	59.9	59.1
5	90030	11	63.1	54.2
5	90030	12	65.6	50.6
5	90030	13	67.6	47.9
5	90030	14	69.1	46
5	90030	15	70	45

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Table 5: MOVES Hartford County PM 2.5 Primary Design Temperatures

Month ID	Zone ID	Hour ID	Temperature	Relative Humidity
5	90030	16	69.9	44.8
5	90030	17	69.3	45.4
5	90030	18	67.9	47.1
5	90030	19	65.5	50
5	90030	20	62.2	55.1
5	90030	21	59	60.6
5	90030	22	56.8	64.3
5	90030	23	54.9	67.9
5	90030	24	53.3	70.9
6	90030	1	60.2	77.1
6	90030	2	59.1	79
6	90030	3	57.9	81.3
6	90030	4	56.8	83
6	90030	5	56	84.2
6	90030	6	55.9	84.8
6	90030	7	58.5	81.3
6	90030	8	62	75.3
6	90030	9	65.4	69.6
6	90030	10	68.8	64.1
6	90030	11	72	59
6	90030	12	74.5	55
6	90030	13	76.3	52
6	90030	14	77.8	49.8
6	90030	15	78.3	48.9
6	90030	16	78.3	48.9
6	90030	17	77.6	49.8
6	90030	18	76.2	51.6
6	90030	19	74.1	54.6
6	90030	20	71.1	59.3
6	90030	21	67.6	64.9
6	90030	22	65.3	69
6	90030	23	63.4	71.9
6	90030	24	62	74.2
7	90030	1	66	79.3
7	90030	2	64.7	81.5
7	90030	3	63.7	82.9
7	90030	4	62.7	84.6

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Table 5: MOVES Hartford County PM 2.5 Primary Design Temperatures

Month ID	Zone ID	Hour ID	Temperature	Relative Humidity
7	90030	5	61.9	85.8
7	90030	6	61.5	86.4
7	90030	7	63.7	83.5
7	90030	8	67.2	77.4
7	90030	9	70.6	71.4
7	90030	10	74	65.5
7	90030	11	77	60.7
7	90030	12	79.5	56.5
7	90030	13	81.3	53.5
7	90030	14	82.6	51.5
7	90030	15	83.3	50.5
7	90030	16	83.4	50.3
7	90030	17	82.6	51.5
7	90030	18	81.3	53.5
7	90030	19	79.1	57.1
7	90030	20	76.1	62.3
7	90030	21	72.7	68.4
7	90030	22	70.6	72.2
7	90030	23	68.8	74.8
7	90030	24	67.4	77.4
8	90030	1	64.1	81.7
8	90030	2	63.1	83.4
8	90030	3	61.9	85.2
8	90030	4	61.1	86.1
8	90030	5	60.2	87.3
8	90030	6	59.7	87.9
8	90030	7	60.6	86.6
8	90030	8	63.9	81.7
8	90030	9	67.6	75
8	90030	10	71.3	68.5
8	90030	11	74.5	62.8
8	90030	12	77.1	58.6
8	90030	13	79.3	54.7
8	90030	14	80.6	52.6
8	90030	15	81.3	51.4
8	90030	16	81.3	51.6
8	90030	17	80.4	52.6

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Table 5: MOVES Hartford County PM 2.5 Primary Design Temperatures

Month ID	Zone ID	Hour ID	Temperature	Relative Humidity
8	90030	18	79	55.1
8	90030	19	76.4	59.6
8	90030	20	72.7	66
8	90030	21	70	71.1
8	90030	22	68	74.5
8	90030	23	66.6	77.1
8	90030	24	65.3	79.5
9	90030	1	55.4	82.9
9	90030	2	54.3	84.4
9	90030	3	53.3	85.6
9	90030	4	52.4	86.5
9	90030	5	51.7	86.8
9	90030	6	51	87.7
9	90030	7	50.9	87.7
9	90030	8	54.1	83.8
9	90030	9	58.1	77.8
9	90030	10	62.2	70.8
9	90030	11	65.8	64.5
9	90030	12	68.9	59.4
9	90030	13	71.2	55.8
9	90030	14	72.6	53.6
9	90030	15	73.4	52.3
9	90030	16	73.1	52.7
9	90030	17	72.3	53.9
9	90030	18	70.2	57.3
9	90030	19	66.4	63.8
9	90030	20	62.9	70.6
9	90030	21	60.6	74.3
9	90030	22	58.9	77
9	90030	23	57.5	79.2
9	90030	24	56.1	81.1
10	90030	1	44	78.6
10	90030	2	43	79.8
10	90030	3	42	81
10	90030	4	41.1	81.9
10	90030	5	40.6	82.5
10	90030	6	39.8	82.8

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Table 5: MOVES Hartford County PM 2.5 Primary Design Temperatures

Month ID	Zone ID	Hour ID	Temperature	Relative Humidity
10	90030	7	39.4	83.4
10	90030	8	40.8	81.9
10	90030	9	45.3	75.4
10	90030	10	49.7	68
10	90030	11	53.9	61.3
10	90030	12	57.3	56.1
10	90030	13	59.9	52.3
10	90030	14	61.5	50
10	90030	15	62.4	48.8
10	90030	16	62.3	48.8
10	90030	17	60.8	50.6
10	90030	18	57.6	55.3
10	90030	19	53.9	61.8
10	90030	20	51.3	66.7
10	90030	21	49.4	69.6
10	90030	22	47.8	72.2
10	90030	23	46.2	74.9
10	90030	24	44.9	76.9
11	90030	1	36.2	72.1
11	90030	2	35.2	73.2
11	90030	3	34.5	74
11	90030	4	33.8	74.6
11	90030	5	33.1	75.5
11	90030	6	32.4	76
11	90030	7	31.9	76.3
11	90030	8	31.9	76.3
11	90030	9	35	73.2
11	90030	10	38.8	68.4
11	90030	11	42.8	62.8
11	90030	12	46.1	58.3
11	90030	13	48.7	55
11	90030	14	50.4	52.9
11	90030	15	51.1	52
11	90030	16	50.8	52.3
11	90030	17	48.5	54.8
11	90030	18	45.4	58.5
11	90030	19	43	62

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Table 5: MOVES Hartford County PM 2.5 Primary Design Temperatures

Month ID	Zone ID	Hour ID	Temperature	Relative Humidity
11	90030	20	41.1	64.6
11	90030	21	39.5	66.8
11	90030	22	38.5	68.1
11	90030	23	37.4	69.4
11	90030	24	36.6	70.7
12	90030	1	26.2	70.1
12	90030	2	25.4	70.9
12	90030	3	24.8	71.2
12	90030	4	24.2	72
12	90030	5	23.3	72.6
12	90030	6	22.7	73.1
12	90030	7	22.3	73.4
12	90030	8	22.1	73.4
12	90030	9	23.1	72.5
12	90030	10	27.1	69
12	90030	11	31	64.6
12	90030	12	34.3	60.6
12	90030	13	37.2	57.5
12	90030	14	39.1	55.4
12	90030	15	39.9	54.4
12	90030	16	39.7	54.6
12	90030	17	37.6	56.6
12	90030	18	34.5	59.8
12	90030	19	32.4	62.1
12	90030	20	30.8	63.8
12	90030	21	29.6	65.3
12	90030	22	28.5	66.6
12	90030	23	27.5	67.9
12	90030	24	26.7	69

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Table 6: MOVES Litchfield County PM 2.5 Primary Design Temperatures

Month ID	Zone ID	Hour ID	Temperature	Relative Humidity
1	90050	1	17.4	68.1
1	90050	2	16.5	68.6
1	90050	3	15.5	69.4
1	90050	4	14.6	70
1	90050	5	13.9	70.5
1	90050	6	13.4	70.8
1	90050	7	12.9	71.1
1	90050	8	12.7	71
1	90050	9	13.4	70.5
1	90050	10	16.7	68.3
1	90050	11	21.2	64.7
1	90050	12	25.4	61.4
1	90050	13	28.9	58.8
1	90050	14	31.5	57.2
1	90050	15	33.2	56.2
1	90050	16	33.4	55.7
1	90050	17	32.2	56.5
1	90050	18	29.4	58.8
1	90050	19	26.8	61.1
1	90050	20	24.7	63
1	90050	21	23	64.1
1	90050	22	21.4	65.4
1	90050	23	20.2	66.1
1	90050	24	18.8	67.1
2	90050	1	20.6	66.1
2	90050	2	19.5	67.2
2	90050	3	18.3	68.2
2	90050	4	17.3	69
2	90050	5	16.5	69.2
2	90050	6	15.7	69.8
2	90050	7	14.9	70.3
2	90050	8	14.5	70.6
2	90050	9	16.5	68.6
2	90050	10	20.4	64.6
2	90050	11	24.4	60.5
2	90050	12	28.2	57.2
2	90050	13	31.3	54.2

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Table 6: MOVES Litchfield County PM 2.5 Primary Design Temperatures

Month ID	Zone ID	Hour ID	Temperature	Relative Humidity
2	90050	14	33.9	52.1
2	90050	15	35.5	51
2	90050	16	36.1	50.5
2	90050	17	35.7	50.9
2	90050	18	33.5	52.7
2	90050	19	30.4	56
2	90050	20	28.2	58.7
2	90050	21	26.2	60.7
2	90050	22	24.6	62.4
2	90050	23	23.2	63.9
2	90050	24	21.8	65.1
3	90050	1	28.6	65.2
3	90050	2	27.6	66.7
3	90050	3	26.5	68.1
3	90050	4	25.5	69.4
3	90050	5	24.7	70.2
3	90050	6	24	71.1
3	90050	7	23.3	71.6
3	90050	8	24.5	70.8
3	90050	9	28.3	66
3	90050	10	32	60.5
3	90050	11	35.8	55.6
3	90050	12	39	52
3	90050	13	41.9	49.1
3	90050	14	43.8	47.4
3	90050	15	45.2	46.2
3	90050	16	45.5	45.7
3	90050	17	45.2	46
3	90050	18	43.3	47.7
3	90050	19	40.4	50.7
3	90050	20	37.5	54.3
3	90050	21	35.1	57.4
3	90050	22	33.4	59.7
3	90050	23	32	61.5
3	90050	24	30.6	63.5
4	90050	1	38.4	65.6
4	90050	2	37.1	67.3

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Table 6: MOVES Litchfield County PM 2.5 Primary Design Temperatures

Month ID	Zone ID	Hour ID	Temperature	Relative Humidity
4	90050	3	35.8	69.2
4	90050	4	34.9	70.5
4	90050	5	33.9	71.9
4	90050	6	33.1	73
4	90050	7	33.7	72.8
4	90050	8	37.1	68.8
4	90050	9	41	62.5
4	90050	10	44.9	57
4	90050	11	48.5	52.2
4	90050	12	51.5	48.6
4	90050	13	54	46.2
4	90050	14	55.9	44.3
4	90050	15	57	43.3
4	90050	16	57.2	43.1
4	90050	17	56.6	43.5
4	90050	18	55.1	44.9
4	90050	19	52.3	47.6
4	90050	20	49	51.7
4	90050	21	46.2	55.3
4	90050	22	44.1	58.5
4	90050	23	42.2	60.9
4	90050	24	40.5	63.5
5	90050	1	49.1	72.9
5	90050	2	47.8	75.4
5	90050	3	46.4	77.3
5	90050	4	45.4	78.8
5	90050	5	44.5	80.2
5	90050	6	43.9	81.1
5	90050	7	46.4	78.2
5	90050	8	50.2	72.5
5	90050	9	54.2	66
5	90050	10	58.1	60.2
5	90050	11	61.5	55.2
5	90050	12	64.3	51.6
5	90050	13	66.6	48.9
5	90050	14	68.1	47.1
5	90050	15	69.1	46

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Table 6: MOVES Litchfield County PM 2.5 Primary Design Temperatures

Month ID	Zone ID	Hour ID	Temperature	Relative Humidity
5	90050	16	69.1	45.9
5	90050	17	68.5	46.3
5	90050	18	66.9	48
5	90050	19	64.5	50.6
5	90050	20	61	55.1
5	90050	21	57.5	60.6
5	90050	22	54.9	64.3
5	90050	23	53	67.6
5	90050	24	51.2	70.6
6	90050	1	57.6	76.8
6	90050	2	56.3	78.8
6	90050	3	55	80.7
6	90050	4	54	82.2
6	90050	5	52.9	83.7
6	90050	6	52.8	84.3
6	90050	7	55.5	81.1
6	90050	8	59	75.6
6	90050	9	62.6	70
6	90050	10	66.2	64.8
6	90050	11	69.5	59.7
6	90050	12	72.3	55.7
6	90050	13	74.3	52.7
6	90050	14	75.7	50.6
6	90050	15	76.5	49.6
6	90050	16	76.6	49.5
6	90050	17	75.9	50.3
6	90050	18	74.4	51.9
6	90050	19	72.3	54.7
6	90050	20	69.1	59.2
6	90050	21	65.3	64.9
6	90050	22	62.9	68.8
6	90050	23	60.9	71.7
6	90050	24	59.3	74.2
7	90050	1	62.9	78.7
7	90050	2	61.6	80.6
7	90050	3	60.3	82.6
7	90050	4	59.3	83.8

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Table 6: MOVES Litchfield County PM 2.5 Primary Design Temperatures

Month ID	Zone ID	Hour ID	Temperature	Relative Humidity
7	90050	5	58.4	85.3
7	90050	6	58	85.9
7	90050	7	60.1	83.5
7	90050	8	63.7	77.9
7	90050	9	67.4	72.1
7	90050	10	71.2	66.1
7	90050	11	74.4	61.3
7	90050	12	77.2	57
7	90050	13	79.2	53.9
7	90050	14	80.6	51.9
7	90050	15	81.3	50.9
7	90050	16	81.3	50.9
7	90050	17	80.6	51.9
7	90050	18	79.2	53.7
7	90050	19	77	57
7	90050	20	73.9	61.8
7	90050	21	70.2	67.9
7	90050	22	67.9	71.6
7	90050	23	66	74.3
7	90050	24	64.4	76.9
8	90050	1	61.2	81.5
8	90050	2	60	83.2
8	90050	3	58.9	84.4
8	90050	4	57.9	85.9
8	90050	5	57	86.8
8	90050	6	56.3	87.4
8	90050	7	57.2	86.8
8	90050	8	60.6	82.1
8	90050	9	64.6	75.5
8	90050	10	68.4	69.2
8	90050	11	72	63.6
8	90050	12	74.9	59.2
8	90050	13	77.2	55.4
8	90050	14	78.6	53.3
8	90050	15	79.3	52.3
8	90050	16	79.3	52.3
8	90050	17	78.4	53.3

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Table 6: MOVES Litchfield County PM 2.5 Primary Design Temperatures

Month ID	Zone ID	Hour ID	Temperature	Relative Humidity
8	90050	18	76.9	55.4
8	90050	19	74.3	59.5
8	90050	20	70.4	66
8	90050	21	67.4	70.8
8	90050	22	65.4	74.3
8	90050	23	63.7	77.1
8	90050	24	62.3	79.3
9	90050	1	53.2	82.4
9	90050	2	52.2	83.3
9	90050	3	51.1	84.8
9	90050	4	50.2	85.7
9	90050	5	49.4	86.3
9	90050	6	48.7	87
9	90050	7	48.4	87.3
9	90050	8	51.4	84.2
9	90050	9	55.4	78.4
9	90050	10	59.7	71.8
9	90050	11	63.4	65.6
9	90050	12	66.5	60.7
9	90050	13	68.9	57.1
9	90050	14	70.6	54.5
9	90050	15	71.5	53.2
9	90050	16	71.3	53.4
9	90050	17	70.4	54.6
9	90050	18	68.3	57.6
9	90050	19	64.4	64.1
9	90050	20	60.8	70.4
9	90050	21	58.7	73.6
9	90050	22	56.9	76.2
9	90050	23	55.3	78.7
9	90050	24	53.9	80.7
10	90050	1	42.1	77.5
10	90050	2	41	79
10	90050	3	39.9	80.2
10	90050	4	39.1	81.1
10	90050	5	38.4	81.7
10	90050	6	37.6	82.3

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Table 6: MOVES Litchfield County PM 2.5 Primary Design Temperatures

Month ID	Zone ID	Hour ID	Temperature	Relative Humidity
10	90050	7	37.1	82.9
10	90050	8	38.5	81.4
10	90050	9	42.9	76.1
10	90050	10	47.4	69.1
10	90050	11	51.5	62.9
10	90050	12	55.1	58
10	90050	13	57.9	54
10	90050	14	59.8	51.5
10	90050	15	60.7	50.2
10	90050	16	60.7	49.9
10	90050	17	59.3	51.6
10	90050	18	56	55.9
10	90050	19	52.1	62
10	90050	20	49.6	66.2
10	90050	21	47.6	69.4
10	90050	22	45.9	72
10	90050	23	44.3	74.1
10	90050	24	42.9	76.1
11	90050	1	33.7	71.9
11	90050	2	32.7	72.6
11	90050	3	32	73.5
11	90050	4	31.2	74
11	90050	5	30.4	74.9
11	90050	6	29.8	75.1
11	90050	7	29	76
11	90050	8	29	76
11	90050	9	32	73.5
11	90050	10	36.1	68.9
11	90050	11	40.2	64
11	90050	12	43.8	59.7
11	90050	13	46.5	56.8
11	90050	14	48.3	54.8
11	90050	15	49.3	53.6
11	90050	16	48.9	53.8
11	90050	17	46.9	55.7
11	90050	18	43.6	58.9
11	90050	19	41	62.3

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Table 6: MOVES Litchfield County PM 2.5 Primary Design Temperatures

Month ID	Zone ID	Hour ID	Temperature	Relative Humidity
11	90050	20	39.1	64.6
11	90050	21	37.5	66.6
11	90050	22	36.3	67.8
11	90050	23	35.1	69.1
11	90050	24	34.1	70.1
12	90050	1	23.6	70.1
12	90050	2	22.7	70.9
12	90050	3	22	71.5
12	90050	4	21.3	72
12	90050	5	20.4	72.5
12	90050	6	19.9	72.8
12	90050	7	19.2	73.4
12	90050	8	19.2	73.1
12	90050	9	20.1	72.2
12	90050	10	23.9	69.5
12	90050	11	28.1	65.4
12	90050	12	31.8	61.5
12	90050	13	34.6	59.1
12	90050	14	36.7	57.2
12	90050	15	37.9	55.9
12	90050	16	37.9	55.9
12	90050	17	35.8	57.5
12	90050	18	32.5	60.6
12	90050	19	30.4	62.7
12	90050	20	28.8	64.3
12	90050	21	27.4	65.6
12	90050	22	26.2	66.8
12	90050	23	25	67.9
12	90050	24	24.1	68.9

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Table 7: MOVES Middlesex County PM 2.5 Primary Design Temperatures

Month ID	Zone ID	Hour ID	Temperature	Relative Humidity
1	90070	1	22.6	68.2
1	90070	2	21.6	68.9
1	90070	3	20.8	69.8
1	90070	4	20.2	70
1	90070	5	19.6	70.6
1	90070	6	19.2	70.8
1	90070	7	18.8	71.1
1	90070	8	18.8	70.8
1	90070	9	19.6	70.6
1	90070	10	23	67.3
1	90070	11	26.9	63.5
1	90070	12	30.5	60
1	90070	13	33.4	57.2
1	90070	14	35.4	55.8
1	90070	15	36.4	55
1	90070	16	36.6	54.8
1	90070	17	35	56.2
1	90070	18	32.4	59
1	90070	19	30.3	61.3
1	90070	20	28.3	63.5
1	90070	21	26.9	64.7
1	90070	22	25.7	65.6
1	90070	23	24.7	66.4
1	90070	24	23.5	67.4
2	90070	1	25.3	67
2	90070	2	24.3	68.1
2	90070	3	23.6	68.6
2	90070	4	22.9	69.1
2	90070	5	22.1	69.9
2	90070	6	21.5	70.2
2	90070	7	20.9	70.7
2	90070	8	20.7	70.7
2	90070	9	22.7	68.5
2	90070	10	26.3	64.3
2	90070	11	29.8	59.7
2	90070	12	32.9	56.1
2	90070	13	35.4	53.5

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Table 7: MOVES Middlesex County PM 2.5 Primary Design Temperatures

Month ID	Zone ID	Hour ID	Temperature	Relative Humidity
2	90070	14	37.3	51.8
2	90070	15	38.5	50.6
2	90070	16	38.8	50.5
2	90070	17	38.1	51.2
2	90070	18	36.1	53.4
2	90070	19	33.2	56.9
2	90070	20	31.4	59.6
2	90070	21	29.8	61.8
2	90070	22	28.7	63.2
2	90070	23	27.5	64.4
2	90070	24	26.3	66.3
3	90070	1	32.8	66.8
3	90070	2	31.8	68.4
3	90070	3	31.1	69.5
3	90070	4	30.3	70.6
3	90070	5	29.6	71.4
3	90070	6	29	72.6
3	90070	7	28.6	72.8
3	90070	8	29.9	71.4
3	90070	9	33.3	66
3	90070	10	36.6	60.4
3	90070	11	39.8	55.5
3	90070	12	42.5	51.9
3	90070	13	44.7	49.1
3	90070	14	46.2	47.8
3	90070	15	47.1	46.9
3	90070	16	47.2	46.6
3	90070	17	46.6	47.3
3	90070	18	44.9	49.2
3	90070	19	42.1	52.7
3	90070	20	39.6	56.7
3	90070	21	37.9	59.3
3	90070	22	36.6	61.7
3	90070	23	35.4	63.6
3	90070	24	34.3	65.6
4	90070	1	41.9	68.2
4	90070	2	40.9	69.8

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Table 7: MOVES Middlesex County PM 2.5 Primary Design Temperatures

Month ID	Zone ID	Hour ID	Temperature	Relative Humidity
4	90070	3	39.9	71.1
4	90070	4	39.1	72.4
4	90070	5	38.4	73.2
4	90070	6	37.7	74.7
4	90070	7	38.4	74.1
4	90070	8	41.6	69.3
4	90070	9	45	63
4	90070	10	48.4	57
4	90070	11	51.3	52.2
4	90070	12	53.9	49
4	90070	13	55.7	46.8
4	90070	14	57.1	45
4	90070	15	57.8	44.4
4	90070	16	57.8	44.4
4	90070	17	57	45.4
4	90070	18	55.6	47
4	90070	19	53	50.4
4	90070	20	49.9	55
4	90070	21	47.8	58.8
4	90070	22	46.3	61.7
4	90070	23	44.7	64
4	90070	24	43.5	66.2
5	90070	1	51.6	75.4
5	90070	2	50.6	77.1
5	90070	3	49.5	79.1
5	90070	4	48.8	80.6
5	90070	5	48.1	81.5
5	90070	6	47.7	82.4
5	90070	7	50.1	79.1
5	90070	8	53.6	72.5
5	90070	9	57.2	65.6
5	90070	10	60.5	59.9
5	90070	11	63.3	55.3
5	90070	12	65.6	52
5	90070	13	67.3	49.7
5	90070	14	68.3	48.4
5	90070	15	69	47.6

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Table 7: MOVES Middlesex County PM 2.5 Primary Design Temperatures

Month ID	Zone ID	Hour ID	Temperature	Relative Humidity
5	90070	16	68.6	47.9
5	90070	17	67.9	48.5
5	90070	18	66.5	50.4
5	90070	19	64.1	53.5
5	90070	20	61	58.6
5	90070	21	58.1	64
5	90070	22	56.1	67.7
5	90070	23	54.5	70.7
5	90070	24	53.2	73.3
6	90070	1	60.7	78.8
6	90070	2	59.5	80.8
6	90070	3	58.5	82.2
6	90070	4	57.6	83.7
6	90070	5	56.9	84.6
6	90070	6	56.8	85.2
6	90070	7	59.5	81.4
6	90070	8	62.8	75.6
6	90070	9	66.3	69.7
6	90070	10	69.3	64.7
6	90070	11	72.3	60.1
6	90070	12	74.5	56.4
6	90070	13	76.1	54.1
6	90070	14	77.2	52.3
6	90070	15	77.6	51.6
6	90070	16	77.5	51.8
6	90070	17	76.7	52.8
6	90070	18	75.2	54.7
6	90070	19	73.1	58.1
6	90070	20	70	62.9
6	90070	21	66.9	68.2
6	90070	22	64.8	72.1
6	90070	23	63.3	74.3
6	90070	24	62	76.7
7	90070	1	66.5	80.7
7	90070	2	65.5	82.4
7	90070	3	64.6	83.8
7	90070	4	63.6	85

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Table 7: MOVES Middlesex County PM 2.5 Primary Design Temperatures

Month ID	Zone ID	Hour ID	Temperature	Relative Humidity
7	90070	5	62.9	86.1
7	90070	6	62.6	86.8
7	90070	7	64.8	83.5
7	90070	8	68.1	77.8
7	90070	9	71.5	71.7
7	90070	10	74.8	65.8
7	90070	11	77.4	61.4
7	90070	12	79.7	57.7
7	90070	13	81.2	55.4
7	90070	14	82.3	53.6
7	90070	15	82.8	53
7	90070	16	82.8	53.1
7	90070	17	82	54.3
7	90070	18	80.6	56.7
7	90070	19	78.5	60.1
7	90070	20	75.5	65.6
7	90070	21	72.3	71.3
7	90070	22	70.5	74.7
7	90070	23	69	77
7	90070	24	67.8	79.1
8	90070	1	65.1	83
8	90070	2	64.2	84.4
8	90070	3	63.3	85.6
8	90070	4	62.5	86.4
8	90070	5	61.8	87
8	90070	6	61.2	87.9
8	90070	7	62.2	86.7
8	90070	8	65.5	81.5
8	90070	9	69.1	74.9
8	90070	10	72.5	68.6
8	90070	11	75.3	63.4
8	90070	12	77.7	59.5
8	90070	13	79.3	56.5
8	90070	14	80.5	54.7
8	90070	15	80.9	54
8	90070	16	80.8	54.4
8	90070	17	79.9	55.6

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Table 7: MOVES Middlesex County PM 2.5 Primary Design Temperatures

Month ID	Zone ID	Hour ID	Temperature	Relative Humidity
8	90070	18	78.3	58.2
8	90070	19	75.8	62.8
8	90070	20	72.6	68.6
8	90070	21	70.1	73.4
8	90070	22	68.5	76.7
8	90070	23	67.2	79.1
8	90070	24	66	81
9	90070	1	57.2	83
9	90070	2	56.2	84.2
9	90070	3	55.4	85.4
9	90070	4	54.6	86.3
9	90070	5	53.9	86.9
9	90070	6	53.3	87.2
9	90070	7	53.2	87.5
9	90070	8	56.3	83.6
9	90070	9	60.3	77.1
9	90070	10	64	70.4
9	90070	11	67.1	64.6
9	90070	12	69.7	60
9	90070	13	71.5	57.2
9	90070	14	72.8	55.2
9	90070	15	73.3	54.5
9	90070	16	72.9	54.8
9	90070	17	71.9	56.5
9	90070	18	69.9	59.8
9	90070	19	66.5	66.2
9	90070	20	63.3	72.5
9	90070	21	61.4	76.1
9	90070	22	60	77.9
9	90070	23	58.8	80.1
9	90070	24	57.7	81.5
10	90070	1	45.9	79.1
10	90070	2	45.1	80
10	90070	3	44.3	80.8
10	90070	4	43.4	82.1
10	90070	5	42.9	82.3
10	90070	6	42.3	82.9

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Table 7: MOVES Middlesex County PM 2.5 Primary Design Temperatures

Month ID	Zone ID	Hour ID	Temperature	Relative Humidity
10	90070	7	41.9	83.2
10	90070	8	43.6	81.4
10	90070	9	48	75.1
10	90070	10	52.1	67.5
10	90070	11	55.6	61.3
10	90070	12	58.5	56.7
10	90070	13	60.6	53.4
10	90070	14	61.8	51.6
10	90070	15	62.5	50.5
10	90070	16	62.2	50.9
10	90070	17	60.7	53
10	90070	18	57.7	57.9
10	90070	19	54.3	64
10	90070	20	52.1	68.3
10	90070	21	50.5	71.4
10	90070	22	49.1	73.8
10	90070	23	47.7	75.9
10	90070	24	46.6	77.3
11	90070	1	37.7	72.9
11	90070	2	36.9	73.7
11	90070	3	36.2	74.5
11	90070	4	35.5	75.4
11	90070	5	35	75.6
11	90070	6	34.5	76.2
11	90070	7	34	76.5
11	90070	8	34	76.5
11	90070	9	37.1	73.7
11	90070	10	41	68.4
11	90070	11	44.7	63
11	90070	12	47.6	59
11	90070	13	49.8	56.1
11	90070	14	51.3	54.1
11	90070	15	51.8	53.3
11	90070	16	51.3	53.7
11	90070	17	49.3	56.2
11	90070	18	46.2	60
11	90070	19	44	63.4

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Table 7: MOVES Middlesex County PM 2.5 Primary Design Temperatures

Month ID	Zone ID	Hour ID	Temperature	Relative Humidity
11	90070	20	42.1	65.8
11	90070	21	40.8	67.8
11	90070	22	39.8	69.1
11	90070	23	38.9	70.1
11	90070	24	38.1	71.2
12	90070	1	28.1	70.6
12	90070	2	27.5	71.2
12	90070	3	26.9	71.4
12	90070	4	26.3	72.3
12	90070	5	25.7	72.8
12	90070	6	25.3	72.8
12	90070	7	24.9	73.4
12	90070	8	24.7	73.3
12	90070	9	25.7	72.5
12	90070	10	29.5	69
12	90070	11	33.3	64.4
12	90070	12	36.5	60.4
12	90070	13	39.1	57.5
12	90070	14	40.5	56.1
12	90070	15	41.3	55.1
12	90070	16	40.9	55.5
12	90070	17	38.9	57.3
12	90070	18	36.1	60.6
12	90070	19	34.1	62.9
12	90070	20	32.5	64.6
12	90070	21	31.3	66.1
12	90070	22	30.3	67.4
12	90070	23	29.5	68.1
12	90070	24	28.7	69.2

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Table 8: MOVES New Haven County PM 2.5 Primary Design Temperatures

Month ID	Zone ID	Hour ID	Temperature	Relative Humidity
1	90090	1	22	67.2
1	90090	2	21	68.3
1	90090	3	20.3	68.8
1	90090	4	19.7	69
1	90090	5	19.1	69.6
1	90090	6	18.4	70.1
1	90090	7	18	70.4
1	90090	8	17.8	70.7
1	90090	9	18.6	70.1
1	90090	10	21.6	67.4
1	90090	11	25.4	64.2
1	90090	12	29	60.9
1	90090	13	31.9	58.5
1	90090	14	34	56.8
1	90090	15	35.3	56
1	90090	16	35.5	55.6
1	90090	17	34.4	56.6
1	90090	18	32.1	58.7
1	90090	19	29.8	61
1	90090	20	28.1	62.3
1	90090	21	26.6	63.8
1	90090	22	25.4	64.7
1	90090	23	24.3	65.4
1	90090	24	23.3	66.2
2	90090	1	24.5	65.8
2	90090	2	23.4	67.1
2	90090	3	22.5	67.9
2	90090	4	21.6	68.6
2	90090	5	20.9	69.2
2	90090	6	20.2	69.7
2	90090	7	19.7	69.9
2	90090	8	19.3	70.2
2	90090	9	21.3	67.7
2	90090	10	24.5	64
2	90090	11	27.9	60.2
2	90090	12	30.9	57.1
2	90090	13	33.8	54.1

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Table 8: MOVES New Haven County PM 2.5 Primary Design Temperatures

Month ID	Zone ID	Hour ID	Temperature	Relative Humidity
2	90090	14	35.7	52.4
2	90090	15	37.2	51.1
2	90090	16	37.7	50.7
2	90090	17	37.2	51.3
2	90090	18	35.2	53.4
2	90090	19	32.5	56.6
2	90090	20	30.7	59
2	90090	21	29.1	60.9
2	90090	22	27.9	62.3
2	90090	23	26.6	63.8
2	90090	24	25.6	65
3	90090	1	32.5	65.4
3	90090	2	31.6	66.9
3	90090	3	30.7	68.3
3	90090	4	29.9	69.3
3	90090	5	29.2	70.1
3	90090	6	28.6	71
3	90090	7	28	71.5
3	90090	8	29.2	70.1
3	90090	9	32.2	65.6
3	90090	10	35.3	60.7
3	90090	11	38.5	55.8
3	90090	12	41.3	52.2
3	90090	13	43.6	49.4
3	90090	14	45.2	47.6
3	90090	15	46.3	46.8
3	90090	16	46.7	46.1
3	90090	17	46.1	46.8
3	90090	18	44.6	48.3
3	90090	19	42.1	51.6
3	90090	20	39.7	55
3	90090	21	37.9	57.8
3	90090	22	36.5	59.9
3	90090	23	35.3	61.7
3	90090	24	34.1	64
4	90090	1	41.6	66
4	90090	2	40.6	67.5

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Table 8: MOVES New Haven County PM 2.5 Primary Design Temperatures

Month ID	Zone ID	Hour ID	Temperature	Relative Humidity
4	90090	3	39.4	69.3
4	90090	4	38.6	70.6
4	90090	5	37.8	71.7
4	90090	6	37.1	72.8
4	90090	7	37.5	72.6
4	90090	8	40.6	68.3
4	90090	9	43.9	62.4
4	90090	10	47.1	57.1
4	90090	11	50.2	52.7
4	90090	12	52.8	49.2
4	90090	13	54.8	46.9
4	90090	14	56.4	45.1
4	90090	15	57.5	44
4	90090	16	57.6	43.9
4	90090	17	56.9	44.5
4	90090	18	55.6	45.9
4	90090	19	53.2	48.7
4	90090	20	50.2	52.9
4	90090	21	48	56.3
4	90090	22	46.3	59.3
4	90090	23	44.7	61.7
4	90090	24	43.4	63.9
5	90090	1	51.7	72.9
5	90090	2	50.5	75
5	90090	3	49.4	77
5	90090	4	48.6	78.1
5	90090	5	47.8	79.6
5	90090	6	47.3	80.5
5	90090	7	49.3	78.2
5	90090	8	52.5	72.1
5	90090	9	56	66
5	90090	10	59.2	60.6
5	90090	11	62	56.1
5	90090	12	64.5	52.4
5	90090	13	66.4	49.8
5	90090	14	67.7	48
5	90090	15	68.5	47.2

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Table 8: MOVES New Haven County PM 2.5 Primary Design Temperatures

Month ID	Zone ID	Hour ID	Temperature	Relative Humidity
5	90090	16	68.4	47
5	90090	17	67.7	47.8
5	90090	18	66.4	49.2
5	90090	19	64.2	52.1
5	90090	20	61.2	56.9
5	90090	21	58.4	61.6
5	90090	22	56.4	65.2
5	90090	23	54.8	68.1
5	90090	24	53.4	70.6
6	90090	1	60.9	76
6	90090	2	59.7	77.9
6	90090	3	58.6	79.8
6	90090	4	57.7	81.2
6	90090	5	56.9	82.7
6	90090	6	56.6	83.3
6	90090	7	59	80.2
6	90090	8	62	75
6	90090	9	65.2	69.8
6	90090	10	68.5	64.6
6	90090	11	71.4	59.8
6	90090	12	73.9	55.9
6	90090	13	75.6	53.2
6	90090	14	77	51.4
6	90090	15	77.5	50.5
6	90090	16	77.5	50.5
6	90090	17	76.7	51.5
6	90090	18	75.3	53.2
6	90090	19	73.5	55.9
6	90090	20	70.6	60.1
6	90090	21	67.5	65.4
6	90090	22	65.4	69.1
6	90090	23	63.7	71.4
6	90090	24	62.4	73.4
7	90090	1	66.8	77.7
7	90090	2	65.6	79.8
7	90090	3	64.5	81.5
7	90090	4	63.6	82.9

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Table 8: MOVES New Haven County PM 2.5 Primary Design Temperatures

Month ID	Zone ID	Hour ID	Temperature	Relative Humidity
7	90090	5	62.8	84
7	90090	6	62.4	84.6
7	90090	7	64.4	82
7	90090	8	67.5	76.9
7	90090	9	70.7	71.4
7	90090	10	73.9	65.9
7	90090	11	76.7	61.6
7	90090	12	79.3	57.5
7	90090	13	81	54.6
7	90090	14	82.2	52.9
7	90090	15	82.9	51.7
7	90090	16	82.9	51.7
7	90090	17	82.2	52.9
7	90090	18	80.9	54.8
7	90090	19	78.9	57.8
7	90090	20	76.1	62.6
7	90090	21	73	67.9
7	90090	22	71.1	71.4
7	90090	23	69.5	73.9
7	90090	24	68.2	76.1
8	90090	1	65.1	80.6
8	90090	2	64.2	82
8	90090	3	63.1	83.4
8	90090	4	62.3	84.6
8	90090	5	61.6	85.5
8	90090	6	60.9	86.3
8	90090	7	61.7	85.5
8	90090	8	64.7	80.9
8	90090	9	68.1	74.8
8	90090	10	71.4	68.7
8	90090	11	74.5	63.7
8	90090	12	76.8	59.6
8	90090	13	78.8	56.2
8	90090	14	80.1	54.1
8	90090	15	80.8	53
8	90090	16	80.8	53
8	90090	17	79.9	54.2

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Table 8: MOVES New Haven County PM 2.5 Primary Design Temperatures

Month ID	Zone ID	Hour ID	Temperature	Relative Humidity
8	90090	18	78.4	56.6
8	90090	19	76.2	60.4
8	90090	20	72.9	66.3
8	90090	21	70.4	70.9
8	90090	22	68.8	73.8
8	90090	23	67.4	76.6
8	90090	24	66.2	78.4
9	90090	1	57.3	80.9
9	90090	2	56.2	82.3
9	90090	3	55.3	83.5
9	90090	4	54.5	84.4
9	90090	5	53.8	85
9	90090	6	53.1	85.9
9	90090	7	52.8	86.2
9	90090	8	55.6	82.6
9	90090	9	59.2	77
9	90090	10	62.9	70.8
9	90090	11	66.1	65.2
9	90090	12	68.9	60.5
9	90090	13	71	57.2
9	90090	14	72.3	55.1
9	90090	15	73.1	53.8
9	90090	16	73	53.8
9	90090	17	72	55.5
9	90090	18	70.2	58.3
9	90090	19	66.8	64.1
9	90090	20	63.9	69.7
9	90090	21	61.9	73.1
9	90090	22	60.4	75.4
9	90090	23	59.1	77.6
9	90090	24	57.8	79.5
10	90090	1	45.7	77
10	90090	2	44.8	78.1
10	90090	3	44	78.9
10	90090	4	43.1	80.1
10	90090	5	42.3	80.7
10	90090	6	41.7	81.3

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Table 8: MOVES New Haven County PM 2.5 Primary Design Temperatures

Month ID	Zone ID	Hour ID	Temperature	Relative Humidity
10	90090	7	41.3	81.6
10	90090	8	42.6	80.1
10	90090	9	46.6	74.7
10	90090	10	50.6	68.4
10	90090	11	54.3	62.5
10	90090	12	57.4	57.9
10	90090	13	59.8	54.3
10	90090	14	61.4	52.1
10	90090	15	62.3	50.9
10	90090	16	62.2	50.7
10	90090	17	60.8	52.4
10	90090	18	58	56.6
10	90090	19	54.6	62.3
10	90090	20	52.4	66.3
10	90090	21	50.6	69.2
10	90090	22	49.1	71.5
10	90090	23	47.8	73.3
10	90090	24	46.6	75
11	90090	1	37	71
11	90090	2	36.1	72.1
11	90090	3	35.4	72.9
11	90090	4	34.4	73.7
11	90090	5	33.7	74.3
11	90090	6	33.2	74.8
11	90090	7	32.6	75.4
11	90090	8	32.6	75.4
11	90090	9	35.4	72.6
11	90090	10	39.3	68.2
11	90090	11	43	63.3
11	90090	12	46.1	59.3
11	90090	13	48.5	56.6
11	90090	14	50.2	54.6
11	90090	15	50.9	53.6
11	90090	16	50.7	53.6
11	90090	17	48.7	55.7
11	90090	18	45.7	59
11	90090	19	43.5	62.1

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Table 8: MOVES New Haven County PM 2.5 Primary Design Temperatures

Month ID	Zone ID	Hour ID	Temperature	Relative Humidity
11	90090	20	41.8	64.2
11	90090	21	40.4	66.1
11	90090	22	39.3	67.3
11	90090	23	38.3	68.3
11	90090	24	37.4	69.6
12	90090	1	27.4	69.3
12	90090	2	26.8	69.9
12	90090	3	25.9	70.7
12	90090	4	25.2	71.2
12	90090	5	24.6	71.8
12	90090	6	23.9	72
12	90090	7	23.5	72.6
12	90090	8	23.5	72.3
12	90090	9	24.4	71.4
12	90090	10	27.9	68.5
12	90090	11	31.6	64.7
12	90090	12	34.6	61.1
12	90090	13	37.3	58.7
12	90090	14	39.2	56.8
12	90090	15	40.1	55.8
12	90090	16	40.1	55.8
12	90090	17	38.1	57.6
12	90090	18	35.5	60.2
12	90090	19	33.5	62.3
12	90090	20	32	63.7
12	90090	21	30.9	64.9
12	90090	22	29.8	66.2
12	90090	23	28.7	67.4
12	90090	24	27.9	68.2

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Table 9: MOVES New London County PM 2.5 Primary Design Temperatures

Month ID	Zone ID	Hour ID	Temperature	Relative Humidity
1	90110	1	22.9	68.2
1	90110	2	21.9	69
1	90110	3	21.3	69.2
1	90110	4	20.6	69.7
1	90110	5	20.2	70
1	90110	6	19.6	70.6
1	90110	7	19.2	71.1
1	90110	8	19	71.1
1	90110	9	20	70.3
1	90110	10	23.5	67.1
1	90110	11	27.6	63.1
1	90110	12	31.3	59.4
1	90110	13	34.3	56.8
1	90110	14	36.2	55.2
1	90110	15	37.4	54.2
1	90110	16	37.4	54.5
1	90110	17	35.8	55.9
1	90110	18	32.9	58.8
1	90110	19	30.7	61.4
1	90110	20	28.8	63.5
1	90110	21	27.4	64.7
1	90110	22	26	65.7
1	90110	23	25.1	66.4
1	90110	24	24.1	67.2
2	90110	1	25.4	66.7
2	90110	2	24.4	67.8
2	90110	3	23.6	68.6
2	90110	4	22.9	69.1
2	90110	5	22.2	69.6
2	90110	6	21.5	70.2
2	90110	7	20.9	70.7
2	90110	8	20.7	71
2	90110	9	22.9	68.2
2	90110	10	26.6	63.8
2	90110	11	30.2	59.2
2	90110	12	33.4	55.7
2	90110	13	35.9	53.1

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Table 9: MOVES New London County PM 2.5 Primary Design Temperatures

Month ID	Zone ID	Hour ID	Temperature	Relative Humidity
2	90110	14	37.8	51.2
2	90110	15	39.1	49.9
2	90110	16	39.3	49.9
2	90110	17	38.5	50.6
2	90110	18	36.3	53.2
2	90110	19	33.4	56.9
2	90110	20	31.4	59.6
2	90110	21	29.8	61.5
2	90110	22	28.6	63.2
2	90110	23	27.3	65
2	90110	24	26.3	66.3
3	90110	1	32.6	66.8
3	90110	2	31.7	68.1
3	90110	3	31	69.2
3	90110	4	30.3	70.3
3	90110	5	29.5	71.1
3	90110	6	28.9	72.2
3	90110	7	28.5	72.5
3	90110	8	30	70.8
3	90110	9	33.3	65.5
3	90110	10	36.9	59.7
3	90110	11	40.1	54.9
3	90110	12	42.9	51.3
3	90110	13	45.1	48.6
3	90110	14	46.5	47
3	90110	15	47.3	46.4
3	90110	16	47.4	46.2
3	90110	17	46.7	47.1
3	90110	18	44.9	48.8
3	90110	19	42.1	52.3
3	90110	20	39.6	56.2
3	90110	21	37.7	59.3
3	90110	22	36.3	61.9
3	90110	23	35.1	63.8
3	90110	24	34.1	65.3
4	90110	1	41.6	67.6
4	90110	2	40.6	69.2

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Table 9: MOVES New London County PM 2.5 Primary Design Temperatures

Month ID	Zone ID	Hour ID	Temperature	Relative Humidity
4	90110	3	39.7	70.7
4	90110	4	38.7	72.4
4	90110	5	38.1	72.9
4	90110	6	37.6	74.1
4	90110	7	38.1	73.5
4	90110	8	41.4	68.7
4	90110	9	44.9	62.3
4	90110	10	48.3	56.1
4	90110	11	51.1	51.6
4	90110	12	53.6	48.2
4	90110	13	55.4	46.2
4	90110	14	56.6	44.6
4	90110	15	57.3	44
4	90110	16	57.3	43.8
4	90110	17	56.3	44.9
4	90110	18	55	46.5
4	90110	19	52.4	49.9
4	90110	20	49.4	54.5
4	90110	21	47.3	58.3
4	90110	22	45.7	61.4
4	90110	23	44.2	63.7
4	90110	24	42.9	65.9
5	90110	1	51	75.4
5	90110	2	50	77.3
5	90110	3	49.1	79.1
5	90110	4	48.3	80.2
5	90110	5	47.7	81.4
5	90110	6	47.4	81.7
5	90110	7	49.6	78.8
5	90110	8	53.1	72.5
5	90110	9	56.8	65.3
5	90110	10	60	59.6
5	90110	11	62.8	55
5	90110	12	65	51.7
5	90110	13	66.6	49.6
5	90110	14	67.7	48
5	90110	15	68.1	47.7

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Table 9: MOVES New London County PM 2.5 Primary Design Temperatures

Month ID	Zone ID	Hour ID	Temperature	Relative Humidity
5	90110	16	67.8	47.8
5	90110	17	67.2	48.2
5	90110	18	65.7	50.2
5	90110	19	63.3	53.4
5	90110	20	60.3	58.5
5	90110	21	57.3	63.9
5	90110	22	55.4	67.4
5	90110	23	53.8	70.6
5	90110	24	52.5	73.3
6	90110	1	59.6	79
6	90110	2	58.6	80.7
6	90110	3	57.7	82.2
6	90110	4	56.9	83.3
6	90110	5	56.3	84.2
6	90110	6	56.3	84.5
6	90110	7	58.7	81
6	90110	8	62.1	75.3
6	90110	9	65.6	69.3
6	90110	10	68.7	64.1
6	90110	11	71.4	59.6
6	90110	12	73.5	56.1
6	90110	13	75.1	53.7
6	90110	14	76.2	52
6	90110	15	76.5	51.3
6	90110	16	76.4	51.5
6	90110	17	75.5	52.6
6	90110	18	74.1	54.6
6	90110	19	71.9	57.9
6	90110	20	68.9	62.8
6	90110	21	65.8	68.4
6	90110	22	63.9	71.7
6	90110	23	62.3	74.2
6	90110	24	61.1	76.6
7	90110	1	65.9	81
7	90110	2	65	82.4
7	90110	3	64.1	83.8
7	90110	4	63.3	84.9

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Table 9: MOVES New London County PM 2.5 Primary Design Temperatures

Month ID	Zone ID	Hour ID	Temperature	Relative Humidity
7	90110	5	62.6	86.1
7	90110	6	62.4	86.4
7	90110	7	64.5	83.2
7	90110	8	67.7	77.5
7	90110	9	71.1	71.4
7	90110	10	74.2	65.5
7	90110	11	76.8	60.9
7	90110	12	78.9	57.2
7	90110	13	80.4	54.9
7	90110	14	81.4	53.3
7	90110	15	81.9	52.5
7	90110	16	81.8	52.8
7	90110	17	81.2	53.8
7	90110	18	79.7	56.3
7	90110	19	77.7	59.8
7	90110	20	74.7	65.1
7	90110	21	71.6	71
7	90110	22	69.7	74.9
7	90110	23	68.4	77
7	90110	24	67.1	79.1
8	90110	1	64.8	82.9
8	90110	2	63.9	84.4
8	90110	3	63.2	85.2
8	90110	4	62.4	86.4
8	90110	5	61.8	87
8	90110	6	61.2	87.9
8	90110	7	62.3	86.1
8	90110	8	65.4	81.2
8	90110	9	69	74.6
8	90110	10	72.4	68.1
8	90110	11	75.3	62.7
8	90110	12	77.4	59.1
8	90110	13	79	56.1
8	90110	14	80.1	54.3
8	90110	15	80.5	53.6
8	90110	16	80.3	54.1
8	90110	17	79.3	55.7

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Table 9: MOVES New London County PM 2.5 Primary Design Temperatures

Month ID	Zone ID	Hour ID	Temperature	Relative Humidity
8	90110	18	77.8	58.3
8	90110	19	75.4	62.7
8	90110	20	72	69.1
8	90110	21	69.7	73.6
8	90110	22	68	76.9
8	90110	23	66.8	79
8	90110	24	65.7	81.2
9	90110	1	57.1	83.3
9	90110	2	56.2	84.5
9	90110	3	55.4	85.7
9	90110	4	54.7	86.3
9	90110	5	54.2	86.6
9	90110	6	53.5	87.5
9	90110	7	53.4	87.5
9	90110	8	56.5	83.6
9	90110	9	60.4	77.1
9	90110	10	64.1	70.2
9	90110	11	67.3	64
9	90110	12	69.9	59.6
9	90110	13	71.7	56.4
9	90110	14	72.8	54.6
9	90110	15	73.3	53.9
9	90110	16	72.9	54.4
9	90110	17	71.8	56.3
9	90110	18	69.7	59.8
9	90110	19	66.3	66.2
9	90110	20	63.2	72.4
9	90110	21	61.4	76.1
9	90110	22	59.9	78.2
9	90110	23	58.6	80.7
9	90110	24	57.6	81.8
10	90110	1	45.7	79.1
10	90110	2	44.9	80.3
10	90110	3	44	81.1
10	90110	4	43.3	81.7
10	90110	5	42.8	82
10	90110	6	42.2	82.6

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Table 9: MOVES New London County PM 2.5 Primary Design Temperatures

Month ID	Zone ID	Hour ID	Temperature	Relative Humidity
10	90110	7	41.8	82.9
10	90110	8	43.3	81.1
10	90110	9	47.8	75.1
10	90110	10	52.1	67.5
10	90110	11	55.9	61.1
10	90110	12	58.8	56.3
10	90110	13	60.9	53.3
10	90110	14	62.2	51.3
10	90110	15	62.9	50.2
10	90110	16	62.5	50.5
10	90110	17	60.9	52.7
10	90110	18	57.6	57.9
10	90110	19	54.1	64.2
10	90110	20	51.9	68.6
10	90110	21	50.2	71.6
10	90110	22	48.8	74
10	90110	23	47.5	75.9
10	90110	24	46.4	77.3
11	90110	1	37.6	72.9
11	90110	2	36.7	74
11	90110	3	36.1	74.8
11	90110	4	35.5	75.1
11	90110	5	34.8	75.9
11	90110	6	34.3	76.2
11	90110	7	33.8	76.8
11	90110	8	34	76.5
11	90110	9	36.9	73.7
11	90110	10	41.1	68.4
11	90110	11	45.1	62.8
11	90110	12	48.2	58.6
11	90110	13	50.4	55.7
11	90110	14	51.8	54
11	90110	15	52.5	53
11	90110	16	52	53.4
11	90110	17	49.6	56.3
11	90110	18	46.3	60
11	90110	19	44	63.7

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Table 9: MOVES New London County PM 2.5 Primary Design Temperatures

Month ID	Zone ID	Hour ID	Temperature	Relative Humidity
11	90110	20	42.3	66.1
11	90110	21	40.7	68.3
11	90110	22	39.7	69.6
11	90110	23	38.8	70.7
11	90110	24	38	71.7
12	90110	1	28.4	70.7
12	90110	2	27.8	71.2
12	90110	3	27	71.7
12	90110	4	26.6	72.3
12	90110	5	26	72.8
12	90110	6	25.4	73.1
12	90110	7	25	73.7
12	90110	8	24.8	73.3
12	90110	9	26	72.5
12	90110	10	29.8	69
12	90110	11	33.9	64.5
12	90110	12	37.3	60.2
12	90110	13	39.7	57.6
12	90110	14	41.3	56
12	90110	15	42.1	55
12	90110	16	41.7	55.1
12	90110	17	39.5	57.4
12	90110	18	36.5	60.6
12	90110	19	34.5	62.9
12	90110	20	32.8	64.9
12	90110	21	31.6	66.4
12	90110	22	30.4	67.7
12	90110	23	29.6	68.7
12	90110	24	28.8	69.5

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Table 10: MOVES Tolland County PM 2.5 Primary Design Temperatures

Month ID	Zone ID	Hour ID	Temperature	Relative Humidity
1	90130	1	19.3	66.2
1	90130	2	18.2	67
1	90130	3	17.3	67.5
1	90130	4	16.7	67.7
1	90130	5	15.8	68.5
1	90130	6	15.4	68.8
1	90130	7	14.9	69.4
1	90130	8	14.7	69.3
1	90130	9	15.6	68.8
1	90130	10	19.3	65.4
1	90130	11	23.6	61.7
1	90130	12	27.5	58.3
1	90130	13	31	55.6
1	90130	14	33.2	54.1
1	90130	15	34.7	53.4
1	90130	16	34.7	53.4
1	90130	17	33.4	54.3
1	90130	18	30.6	56.8
1	90130	19	28.2	59.2
1	90130	20	26	61
1	90130	21	24.5	62.4
1	90130	22	23	63.6
1	90130	23	21.9	64
1	90130	24	20.6	65.2
2	90130	1	22.4	64.3
2	90130	2	21.1	65.6
2	90130	3	20.2	66.7
2	90130	4	19.3	67.1
2	90130	5	18.6	67.7
2	90130	6	17.8	67.9
2	90130	7	17.1	68.7
2	90130	8	16.9	68.7
2	90130	9	19.1	66.2
2	90130	10	22.8	62.1
2	90130	11	26.6	57.9
2	90130	12	30.1	54.5
2	90130	13	33.1	51.8

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Table 10: MOVES Tolland County PM 2.5 Primary Design Temperatures

Month ID	Zone ID	Hour ID	Temperature	Relative Humidity
2	90130	14	35.3	49.9
2	90130	15	36.7	48.7
2	90130	16	37.3	48.4
2	90130	17	36.6	48.9
2	90130	18	34.4	51.1
2	90130	19	31.2	54.5
2	90130	20	29.2	56.8
2	90130	21	27.6	58.8
2	90130	22	26.1	60.7
2	90130	23	24.6	62.1
2	90130	24	23.5	63.6
3	90130	1	30.5	64.3
3	90130	2	29.4	66.1
3	90130	3	28.4	67.4
3	90130	4	27.7	68.5
3	90130	5	26.9	69.3
3	90130	6	26.3	70.1
3	90130	7	25.8	70.7
3	90130	8	27.2	69
3	90130	9	30.6	64.3
3	90130	10	34.2	58.5
3	90130	11	37.8	53.6
3	90130	12	40.7	50.2
3	90130	13	43.2	47.3
3	90130	14	44.9	45.8
3	90130	15	46	44.9
3	90130	16	46.3	44.4
3	90130	17	45.7	45
3	90130	18	44	46.4
3	90130	19	40.9	50
3	90130	20	38.2	53.5
3	90130	21	36.2	56.4
3	90130	22	34.7	58.9
3	90130	23	33.4	60.7
3	90130	24	32.2	62.9
4	90130	1	39.8	65.8
4	90130	2	38.6	67.5

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Table 10: MOVES Tolland County PM 2.5 Primary Design Temperatures

Month ID	Zone ID	Hour ID	Temperature	Relative Humidity
4	90130	3	37.6	69.1
4	90130	4	36.5	70.7
4	90130	5	35.8	71.8
4	90130	6	35.2	72.6
4	90130	7	35.8	72.4
4	90130	8	39.2	67.3
4	90130	9	42.8	61.2
4	90130	10	46.5	55.2
4	90130	11	49.8	50.3
4	90130	12	52.6	46.9
4	90130	13	54.7	44.6
4	90130	14	56.5	42.8
4	90130	15	57.4	42
4	90130	16	57.4	42
4	90130	17	56.7	42.5
4	90130	18	55.2	44.2
4	90130	19	52.3	47.6
4	90130	20	49.1	51.7
4	90130	21	46.7	55.4
4	90130	22	44.7	58.8
4	90130	23	43.1	61
4	90130	24	41.6	63.6
5	90130	1	49.6	73.8
5	90130	2	48.5	75.7
5	90130	3	47.3	77.7
5	90130	4	46.5	79.1
5	90130	5	45.6	80.3
5	90130	6	45.2	80.9
5	90130	7	47.8	77.7
5	90130	8	51.3	71.5
5	90130	9	55.3	64.9
5	90130	10	58.9	59
5	90130	11	62.1	54.2
5	90130	12	64.7	50.7
5	90130	13	66.7	48.2
5	90130	14	68.2	46.6
5	90130	15	69	45.7

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Table 10: MOVES Tolland County PM 2.5 Primary Design Temperatures

Month ID	Zone ID	Hour ID	Temperature	Relative Humidity
5	90130	16	68.9	45.5
5	90130	17	68.2	46.2
5	90130	18	66.6	48
5	90130	19	64	50.9
5	90130	20	60.5	55.9
5	90130	21	57.4	61.3
5	90130	22	55	65.1
5	90130	23	53.1	68.4
5	90130	24	51.6	71.2
6	90130	1	58.3	76.6
6	90130	2	57	78.8
6	90130	3	55.9	80.5
6	90130	4	54.9	82.3
6	90130	5	54.1	83.1
6	90130	6	54.1	83.4
6	90130	7	56.8	80
6	90130	8	60.3	74.3
6	90130	9	63.9	68.6
6	90130	10	67.4	63.5
6	90130	11	70.5	58.8
6	90130	12	73	55
6	90130	13	75	52.2
6	90130	14	76.4	50.2
6	90130	15	76.8	49.5
6	90130	16	76.8	49.5
6	90130	17	76	50.5
6	90130	18	74.4	52.5
6	90130	19	72.2	55.5
6	90130	20	69	60.1
6	90130	21	65.4	65.6
6	90130	22	63.2	69.3
6	90130	23	61.4	71.7
6	90130	24	59.8	74.3
7	90130	1	63.8	79.1
7	90130	2	62.7	80.7
7	90130	3	61.6	82.1
7	90130	4	60.6	83.6

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Table 10: MOVES Tolland County PM 2.5 Primary Design Temperatures

Month ID	Zone ID	Hour ID	Temperature	Relative Humidity
7	90130	5	59.8	84.7
7	90130	6	59.5	85.3
7	90130	7	61.8	81.8
7	90130	8	65.3	76.4
7	90130	9	68.9	70.7
7	90130	10	72.3	65
7	90130	11	75.4	60.5
7	90130	12	78	56.3
7	90130	13	79.8	53.6
7	90130	14	81.1	51.6
7	90130	15	81.7	51
7	90130	16	81.7	51
7	90130	17	81	52
7	90130	18	79.5	54.2
7	90130	19	77.1	57.8
7	90130	20	74	63
7	90130	21	70.5	68.9
7	90130	22	68.5	72.5
7	90130	23	66.7	74.9
7	90130	24	65.3	77
8	90130	1	62.3	81
8	90130	2	61.2	82.7
8	90130	3	60.2	83.8
8	90130	4	59.3	84.7
8	90130	5	58.5	85.6
8	90130	6	57.8	86.5
8	90130	7	58.9	85
8	90130	8	62.3	80.4
8	90130	9	66.2	73.8
8	90130	10	69.9	67.4
8	90130	11	73.3	62
8	90130	12	75.8	58.3
8	90130	13	77.9	54.9
8	90130	14	79.3	52.8
8	90130	15	80	51.8
8	90130	16	79.9	52.2
8	90130	17	78.9	53.3

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Table 10: MOVES Tolland County PM 2.5 Primary Design Temperatures

Month ID	Zone ID	Hour ID	Temperature	Relative Humidity
8	90130	18	77.2	55.8
8	90130	19	74.6	60.2
8	90130	20	70.8	66.5
8	90130	21	68	71.4
8	90130	22	66.2	74.3
8	90130	23	64.6	76.9
8	90130	24	63.4	78.8
9	90130	1	53.6	81.9
9	90130	2	52.6	82.7
9	90130	3	51.5	84.2
9	90130	4	50.6	85.1
9	90130	5	49.9	85.7
9	90130	6	49.3	86
9	90130	7	49.1	86.3
9	90130	8	52.6	82.1
9	90130	9	56.7	76.2
9	90130	10	60.9	69.6
9	90130	11	64.6	63.6
9	90130	12	67.8	58.9
9	90130	13	70	55.6
9	90130	14	71.4	53.4
9	90130	15	72.3	52.4
9	90130	16	72	52.5
9	90130	17	70.9	54.1
9	90130	18	68.5	57.7
9	90130	19	64.6	64.1
9	90130	20	61.1	70.1
9	90130	21	58.8	73.9
9	90130	22	57.1	76.2
9	90130	23	55.6	78.4
9	90130	24	54.4	80.1
10	90130	1	42.7	77.3
10	90130	2	41.7	78.4
10	90130	3	40.6	79.6
10	90130	4	39.8	80.2
10	90130	5	39.1	80.8
10	90130	6	38.4	81

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Table 10: MOVES Tolland County PM 2.5 Primary Design Temperatures

Month ID	Zone ID	Hour ID	Temperature	Relative Humidity
10	90130	7	37.8	82
10	90130	8	39.7	79.8
10	90130	9	44.2	73.8
10	90130	10	48.9	66.6
10	90130	11	53.2	60.2
10	90130	12	56.6	55.6
10	90130	13	59.3	52
10	90130	14	61	49.7
10	90130	15	61.8	48.7
10	90130	16	61.6	48.9
10	90130	17	59.9	50.9
10	90130	18	56.5	55.5
10	90130	19	52.5	61.8
10	90130	20	50	66
10	90130	21	48	69.5
10	90130	22	46.4	71.5
10	90130	23	44.9	73.9
10	90130	24	43.6	75.6
11	90130	1	35.3	70.8
11	90130	2	34.3	71.9
11	90130	3	33.6	72.7
11	90130	4	32.7	73.6
11	90130	5	32	74.4
11	90130	6	31.4	74.7
11	90130	7	30.9	75.2
11	90130	8	31.1	74.6
11	90130	9	34.2	71.9
11	90130	10	38.2	67.2
11	90130	11	42.2	61.9
11	90130	12	45.4	57.5
11	90130	13	48.1	54.3
11	90130	14	49.8	52.4
11	90130	15	50.5	51.7
11	90130	16	50.1	51.8
11	90130	17	47.8	54.3
11	90130	18	44.5	57.9
11	90130	19	42.2	61.2

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Table 10: MOVES Tolland County PM 2.5 Primary Design Temperatures

Month ID	Zone ID	Hour ID	Temperature	Relative Humidity
11	90130	20	40.2	63.7
11	90130	21	38.7	65.6
11	90130	22	37.6	67.1
11	90130	23	36.5	68.4
11	90130	24	35.6	69.4
12	90130	1	25	68.8
12	90130	2	24.4	69.3
12	90130	3	23.5	69.8
12	90130	4	23.1	70.3
12	90130	5	22.2	71.2
12	90130	6	21.8	71.1
12	90130	7	21.1	72
12	90130	8	21.1	71.4
12	90130	9	22.2	70.9
12	90130	10	26.1	67.4
12	90130	11	30.3	62.9
12	90130	12	33.7	59
12	90130	13	36.6	56.2
12	90130	14	38.3	54.6
12	90130	15	39.4	53.4
12	90130	16	39	53.6
12	90130	17	36.8	55.5
12	90130	18	33.7	58.7
12	90130	19	31.6	60.7
12	90130	20	29.8	62.6
12	90130	21	28.5	64
12	90130	22	27.4	65.3
12	90130	23	26.3	66.6
12	90130	24	25.5	67.3

Appendix B

Table 11: MOVES Windham County PM 2.5 Primary Design Temperatures

Month ID	Zone ID	Hour ID	Temperature	Relative Humidity
1	90150	1	19.5	66.3
1	90150	2	18.4	67
1	90150	3	17.5	67.8
1	90150	4	16.9	68.1
1	90150	5	16.2	68.3
1	90150	6	15.8	68.5
1	90150	7	15.3	69.1
1	90150	8	15.1	69.1
1	90150	9	16.2	68.6
1	90150	10	19.9	65.5
1	90150	11	24.5	61.6
1	90150	12	28.5	58.2
1	90150	13	32	55.5
1	90150	14	34.2	54
1	90150	15	35.5	53.3
1	90150	16	35.5	53.3
1	90150	17	33.7	54.6
1	90150	18	30.7	57.5
1	90150	19	28.3	59.7
1	90150	20	26.1	61.8
1	90150	21	24.5	63.2
1	90150	22	23	64.1
1	90150	23	21.9	64.6
1	90150	24	20.8	65.6
2	90150	1	22.4	65.8
2	90150	2	21.2	66.5
2	90150	3	20.4	67.3
2	90150	4	19.7	67.5
2	90150	5	18.9	68.3
2	90150	6	18.2	68.5
2	90150	7	17.4	69.4
2	90150	8	17.2	69.3
2	90150	9	19.7	66.6
2	90150	10	23.7	62.5
2	90150	11	27.7	58.1
2	90150	12	31.1	54.9
2	90150	13	34	52.4

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Table 11: MOVES Windham County PM 2.5 Primary Design Temperatures

Month ID	Zone ID	Hour ID	Temperature	Relative Humidity
2	90150	14	36.1	50.5
2	90150	15	37.6	49.4
2	90150	16	38	49.1
2	90150	17	37	49.8
2	90150	18	34.6	52.2
2	90150	19	31.3	55.9
2	90150	20	29.2	58.3
2	90150	21	27.5	60.4
2	90150	22	26.2	61.8
2	90150	23	24.6	63.5
2	90150	24	23.5	64.8
3	90150	1	30.5	65.7
3	90150	2	29.5	67.3
3	90150	3	28.5	68.6
3	90150	4	27.9	69.4
3	90150	5	27	70.2
3	90150	6	26.4	71
3	90150	7	25.9	71.6
3	90150	8	27.7	69.7
3	90150	9	31.3	64.7
3	90150	10	35.2	58.9
3	90150	11	38.6	54.4
3	90150	12	41.7	50.7
3	90150	13	44.2	48
3	90150	14	45.8	46.7
3	90150	15	46.6	46.1
3	90150	16	46.8	45.7
3	90150	17	46	46.6
3	90150	18	44	48.2
3	90150	19	40.8	52.1
3	90150	20	38.1	55.5
3	90150	21	36	58.6
3	90150	22	34.6	60.9
3	90150	23	33.2	62.8
3	90150	24	32.1	64.5
4	90150	1	39.7	67.4
4	90150	2	38.6	68.9

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Table 11: MOVES Windham County PM 2.5 Primary Design Temperatures

Month ID	Zone ID	Hour ID	Temperature	Relative Humidity
4	90150	3	37.5	70.5
4	90150	4	36.5	71.6
4	90150	5	35.7	72.7
4	90150	6	35.1	73.5
4	90150	7	35.9	73
4	90150	8	39.7	67.9
4	90150	9	43.7	61.4
4	90150	10	47.3	55.7
4	90150	11	50.7	51.3
4	90150	12	53.5	48
4	90150	13	55.6	46
4	90150	14	57	44.5
4	90150	15	57.8	43.9
4	90150	16	57.8	43.9
4	90150	17	56.7	45
4	90150	18	54.9	46.7
4	90150	19	52.1	50.1
4	90150	20	48.6	54.6
4	90150	21	46.2	58.3
4	90150	22	44.5	61.2
4	90150	23	42.7	63.5
4	90150	24	41.4	65.4
5	90150	1	49.2	75.2
5	90150	2	48	77.2
5	90150	3	46.9	78.9
5	90150	4	46.2	79.7
5	90150	5	45.4	80.9
5	90150	6	45.1	81.2
5	90150	7	47.8	78
5	90150	8	51.9	71.5
5	90150	9	56.1	65
5	90150	10	59.9	59.3
5	90150	11	63.1	54.8
5	90150	12	65.6	51.8
5	90150	13	67.6	49.6
5	90150	14	68.7	48.3
5	90150	15	69.3	47.8

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Table 11: MOVES Windham County PM 2.5 Primary Design Temperatures

Month ID	Zone ID	Hour ID	Temperature	Relative Humidity
5	90150	16	69	48
5	90150	17	68.1	48.7
5	90150	18	66.4	50.5
5	90150	19	63.5	53.6
5	90150	20	59.9	58.6
5	90150	21	56.5	64
5	90150	22	54.2	67.8
5	90150	23	52.4	70.8
5	90150	24	51	73.1
6	90150	1	58.1	78.6
6	90150	2	56.9	80.3
6	90150	3	55.8	81.7
6	90150	4	54.9	83.2
6	90150	5	54.2	83.8
6	90150	6	54.3	84.1
6	90150	7	57.2	80.6
6	90150	8	61	74.6
6	90150	9	64.9	68.8
6	90150	10	68.3	63.9
6	90150	11	71.3	59.5
6	90150	12	73.8	56.1
6	90150	13	75.6	54
6	90150	14	76.9	52.3
6	90150	15	77.2	51.6
6	90150	16	76.9	51.9
6	90150	17	75.9	53.3
6	90150	18	74.4	55
6	90150	19	71.9	58.1
6	90150	20	68.4	63.2
6	90150	21	64.9	68.5
6	90150	22	62.7	72.1
6	90150	23	60.9	74.4
6	90150	24	59.5	76.5
7	90150	1	63.8	80.5
7	90150	2	62.6	82.2
7	90150	3	61.6	83.6
7	90150	4	60.7	84.5

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Table 11: MOVES Windham County PM 2.5 Primary Design Temperatures

Month ID	Zone ID	Hour ID	Temperature	Relative Humidity
7	90150	5	59.9	85.7
7	90150	6	59.8	85.7
7	90150	7	62.3	82.5
7	90150	8	65.9	77
7	90150	9	69.9	70.6
7	90150	10	73.4	64.9
7	90150	11	76.3	60.9
7	90150	12	78.8	57.2
7	90150	13	80.6	54.9
7	90150	14	81.6	53.5
7	90150	15	82.2	52.9
7	90150	16	82.1	53.2
7	90150	17	81.2	54.6
7	90150	18	79.6	56.7
7	90150	19	77.2	60.1
7	90150	20	73.7	65.7
7	90150	21	70.2	71.3
7	90150	22	68.1	75.1
7	90150	23	66.4	77.3
7	90150	24	65.1	79.2
8	90150	1	62.4	82.8
8	90150	2	61.3	84.2
8	90150	3	60.5	85.1
8	90150	4	59.7	85.7
8	90150	5	59	86.2
8	90150	6	58.4	86.8
8	90150	7	59.6	85.7
8	90150	8	63.4	80.2
8	90150	9	67.3	73.6
8	90150	10	71.2	67.5
8	90150	11	74.4	62.4
8	90150	12	76.9	58.8
8	90150	13	78.6	56.2
8	90150	14	80	54.4
8	90150	15	80.4	53.9
8	90150	16	80.3	54.3
8	90150	17	79.1	55.9

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Table 11: MOVES Windham County PM 2.5 Primary Design Temperatures

Month ID	Zone ID	Hour ID	Temperature	Relative Humidity
8	90150	18	77.3	58.2
8	90150	19	74.5	62.8
8	90150	20	70.6	69.1
8	90150	21	67.8	73.7
8	90150	22	66	76.8
8	90150	23	64.6	79.2
8	90150	24	63.4	80.8
9	90150	1	54	82.8
9	90150	2	53.1	83.4
9	90150	3	52.1	84.9
9	90150	4	51.3	85.5
9	90150	5	50.5	86.1
9	90150	6	49.9	86.7
9	90150	7	49.9	86.4
9	90150	8	53.5	82.5
9	90150	9	58.1	76
9	90150	10	62.4	69.2
9	90150	11	66	63.6
9	90150	12	68.9	59.2
9	90150	13	70.9	56.5
9	90150	14	72.3	54.5
9	90150	15	72.8	54
9	90150	16	72.3	54.5
9	90150	17	71.2	56.2
9	90150	18	68.7	59.8
9	90150	19	64.6	66.2
9	90150	20	61	72.2
9	90150	21	58.9	75.8
9	90150	22	57.2	78.3
9	90150	23	55.7	80.2
9	90150	24	54.6	81.3
10	90150	1	42.5	78.5
10	90150	2	41.6	79.4
10	90150	3	40.6	80.2
10	90150	4	39.7	80.8
10	90150	5	39.1	81.4
10	90150	6	38.4	82

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Table 11: MOVES Windham County PM 2.5 Primary Design Temperatures

Month ID	Zone ID	Hour ID	Temperature	Relative Humidity
10	90150	7	38.1	82
10	90150	8	40.1	79.9
10	90150	9	45.3	73.7
10	90150	10	50.1	66.5
10	90150	11	54.4	60.2
10	90150	12	57.7	55.9
10	90150	13	60.2	52.7
10	90150	14	61.6	51
10	90150	15	62.3	50.1
10	90150	16	61.8	50.6
10	90150	17	60	52.7
10	90150	18	56.2	57.7
10	90150	19	52.1	64
10	90150	20	49.6	68.3
10	90150	21	47.6	71.1
10	90150	22	46	73.4
10	90150	23	44.5	75.3
10	90150	24	43.4	76.7
11	90150	1	35.3	71.7
11	90150	2	34.3	72.8
11	90150	3	33.4	73.9
11	90150	4	32.8	74.2
11	90150	5	32	75
11	90150	6	31.5	75.3
11	90150	7	30.9	75.9
11	90150	8	31.1	75.6
11	90150	9	34.5	72.2
11	90150	10	38.9	67.3
11	90150	11	43.3	62.1
11	90150	12	46.5	57.9
11	90150	13	49	55.1
11	90150	14	50.5	53.4
11	90150	15	51.1	52.6
11	90150	16	50.5	52.9
11	90150	17	48.1	55.6
11	90150	18	44.4	59.5
11	90150	19	42.1	62.7

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Table 11: MOVES Windham County PM 2.5 Primary Design Temperatures

Month ID	Zone ID	Hour ID	Temperature	Relative Humidity
11	90150	20	40	65.3
11	90150	21	38.5	67.2
11	90150	22	37.4	68.8
11	90150	23	36.4	69.8
11	90150	24	35.5	70.6
12	90150	1	25	69.1
12	90150	2	24.4	69.9
12	90150	3	23.7	70.1
12	90150	4	23	71
12	90150	5	22.3	71.5
12	90150	6	21.9	71.8
12	90150	7	21.4	72
12	90150	8	21.2	72
12	90150	9	22.5	70.9
12	90150	10	26.6	67.5
12	90150	11	31.1	63
12	90150	12	34.7	59.1
12	90150	13	37.4	56.6
12	90150	14	39.2	55
12	90150	15	40.1	54
12	90150	16	39.4	54.3
12	90150	17	37.2	56.1
12	90150	18	33.8	59.5
12	90150	19	31.5	61.7
12	90150	20	30	63.4
12	90150	21	28.6	64.9
12	90150	22	27.5	66.1
12	90150	23	26.4	67.2
12	90150	24	25.5	67.9

Appendix B

Table 12: HPMS RURAL TRAVEL ACTIVITY PERCENTAGES BY VEHICLE TYPE AND FUNCTIONAL SYSTEM CONNECTICUT-2010

VEHICLE TYPE	Road Class: Rural						
	Interstate	Other Freeway & Expressway	Other Principal Arterial	Minor Arterial	Major Collector	Minor Collector (NOTE*)	Local
Motorcycle	0.00%	0.00%	2.19%	2.28%	0.93%	0.27%	0.75%
Passenger Car	74.29%	79.47%	75.35%	75.41%	80.51%	83.80%	78.62%
Light Truck	13.61%	14.11%	15.72%	17.84%	16.50%	12.74%	18.61%
Buses	0.25%	0.10%	0.11%	0.01%	0.03%	0.00%	0.02%
2-Axle, 6-Tire Single Trucks	2.72%	3.21%	1.01%	1.18%	1.17%	1.04%	1.43%
3-Axle Single Trucks	0.74%	0.60%	1.80%	1.22%	0.38%	0.78%	0.42%
4 Or More Axle Single Trucks	0.17%	0.23%	0.52%	0.27%	0.06%	0.62%	0.07%
4 Or Less Axle Trailer Trucks	1.09%	0.42%	0.91%	0.67%	0.17%	0.48%	0.06%
5-Axle Trailer Trucks	6.94%	1.86%	1.38%	1.06%	0.25%	0.18%	0.03%
6 Or More Axle Trailer Trucks	0.15%	0.03%	0.67%	0.05%	0.01%	0.09%	0.00%
5 Or Less Axle Tandem Trucks	0.03%	0.00%	0.27%	0.00%	0.00%	0.00%	0.00%
6-Axle Tandem Trucks	0.01%	0.00%	0.07%	0.00%	0.00%	0.00%	0.00%
7 Or More Tandem Trucks	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
TOTAL	100.00%	100.03%	100.00%	99.99%	100.01%	100.00%	100.01%

* NOTE: Rural Minor Collector mixes no longer tabulated for HPMS; the mixes shown are from 1999 HPMS.

Appendix B

Table 13: HPMS URBAN TRAVEL ACTIVITY PERCENTAGES BY VEHICLE TYPE AND FUNCTIONAL SYSTEM CONNECTICUT-2010

VEHICLE TYPE	Road Class: Urban						
	Interstate	Other Freeway & Expressway	Other Principal Arterial	Minor Arterial	Major Collector	Minor Collector	Local
Motorcycle	0.05%	0.11%	0.71%	0.67%	0.63%	0.67%	1.55%
Passenger Car	78.68%	82.48%	79.48%	83.01%	81.98%	82.08%	80.57%
Light Truck	12.14%	12.83%	16.17%	14.45%	15.33%	13.84%	14.87%
Buses	0.23%	0.09%	0.09%	0.10%	0.01%	0.00%	0.01%
2-Axle, 6-Tire Single Trucks	2.32%	2.08%	1.49%	1.08%	1.04%	2.31%	1.23%
3-Axle Single Trucks	0.52%	0.46%	0.64%	0.30%	0.58%	0.27%	0.91%
4 Or More Axle Single Trucks	0.14%	0.18%	0.17%	0.08%	0.07%	0.04%	0.48%
4 Or Less Axle Trailer Trucks	0.75%	0.38%	0.37%	0.13%	0.17%	0.21%	0.15%
5-Axle Trailer Trucks	4.88%	1.34%	0.73%	0.19%	0.17%	0.44%	0.18%
6 Or More Axle Trailer Trucks	0.06%	0.03%	0.03%	0.01%	0.02%	0.14%	0.04%
5 Or Less Axle Tandem Trucks	0.18%	0.02%	0.10%	0.00%	0.00%	0.00%	0.00%
6-Axle Tandem Trucks	0.06%	0.01%	0.00%	0.00%	0.00%	0.00%	0.00%
7 Or More Tandem Trucks	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
TOTAL	100.01%	100.01%	99.98%	100.02%	100.00%	100.00%	99.99%

Appendix B

Table 14: MOVES Converter Input for 2011 Fraction of VMT on HPMS Road Type by MOBILE6.2 16 Vehicle Type

Vehicle Type	11	12	13	15	17	19	21	23	25	27	29	30	31	33
1	0.4793	0.5103	0.4966	0.5085	0.5290	0.5264	0.5302	0.4952	0.5197	0.5215	0.5314	0.5307	0.5230	0.5204
2	0.0677	0.0721	0.0702	0.0718	0.0747	0.0744	0.0749	0.0700	0.0734	0.0737	0.0751	0.0750	0.0739	0.0735
3	0.2253	0.2398	0.2334	0.2390	0.2486	0.2474	0.2492	0.2328	0.2443	0.2451	0.2498	0.2494	0.2458	0.2446
4	0.0731	0.0778	0.0757	0.0775	0.0806	0.0802	0.0808	0.0755	0.0792	0.0795	0.0810	0.0809	0.0797	0.0793
5	0.0336	0.0358	0.0348	0.0357	0.0371	0.0369	0.0372	0.0348	0.0365	0.0366	0.0373	0.0372	0.0367	0.0365
6	0.0370	0.0196	0.0206	0.0137	0.0063	0.0098	0.0062	0.0279	0.0140	0.0111	0.0057	0.0063	0.0104	0.0092
7	0.0105	0.0056	0.0058	0.0039	0.0018	0.0028	0.0018	0.0079	0.0040	0.0031	0.0016	0.0018	0.0030	0.0026
8	0.0052	0.0028	0.0029	0.0019	0.0009	0.0014	0.0009	0.0039	0.0020	0.0016	0.0008	0.0009	0.0015	0.0013
9	0.0025	0.0013	0.0014	0.0009	0.0004	0.0007	0.0004	0.0019	0.0009	0.0007	0.0004	0.0004	0.0007	0.0006
10	0.0078	0.0042	0.0044	0.0029	0.0013	0.0021	0.0013	0.0059	0.0030	0.0024	0.0012	0.0013	0.0022	0.0019
11	0.0093	0.0049	0.0052	0.0034	0.0016	0.0024	0.0016	0.0070	0.0035	0.0028	0.0014	0.0016	0.0026	0.0023
12	0.0101	0.0054	0.0056	0.0037	0.0017	0.0027	0.0017	0.0076	0.0038	0.0030	0.0016	0.0017	0.0028	0.0025
13	0.0359	0.0191	0.0200	0.0133	0.0061	0.0095	0.0060	0.0271	0.0136	0.0108	0.0056	0.0061	0.0101	0.0089
14	0.0018	0.0010	0.0010	0.0007	0.0003	0.0005	0.0003	0.0014	0.0007	0.0005	0.0003	0.0003	0.0005	0.0004
15	0.0009	0.0005	0.0005	0.0003	0.0002	0.0002	0.0002	0.0007	0.0003	0.0003	0.0001	0.0002	0.0003	0.0002
16	0.0000	0.0000	0.0219	0.0228	0.0093	0.0027	0.0075	0.0005	0.0011	0.0071	0.0067	0.0063	0.0067	0.0155
Sum	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.9999	1.0001	1.0000	1.0000	1.0000

Appendix B
Table 15: **CT MOBILE6 Hour Input File**

MOBILE6.2 Input File
VMT BY HOUR
* CTHVMT.def ... March 2010
* Based on Connecticut ATR Counts (April & October 2009)
* Fraction of all vehicle miles traveled by hour of the day.
* First hour is 6 a.m.
0.0439 0.0677 0.0662 0.0537 0.0500 0.0524
0.0556 0.0569 0.0641 0.0747 0.0791 0.0786
0.0606 0.0443 0.0352 0.0287 0.0218 0.0160
0.0094 0.0060 0.0045 0.0047 0.0073 0.0184

Appendix B

Table 16: Average 2011 Daily HPMS VMT (miles per day) for the 14 2010+ FHWA HPMS Road Types

HPMS Road Type	Area Type	HPMS Road Type Description	Average 2011 Weekday Daily HPMS Road Type VMT (miles per day)							
			09001	09003	09005	09007	09009	09011	09013	09015
11	Rural	Interstate	0	0	0	0	269,873	106,449	933,014	476,039
12 (1)	Rural	Other Freeways and Expressways	0	279,029	211,327	193,189	0	221,853	25,139	16,551
13 (1)	Rural	Other Principal Arterial	59,738	60,358	380,105	0	73,272	401,532	224,225	122,730
15	Rural	Minor Arterial	123,026	230,664	388,512	164,637	170,195	217,383	219,421	323,147
17	Rural	Major Collector	445,131	252,975	531,982	177,755	178,316	545,248	340,494	518,720
19	Rural	Minor Collector	75,927	108,102	134,142	60,317	30,333	100,222	108,581	146,405
21	Rural	Local	65,372	81,602	288,110	100,888	61,219	115,056	117,755	104,539
23	Urban	Interstate	6,509,968	7,875,546	0	1,624,539	7,217,917	2,958,148	545,838	327,172
25	Urban	Other Freeways and Expressways	3,644,221	2,225,934	330,258	971,481	2,949,121	578,161	48,524	15,191
27	Urban	Other Principal Arterial	2,248,903	2,833,616	639,969	491,147	2,614,342	669,801	478,294	240,488
29	Urban	Minor Arterial	4,062,342	4,348,834	316,213	593,410	3,791,415	1,243,030	448,650	281,031
30 (1)	Urban	Major Collector	1,597,714	1,952,627	361,863	387,468	1,343,907	687,185	468,582	212,022
31 (1)	Urban	Minor Collector	36,124	35,802	7,584	5,298	29,618	17,996	8,605	4,279
33	Urban	Local	1,709,356	1,667,542	255,910	278,564	1,330,965	449,156	256,264	111,326
Total of All HPMS Road Types			20,577,822	21,952,631	3,845,975	5,048,693	20,060,493	8,311,220	4,223,386	2,899,640

The above HPMS VMT has a statewide sum total of 86,919,860 miles per day.

Note 1: Road Type 12 and 30 were added with the associated road descriptions and mappings were added; and the associative meaning of road types 13 and 31 were modified from what is established in NMIM and the Source Classification definitions. These additions and modified meanings are totally contained within the converter and should not be applied to any Road Type definitions other than the updated converter. Do not use the modified or added identifiers or the associated meaning provided in the table below for anything other than understanding the mapping of 2010+ FHWA HPMS Road Types to MOVES Road Types within the updated converter.

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Table 17: **2011 HPMSBaseYearVMT Annual Vehicle Miles Traveled (VMT)**

HPMSVTypeID	yearID	HPMSBaseYearVMT (miles per year)			
		09001 - Fairfield	09003 - Hartford	09005 - Litchfield	09007 - Middlesex
10	2011	33,580,058	36,270,322	13,214,628	7,819,761
20	2011	3,689,000,650	3,928,862,178	695,867,114	900,002,663
30	2011	3,239,064,507	3,457,038,404	602,041,206	792,502,931
40	2011	8,229,861	9,137,326	1,099,936	2,122,601
50	2011	47,715,257	52,976,573	6,377,230	12,306,456
60	2011	138,352,356	153,607,761	18,491,041	35,683,078
All Total	2011	7,155,942,688	7,637,892,565	1,337,091,154	1,750,437,490

HPMSVTypeID	yearID	HPMSBaseYearVMT (miles per year)			
		09009 - New Haven	09011 - New London	09013 - Tolland	09015 - Windham
10	2011	30,638,487	16,195,186	9,714,468	7,943,379
20	2011	3,580,682,085	1,477,930,577	746,654,345	514,748,745
30	2011	3,157,037,086	1,304,128,074	661,811,952	453,136,130
40	2011	8,649,262	3,623,436	1,980,322	1,207,480
50	2011	50,146,869	21,008,030	11,481,552	7,000,751
60	2011	145,402,916	60,913,651	33,291,233	20,298,966
All Total	2011	6,972,556,707	2,883,798,954	1,464,933,871	1,004,335,450

The above VMT has a statewide sum total of 30,206,988,879 miles per year.

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Table 18: **2011 Summer Weekday Vehicle Miles Traveled (VMT)**

sourceTypeID	sourceTypeName	Daily Vehicle Miles Travelled (miles per summer weekday)							
		09001 Fairfield	09003 Hartford	09005 Litchfield	09007 Middlesex	09009 New Haven	09011 New London	09013 Tolland	09015 Windham
11	Motorcycle	104,989	113,393	41,643	24,490	95,784	50,779	30,533	25,046
21	Passenger Car	11,533,764	12,282,959	2,192,852	2,818,694	11,194,143	4,633,968	2,346,789	1,623,017
31	Passenger Truck	7,634,003	8,112,522	1,410,287	1,853,184	7,409,378	3,070,711	1,553,498	1,064,371
32	Light Commercial Truck	2,493,023	2,695,355	486,895	628,833	2,460,338	1,018,308	526,625	364,379
41	Intercity Bus	11,504	13,100	1,353	1,942	11,535	5,006	922	1,494
42	Transit Bus	4,194	4,775	493	708	4,205	1,825	1,644	545
43	School Bus	10,033	10,691	1,619	3,997	11,300	4,530	3,658	1,769
51	Refuse Truck	4,699	6,333	682	1,357	5,461	2,169	1,025	994
52	Single Unit Short- haul Truck	122,750	138,861	17,537	31,551	128,785	53,037	29,193	18,664
53	Single Unit Long- haul Truck	15,218	14,305	1,307	3,945	15,774	7,467	4,110	1,692
54	Motor Home	6,515	6,124	571	1,689	6,753	3,197	1,760	724
61	Combination Short- haul Truck	180,140	244,800	31,435	49,731	202,366	79,538	43,576	33,216
62	Combination Long- haul Truck	252,423	235,430	26,835	62,024	252,201	111,453	61,061	30,787
All Total	All Total	22,373,255	23,878,648	4,213,510	5,482,146	21,798,022	9,041,988	4,604,393	3,166,696

The above VMT has a statewide sum total of 94,558,659 miles per summer weekday.

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Table 19: **MOBILE6.2 to MOVES Speed Bin Mapping**

MOBILE6 Speed Bins			MOVES Speed Bins		
Bin Number	Abbreviation	Description	avgSpeedBinID	avgBinSpeed	avgSpeedBinDesc
1	2.5 mph	Miles with average speed 0-2.5 mph	1	2.5	speed < 2.5mph
2	5 mph	Miles with average speed 2.5-7.5 mph	2	5	2.5mph <= speed < 7.5mph
3	10 mph	Miles with average speed 7.5-12.5 mph	3	10	7.5mph <= speed < 12.5mph
4	15 mph	Miles with average speed 12.5-17.5 mph	4	15	12.5mph <= speed < 17.5mph
5	20 mph	Miles with average speed 17.5-22.5 mph	5	20	17.5mph <= speed < 22.5mph
6	25 mph	Miles with average speed 22.5-27.5 mph	6	25	22.5mph <= speed < 27.5mph
7	30 mph	Miles with average speed 27.5-32.5 mph	7	30	27.5mph <= speed < 32.5mph
8	35 mph	Miles with average speed 32.5-37.5 mph	8	35	32.5mph <= speed < 37.5mph
9	40 mph	Miles with average speed 37.5-42.5 mph	9	40	37.5mph <= speed < 42.5mph
10	45 mph	Miles with average speed 42.5-47.5 mph	10	45	42.5mph <= speed < 47.5mph
11	50 mph	Miles with average speed 47.5-52.5 mph	11	50	47.5mph <= speed < 52.5mph
12	55 mph	Miles with average speed 52.5-57.5 mph	12	55	52.5mph <= speed < 57.5mph
13	60 mph	Miles with average speed 57.5-62.5 mph	13	60	57.5mph <= speed < 62.5mph
14	65 mph	Miles with average speed >62.5 mph	14 (1)	65	62.5mph <= speed < 67.5mph
			15 (1)	70	67.5mph <= speed < 72.5mph
			16 (1)	75	72.5mph <= speed

Note 1: Data used for AvgSpeedBinIDs 14, 15, and 16 are based on MOBILE6/NMIM Bin Number = 14 and the converter “Bin14-16 DefaultDist” worksheet fractions 0.5700 Speed Bin 14, 0.2900 Speed Bin 15 and 0.1400 Speed Bin 16.

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Table 20: I/M Input Program Mapping MOVES to MOBILE6.2

IMProgramID	inspectFreq	testStandardsID	testStandardsDesc	MOBILE6.2 I/M Header Comment Description
11	2	51	Exhaust OBD Check	Biennial OBDII I/M "tailpipe" test for post-MY1995 gasoline vehicles up to 8,500 lbs GVWR
12	2	43	Evaporative System OBD Check	Biennial OBDII evaporative "test" for post-MY1995 gasoline vehicles up to 8,500 lbs GVWR
15	2	24	ASM 2525 Final Cutpoints	Biennial ASM I/M tailpipe test for pre-96 gasoline vehicles up to 8,500 lbs GVWR
16	2	41	Evaporative Gas Cap Check	Biennial Gas Cap evaporative test for pre-96 gasoline vehicles up to 8,500 lbs GVWR
13	2	12	Two-mode, 2500 RPM/Idle Test	Biennial 2500/IDLE I/M tailpipe test for all HDGT 8,500 - 10,000 lbs GVWR
14	2	41	Evaporative Gas Cap Check	Biennial GC evaporative "test" for all HDGT 8,500 - 10,000 lbs

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Table 21: Connecticut Begin and End Model Years for 2011 MOVES Runs

IMProgramID	begModelYearID	endModelYearID	useIMyn
11	1996	2008	Y
12	1996	2008	Y
15	1987	1995	Y
16	1987	1995	Y
13	1987	2008	Y
14	1987	2008	Y

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Table 22: I/M Program Pollutant and Process Associations

IMProgramID	polProcessID	processID	processName	pollutantID	pollutantName
11	101	1	Running Exhaust	1	Total Gaseous Hydrocarbons
11	102	2	Start Exhaust	1	Total Gaseous Hydrocarbons
11	201	1	Running Exhaust	2	Carbon Monoxide (CO)
11	202	2	Start Exhaust	2	Carbon Monoxide (CO)
11	301	1	Running Exhaust	3	Oxides of Nitrogen
11	302	2	Start Exhaust	3	Oxides of Nitrogen
12	112	12	Evap Fuel Vapor Venting	1	Total Gaseous Hydrocarbons
12	113	13	Evap Fuel Leaks	1	Total Gaseous Hydrocarbons
15	101	1	Running Exhaust	1	Total Gaseous Hydrocarbons
15	102	2	Start Exhaust	1	Total Gaseous Hydrocarbons
15	201	1	Running Exhaust	2	Carbon Monoxide (CO)
15	202	2	Start Exhaust	2	Carbon Monoxide (CO)
15	301	1	Running Exhaust	3	Oxides of Nitrogen
15	302	2	Start Exhaust	3	Oxides of Nitrogen
16	112	12	Evap Fuel Vapor Venting	1	Total Gaseous Hydrocarbons
16	113	13	Evap Fuel Leaks	1	Total Gaseous Hydrocarbons
13	101	1	Running Exhaust	1	Total Gaseous Hydrocarbons
13	102	2	Start Exhaust	1	Total Gaseous Hydrocarbons
13	201	1	Running Exhaust	2	Carbon Monoxide (CO)
13	202	2	Start Exhaust	2	Carbon Monoxide (CO)
13	301	1	Running Exhaust	3	Oxides of Nitrogen
13	302	2	Start Exhaust	3	Oxides of Nitrogen
14	112	12	Evap Fuel Vapor Venting	1	Total Gaseous Hydrocarbons
14	113	13	Evap Fuel Leaks	1	Total Gaseous Hydrocarbons

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Table 23: I/M Compliance Factor 2011 Calculation Inputs and Results Illustrated

IMProgramID	sourceTypeID	MOBILE6.2 Regulatory Class Abbreviation	Regulatory Class Coverage Adjustment (%)	compliance rate	waiver rate	Compliance Factor
11	21	LDV	100%	98.0	0.3	96.11013
11	31	LDT1	31%			
		LDT2	31%			
		LDT3	16%			
		LDT4	16%			
			94%	98.0	0.3	90.3435222
11	32	LDT1	29%			
		LDT2	29%			
		LDT3	15%			
		LDT4	15%			
			88%	98.0	0.3	84.5769144
12	21	LDV	100%	98.0	0.3	96.11013
12	31	LDT1	31%			
		LDT2	31%			
		LDT3	16%			
		LDT4	16%			
			94%	98.0	0.3	90.3435222
12	32	LDT1	29%			
		LDT2	29%			
		LDT3	15%			
		LDT4	15%			
			88%	98.0	0.3	84.5769144
15	21	LDV	100%	98.0	0.3	96.12947
15	31	LDT1	31%			
		LDT2	31%			
		LDT3	16%			
		LDT4	16%			
			94%	98.0	0.3	90.3617018
15	32	LDT1	29%			
		LDT2	29%			
		LDT3	15%			
		LDT4	15%			
			88%	98.0	0.3	84.5939336
16	21	LDV	100%	98.0	0.00	96.7
16	31	LDT1	31%			
		LDT2	31%			

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Table 23: I/M Compliance Factor 2011 Calculation Inputs and Results Illustrated

IMProgramID	sourceTypeID	MOBILE6.2 Regulatory Class Abbreviation	Regulatory Class Coverage Adjustment (%)	compliance rate	waiver rate	Compliance Factor
		LDT3	16%			
		LDT4	16%			
			94%	98.0	0.00	90.898
16	32	LDT1	29%			
		LDT2	29%			
		LDT3	15%			
		LDT4	15%			
			88%	98.0	0.00	85.096
13	31	HDV2B	3%	98.0	0.3	2.8931673
13	32	HDV2B	5%	98.0	0.3	4.8219455
14	31	HDV2B	3%	98.0	0.00	2.901
14	32	HDV2B	5%	98.0	0.00	4.835

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Table 24: MOBILE62 2011 REGISTRATION AGE DISTRIBUTION COMMENTS AND INPUT

* SWP 06/19/2012: 2011 Connecticut Registration Data were analyzed using a
* custom VIN decoder program that utilized prior VIN decodes provided by dKC
* de la Torre Klausmeier Consulting and Eastern Research Group (ERG); prior
* MOBILE6.2 vehicle class assignments for 2005, Department of Motor
* Vehicles (DMV) light and gross vehicle weight ratings and VIN data obtained
* from car manufacturers, car reviews and other websites.
*
* DMV data and decoder output were matched to Mobile 6.2 vehicle
* classifications using the custom VIN decoder. Connecticut Department of
* Energy and Environmental Protection (CT DEEP) supplemented the decoder
* analyses with web searches, DMV Weights(GVWR, etc.), DMV class code
* assignments, and bus seating counts. The 2005 Age Distribution analyses
* were data based and were used in addition to other DMV VIN, Make and Model
* Queries of 2011 DMV Data, web searches and individual VIN decodes to
* address any missing vehicle classification assignments. All data was
* analyzed against each search and a priority / pedigree of the search was
* assigned so that queries giving different results (recommendations) for a
* MOBILE6.2 vehicle classification, could be assigned a unique recommended
* class. Vehicle age (Model Year) was evaluated and determined based on the
* value of digit 10 of the VIN number (VIN digit 10), determination of the
* validity of the VIN number (i.e. did the VIN digit 9 match the value
* calculated for that particular VIN number) and the four digit
* representation of the two digit DMV year. Motorcycles and Heavy Duty
* Vehicles were analyzed by the CT DEEP. Light duty vehicles, some heavy duty
* trucks (HDV2b, HDV3, HDV4 and HDV5), Motorcycles, Heavy Duty Bus School and
* Heavy Duty Bus Transit are based on Connecticut specific inputs (in this
* file) because of the interstate nature of heavy duty truck traffic. HDV2b,
* HDV3, HDV4 and HDV5 were previously based on national default ages,
* however the need to have a classification consistent with MOVES Source
* Types 30 and 31 required additional analyses. Results were analyzed to:
* 1) include Model Year 2012 data as 2011 vehicles;
* 2) include all Model Year 2011 vehicles (no fraction was eliminated);
* 3) include all pre-1972 data, as well as all other data excluded by other
* decoders provided that the data could be matched up with a Mobile 6 vehicle
* type and model year;
* Note that Connecticut data were used to classify LDV, LDT1, LDT2, LDT3, and
* LDT4, HDV2b, HDV3, HDV4, HDV5, HDBS (School Busses), HDBT (Transit and
* Urban Busses), and Motorcycles; all other vehicle class age distributions
* used were MOBILE6 default values. HDBS age distribution included vehicles
* having a DMV school bus classification code designation, including the
* large (typically HDV7 weight) Type I busses as well as some smaller
* vehicles (as small as HDV2B) that seated 15 or more people. Vehicles
* included in the HDBT age distribution included all Public and State Service
* Busses as well as Adult and Non-Profit Organization Service Busses that
* were heavy duty vehicles and carried 15 or more people or were a make/model
* known to be a heavy duty bus capable of carrying 15 or more people.
* Interstate Busses were included in the HDBT age distribution despite the
* fact that expected driving profile for long distance bus trips resemble
* more the driving profile of a truck rather than the driving profile of a
* transit or urban bus. This data was extracted from the MS Excel file
* listed below which was e-mailed to the Department of Transportation on
* January 25, 2012 in an e-mail entitled "MOBILE62 Age Distribution and the
* Calculated Registration based VMT Mix - Final Version With HDBT and HDBS
* Corrections":
* RegistrationDistributionOutput_2011_WithDirections_Final20120125.xls

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Table 24: MOBILE62 2011 REGISTRATION AGE DISTRIBUTION COMMENTS AND INPUT

*
* Calendar Year: 2011.000User-Input
*
* This file contains Connecticut specific data and some default MOBILE6
* values for the distribution of vehicles by age for July of any calendar
* year. Data was pulled from the DMV in June of 2011. There are sixteen (16)
* sets of values representing 16 combined gasoline/diesel vehicle class
* distributions.
* These distributions are split for gasoline and diesel using the separate
* input (or default) values for diesel sales fractions. Each distribution
* contains 25 values, which represent the fraction of all vehicles in that
* class (gasoline and diesel) of that age in July. The first number is for
* age 1 (calendar year minus model year plus one) and the last number is for
* age 25. The last age includes all vehicles of age 25 or older. The first
* number in each distribution is an integer which indicates which of the 16
* vehicle classes are represented by the distribution. The sixteen vehicle
* classes are:
*
* 1 LDV Light-Duty Vehicles (Passenger Cars)
* 2 LDT1 Light-Duty Trucks 1 (0-6,000 lbs. GVWR, 0-3,750 lbs. LVW)
* 3 LDT2 Light Duty Trucks 2 (0-6,000 lbs. GVWR, 3,751-5,750 lbs. LVW)
* 4 LDT3 Light Duty Trucks 3 (6,001-8,500 lbs. GVWR, 0-3,750 lbs. LVW)
* 5 LDT4 Light Duty Trucks 4 (6,001-8,500 lbs. GVWR, 3,751-5,750 lbs.LVW)
* 6 HDV2B Class 2b Heavy Duty Vehicles (8,501-10,000 lbs. GVWR)
* 7 HDV3 Class 3 Heavy Duty Vehicles (10,001-14,000 lbs. GVWR)
* 8 HDV4 Class 4 Heavy Duty Vehicles (14,001-16,000 lbs. GVWR)
* 9 HDV5 Class 5 Heavy Duty Vehicles (16,001-19,500 lbs. GVWR)
* 10 HDV6 Class 6 Heavy Duty Vehicles (19,501-26,000 lbs. GVWR)
* 11 HDV7 Class 7 Heavy Duty Vehicles (26,001-33,000 lbs. GVWR)
* 12 HDV8A Class 8a Heavy Duty Vehicles (33,001-60,000 lbs. GVWR)
* 13 HDV8B Class 8b Heavy Duty Vehicles (>60,000 lbs. GVWR)
* 14 HDBS School Busses
* 15 HDBT Transit and Urban Busses
* 16 MC Motorcycles (All)
*
* The 25 age values are arranged in two rows of 10 values followed by a row
* with the last 5 values. Comments are indicated by
* an asterisk in the first column. Empty rows are ignored. Values are
* read "free format," meaning any number may appear in any row with as
* many characters as needed (including a decimal) as long as 25 values
* follow the initial integer value separated by a space.
*
* If all 28 vehicle classes do not need to be altered from the default
* values, only the vehicle classes that need to be changed need to
* be included in this file. The order in which the vehicle classes are
* read does not matter, however each vehicle class set must contain 25
* values and be in the proper age order.
*
REG DIST
* RESULTING MOBILE6-BASED REGISTRATION FRACTIONS LDV, LDT1, LDT2, LDT3, LDT4,
HDV2B,
* HDV3, HDV4, HDV5, HDBS, HDBT and MC
* CT Specific MOBILE6 REGISTRATION FRACTIONS BY VEHICLE CLASS AND AGE
*
* LDV - Connecticut Specific 2011 Combined Diesel and Gas Vehicle Data
1 0.0380 0.0536 0.0499 0.0588 0.0644 0.0599 0.0598 0.0604 0.0634 0.0636

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Table 24: MOBILE62 2011 REGISTRATION AGE DISTRIBUTION COMMENTS AND INPUT

	0.0609	0.0628	0.0523	0.0443	0.0383	0.0283	0.0270	0.0192	0.0151	0.0115
	0.0084	0.0070	0.0055	0.0043	0.0433					
* LDT1 - Connecticut Specific 2011 Combined Diesel and Gas Vehicle Data										
2	0.0516	0.0646	0.0432	0.0675	0.0708	0.0699	0.0821	0.0828	0.0680	0.0689
	0.0560	0.0536	0.0423	0.0384	0.0322	0.0220	0.0198	0.0159	0.0100	0.0058
	0.0048	0.0042	0.0048	0.0046	0.0163					
* LDT2 - Connecticut Specific 2011 Combined Diesel and Gas Vehicle Data										
3	0.0516	0.0646	0.0432	0.0675	0.0708	0.0699	0.0821	0.0828	0.0680	0.0689
	0.0560	0.0536	0.0423	0.0384	0.0322	0.0220	0.0198	0.0159	0.0100	0.0058
	0.0048	0.0042	0.0048	0.0046	0.0163					
* LDT3 - Connecticut Specific 2011 Combined Diesel and Gas Vehicle Data										
4	0.0502	0.0498	0.0386	0.0822	0.0745	0.0812	0.0788	0.0813	0.0696	0.0579
	0.0504	0.0451	0.0488	0.0313	0.0337	0.0218	0.0252	0.0180	0.0104	0.0070
	0.0038	0.0050	0.0065	0.0060	0.0227					
* LDT4 - Connecticut Specific 2011 Combined Diesel and Gas Vehicle Data										
5	0.0502	0.0498	0.0386	0.0822	0.0745	0.0812	0.0788	0.0813	0.0696	0.0579
	0.0504	0.0451	0.0488	0.0313	0.0337	0.0218	0.0252	0.0180	0.0104	0.0070
	0.0038	0.0050	0.0065	0.0060	0.0227					
* HDV2B - Connecticut Specific 2011 Combined Diesel and Gas Vehicle Data										
6	0.0271	0.0292	0.0285	0.0577	0.0564	0.0862	0.0738	0.0947	0.0848	0.0794
	0.0732	0.0617	0.0541	0.0271	0.0263	0.0222	0.0236	0.0133	0.0072	0.0056
	0.0038	0.0060	0.0087	0.0073	0.0421					
* HDV3 - Connecticut Specific 2011 Combined Diesel and Gas Vehicle Data										
7	0.0271	0.0246	0.0253	0.0651	0.0513	0.0964	0.0874	0.0620	0.0497	0.0554
	0.0540	0.0508	0.0474	0.0210	0.0384	0.0222	0.0348	0.0255	0.0141	0.0093
	0.0068	0.0105	0.0198	0.0238	0.0772					
* HDV4 - Connecticut Specific 2011 Combined Diesel and Gas Vehicle Data										
8	0.0128	0.0213	0.0179	0.0523	0.0721	0.0625	0.0547	0.0587	0.0502	0.0575
	0.0612	0.0706	0.0934	0.0298	0.0644	0.0261	0.0292	0.0223	0.0153	0.0131
	0.0109	0.0138	0.0203	0.0250	0.0445					
* HDV5 - Connecticut Specific 2011 Combined Diesel and Gas Vehicle Data										
9	0.0350	0.0281	0.0300	0.0815	0.0824	0.0924	0.0884	0.0912	0.0583	0.0628
	0.0534	0.0576	0.0603	0.0149	0.0243	0.0171	0.0285	0.0121	0.0092	0.0045
	0.0044	0.0075	0.0065	0.0064	0.0435					
* HDV6 - EPA MOBILE 6 Default Combined Diesel and Gas Vehicle Data										
10	0.0388	0.0726	0.0679	0.0635	0.0594	0.0556	0.0520	0.0486	0.0455	0.0425
	0.0398	0.0372	0.0348	0.0326	0.0304	0.0285	0.0266	0.0249	0.0233	0.0218
	0.0204	0.0191	0.0178	0.0167	0.0797					
* HDV7 - EPA MOBILE 6 Default Combined Diesel and Gas Vehicle Data										
11	0.0388	0.0726	0.0679	0.0635	0.0594	0.0556	0.0520	0.0486	0.0455	0.0425
	0.0398	0.0372	0.0348	0.0326	0.0304	0.0285	0.0266	0.0249	0.0233	0.0218
	0.0204	0.0191	0.0178	0.0167	0.0797					
* HDV8a - EPA MOBILE 6 Default Combined Diesel and Gas Vehicle Data										
12	0.0388	0.0726	0.0679	0.0635	0.0594	0.0556	0.0520	0.0486	0.0455	0.0425
	0.0398	0.0372	0.0348	0.0326	0.0304	0.0285	0.0266	0.0249	0.0233	0.0218
	0.0204	0.0191	0.0178	0.0167	0.0797					
* HDV8b - EPA MOBILE 6 Default Combined Diesel and Gas Vehicle Data										
13	0.0388	0.0726	0.0679	0.0635	0.0594	0.0556	0.0520	0.0486	0.0455	0.0425
	0.0398	0.0372	0.0348	0.0326	0.0304	0.0285	0.0266	0.0249	0.0233	0.0218
	0.0204	0.0191	0.0178	0.0167	0.0797					
* HDBS - Connecticut Specific 2011 Combined Diesel and Gas Vehicle Data										
14	0.0711	0.0729	0.1072	0.1062	0.0682	0.1157	0.0582	0.0658	0.0521	0.0939
	0.0655	0.0603	0.0252	0.0108	0.0073	0.0058	0.0050	0.0010	0.0039	0.0021
	0.0010	0.0007	0.0001	0.0000	0.0001					
* HDBT - Connecticut Specific 2011 Combined Diesel and Gas Vehicle Data										
15	0.0561	0.0448	0.0557	0.0806	0.0797	0.0914	0.0607	0.0457	0.0711	0.0806

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Table 24: MOBILE62 2011 REGISTRATION AGE DISTRIBUTION COMMENTS AND INPUT

	0.0684	0.0457	0.0484	0.0389	0.0276	0.0254	0.0231	0.0131	0.0091	0.0095
	0.0023	0.0036	0.0063	0.0045	0.0077					
* MC - Connecticut Specific 2011 Combined Diesel and Gas Vehicle Data										
16	0.0186	0.0290	0.0543	0.0610	0.0762	0.0758	0.0686	0.0556	0.0652	0.0561
	0.0478	0.0391	0.0340	0.0263	0.0215	0.0203	0.0172	0.0141	0.0126	0.0098
	0.0083	0.0084	0.0089	0.0085	0.1630					

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Table 26: MOBILE62 2011 REGISTRATION AGE DISTRIBUTION COMMENTS AND DATA

The MOVES age distribution input is a composite of local data and 2011 MOVES default data. Local data from analyses of 2011 Connecticut registration data was used for 11 Motorcycle, 21 Passenger Car, 31 Passenger Truck, 32 Light Commercial Truck, 41 Intercity Bus, 42 Transit Bus, and 43 School Bus source types. MOVES 2011 default data was used for 51 Refuse Truck, 52 Single Unit Short-haul Truck, 53 Single Unit Long-haul Truck, 54 Motor Home, 61 Combination Short-haul Truck and 62-Combination Long-haul Truck source types. This local age distribution data closely matched what was used in the converters with largest difference being in the later years where the MOBILE62 25 year limit was extended to 31 years.

YearID	AgeID	MOVES Source Use Type						
		11 Motorcycle	21 Passenger Car	31 Passenger Truck	32 Light Commercial Truck	41 Intercity Bus	42 Transit Bus	43 School Bus
2011	0	0.0186430	0.0379934	0.0494288	0.0457212	0.0561340	0.0561340	0.0700532
2011	1	0.0290235	0.0535593	0.0583158	0.0533756	0.0448167	0.0448167	0.0714476
2011	2	0.0542723	0.0498955	0.0409555	0.0386260	0.0556813	0.0556813	0.1050737
2011	3	0.0610039	0.0588227	0.0704187	0.0689876	0.0805794	0.0805794	0.1044433
2011	4	0.0761657	0.0644243	0.0705655	0.0690805	0.0796741	0.0796741	0.0685799
2011	5	0.0757778	0.0598666	0.0739853	0.0755693	0.0914441	0.0914441	0.1144314
2011	6	0.0685638	0.0598316	0.0809143	0.0798977	0.0606609	0.0606609	0.0581207
2011	7	0.0556354	0.0603509	0.0828709	0.0824148	0.0457220	0.0457220	0.0652952
2011	8	0.0651770	0.0633622	0.0690823	0.0687849	0.0710729	0.0710729	0.0516112
2011	9	0.0560862	0.0635748	0.0667049	0.0667981	0.0805794	0.0805794	0.0925294
2011	10	0.0478342	0.0609408	0.0556925	0.0569258	0.0683567	0.0683567	0.0651054
2011	11	0.0390580	0.0627649	0.0520384	0.0532108	0.0457220	0.0457220	0.0600536
2011	12	0.0339621	0.0522780	0.0447033	0.0470794	0.0484382	0.0484382	0.0257560
2011	13	0.0263288	0.0443450	0.0357415	0.0340073	0.0389316	0.0389316	0.0113156
2011	14	0.0214845	0.0382678	0.0323740	0.0328297	0.0276143	0.0276143	0.0078155
2011	15	0.0203206	0.0283163	0.0219512	0.0221040	0.0253508	0.0253508	0.0062628
2011	16	0.0171855	0.0270127	0.0215225	0.0226102	0.0230874	0.0230874	0.0058588
2011	17	0.0140504	0.0192015	0.0163469	0.0167136	0.0131281	0.0131281	0.0014519
2011	18	0.0125615	0.0151234	0.0099616	0.0100971	0.0090539	0.0090539	0.0042282

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Table 26: MOBILE62 2011 REGISTRATION AGE DISTRIBUTION COMMENTS AND DATA

YearID	AgeID	MOVES Source Use Type						
		11 Motorcycle	21 Passenger Car	31 Passenger Truck	32 Light Commercial Truck	41 Intercity Bus	42 Transit Bus	43 School Bus
2011	19	0.0097514	0.0115376	0.0061028	0.0064044	0.0095066	0.0095066	0.0023801
2011	20	0.0083464	0.0083688	0.0045311	0.0047534	0.0022635	0.0022635	0.0012683
2011	21	0.0083883	0.0070465	0.0045844	0.0052101	0.0036215	0.0036215	0.0012684
2011	22	0.0088601	0.0055472	0.0056510	0.0067683	0.0063377	0.0063377	0.0008039
2011	23	0.0084931	0.0042645	0.0054009	0.0067726	0.0045269	0.0045269	0.0008312
2011	24	0.0108209	0.0040755	0.0037488	0.0047116	0.0045269	0.0045269	0.0007156
2011	25	0.0135366	0.0029609	0.0030819	0.0040536	0.0000000	0.0000000	0.0004393
2011	26	0.0132430	0.0023212	0.0021488	0.0027843	0.0004527	0.0004527	0.0003665
2011	27	0.0090698	0.0018719	0.0015038	0.0020235	0.0009054	0.0009054	0.0004845
2011	28	0.0103176	0.0011771	0.0009945	0.0013414	0.0004527	0.0004527	0.0001978
2011	29	0.0132430	0.0008072	0.0006591	0.0008412	0.0000000	0.0000000	0.0001467
2011	30	0.0927955	0.0300900	0.0080188	0.0095019	0.0013581	0.0013581	0.0016645

YearID	AgeID	MOVES Source Use Type					
		51 Refuse Truck	52 Single-Unit Short-haul Truck	53 Single-Unit Long-haul Truck	54 Motor Home	61 Combination Short-haul Truck	62 Combination Long-haul Truck
2011	0	0.0488833	0.0571690	0.0711986	0.0588871	0.0523843	0.0622840
2011	1	0.0490304	0.0573411	0.0714129	0.0590643	0.0529134	0.0629132
2011	2	0.0494258	0.0578035	0.0719888	0.0595406	0.0529134	0.0629132
2011	3	0.0481733	0.0563387	0.0701645	0.0580318	0.0529134	0.0629132
2011	4	0.0475490	0.0556085	0.0692551	0.0572796	0.0529134	0.0629132
2011	5	0.0465514	0.0544419	0.0678022	0.0560780	0.0551650	0.0655903
2011	6	0.0455748	0.0532997	0.0663797	0.0549015	0.0535265	0.0636421

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Table 26: MOBILE62 2011 REGISTRATION AGE DISTRIBUTION COMMENTS AND DATA

YearID	AgeID	MOVES Source Use Type					
		51 Refuse Truck	52 Single-Unit Short-haul Truck	53 Single-Unit Long-haul Truck	54 Motor Home	61 Combination Short-haul Truck	62 Combination Long-haul Truck
2011	7	0.0408573	0.0477826	0.0595086	0.0492185	0.0459475	0.0546308
2011	8	0.0338731	0.0396146	0.0493362	0.0408051	0.0340222	0.0404518
2011	9	0.0307938	0.0360133	0.0448511	0.0370956	0.0316713	0.0376567
2011	10	0.0335170	0.0391981	0.0488175	0.0403761	0.0329409	0.0391662
2011	11	0.0378545	0.0442708	0.0551351	0.0456013	0.0479141	0.0569691
2011	12	0.0373435	0.0436732	0.0543908	0.0449857	0.0562650	0.0668981
2011	13	0.0282998	0.0347023	0.0432185	0.0264468	0.0426390	0.0506971
2011	14	0.0230258	0.0261033	0.0325091	0.0407191	0.0346926	0.0412488
2011	15	0.0487578	0.0277508	0.0158992	0.0252127	0.0286831	0.0387742
2011	16	0.0559035	0.0316279	0.0157251	0.0297482	0.0372786	0.0382900
2011	17	0.0345889	0.0307288	0.0249198	0.0283653	0.0287034	0.0246317
2011	18	0.0295431	0.0220855	0.0181993	0.0195197	0.0236274	0.0186983
2011	19	0.0125218	0.0166352	0.0040871	0.0171232	0.0174035	0.0111094
2011	20	0.0340230	0.0161059	0.0028791	0.0127373	0.0197214	0.0079430
2011	21	0.0289714	0.0188987	0.0135995	0.0166834	0.0221326	0.0078269
2011	22	0.0226121	0.0237963	0.0140715	0.0215522	0.0219519	0.0075181
2011	23	0.0304280	0.0207474	0.0092065	0.0191152	0.0204241	0.0064771
2011	24	0.0243670	0.0172190	0.0022109	0.0186704	0.0212298	0.0017062
2011	25	0.0300883	0.0205720	0.0004938	0.0137655	0.0178083	0.0017524
2011	26	0.0158257	0.0144268	0.0009794	0.0146144	0.0155534	0.0021989
2011	27	0.0164325	0.0080777	0.0009815	0.0148245	0.0122385	0.0011367
2011	28	0.0047089	0.0124495	0.0000000	0.0096036	0.0048299	0.0002292
2011	29	0.0052433	0.0064130	0.0004238	0.0056067	0.0040707	0.0001758
2011	30	0.0052317	0.0091051	0.0003550	0.0038266	0.0055213	0.0006445

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Table 27: MOVES 2011 SOURCE USE TYPE POPULATION DIRECTLY OBTAINED FROM REGISTRATION DATA ONLY

Source Type	Source Type Name	9001 Fairfield	9003 Hartford	9005 Litchfield	9007 Middlesex	9009 New Haven	9011 New London	9013 Tolland	9015 Windham
11	Motorcycle	17,728	21,633	8,530	6,195	20,441	9,531	6,322	5,913
21	Passenger Car	375,718	384,751	85,517	75,708	352,249	116,982	62,301	47,702
31	Passenger Truck	231,330	206,326	61,478	48,980	189,523	73,700	41,011	32,873
32	Light Commercial Truck	76,147	69,097	21,394	16,753	63,434	24,635	14,013	11,343
41	Intercity Bus	141	146	26	13	122	45	12	18
42	Transit Bus	424	439	78	38	367	134	36	55
43	School Bus	1,843	1,783	465	389	1,789	605	285	322
51	Refuse Truck	77	122	29	22	91	32	15	21
52	Single Unit Short-haul Truck	3,275	4,377	1,234	838	3,484	1,260	618	657
53	Single Unit Long-haul Truck	230	306	87	59	245	88	43	46
54	Motor Home	417	497	155	100	412	154	77	66
61	Combination Short-haul Truck	1,198	1,963	460	352	1,434	503	234	353
62	Combination Long-haul Truck	888	1,531	343	271	1,095	382	175	285
All	Total	709,418	692,971	179,796	149,717	634,687	228,050	125,142	99,655

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Table 28: MOVES 2011 SOURCE USE TYPE POPULATION CONSIDERING REGISTRATION DATA AND VMT METHODOLOGY

Source Type	Source Type Name	9001 Fairfield	9003 Hartford	9005 Litchfield	9007 Middlesex	9009 New Haven	9011 New London	9013 Tolland	9015 Windham
11	Motorcycle	17,728	21,633	8,530	6,195	20,441	9,531	6,322	5,913
21	Passenger Car	375,718	384,751	85,517	75,708	352,249	116,982	62,301	47,702
31	Passenger Truck	231,330	206,326	61,478	48,980	189,523	73,700	41,011	32,873
32	Light Commercial Truck	76,147	69,097	21,394	16,753	63,434	24,635	14,013	11,343
41	Intercity Bus	351	363	65	31	303	111	30	45
42	Transit Bus	215	222	40	19	186	68	18	28
43	School Bus	1,843	1,783	465	389	1,789	605	285	322
51	Refuse Truck	77	122	29	22	91	32	15	21
52	Single Unit Short-haul Truck	3,275	4,377	1,234	838	3,484	1,270	694	657
53	Single Unit Long-haul Truck	383	425	87	99	403	169	92	56
54	Motor Home	672	747	155	173	707	296	162	99
61	Combination Short-haul Truck	1,214	1,963	460	352	1,434	534	292	353
62	Combination Long-haul Truck	1,485	1,649	343	383	1,561	654	357	285
All	Total	710,439	693,458	179,796	149,943	635,605	228,586	125,593	99,698

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Table 29: MOVES 2011 SOURCE USE TYPE POPULATION DATA SOURCE REGISTRATION DATA OR VMT METHODOLOGY

Source Type	Source Type Name	9001 Fairfield	9003 Hartford	9005 Litchfield	9007 Middlesex	9009 New Haven	9011 New London	9013 Tolland	9015 Windham
11	Motorcycle	Reg	Reg	Reg	Reg	Reg	Reg	Reg	Reg
21	Passenger Car	Reg	Reg	Reg	Reg	Reg	Reg	Reg	Reg
31	Passenger Truck	Reg	Reg	Reg	Reg	Reg	Reg	Reg	Reg
32	Light Commercial Truck	Reg	Reg	Reg	Reg	Reg	Reg	Reg	Reg
41	Intercity Bus	Reg	Reg	Reg	Reg	Reg	Reg	Reg	Reg
42	Transit Bus	Reg	Reg	Reg	Reg	Reg	Reg	Reg	Reg
43	School Bus	Reg	Reg	Reg	Reg	Reg	Reg	Reg	Reg
51	Refuse Truck	Reg	Reg	Reg	Reg	Reg	Reg	Reg	Reg
52	Single Unit Short-haul Truck	Reg	Reg	Reg	Reg	Reg	VMT	VMT	Reg
53	Single Unit Long-haul Truck	VMT	VMT	Reg	VMT	VMT	VMT	VMT	VMT
54	Motor Home	VMT	VMT	Reg	VMT	VMT	VMT	VMT	VMT
61	Combination Short-haul Truck	VMT	Reg	Reg	Reg	Reg	VMT	VMT	Reg
62	Combination Long-haul Truck	VMT	VMT	Reg	VMT	VMT	VMT	VMT	Reg

Reg signifies that the data was directly estimated based on 2011 Connecticut Department of Motor Vehicle Registration Data, while VMT signifies that a VMT based population methodology was used for the source use type for the indicated county. VMT based population estimates were only considered for source use types 51, 52, 53, 54, 61 and 62.

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Table 30: ANNUAL 2011 ONROAD EMISSIONS BY COUNTY (Excluding Refueling Emissions)

State and County FIPS Code	County Name	Annual Emissions (Tons per year)							
		VOC	NOX	CO	PM10-PRI	PM25-PRI	NH3	SO2	Lead
09001	FAIRFIELD	5,657.697	9,805.474	61,725.002	488.704	336.550	285.672	83.545	0.00000
09003	HARTFORD	5,562.240	10,018.413	63,362.551	500.603	355.851	299.204	78.703	0.00000
09005	LITCHFIELD	1,342.302	1,803.234	14,022.970	87.550	62.973	50.893	13.632	0.00000
09007	MIDDLESEX	1,169.038	2,238.867	13,628.674	101.201	74.028	68.361	17.318	0.00000
09009	NEW HAVEN	5,086.404	9,299.796	57,507.273	458.838	324.054	277.938	72.862	0.00000
09011	NEW LONDON	1,834.709	3,668.331	21,238.440	167.553	120.099	112.385	28.631	0.00000
09013	TOLLAND	1,018.501	1,923.866	11,363.648	90.138	64.731	56.187	14.575	0.00000
09015	WINDHAM	774.461	1,323.056	8,564.796	63.449	45.869	38.511	10.081	0.00000
STATEWIDE TOTAL		22,445.352	40,081.037	251,413.355	1,958.035	1,384.156	1,189.151	319.347	0.00000

Table 31: SUMMER DAY 2011 ONROAD EMISSIONS BY COUNTY (Excluding Refueling Emissions)

State and County FIPS Code	County Name	Summer Day Emissions (Pounds per Day)		
		VOC	NOX	CO
09001	FAIRFIELD	31,811.913	59,815.543	319,049.829
09003	HARTFORD	31,914.631	60,077.854	341,599.718
09005	LITCHFIELD	7,458.123	10,605.990	66,053.411
09007	MIDDLESEX	6,564.842	13,036.060	73,046.068
09009	NEW HAVEN	28,408.315	56,277.357	302,433.465
09011	NEW LONDON	10,845.537	21,790.277	118,511.931
09013	TOLLAND	5,877.732	11,298.470	60,706.608
09015	WINDHAM	4,481.820	7,820.347	44,830.467
STATEWIDE TOTAL		127,362.912	240,721.899	1,326,231.497

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Table 32: ANNUAL 2011 ONROAD EMISSIONS BY SCC FOR FAIRFIELD COUNTY (Excluding Refueling Emissions)

SCC	Source Category	Annual Emissions (Tons per Year)							
		VOC	NOX	CO	PM10- PRI	PM25- PRI	NH3	SO2	Lead
2201110080	Mobile-Motorcycle-Gas	143.703	28.746	659.014	1.957	1.679	1.207	0.328	0.00000
2201210080	Mobile-Passenger Car-Gas	2,755.588	2,864.717	27,260.588	163.551	102.296	153.557	36.846	0.00000
2201310080	Mobile-Passenger Truck-Gas	1,870.710	3,001.128	23,833.046	134.461	78.798	93.710	32.787	0.00000
2201320080	Mobile-Light Commercial Truck-Gas	624.565	1,025.257	8,242.348	39.674	23.455	27.801	9.504	0.00000
2201420080	Mobile-Transit Bus-Gas	0.031	0.079	0.870	0.001	0.000	0.001	0.000	0.00000
2201430080	Mobile-School Bus-Gas	0.831	1.073	24.004	0.018	0.012	0.006	0.004	0.00000
2201510080	Mobile-Refuse Truck-Gas	0.092	0.372	2.590	0.004	0.002	0.003	0.002	0.00000
2201520080	Mobile-Single Unit Short-haul Truck-Gas	22.316	59.316	521.705	1.141	0.597	0.528	0.316	0.00000
2201530080	Mobile-Single Unit Long-haul Truck-Gas	1.848	6.321	46.154	0.116	0.051	0.065	0.036	0.00000
2201540080	Mobile-Motor Home-Gas	3.422	7.824	67.432	0.136	0.080	0.057	0.035	0.00000
2201610080	Mobile-Combination Short-haul Truck-Gas	0.295	0.645	6.230	0.010	0.008	0.002	0.002	0.00000
2202210080	Mobile-Passenger Car-Diesel	3.882	23.986	13.415	4.114	3.785	0.117	0.051	0.00000
2202310080	Mobile-Passenger Truck-Diesel	24.272	175.112	111.140	10.810	9.551	1.155	0.276	0.00000
2202320080	Mobile-Light Commercial Truck-Diesel	64.113	429.092	284.603	27.346	24.467	2.435	0.577	0.00000
2202410080	Mobile-Intercity Bus-Diesel	2.400	51.031	16.281	2.796	2.462	0.098	0.055	0.00000
2202420080	Mobile-Transit Bus-Diesel	0.952	14.102	6.935	0.706	0.646	0.029	0.015	0.00000
2202430080	Mobile-School Bus-Diesel	2.705	21.605	27.510	1.232	1.035	0.071	0.028	0.00000
2202510080	Mobile-Refuse Truck-Diesel	0.692	14.401	4.070	0.797	0.689	0.039	0.020	0.00000
2202520080	Mobile-Single Unit Short-haul Truck-Diesel	15.663	144.819	73.622	9.296	7.744	0.692	0.218	0.00000
2202530080	Mobile-Single Unit Long-haul Truck-Diesel	1.914	16.532	8.484	1.092	0.901	0.087	0.026	0.00000
2202540080	Mobile-Motor Home-Diesel	0.543	5.126	2.181	0.312	0.275	0.019	0.006	0.00000
2202610080	Mobile-Combination Short-haul Truck-Diesel	27.644	649.943	158.597	34.108	29.741	1.646	0.943	0.00000
2202620080	Mobile-Combination Long-haul Truck-Diesel	89.516	1,263.828	350.454	55.020	48.272	2.350	1.470	0.00000
2203420080	Mobile-Transit Bus-CNG	0.000	0.421	3.728	0.005	0.002	0.000	0.000	0.00000
Fairfield County Total for All Source Use Types		5,657.697	9,805.474	61,725.002	488.704	336.550	285.672	83.545	0.00000

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Table 33: ANNUAL 2011 ONROAD EMISSIONS BY SCC FOR HARTFORD COUNTY (Excluding Refueling Emissions)

SCC	Source Category	Annual Emissions (Tons per Year)							
		VOC	NOX	CO	PM10- PRI	PM25- PRI	NH3	SO2	Lead
2201110080	Mobile-Motorcycle-Gas	158.367	31.137	717.323	2.169	1.873	1.281	0.317	0.00000
2201210080	Mobile-Passenger Car-Gas	2,832.519	2,946.456	29,056.486	171.417	112.232	160.322	34.511	0.00000
2201310080	Mobile-Passenger Truck-Gas	1,726.925	2,998.140	23,512.337	135.983	83.375	97.971	30.564	0.00000
2201320080	Mobile-Light Commercial Truck-Gas	584.679	1,038.353	8,196.780	40.662	25.110	29.545	8.998	0.00000
2201420080	Mobile-Transit Bus-Gas	0.032	0.087	0.938	0.001	0.001	0.001	0.000	0.00000
2201430080	Mobile-School Bus-Gas	0.801	1.085	23.748	0.018	0.013	0.006	0.004	0.00000
2201510080	Mobile-Refuse Truck-Gas	0.120	0.497	3.626	0.005	0.003	0.004	0.003	0.00000
2201520080	Mobile-Single Unit Short-haul Truck-Gas	26.757	68.327	657.976	1.260	0.738	0.579	0.322	0.00000
2201530080	Mobile-Single Unit Long-haul Truck-Gas	1.803	6.021	47.745	0.101	0.050	0.059	0.031	0.00000
2201540080	Mobile-Motor Home-Gas	3.345	7.457	69.446	0.126	0.081	0.052	0.030	0.00000
2201610080	Mobile-Combination Short-haul Truck-Gas	0.400	0.877	8.836	0.015	0.012	0.002	0.002	0.00000
2202210080	Mobile-Passenger Car-Diesel	4.034	24.723	13.772	4.219	3.899	0.122	0.052	0.00000
2202310080	Mobile-Passenger Truck-Diesel	23.489	172.128	107.771	10.608	9.413	1.205	0.283	0.00000
2202320080	Mobile-Light Commercial Truck-Diesel	63.125	428.910	280.244	27.312	24.537	2.584	0.601	0.00000
2202410080	Mobile-Intercity Bus-Diesel	2.536	57.571	17.429	2.971	2.659	0.108	0.061	0.00000
2202420080	Mobile-Transit Bus-Diesel	1.008	15.798	7.406	0.764	0.706	0.032	0.017	0.00000
2202430080	Mobile-School Bus-Diesel	2.685	22.427	26.947	1.219	1.041	0.073	0.029	0.00000
2202510080	Mobile-Refuse Truck-Diesel	0.875	19.299	5.385	1.002	0.881	0.051	0.026	0.00000
2202520080	Mobile-Single Unit Short-haul Truck-Diesel	16.775	159.078	84.697	9.690	8.226	0.760	0.238	0.00000
2202530080	Mobile-Single Unit Long-haul Truck-Diesel	1.685	15.047	7.998	0.946	0.796	0.079	0.023	0.00000
2202540080	Mobile-Motor Home-Diesel	0.471	4.734	2.047	0.274	0.244	0.017	0.006	0.00000
2202610080	Mobile-Combination Short-haul Truck-Diesel	34.822	869.075	205.990	42.716	37.920	2.195	1.252	0.00000
2202620080	Mobile-Combination Long-haul Truck-Diesel	74.988	1,130.711	303.429	47.120	42.039	2.157	1.332	0.00000
2203420080	Mobile-Transit Bus-CNG	0.000	0.474	4.195	0.005	0.002	0.000	0.000	0.00000
Hartford County Total for All Source Use Types		5,562.240	10,018.413	63,362.551	500.603	355.851	299.204	78.703	0.00000

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Table 34: ANNUAL 2011 ONROAD EMISSIONS BY SCC FOR LITCHFIELD COUNTY (Excluding Refueling Emissions)

SCC	Source Category	Annual Emissions (Tons per Year)							
		VOC	NOX	CO	PM10- PRI	PM25- PRI	NH3	SO2	Lead
2201110080	Mobile-Motorcycle-Gas	55.838	12.997	277.159	0.826	0.723	0.517	0.117	0.000000
2201210080	Mobile-Passenger Car-Gas	617.758	555.288	5,872.627	31.322	21.142	27.433	6.022	0.000000
2201310080	Mobile-Passenger Truck-Gas	462.218	603.699	5,493.356	25.057	16.211	16.391	5.284	0.000000
2201320080	Mobile-Light Commercial Truck-Gas	162.310	218.598	2,038.383	8.053	5.272	5.142	1.630	0.000000
2201420080	Mobile-Transit Bus-Gas	0.005	0.009	0.136	0.000	0.000	0.000	0.000	0.000000
2201430080	Mobile-School Bus-Gas	0.203	0.192	5.885	0.004	0.003	0.001	0.001	0.000000
2201510080	Mobile-Refuse Truck-Gas	0.020	0.057	0.530	0.001	0.000	0.000	0.000	0.000000
2201520080	Mobile-Single Unit Short-haul Truck-Gas	6.263	9.896	145.523	0.232	0.150	0.073	0.041	0.000000
2201530080	Mobile-Single Unit Long-haul Truck-Gas	0.290	0.585	7.216	0.011	0.006	0.005	0.003	0.000000
2201540080	Mobile-Motor Home-Gas	0.531	0.715	9.199	0.014	0.009	0.005	0.003	0.000000
2201610080	Mobile-Combination Short-haul Truck-Gas	0.074	0.119	1.487	0.003	0.002	0.000	0.000	0.000000
2202210080	Mobile-Passenger Car-Diesel	0.880	4.788	2.704	0.814	0.757	0.021	0.009	0.000000
2202310080	Mobile-Passenger Truck-Diesel	4.583	31.024	19.424	1.811	1.611	0.203	0.048	0.000000
2202320080	Mobile-Light Commercial Truck-Diesel	12.774	80.461	52.585	4.880	4.392	0.453	0.108	0.000000
2202410080	Mobile-Intercity Bus-Diesel	0.292	5.846	2.084	0.331	0.292	0.011	0.006	0.000000
2202420080	Mobile-Transit Bus-Diesel	0.111	1.473	0.892	0.083	0.075	0.003	0.002	0.000000
2202430080	Mobile-School Bus-Diesel	0.558	3.592	6.283	0.193	0.159	0.009	0.004	0.000000
2202510080	Mobile-Refuse Truck-Diesel	0.111	2.070	0.735	0.118	0.102	0.005	0.003	0.000000
2202520080	Mobile-Single Unit Short-haul Truck-Diesel	2.753	21.656	16.266	1.302	1.086	0.095	0.031	0.000000
2202530080	Mobile-Single Unit Long-haul Truck-Diesel	0.191	1.462	1.054	0.091	0.075	0.007	0.002	0.000000
2202540080	Mobile-Motor Home-Diesel	0.052	0.442	0.274	0.027	0.023	0.002	0.001	0.000000
2202610080	Mobile-Combination Short-haul Truck-Diesel	4.996	113.699	30.033	6.231	5.461	0.277	0.164	0.000000
2202620080	Mobile-Combination Long-haul Truck-Diesel	9.492	134.528	38.745	6.145	5.420	0.240	0.155	0.000000
2203420080	Mobile-Transit Bus-CNG	0.000	0.041	0.392	0.001	0.000	0.000	0.000	0.000000
Litchfield County Total for All Source Use Types		1,342.302	1,803.234	14,022.970	87.550	62.973	50.893	13.632	0.000

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Table 35: ANNUAL 2011 ONROAD EMISSIONS BY SCC FOR MIDDLESEX COUNTY (Excluding Refueling Emissions)

SCC	Source Category	Annual Emissions (Tons per Year)							
		VOC	NOX	CO	PM10- PRI	PM25- PRI	NH3	SO2	Lead
2201110080	Mobile-Motorcycle-Gas	38.221	7.239	163.906	0.450	0.391	0.292	0.069	0.000000
2201210080	Mobile-Passenger Car-Gas	551.350	630.572	5,852.547	33.413	22.270	36.457	7.510	0.000000
2201310080	Mobile-Passenger Truck-Gas	388.616	687.067	5,315.731	26.903	17.211	22.378	6.741	0.000000
2201320080	Mobile-Light Commercial Truck-Gas	134.061	242.444	1,896.828	8.257	5.315	6.885	2.027	0.000000
2201420080	Mobile-Transit Bus-Gas	0.003	0.012	0.104	0.000	0.000	0.000	0.000	0.000000
2201430080	Mobile-School Bus-Gas	0.185	0.333	5.556	0.005	0.003	0.002	0.001	0.000000
2201510080	Mobile-Refuse Truck-Gas	0.022	0.103	0.715	0.001	0.001	0.001	0.001	0.000000
2201520080	Mobile-Single Unit Short-haul Truck-Gas	5.160	14.803	130.671	0.241	0.140	0.131	0.069	0.000000
2201530080	Mobile-Single Unit Long-haul Truck-Gas	0.420	1.599	11.619	0.024	0.012	0.016	0.008	0.000000
2201540080	Mobile-Motor Home-Gas	0.790	1.982	17.145	0.030	0.019	0.014	0.008	0.000000
2201610080	Mobile-Combination Short-haul Truck-Gas	0.072	0.174	1.672	0.003	0.002	0.000	0.000	0.000000
2202210080	Mobile-Passenger Car-Diesel	0.796	5.100	2.778	0.853	0.791	0.028	0.011	0.000000
2202310080	Mobile-Passenger Truck-Diesel	5.000	36.369	22.578	2.235	2.008	0.278	0.062	0.000000
2202320080	Mobile-Light Commercial Truck-Diesel	13.743	92.603	59.993	5.907	5.364	0.608	0.135	0.000000
2202410080	Mobile-Intercity Bus-Diesel	0.350	8.293	2.321	0.405	0.366	0.016	0.009	0.000000
2202420080	Mobile-Transit Bus-Diesel	0.136	2.272	0.940	0.108	0.100	0.005	0.002	0.000000
2202430080	Mobile-School Bus-Diesel	0.786	7.539	6.814	0.423	0.365	0.027	0.010	0.000000
2202510080	Mobile-Refuse Truck-Diesel	0.176	3.992	1.082	0.197	0.176	0.011	0.005	0.000000
2202520080	Mobile-Single Unit Short-haul Truck-Diesel	3.512	33.413	17.527	2.036	1.750	0.172	0.051	0.000000
2202530080	Mobile-Single Unit Long-haul Truck-Diesel	0.431	3.829	2.028	0.242	0.206	0.022	0.006	0.000000
2202540080	Mobile-Motor Home-Diesel	0.121	1.216	0.519	0.071	0.064	0.005	0.002	0.000000
2202610080	Mobile-Combination Short-haul Truck-Diesel	6.683	171.907	39.754	7.998	7.188	0.446	0.248	0.000000
2202620080	Mobile-Combination Long-haul Truck-Diesel	18.403	285.938	75.234	11.398	10.287	0.569	0.341	0.000000
2203420080	Mobile-Transit Bus-CNG	0.000	0.070	0.612	0.001	0.000	0.000	0.000	0.000000
Middlesex County Total for All Source Use Types		1,169.038	2,238.867	13,628.674	101.201	74.028	68.361	17.318	0.000

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Table 36: ANNUAL 2011 ONROAD EMISSIONS BY SCC FOR NEW HAVEN COUNTY (Excluding Refueling Emissions)

SCC	Source Category	Annual Emissions (Tons per Year)							
		VOC	NOX	CO	PM10- PRI	PM25- PRI	NH3	SO2	Lead
2201110080	Mobile-Motorcycle-Gas	142.655	26.446	630.280	1.846	1.591	1.112	0.275	0.000000
2201210080	Mobile-Passenger Car-Gas	2,578.494	2,691.393	26,302.617	154.465	99.839	148.679	31.891	0.000000
2201310080	Mobile-Passenger Truck-Gas	1,579.951	2,750.876	21,387.994	123.038	74.235	91.094	28.300	0.000000
2201320080	Mobile-Light Commercial Truck-Gas	534.919	953.190	7,465.644	36.784	22.382	27.462	8.325	0.000000
2201420080	Mobile-Transit Bus-Gas	0.027	0.076	0.799	0.001	0.000	0.001	0.000	0.000000
2201430080	Mobile-School Bus-Gas	0.803	1.123	23.896	0.018	0.013	0.006	0.004	0.000000
2201510080	Mobile-Refuse Truck-Gas	0.098	0.423	2.967	0.005	0.002	0.003	0.002	0.000000
2201520080	Mobile-Single Unit Short-haul Truck-Gas	22.348	61.474	549.672	1.123	0.625	0.546	0.294	0.000000
2201530080	Mobile-Single Unit Long-haul Truck-Gas	1.807	6.485	47.852	0.110	0.052	0.066	0.033	0.000000
2201540080	Mobile-Motor Home-Gas	3.356	8.041	70.316	0.134	0.083	0.058	0.033	0.000000
2201610080	Mobile-Combination Short-haul Truck-Gas	0.314	0.718	6.972	0.011	0.010	0.002	0.002	0.000000
2202210080	Mobile-Passenger Car-Diesel	3.706	22.741	12.610	3.862	3.566	0.114	0.048	0.000000
2202310080	Mobile-Passenger Truck-Diesel	22.029	160.534	100.579	9.950	8.836	1.126	0.261	0.000000
2202320080	Mobile-Light Commercial Truck-Diesel	59.147	399.685	261.482	25.606	23.022	2.412	0.556	0.000000
2202410080	Mobile-Intercity Bus-Diesel	2.273	50.756	15.365	2.609	2.325	0.097	0.054	0.000000
2202420080	Mobile-Transit Bus-Diesel	0.903	13.993	6.496	0.670	0.618	0.029	0.015	0.000000
2202430080	Mobile-School Bus-Diesel	2.811	23.506	27.489	1.291	1.100	0.079	0.030	0.000000
2202510080	Mobile-Refuse Truck-Diesel	0.761	16.561	4.559	0.858	0.752	0.044	0.022	0.000000
2202520080	Mobile-Single Unit Short-haul Truck-Diesel	15.538	145.589	74.978	9.073	7.662	0.717	0.218	0.000000
2202530080	Mobile-Single Unit Long-haul Truck-Diesel	1.868	16.375	8.505	1.054	0.883	0.089	0.025	0.000000
2202540080	Mobile-Motor Home-Diesel	0.526	5.146	2.180	0.305	0.272	0.019	0.006	0.000000
2202610080	Mobile-Combination Short-haul Truck-Diesel	29.339	720.399	170.678	35.403	31.259	1.841	1.036	0.000000
2202620080	Mobile-Combination Long-haul Truck-Diesel	82.730	1,223.848	329.664	50.615	44.925	2.343	1.430	0.000000
2203420080	Mobile-Transit Bus-CNG	0.000	0.420	3.676	0.004	0.002	0.000	0.000	0.000000
New Haven County Total for All Source Use Types		5,086.404	9,299.796	57,507.273	458.838	324.054	277.938	72.862	0.000

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Table 37: ANNUAL 2011 ONROAD EMISSIONS BY SCC FOR NEW LONDON COUNTY (Excluding Refueling Emissions)

SCC	Source Category	Annual Emissions (Tons per Year)							
		VOC	NOX	CO	PM10- PRI	PM25- PRI	NH3	SO2	Lead
2201110080	Mobile-Motorcycle-Gas	66.553	14.772	322.591	0.912	0.790	0.604	0.142	0.000000
2201210080	Mobile-Passenger Car-Gas	865.799	1,010.465	9,134.670	54.087	34.813	59.785	12.382	0.000000
2201310080	Mobile-Passenger Truck-Gas	601.880	1,103.553	8,235.373	43.883	26.846	36.915	11.170	0.000000
2201320080	Mobile-Light Commercial Truck-Gas	203.354	381.914	2,881.293	13.197	8.157	11.130	3.287	0.000000
2201420080	Mobile-Transit Bus-Gas	0.010	0.031	0.310	0.000	0.000	0.000	0.000	0.000000
2201430080	Mobile-School Bus-Gas	0.272	0.408	8.167	0.006	0.004	0.002	0.002	0.000000
2201510080	Mobile-Refuse Truck-Gas	0.035	0.163	1.115	0.002	0.001	0.001	0.001	0.000000
2201520080	Mobile-Single Unit Short-haul Truck-Gas	8.074	24.066	203.617	0.396	0.219	0.220	0.114	0.000000
2201530080	Mobile-Single Unit Long-haul Truck-Gas	0.745	2.931	20.452	0.045	0.021	0.031	0.015	0.000000
2201540080	Mobile-Motor Home-Gas	1.403	3.644	30.290	0.055	0.034	0.027	0.015	0.000000
2201610080	Mobile-Combination Short-haul Truck-Gas	0.115	0.277	2.654	0.004	0.003	0.001	0.001	0.000000
2202210080	Mobile-Passenger Car-Diesel	1.265	8.282	4.442	1.330	1.227	0.046	0.019	0.000000
2202310080	Mobile-Passenger Truck-Diesel	8.356	60.620	37.925	3.759	3.359	0.459	0.103	0.000000
2202320080	Mobile-Light Commercial Truck-Diesel	22.455	151.049	98.664	9.710	8.781	0.982	0.220	0.000000
2202410080	Mobile-Intercity Bus-Diesel	0.930	21.499	6.270	1.055	0.950	0.041	0.023	0.000000
2202420080	Mobile-Transit Bus-Diesel	0.361	5.804	2.589	0.276	0.255	0.012	0.006	0.000000
2202430080	Mobile-School Bus-Diesel	0.995	8.742	9.553	0.480	0.411	0.030	0.011	0.000000
2202510080	Mobile-Refuse Truck-Diesel	0.284	6.399	1.718	0.317	0.281	0.017	0.009	0.000000
2202520080	Mobile-Single Unit Short-haul Truck-Diesel	5.937	55.589	28.663	3.439	2.936	0.289	0.084	0.000000
2202530080	Mobile-Single Unit Long-haul Truck-Diesel	0.825	7.162	3.759	0.460	0.389	0.041	0.011	0.000000
2202540080	Mobile-Motor Home-Diesel	0.233	2.278	0.964	0.135	0.121	0.009	0.003	0.000000
2202610080	Mobile-Combination Short-haul Truck-Diesel	10.879	277.155	64.214	13.054	11.676	0.716	0.398	0.000000
2202620080	Mobile-Combination Long-haul Truck-Diesel	33.950	521.352	137.604	20.950	18.824	1.026	0.617	0.000000
2203420080	Mobile-Transit Bus-CNG	0.000	0.175	1.542	0.002	0.001	0.000	0.000	0.000000
New London County Total for All Source Use Types		1,834.709	3,668.331	21,238.440	167.553	120.099	112.385	28.631	0.000

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Table 38: ANNUAL 2011 ONROAD EMISSIONS BY SCC FOR TOLLAND COUNTY (Excluding Refueling Emissions)

SCC	Source Category	Annual Emissions (Tons per Year)							
		VOC	NOX	CO	PM10- PRI	PM25- PRI	NH3	SO2	Lead
2201110080	Mobile-Motorcycle-Gas	42.245	8.971	197.538	0.579	0.503	0.357	0.085	0.000000
2201210080	Mobile-Passenger Car-Gas	472.008	517.987	4,831.065	29.025	18.755	29.752	6.264	0.000000
2201310080	Mobile-Passenger Truck-Gas	335.862	568.867	4,396.285	23.553	14.461	18.326	5.642	0.000000
2201320080	Mobile-Light Commercial Truck-Gas	115.882	201.893	1,581.454	7.277	4.536	5.662	1.700	0.000000
2201420080	Mobile-Transit Bus-Gas	0.007	0.026	0.214	0.000	0.000	0.000	0.000	0.000000
2201430080	Mobile-School Bus-Gas	0.143	0.273	4.196	0.004	0.003	0.002	0.001	0.000000
2201510080	Mobile-Refuse Truck-Gas	0.016	0.077	0.525	0.001	0.000	0.001	0.000	0.000000
2201520080	Mobile-Single Unit Short-haul Truck-Gas	4.380	13.060	110.358	0.223	0.126	0.120	0.061	0.000000
2201530080	Mobile-Single Unit Long-haul Truck-Gas	0.405	1.587	11.036	0.025	0.012	0.017	0.008	0.000000
2201540080	Mobile-Motor Home-Gas	0.759	1.972	16.162	0.030	0.019	0.015	0.008	0.000000
2201610080	Mobile-Combination Short-haul Truck-Gas	0.063	0.153	1.462	0.002	0.002	0.000	0.000	0.000000
2202210080	Mobile-Passenger Car-Diesel	0.689	4.337	2.329	0.680	0.626	0.023	0.009	0.000000
2202310080	Mobile-Passenger Truck-Diesel	4.371	31.234	19.556	1.908	1.698	0.227	0.052	0.000000
2202320080	Mobile-Light Commercial Truck-Diesel	11.976	79.466	51.911	5.033	4.536	0.499	0.114	0.000000
2202410080	Mobile-Intercity Bus-Diesel	0.167	3.949	1.084	0.193	0.173	0.008	0.004	0.000000
2202420080	Mobile-Transit Bus-Diesel	0.306	5.124	2.045	0.243	0.225	0.011	0.006	0.000000
2202430080	Mobile-School Bus-Diesel	0.685	6.616	5.376	0.376	0.320	0.024	0.009	0.000000
2202510080	Mobile-Refuse Truck-Diesel	0.135	3.022	0.811	0.149	0.132	0.008	0.004	0.000000
2202520080	Mobile-Single Unit Short-haul Truck-Diesel	3.294	30.234	15.761	1.867	1.591	0.158	0.045	0.000000
2202530080	Mobile-Single Unit Long-haul Truck-Diesel	0.456	3.883	2.065	0.249	0.210	0.022	0.006	0.000000
2202540080	Mobile-Motor Home-Diesel	0.128	1.233	0.529	0.073	0.066	0.005	0.002	0.000000
2202610080	Mobile-Combination Short-haul Truck-Diesel	5.962	152.448	35.193	7.153	6.403	0.391	0.218	0.000000
2202620080	Mobile-Combination Long-haul Truck-Diesel	18.562	287.299	75.333	11.492	10.334	0.560	0.337	0.000000
2203420080	Mobile-Transit Bus-CNG	0.000	0.155	1.360	0.001	0.001	0.000	0.000	0.000000
Tolland County Total for All Source Use Types		1,018.501	1,923.866	11,363.648	90.138	64.731	56.187	14.575	0.000

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Table 39: ANNUAL 2011 ONROAD EMISSIONS BY SCC FOR WINDHAM COUNTY (Excluding Refueling Emissions)

SCC	Source Category	Annual Emissions (Tons per Year)							
		VOC	NOX	CO	PM10- PRI	PM25- PRI	NH3	SO2	Lead
2201110080	Mobile-Motorcycle-Gas	37.786	7.627	167.840	0.474	0.413	0.303	0.070	0.000000
2201210080	Mobile-Passenger Car-Gas	353.133	371.296	3,592.153	21.032	13.880	20.485	4.363	0.000000
2201310080	Mobile-Passenger Truck-Gas	258.824	406.888	3,335.789	17.056	10.772	12.513	3.898	0.000000
2201320080	Mobile-Light Commercial Truck-Gas	90.177	145.693	1,213.276	5.336	3.410	3.891	1.187	0.000000
2201420080	Mobile-Transit Bus-Gas	0.004	0.010	0.112	0.000	0.000	0.000	0.000	0.000000
2201430080	Mobile-School Bus-Gas	0.143	0.179	4.233	0.003	0.002	0.001	0.001	0.000000
2201510080	Mobile-Refuse Truck-Gas	0.019	0.077	0.582	0.001	0.000	0.001	0.000	0.000000
2201520080	Mobile-Single Unit Short-haul Truck-Gas	3.821	9.159	93.686	0.169	0.102	0.076	0.042	0.000000
2201530080	Mobile-Single Unit Long-haul Truck-Gas	0.224	0.704	5.921	0.012	0.006	0.007	0.004	0.000000
2201540080	Mobile-Motor Home-Gas	0.413	0.868	8.381	0.015	0.009	0.006	0.003	0.000000
2201610080	Mobile-Combination Short-haul Truck-Gas	0.061	0.120	1.315	0.002	0.002	0.000	0.000	0.000000
2202210080	Mobile-Passenger Car-Diesel	0.509	3.107	1.705	0.514	0.475	0.016	0.007	0.000000
2202310080	Mobile-Passenger Truck-Diesel	3.082	21.863	13.670	1.325	1.181	0.155	0.036	0.000000
2202320080	Mobile-Light Commercial Truck-Diesel	8.523	56.183	36.618	3.530	3.184	0.342	0.079	0.000000
2202410080	Mobile-Intercity Bus-Diesel	0.285	6.413	1.983	0.330	0.296	0.012	0.007	0.000000
2202420080	Mobile-Transit Bus-Diesel	0.111	1.722	0.840	0.087	0.080	0.003	0.002	0.000000
2202430080	Mobile-School Bus-Diesel	0.452	3.629	4.717	0.197	0.167	0.011	0.005	0.000000
2202510080	Mobile-Refuse Truck-Diesel	0.136	2.965	0.851	0.154	0.136	0.008	0.004	0.000000
2202520080	Mobile-Single Unit Short-haul Truck-Diesel	2.255	20.888	11.771	1.259	1.073	0.100	0.031	0.000000
2202530080	Mobile-Single Unit Long-haul Truck-Diesel	0.198	1.735	0.970	0.108	0.091	0.009	0.003	0.000000
2202540080	Mobile-Motor Home-Diesel	0.055	0.543	0.248	0.031	0.028	0.002	0.001	0.000000
2202610080	Mobile-Combination Short-haul Truck-Diesel	4.689	116.244	28.271	5.727	5.106	0.293	0.167	0.000000
2202620080	Mobile-Combination Long-haul Truck-Diesel	9.561	145.092	39.401	6.089	5.455	0.277	0.171	0.000000
2203420080	Mobile-Transit Bus-CNG	0.000	0.051	0.464	0.001	0.000	0.000	0.000	0.000000
Windham County Total for All Source Use Types		774.461	1,323.056	8,564.796	63.449	45.869	38.511	10.081	0.000

Appendix B

Table 40: SUMMER WEEKDAY 2011 ONROAD EMISSIONS BY SCC FOR FAIRFIELD COUNTY (Excluding Refueling Emissions)

SCC	Source Category	Summer Day Emissions (Pounds per Day)		
		VOC	NOX	CO
2201110080	Mobile-Motorcycle-Gas	1,312.495	140.155	3,414.687
2201210080	Mobile-Passenger Car-Gas	14,880.715	17,495.723	128,021.567
2201310080	Mobile-Passenger Truck-Gas	10,440.476	18,728.154	130,563.714
2201320080	Mobile-Light Commercial Truck-Gas	3,511.111	6,401.713	45,302.246
2201420080	Mobile-Transit Bus-Gas	0.189	0.413	4.851
2201430080	Mobile-School Bus-Gas	5.420	6.272	149.327
2201510080	Mobile-Refuse Truck-Gas	0.622	1.953	15.601
2201520080	Mobile-Single Unit Short-haul Truck-Gas	157.776	321.355	3,272.275
2201530080	Mobile-Single Unit Long-haul Truck-Gas	12.419	33.509	279.483
2201540080	Mobile-Motor Home-Gas	25.026	40.481	384.301
2201610080	Mobile-Combination Short-haul Truck-Gas	2.029	3.400	37.639
2202210080	Mobile-Passenger Car-Diesel	13.752	141.180	86.946
2202310080	Mobile-Passenger Truck-Diesel	147.039	1,287.307	910.757
2202320080	Mobile-Light Commercial Truck-Diesel	392.138	3,158.749	2,349.200
2202410080	Mobile-Intercity Bus-Diesel	14.812	284.795	105.321
2202420080	Mobile-Transit Bus-Diesel	5.366	77.888	42.748
2202430080	Mobile-School Bus-Diesel	10.836	104.166	183.870
2202510080	Mobile-Refuse Truck-Diesel	4.300	80.491	26.145
2202520080	Mobile-Single Unit Short-haul Truck-Diesel	92.729	807.656	482.802
2202530080	Mobile-Single Unit Long-haul Truck-Diesel	11.733	93.037	54.804
2202540080	Mobile-Motor Home-Diesel	3.431	29.004	13.520
2202610080	Mobile-Combination Short-haul Truck-Diesel	176.471	3,645.161	1,025.599
2202620080	Mobile-Combination Long-haul Truck-Diesel	591.027	6,930.316	2,298.764
2203420080	Mobile-Transit Bus-CNG	0.000	2.663	23.661
Fairfield County Total for All Source Use Types		31,811.913	59,815.543	319,049.829

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Table 41: SUMMER WEEKDAY 2011 ONROAD EMISSIONS BY SCC FOR HARTFORD COUNTY (Excluding Refueling Emissions)

SCC	Source Category	Summer Day Emissions (Pounds per Day)		
		VOC	NOX	CO
2201110080	Mobile-Motorcycle-Gas	1,682.102	149.958	3,606.245
2201210080	Mobile-Passenger Car-Gas	15,531.114	17,790.779	140,634.088
2201310080	Mobile-Passenger Truck-Gas	9,758.830	18,512.759	136,990.373
2201320080	Mobile-Light Commercial Truck-Gas	3,324.315	6,401.495	47,641.472
2201420080	Mobile-Transit Bus-Gas	0.191	0.448	5.233
2201430080	Mobile-School Bus-Gas	5.211	6.261	147.918
2201510080	Mobile-Refuse Truck-Gas	0.823	2.572	21.794
2201520080	Mobile-Single Unit Short-haul Truck-Gas	190.868	367.180	4,128.374
2201530080	Mobile-Single Unit Long-haul Truck-Gas	12.110	31.581	289.160
2201540080	Mobile-Motor Home-Gas	26.175	37.854	392.815
2201610080	Mobile-Combination Short-haul Truck-Gas	2.796	4.529	53.007
2202210080	Mobile-Passenger Car-Diesel	13.551	139.848	90.505
2202310080	Mobile-Passenger Truck-Diesel	142.244	1,222.886	919.307
2202320080	Mobile-Light Commercial Truck-Diesel	385.898	3,045.049	2,407.483
2202410080	Mobile-Intercity Bus-Diesel	15.299	313.907	111.343
2202420080	Mobile-Transit Bus-Diesel	5.527	84.877	45.110
2202430080	Mobile-School Bus-Diesel	10.145	104.699	178.634
2202510080	Mobile-Refuse Truck-Diesel	5.234	105.062	34.128
2202520080	Mobile-Single Unit Short-haul Truck-Diesel	93.347	850.988	549.600
2202530080	Mobile-Single Unit Long-haul Truck-Diesel	9.825	81.335	50.975
2202540080	Mobile-Motor Home-Diesel	2.864	25.875	12.421
2202610080	Mobile-Combination Short-haul Truck-Diesel	215.152	4,756.007	1,311.752
2202620080	Mobile-Combination Long-haul Truck-Diesel	481.010	6,038.929	1,951.689
2203420080	Mobile-Transit Bus-CNG	0.000	2.976	26.295
Hartford County Total for All Source Use Types		31,914.631	60,077.854	341,599.718

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Table 42: SUMMER WEEKDAY 2011 ONROAD EMISSIONS BY SCC FOR LITCHFIELD COUNTY (Excluding Refueling Emissions)

SCC	Source Category	Summer Day Emissions (Pounds per Day)		
		VOC	NOX	CO
2201110080	Mobile-Motorcycle-Gas	624.506	62.515	1,357.750
2201210080	Mobile-Passenger Car-Gas	3,235.208	3,268.029	24,785.874
2201310080	Mobile-Passenger Truck-Gas	2,465.437	3,618.250	27,317.457
2201320080	Mobile-Light Commercial Truck-Gas	872.963	1,312.067	10,294.260
2201420080	Mobile-Transit Bus-Gas	0.030	0.045	0.742
2201430080	Mobile-School Bus-Gas	1.299	1.167	36.501
2201510080	Mobile-Refuse Truck-Gas	0.141	0.297	3.183
2201520080	Mobile-Single Unit Short-haul Truck-Gas	45.510	55.556	918.520
2201530080	Mobile-Single Unit Long-haul Truck-Gas	1.952	3.149	43.675
2201540080	Mobile-Motor Home-Gas	4.420	3.637	49.797
2201610080	Mobile-Combination Short-haul Truck-Gas	0.531	0.628	8.830
2202210080	Mobile-Passenger Car-Diesel	2.624	24.789	16.621
2202310080	Mobile-Passenger Truck-Diesel	24.543	202.362	159.570
2202320080	Mobile-Light Commercial Truck-Diesel	69.644	529.495	437.253
2202410080	Mobile-Intercity Bus-Diesel	1.691	31.866	13.372
2202420080	Mobile-Transit Bus-Diesel	0.533	7.743	5.317
2202430080	Mobile-School Bus-Diesel	1.553	14.463	41.589
2202510080	Mobile-Refuse Truck-Diesel	0.614	11.210	4.652
2202520080	Mobile-Single Unit Short-haul Truck-Diesel	13.183	110.236	105.768
2202530080	Mobile-Single Unit Long-haul Truck-Diesel	1.001	7.605	6.683
2202540080	Mobile-Motor Home-Diesel	0.297	2.381	1.610
2202610080	Mobile-Combination Short-haul Truck-Diesel	29.959	622.255	191.675
2202620080	Mobile-Combination Long-haul Truck-Diesel	60.485	715.989	250.245
2203420080	Mobile-Transit Bus-CNG	0.000	0.257	2.470
Litchfield County Total for All Source Use Types		7,458.123	10,605.990	66,053.411

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Table 43: SUMMER WEEKDAY 2011 ONROAD EMISSIONS BY SCC FOR MIDDLESEX COUNTY (Excluding Refueling Emissions)

SCC	Source Category	Summer Day Emissions (Pounds per Day)		
		VOC	NOX	CO
2201110080	Mobile-Motorcycle-Gas	381.747	35.401	789.434
2201210080	Mobile-Passenger Car-Gas	2,950.390	3,688.411	28,857.148
2201310080	Mobile-Passenger Truck-Gas	2,141.141	4,076.020	30,028.334
2201320080	Mobile-Light Commercial Truck-Gas	742.728	1,436.576	10,700.692
2201420080	Mobile-Transit Bus-Gas	0.020	0.063	0.590
2201430080	Mobile-School Bus-Gas	1.197	1.883	34.674
2201510080	Mobile-Refuse Truck-Gas	0.149	0.541	4.305
2201520080	Mobile-Single Unit Short-haul Truck-Gas	36.142	80.513	821.238
2201530080	Mobile-Single Unit Long-haul Truck-Gas	2.777	8.526	70.480
2201540080	Mobile-Motor Home-Gas	5.769	10.260	97.483
2201610080	Mobile-Combination Short-haul Truck-Gas	0.491	0.911	10.078
2202210080	Mobile-Passenger Car-Diesel	2.778	27.798	18.119
2202310080	Mobile-Passenger Truck-Diesel	29.331	237.380	183.774
2202320080	Mobile-Light Commercial Truck-Diesel	81.463	604.920	491.747
2202410080	Mobile-Intercity Bus-Diesel	2.153	45.886	14.752
2202420080	Mobile-Transit Bus-Diesel	0.789	12.466	5.793
2202430080	Mobile-School Bus-Diesel	3.593	38.081	45.011
2202510080	Mobile-Refuse Truck-Diesel	1.060	22.019	6.842
2202520080	Mobile-Single Unit Short-haul Truck-Diesel	19.856	181.390	113.505
2202530080	Mobile-Single Unit Long-haul Truck-Diesel	2.535	20.975	12.903
2202540080	Mobile-Motor Home-Diesel	0.736	6.717	3.152
2202610080	Mobile-Combination Short-haul Truck-Diesel	41.157	952.781	252.042
2202620080	Mobile-Combination Long-haul Truck-Diesel	116.840	1,546.106	480.135
2203420080	Mobile-Transit Bus-CNG	0.000	0.439	3.836
Middlesex County Total for All Source Use Types		6,564.842	13,036.060	73,046.068

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Table 44: SUMMER WEEKDAY 2011 ONROAD EMISSIONS BY SCC FOR NEW HAVEN COUNTY (Excluding Refueling Emissions)

SCC	Source Category	Summer Day Emissions (Pounds per Day)		
		VOC	NOX	CO
2201110080	Mobile-Motorcycle-Gas	1,384.270	129.607	3,164.209
2201210080	Mobile-Passenger Car-Gas	13,703.734	16,361.393	124,084.546
2201310080	Mobile-Passenger Truck-Gas	8,755.072	17,102.112	121,227.810
2201320080	Mobile-Light Commercial Truck-Gas	2,986.135	5,924.468	42,326.333
2201420080	Mobile-Transit Bus-Gas	0.163	0.400	4.490
2201430080	Mobile-School Bus-Gas	5.198	6.528	149.280
2201510080	Mobile-Refuse Truck-Gas	0.662	2.224	17.921
2201520080	Mobile-Single Unit Short-haul Truck-Gas	157.714	333.681	3,457.506
2201530080	Mobile-Single Unit Long-haul Truck-Gas	12.077	34.473	290.946
2201540080	Mobile-Motor Home-Gas	24.704	41.515	401.030
2201610080	Mobile-Combination Short-haul Truck-Gas	2.152	3.764	42.130
2202210080	Mobile-Passenger Car-Diesel	12.762	130.444	81.299
2202310080	Mobile-Passenger Truck-Diesel	134.290	1,160.893	831.966
2202320080	Mobile-Light Commercial Truck-Diesel	363.764	2,889.813	2,177.840
2202410080	Mobile-Intercity Bus-Diesel	13.977	281.255	98.907
2202420080	Mobile-Transit Bus-Diesel	5.092	76.722	39.963
2202430080	Mobile-School Bus-Diesel	11.343	113.431	182.859
2202510080	Mobile-Refuse Truck-Diesel	4.671	91.758	29.136
2202520080	Mobile-Single Unit Short-haul Truck-Diesel	90.093	801.057	489.444
2202530080	Mobile-Single Unit Long-haul Truck-Diesel	11.264	90.995	54.656
2202540080	Mobile-Motor Home-Diesel	3.282	28.775	13.414
2202610080	Mobile-Combination Short-haul Truck-Diesel	185.029	4,008.037	1,097.248
2202620080	Mobile-Combination Long-haul Truck-Diesel	540.868	6,661.362	2,147.308
2203420080	Mobile-Transit Bus-CNG	0.000	2.649	23.223
New Haven County Total for All Source Use Types		28,408.315	56,277.357	302,433.465

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Table 45: SUMMER WEEKDAY 2011 ONROAD EMISSIONS BY SCC FOR NEW LONDON COUNTY (Excluding Refueling Emissions)

SCC	Source Category	Summer Day Emissions (Pounds per Day)		
		VOC	NOX	CO
2201110080	Mobile-Motorcycle-Gas	727.356	71.649	1,629.751
2201210080	Mobile-Passenger Car-Gas	4,882.448	6,087.634	46,828.329
2201310080	Mobile-Passenger Truck-Gas	3,456.955	6,738.983	48,583.156
2201320080	Mobile-Light Commercial Truck-Gas	1,173.231	2,329.683	16,967.435
2201420080	Mobile-Transit Bus-Gas	0.062	0.162	1.742
2201430080	Mobile-School Bus-Gas	1.789	2.334	51.037
2201510080	Mobile-Refuse Truck-Gas	0.236	0.845	6.727
2201520080	Mobile-Single Unit Short-haul Truck-Gas	57.396	128.650	1,277.848
2201530080	Mobile-Single Unit Long-haul Truck-Gas	5.012	15.358	124.032
2201540080	Mobile-Motor Home-Gas	10.907	18.566	172.923
2201610080	Mobile-Combination Short-haul Truck-Gas	0.797	1.434	16.020
2202210080	Mobile-Passenger Car-Diesel	4.516	47.345	30.250
2202310080	Mobile-Passenger Truck-Diesel	50.544	417.081	325.893
2202320080	Mobile-Light Commercial Truck-Diesel	137.120	1,039.687	853.621
2202410080	Mobile-Intercity Bus-Diesel	5.652	117.731	39.956
2202420080	Mobile-Transit Bus-Diesel	2.029	31.370	15.847
2202430080	Mobile-School Bus-Diesel	4.082	42.116	63.398
2202510080	Mobile-Refuse Truck-Diesel	1.721	35.013	10.882
2202520080	Mobile-Single Unit Short-haul Truck-Diesel	33.969	299.819	185.541
2202530080	Mobile-Single Unit Long-haul Truck-Diesel	4.890	38.935	23.934
2202540080	Mobile-Motor Home-Diesel	1.424	12.493	5.885
2202610080	Mobile-Combination Short-haul Truck-Diesel	67.235	1,521.751	407.919
2202620080	Mobile-Combination Long-haul Truck-Diesel	216.166	2,790.537	880.136
2203420080	Mobile-Transit Bus-CNG	0.000	1.103	9.668
New London County Total for All Source Use Types		10,845.537	21,790.277	118,511.931

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Table 46: SUMMER WEEKDAY 2011 ONROAD EMISSIONS BY SCC FOR TOLLAND COUNTY (Excluding Refueling Emissions)

SCC	Source Category	Summer Day Emissions (Pounds per Day)		
		VOC	NOX	CO
2201110080	Mobile-Motorcycle-Gas	467.643	42.969	969.078
2201210080	Mobile-Passenger Car-Gas	2,567.436	3,086.770	23,519.761
2201310080	Mobile-Passenger Truck-Gas	1,868.824	3,437.228	24,840.445
2201320080	Mobile-Light Commercial Truck-Gas	648.961	1,218.713	8,966.870
2201420080	Mobile-Transit Bus-Gas	0.042	0.135	1.220
2201430080	Mobile-School Bus-Gas	0.921	1.501	25.993
2201510080	Mobile-Refuse Truck-Gas	0.111	0.396	3.166
2201520080	Mobile-Single Unit Short-haul Truck-Gas	31.115	69.315	690.224
2201530080	Mobile-Single Unit Long-haul Truck-Gas	2.703	8.249	66.739
2201540080	Mobile-Motor Home-Gas	5.908	9.978	92.143
2201610080	Mobile-Combination Short-haul Truck-Gas	0.436	0.784	8.805
2202210080	Mobile-Passenger Car-Diesel	2.342	24.139	15.499
2202310080	Mobile-Passenger Truck-Diesel	25.861	210.803	167.266
2202320080	Mobile-Light Commercial Truck-Diesel	71.603	537.015	447.464
2202410080	Mobile-Intercity Bus-Diesel	1.035	21.601	6.906
2202420080	Mobile-Transit Bus-Diesel	1.799	27.774	12.646
2202430080	Mobile-School Bus-Diesel	3.198	33.219	35.241
2202510080	Mobile-Refuse Truck-Diesel	0.812	16.479	5.135
2202520080	Mobile-Single Unit Short-haul Truck-Diesel	18.656	161.682	101.639
2202530080	Mobile-Single Unit Long-haul Truck-Diesel	2.685	20.938	13.111
2202540080	Mobile-Motor Home-Diesel	0.783	6.732	3.228
2202610080	Mobile-Combination Short-haul Truck-Diesel	36.749	833.370	223.537
2202620080	Mobile-Combination Long-haul Truck-Diesel	118.108	1,527.707	481.941
2203420080	Mobile-Transit Bus-CNG	0.000	0.974	8.551
Tolland County Total for All Source Use Types		5,877.732	11,298.470	60,706.608

Appendix B

Table 47: SUMMER WEEKDAY 2011 ONROAD EMISSIONS BY SCC FOR WINDHAM COUNTY (Excluding Refueling Emissions)

SCC	Source Category	Summer Day Emissions (Pounds per Day)		
		VOC	NOX	CO
2201110080	Mobile-Motorcycle-Gas	421.463	36.867	810.304
2201210080	Mobile-Passenger Car-Gas	1,917.107	2,219.451	17,211.229
2201310080	Mobile-Passenger Truck-Gas	1,431.680	2,469.548	18,378.893
2201320080	Mobile-Light Commercial Truck-Gas	501.858	882.825	6,710.414
2201420080	Mobile-Transit Bus-Gas	0.023	0.050	0.622
2201430080	Mobile-School Bus-Gas	0.929	1.045	26.372
2201510080	Mobile-Refuse Truck-Gas	0.132	0.402	3.509
2201520080	Mobile-Single Unit Short-haul Truck-Gas	27.287	49.616	588.951
2201530080	Mobile-Single Unit Long-haul Truck-Gas	1.495	3.715	35.864
2201540080	Mobile-Motor Home-Gas	3.267	4.425	47.226
2201610080	Mobile-Combination Short-haul Truck-Gas	0.434	0.630	7.857
2202210080	Mobile-Passenger Car-Diesel	1.686	17.063	11.161
2202310080	Mobile-Passenger Truck-Diesel	17.734	146.057	114.894
2202320080	Mobile-Light Commercial Truck-Diesel	49.649	376.127	310.443
2202410080	Mobile-Intercity Bus-Diesel	1.698	35.120	12.652
2202420080	Mobile-Transit Bus-Diesel	0.590	9.255	5.095
2202430080	Mobile-School Bus-Diesel	1.595	16.607	31.276
2202510080	Mobile-Refuse Truck-Diesel	0.799	16.213	5.386
2202520080	Mobile-Single Unit Short-haul Truck-Diesel	12.190	110.777	76.261
2202530080	Mobile-Single Unit Long-haul Truck-Diesel	1.129	9.299	6.162
2202540080	Mobile-Motor Home-Diesel	0.329	2.963	1.493
2202610080	Mobile-Combination Short-haul Truck-Diesel	28.344	637.745	179.476
2202620080	Mobile-Combination Long-haul Truck-Diesel	60.402	774.225	252.002
2203420080	Mobile-Transit Bus-CNG	0.000	0.322	2.924
Windham County Total for All Source Use Types		4,481.820	7,820.347	44,830.467

Appendix C

NONROAD MOBILE

SOURCE TABLES

TABLE 1
Summary of 2011 NONROAD Model Summer Day Commands and Codes^A

PROGRAM PARAMETER	REGION		
	Summer Season ^A		
	Hartford, Litchfield, New London, Tolland, and Windham Counties	Fairfield County	Middlesex and New Haven Counties
Seasonal Period	Summer ^A	Summer ^A	Summer ^A
Year	2011		
Type	Typical Day		
Fuel RVP for Gas (psi)	7.09	7.05	7.09
Oxygen weight %	3.38 (3.57) ^C	3.43 (3.62) ^C	3.38 (3.57) ^C
Gas Sulfur %	0.0033	0.0034	0.0033
Diesel Sulfur %	0.0031		
Marine Diesel Sulfur %	0.0035		
CNG/LPG Sulfur %	0.003		
Minimum temp (°F)	67.7 ^B	66.5 ^B	66.5 ^B
Maximum temp (°F)	95.5 ^B	91.6 ^B	91.6 ^B
Average temp (°F)	86.2 ^B	83.2 ^B	83.2 ^B
Stage II Control %	0.0		
EtOH blend Market %	100	100	100
EtOH	9.67	9.80	9.67

^A Parameters used for summer day emissions only are provided in this table. Annual emissions were based on EPA National Emission Inventory (NEI) 2011 National County Database as described in the EPA's NEI version 1 Technical Support Documentation.

^B 2002 8-Hour Ozone Design Values with Consideration of 2000 Census Results for Status Area Determination.

^C Oxygen concentrations in parenthesis were reduced to align with EtOH input to clear an error message thrown by the model. This resulted in a small decrease in calculated NOx emissions and small increases in calculated CO and VOC emissions..

TABLE 2
NONROAD Model 09000.POP Connecticut Specific Equipment Population File

This file contains the equipment population estimates for the NONROAD model. These data drive the rest of the model in terms of which equipment types will be processed. Unless overwritten by user options, all of the data in this file will be processed and written to the output data file. The model will use the closest year which comes before the episode year. Population estimates for an entire state may be allocated to county level.

8/12/05 25a, NR05 release: like 25 but corrects SI 50-100 bin(s) properly into 50-75 & 75-100.
12/12/05 25e, like 25a but updates OB & PWC HPavg per Samulski (Cert data).
3/31/06 25f, like 25e but adds CMV <= 50hp as SCC 22800002030 (propulsion) & 2280002040 (aux)
5/12/06 25g, like 25f but change CMV 22800002030/40 pops & life.
8/24/06 25h, like 25g but updates SI SDI rec marine 600-750 hp pop from 1 to 7500, 650 HPavg, 8 yr MedLife, 30 hrs/yr.
7/21/08 25j, like 25h but remove 2280* temporary <50hp commercial marine (was just for Loco/Marine rule modeling).
12/16/11 MARAMA/MACTEC updated rec marine populations by AMEC for 2007, 2017 and 2020
12/16/11 update by AMEC.
01/07/13 Connecticut DEEP updated rec marine populations for 2011 by interpolating the 2007 and 2017

NOTE: Many of the <25hp SI engine pop numbers have been "lumped" into either 2-stroke or 4-stroke SCC. Differing EF's are handled by Tech Type within that SCC.

The format of the data is as follows:

1 - 5 FIPS code
7 - 11 subregion code (used for subcounty estimates)
13 - 16 year of population estimates
18 - 27 SCC code (no globals accepted)
29 - 68 equipment description (ignored)
70 - 74 minimum HP range
76 - 80 maximum HP range (ranges must match those internal to model)
82 - 86 average HP in range (if blank model uses midpoint)
88 - 92 expected useful life (in hours of use)
93 - 102 flag for scrappage distribution curve (DEFAULT = standard curve)
106 - 122 population estimate
State 09000 CT Connecticut
1,477,961.0

TABLE 2 (Continued)
NONROAD Model 09000.POP Connecticut Specific Equipment Population File

FIPS	Year	SCC	Equipment Description	HPmn	HPmx	HPavg	Life	ScrapFlag	Population

/POPULATION/									
09000	1999	2260001020	2-Str Snowmobiles	1	3	2.5	252	DEFAULT	5.6
09000	1999	2260001020	2-Str Snowmobiles	3	6	4	252	DEFAULT	3.3
09000	1999	2260001020	2-Str Snowmobiles	11	16	15.66	252	DEFAULT	3.5
09000	1999	2260001020	2-Str Snowmobiles	16	25	20.26	252	DEFAULT	280.2
09000	1999	2260001020	2-Str Snowmobiles	25	40	32.86	252	DEFAULT	282.9
09000	1999	2260001020	2-Str Snowmobiles	40	50	45.68	252	DEFAULT	127.0
09000	1999	2260001020	2-Str Snowmobiles	50	75	58.48	252	DEFAULT	447.3
09000	1999	2260001020	2-Str Snowmobiles	75	100	85.78	252	DEFAULT	183.8
09000	1999	2260001020	2-Str Snowmobiles	100	175	112.4	252	DEFAULT	47.9
09000	1998	2260001010	2-Str Offroad Motorcycles	0	1	1	19200	DEFAULT	5188.6
09000	1998	2265001010	4-Str Offroad Motorcycles	0	1	1	19200	DEFAULT	2555.6
09000	1998	2260001030	2-Str All Terrain Vehicles	0	1	1	20410	DEFAULT	2622.4
09000	1998	2265001030	4-Str All Terrain Vehicles	0	1	1	20410	DEFAULT	22695.3
09000	1998	2265001050	4-Str Golf Carts	6	11	9.15	400	DEFAULT	2327.3
09000	1998	2260001060	2-Str Specialty Vehicle Carts	6	11	8.046	200	DEFAULT	3923.0
09000	1998	2260001060	2-Str Specialty Vehicle Carts	25	40	37	942	DEFAULT	1.2
09000	1998	2260001060	2-Str Specialty Vehicle Carts	50	75	55	942	DEFAULT	0.7
09000	1998	2265001060	4-Str Specialty Vehicle Carts	1	3	3	200	DEFAULT	2.0
09000	1998	2265001060	4-Str Specialty Vehicle Carts	3	6	4.424	200	DEFAULT	80.6
09000	1998	2265001060	4-Str Specialty Vehicle Carts	11	16	15.99	400	DEFAULT	152.6
09000	1998	2265001060	4-Str Specialty Vehicle Carts	16	25	19.62	750	DEFAULT	1201.9
09000	1998	2265001060	4-Str Specialty Vehicle Carts	25	40	30.55	942	DEFAULT	12.3
09000	1998	2265001060	4-Str Specialty Vehicle Carts	40	50	46	942	DEFAULT	0.3
09000	1998	2265001060	4-Str Specialty Vehicle Carts	50	75	61.48	942	DEFAULT	29.7
09000	1998	2265001060	4-Str Specialty Vehicle Carts	75	100	86.5	942	DEFAULT	0.2
09000	1998	2265001060	4-Str Specialty Vehicle Carts	100	175	118.3	942	DEFAULT	11.2
09000	1998	2267001060	LPG - Specialty Vehicle Carts	25	40	30.55	942	DEFAULT	12.3
09000	1998	2267001060	LPG - Specialty Vehicle Carts	40	50	46	942	DEFAULT	0.3
09000	1998	2267001060	LPG - Specialty Vehicle Carts	50	75	61.48	942	DEFAULT	29.7
09000	1998	2267001060	LPG - Specialty Vehicle Carts	75	100	86.5	942	DEFAULT	0.2
09000	1998	2267001060	LPG - Specialty Vehicle Carts	100	175	118.3	942	DEFAULT	11.2
09000	1998	2265002003	4-Str Pavers	3	6	5.35	200	DEFAULT	6.6
09000	1998	2265002003	4-Str Pavers	6	11	9.328	400	DEFAULT	46.2
09000	1998	2265002003	4-Str Pavers	11	16	12.56	400	DEFAULT	2.1
09000	1998	2265002003	4-Str Pavers	16	25	20.85	750	DEFAULT	16.7
09000	1998	2265002003	4-Str Pavers	25	40	31.75	1500	DEFAULT	2.8
09000	1998	2265002003	4-Str Pavers	50	75	62.41	3000	DEFAULT	3.1
09000	1998	2267002003	LPG - Pavers	25	40	31.75	1500	DEFAULT	2.8
09000	1998	2267002003	LPG - Pavers	50	75	62.41	3000	DEFAULT	3.1
09000	1998	2260002006	2-Str Tampers/Rammers	3	6	3.75	200	DEFAULT	1381.3
09000	1998	2265002006	4-Str Tampers/Rammers	6	11	7.518	400	DEFAULT	3.0
09000	1998	2260002009	2-Str Plate Compactors	1	3	1.649	150	DEFAULT	129.8
09000	1998	2265002009	4-Str Plate Compactors	3	6	4.409	200	DEFAULT	658.6
09000	1998	2265002009	4-Str Plate Compactors	6	11	8.225	400	DEFAULT	202.8
09000	1998	2265002009	4-Str Plate Compactors	11	16	12.67	400	DEFAULT	35.9
09000	1998	2265002015	4-Str Rollers	6	11	8.901	400	DEFAULT	49.9
09000	1998	2265002015	4-Str Rollers	11	16	14.82	400	DEFAULT	8.9

TABLE 2 (Continued)
NONROAD Model 09000.POP Connecticut Specific Equipment Population File

FIPS	Year	SCC	Equipment Description	HPmn	HPmx	HPavg	Life	ScrapFlag	Population
09000	1998	2265002015	4-Str Rollers	16	25	19.08	750	DEFAULT	23.2
09000	1998	2265002015	4-Str Rollers	25	40	36.82	1500	DEFAULT	2.7
09000	1998	2265002015	4-Str Rollers	50	75	60.76	3000	DEFAULT	1.9
09000	1998	2265002015	4-Str Rollers	75	100	83	3000	DEFAULT	1.3
09000	1998	2267002015	LPG - Rollers	25	40	36.82	1500	DEFAULT	2.7
09000	1998	2267002015	LPG - Rollers	50	75	60.76	3000	DEFAULT	1.9
09000	1998	2267002015	LPG - Rollers	75	100	83	3000	DEFAULT	1.3
09000	1998	2260002021	2-Str Paving Equipment	1	3	1.823	150	DEFAULT	124.3
09000	1998	2265002021	4-Str Paving Equipment	3	6	5.136	200	DEFAULT	363.6
09000	1998	2265002021	4-Str Paving Equipment	6	11	8.535	400	DEFAULT	308.4
09000	1998	2265002021	4-Str Paving Equipment	11	16	13.26	400	DEFAULT	154.4
09000	1998	2265002021	4-Str Paving Equipment	16	25	20	750	DEFAULT	108.8
09000	1998	2265002021	4-Str Paving Equipment	25	40	36.6	1500	DEFAULT	4.4
09000	1998	2265002021	4-Str Paving Equipment	50	75	66	2581	DEFAULT	0.4
09000	1998	2267002021	LPG - Paving Equipment	25	40	36.6	1500	DEFAULT	4.4
09000	1998	2267002021	LPG - Paving Equipment	50	75	66	2581	DEFAULT	0.4
09000	1998	2265002024	4-Str Surfacing Equipment	3	6	5.16	200	DEFAULT	54.0
09000	1998	2265002024	4-Str Surfacing Equipment	6	11	8.918	400	DEFAULT	83.2
09000	1998	2265002024	4-Str Surfacing Equipment	11	16	15.61	400	DEFAULT	24.0
09000	1998	2265002024	4-Str Surfacing Equipment	16	25	19.05	750	DEFAULT	10.1
09000	1998	2265002024	4-Str Surfacing Equipment	25	40	30.24	1500	DEFAULT	1.0
09000	1998	2265002024	4-Str Surfacing Equipment	50	75	66	3000	DEFAULT	0.4
09000	1998	2267002024	LPG - Surfacing Equipment	25	40	30.24	1500	DEFAULT	1.0
09000	1998	2267002024	LPG - Surfacing Equipment	50	75	66	3000	DEFAULT	0.4
09000	1998	2260002027	2-Str Signal Boards/Light Plants	1	3	2.2	150	DEFAULT	0.3
09000	1998	2265002027	4-Str Signal Boards/Light Plants	3	6	5.032	200	DEFAULT	6.1
09000	1998	2265002027	4-Str Signal Boards/Light Plants	6	11	8.25	400	DEFAULT	6.1
09000	1998	2265002027	4-Str Signal Boards/Light Plants	16	25	18	750	DEFAULT	0.2
09000	1998	2265002030	4-Str Trenchers	1	3	3	200	DEFAULT	0.3
09000	1998	2265002030	4-Str Trenchers	3	6	5.211	200	DEFAULT	94.5
09000	1998	2265002030	4-Str Trenchers	6	11	8.883	400	DEFAULT	92.5
09000	1998	2265002030	4-Str Trenchers	11	16	13.44	400	DEFAULT	33.1
09000	1998	2265002030	4-Str Trenchers	16	25	19.3	750	DEFAULT	37.7
09000	1998	2265002030	4-Str Trenchers	25	40	30	1500	DEFAULT	6.3
09000	1998	2265002030	4-Str Trenchers	50	75	61.69	3000	DEFAULT	5.3
09000	1998	2265002030	4-Str Trenchers	75	100	80	3000	DEFAULT	4.2
09000	1998	2267002030	LPG - Trenchers	25	40	30	1500	DEFAULT	6.3
09000	1998	2267002030	LPG - Trenchers	50	75	61.69	3000	DEFAULT	5.3
09000	1998	2267002030	LPG - Trenchers	75	100	80	3000	DEFAULT	4.2
09000	1998	2265002033	4-Str Bore/Drill Rigs	0	1	0.9	200	DEFAULT	39.0
09000	1998	2265002033	4-Str Bore/Drill Rigs	1	3	2.209	200	DEFAULT	798.1
09000	1998	2265002033	4-Str Bore/Drill Rigs	3	6	4.809	200	DEFAULT	32.3
09000	1998	2265002033	4-Str Bore/Drill Rigs	6	11	8.754	400	DEFAULT	9.9
09000	1998	2265002033	4-Str Bore/Drill Rigs	11	16	16	400	DEFAULT	12.5
09000	1998	2265002033	4-Str Bore/Drill Rigs	16	25	21.31	750	DEFAULT	8.2
09000	1998	2265002033	4-Str Bore/Drill Rigs	25	40	31.39	1500	DEFAULT	3.3
09000	1998	2265002033	4-Str Bore/Drill Rigs	50	75	61.34	2113	DEFAULT	3.0
09000	1998	2265002033	4-Str Bore/Drill Rigs	100	175	118.1	2113	DEFAULT	5.0
09000	1998	2267002033	LPG - Bore/Drill Rigs	25	40	31.39	1500	DEFAULT	3.3
09000	1998	2267002033	LPG - Bore/Drill Rigs	50	75	61.34	2113	DEFAULT	3.0

TABLE 2 (Continued)
NONROAD Model 09000.POP Connecticut Specific Equipment Population File

FIPS	Year	SCC	Equipment Description	HPmn	HPmx	HPavg	Life	ScrapFlag	Population
09000	1998	2267002033	LPG - Bore/Drill Rigs	100	175	118.1	2113	DEFAULT	5.0
09000	1998	2260002039	2-Str Concrete/Industrial Saws	1	3	1.897	150	DEFAULT	102.1
09000	1998	2260002039	2-Str Concrete/Industrial Saws	3	6	4.532	200	DEFAULT	489.1
09000	1998	2265002039	4-Str Concrete/Industrial Saws	6	11	8.535	400	DEFAULT	251.5
09000	1998	2265002039	4-Str Concrete/Industrial Saws	11	16	14.68	400	DEFAULT	52.7
09000	1998	2265002039	4-Str Concrete/Industrial Saws	16	25	19.41	750	DEFAULT	23.2
09000	1998	2265002039	4-Str Concrete/Industrial Saws	25	40	34.79	1500	DEFAULT	6.4
09000	1998	2265002039	4-Str Concrete/Industrial Saws	50	75	65.78	3000	DEFAULT	3.5
09000	1998	2267002039	LPG - Concrete/Industrial Saws	25	40	34.79	1500	DEFAULT	6.4
09000	1998	2267002039	LPG - Concrete/Industrial Saws	50	75	65.78	3000	DEFAULT	3.5
09000	1998	2265002042	4-Str Cement & Mortar Mixers	1	3	2.89	200	DEFAULT	13.8
09000	1998	2265002042	4-Str Cement & Mortar Mixers	3	6	5.22	200	DEFAULT	775.6
09000	1998	2265002042	4-Str Cement & Mortar Mixers	6	11	8.373	400	DEFAULT	1295.8
09000	1998	2265002042	4-Str Cement & Mortar Mixers	11	16	13.52	400	DEFAULT	44.0
09000	1998	2265002042	4-Str Cement & Mortar Mixers	16	25	17.87	750	DEFAULT	33.7
09000	1998	2265002045	4-Str Cranes	6	11	8	400	DEFAULT	1.3
09000	1998	2265002045	4-Str Cranes	11	16	14.02	400	DEFAULT	1.9
09000	1998	2265002045	4-Str Cranes	16	25	18.16	750	DEFAULT	0.7
09000	1998	2265002045	4-Str Cranes	25	40	37	1500	DEFAULT	0.0
09000	1998	2265002045	4-Str Cranes	50	75	69.04	3000	DEFAULT	4.6
09000	1998	2265002045	4-Str Cranes	100	175	115.2	3000	DEFAULT	0.7
09000	1998	2267002045	LPG - Cranes	25	40	37	1500	DEFAULT	0.0
09000	1998	2267002045	LPG - Cranes	50	75	69.04	3000	DEFAULT	4.6
09000	1998	2267002045	LPG - Cranes	100	175	115.2	3000	DEFAULT	0.7
09000	1998	2260002054	2-Str Crushing/Proc. Equipment	1	3	1.8	150	DEFAULT	12.5
09000	1998	2265002054	4-Str Crushing/Proc. Equipment	3	6	4.321	200	DEFAULT	17.5
09000	1998	2265002054	4-Str Crushing/Proc. Equipment	6	11	8.93	400	DEFAULT	32.0
09000	1998	2265002054	4-Str Crushing/Proc. Equipment	11	16	16	400	DEFAULT	8.2
09000	1998	2265002054	4-Str Crushing/Proc. Equipment	50	75	62.53	3000	DEFAULT	1.0
09000	1998	2267002054	LPG - Crushing/Proc. Equipment	50	75	62.53	3000	DEFAULT	1.0
09000	1998	2265002057	4-Str Rough Terrain Forklift	16	25	23	750	DEFAULT	0.3
09000	1998	2265002057	4-Str Rough Terrain Forklift	25	40	29	1500	DEFAULT	1.0
09000	1998	2265002057	4-Str Rough Terrain Forklift	40	50	46	1500	DEFAULT	0.0
09000	1998	2265002057	4-Str Rough Terrain Forklift	50	75	65.9	3000	DEFAULT	6.6
09000	1998	2265002057	4-Str Rough Terrain Forklift	75	100	80	3000	DEFAULT	0.0
09000	1998	2265002057	4-Str Rough Terrain Forklift	100	175	113.3	3000	DEFAULT	0.8
09000	1998	2267002057	LPG - Rough Terrain Forklift	25	40	29	1500	DEFAULT	1.0
09000	1998	2267002057	LPG - Rough Terrain Forklift	40	50	46	1500	DEFAULT	0.0
09000	1998	2267002057	LPG - Rough Terrain Forklift	50	75	65.9	3000	DEFAULT	6.6
09000	1998	2267002057	LPG - Rough Terrain Forklift	75	100	80	3000	DEFAULT	0.0
09000	1998	2267002057	LPG - Rough Terrain Forklift	100	175	113.3	3000	DEFAULT	0.8
09000	1998	2265002060	4-Str Rubber Tire Loaders	25	40	37	1500	DEFAULT	0.3
09000	1998	2265002060	4-Str Rubber Tire Loaders	50	75	70.4	3000	DEFAULT	13.1
09000	1998	2265002060	4-Str Rubber Tire Loaders	100	175	113.0	3000	DEFAULT	0.4
09000	1998	2267002060	LPG - Rubber Tire Loaders	25	40	37	1500	DEFAULT	0.3
09000	1998	2267002060	LPG - Rubber Tire Loaders	50	75	70.4	3000	DEFAULT	13.1
09000	1998	2267002060	LPG - Rubber Tire Loaders	100	175	113	3000	DEFAULT	0.4
09000	1998	2265002066	4-Str Tractors/Loaders/Backhoes	6	11	10.8	400	DEFAULT	3.2
09000	1998	2265002066	4-Str Tractors/Loaders/Backhoes	16	25	19.08	750	DEFAULT	66.9
09000	1998	2265002066	4-Str Tractors/Loaders/Backhoes	25	40	30	1500	DEFAULT	0.2

TABLE 2 (Continued)
NONROAD Model 09000.POP Connecticut Specific Equipment Population File

FIPS	Year	SCC	Equipment Description	HPmn	HPmx	HPavg	Life	ScrapFlag	Population
09000	1998	2265002066	4-Str Tractors/Loaders/Backhoes	50	75	61	3000	DEFAULT	1.2
09000	1998	2265002066	4-Str Tractors/Loaders/Backhoes	75	100	80	3000	DEFAULT	0.1
09000	1998	2267002066	LPG - Tractors/Loaders/Backhoes	25	40	30	1500	DEFAULT	0.2
09000	1998	2267002066	LPG - Tractors/Loaders/Backhoes	50	75	61	3000	DEFAULT	1.2
09000	1998	2267002066	LPG - Tractors/Loaders/Backhoes	75	100	80	3000	DEFAULT	0.1
09000	1998	2265002072	4-Str Skid Steer Loaders	11	16	15.93	400	DEFAULT	2.6
09000	1998	2265002072	4-Str Skid Steer Loaders	16	25	18.41	750	DEFAULT	53.2
09000	1998	2265002072	4-Str Skid Steer Loaders	25	40	31.93	1500	DEFAULT	15.1
09000	1998	2265002072	4-Str Skid Steer Loaders	50	75	54.44	3000	DEFAULT	8.3
09000	1998	2265002072	4-Str Skid Steer Loaders	75	100	79	3000	DEFAULT	8.9
09000	1998	2267002072	LPG - Skid Steer Loaders	25	40	31.93	1500	DEFAULT	15.1
09000	1998	2267002072	LPG - Skid Steer Loaders	50	75	54.58	3000	DEFAULT	8.3
09000	1998	2267002072	LPG - Skid Steer Loaders	75	100	79	3000	DEFAULT	8.9
09000	1998	2265002078	4-Str Dumpers/Tenders	3	6	4.96	200	DEFAULT	46.9
09000	1998	2265002078	4-Str Dumpers/Tenders	6	11	8.52	400	DEFAULT	154.7
09000	1998	2265002078	4-Str Dumpers/Tenders	11	16	12.28	400	DEFAULT	23.3
09000	1998	2265002078	4-Str Dumpers/Tenders	16	25	18.74	750	DEFAULT	28.4
09000	1998	2265002078	4-Str Dumpers/Tenders	50	75	66	1301	DEFAULT	1.1
09000	1998	2265002081	4-Str Other Construction Equipment	16	25	18	750	DEFAULT	0.2
09000	1998	2265002081	4-Str Other Construction Equipment	100	175	126	3000	DEFAULT	5.5
09000	1998	2267002081	LPG - Other Construction Equipment	100	175	126	3000	DEFAULT	5.3
09000	1998	2268002081	CNG - Other Construction Equipment	100	175	105	3000	DEFAULT	0.2
09000	1998	2265003010	4-Str Aerial Lifts	6	11	8.075	400	DEFAULT	34.0
09000	1998	2265003010	4-Str Aerial Lifts	11	16	14.39	400	DEFAULT	9.4
09000	1998	2265003010	4-Str Aerial Lifts	16	25	21.13	750	DEFAULT	218.0
09000	1998	2265003010	4-Str Aerial Lifts	25	40	31.22	1500	DEFAULT	96.4
09000	1998	2265003010	4-Str Aerial Lifts	50	75	59.86	3000	DEFAULT	200.8
09000	1998	2265003010	4-Str Aerial Lifts	100	175	111.5	3000	DEFAULT	4.5
09000	1998	2267003010	LPG - Aerial Lifts	25	40	31.22	1500	DEFAULT	96.4
09000	1998	2267003010	LPG - Aerial Lifts	50	75	59.88	3000	DEFAULT	200.8
09000	1998	2267003010	LPG - Aerial Lifts	100	175	111.5	3000	DEFAULT	4.5
09000	1996	2265003020	4-Str Forklifts	25	40	36.12	4500	DEFAULT	25.6
09000	1996	2265003020	4-Str Forklifts	40	50	45.16	4500	DEFAULT	91.2
09000	1996	2265003020	4-Str Forklifts	50	75	62.77	4500	DEFAULT	147.0
09000	1996	2265003020	4-Str Forklifts	75	100	89.03	4500	DEFAULT	10.7
09000	1996	2265003020	4-Str Forklifts	100	175	144.7	4500	DEFAULT	68.3
09000	1996	2265003020	4-Str Forklifts	175	300	215.8	4500	DEFAULT	0.3
09000	1996	2267003020	LPG - Forklifts	25	40	33.44	4500	DEFAULT	485.5
09000	1996	2267003020	LPG - Forklifts	40	50	45.43	4500	DEFAULT	1061.1
09000	1996	2267003020	LPG - Forklifts	50	75	58.18	4500	DEFAULT	2792.7
09000	1996	2267003020	LPG - Forklifts	75	100	79.83	4500	DEFAULT	204.0
09000	1996	2267003020	LPG - Forklifts	100	175	131.5	4500	DEFAULT	1297.9
09000	1996	2267003020	LPG - Forklifts	175	300	215.8	4500	DEFAULT	6.4
09000	1996	2268003020	CNG - Forklifts	40	50	48	4500	DEFAULT	672.4
09000	1998	2260003030	2-Str Sweepers/Scrubbers	1	3	1.276	150	DEFAULT	51.2
09000	1998	2265003030	4-Str Sweepers/Scrubbers	3	6	4.735	200	DEFAULT	58.6
09000	1998	2265003030	4-Str Sweepers/Scrubbers	6	11	9.855	400	DEFAULT	89.7
09000	1998	2265003030	4-Str Sweepers/Scrubbers	11	16	14.85	400	DEFAULT	24.3
09000	1998	2265003030	4-Str Sweepers/Scrubbers	16	25	18.23	750	DEFAULT	52.0
09000	1998	2265003030	4-Str Sweepers/Scrubbers	25	40	31.91	1500	DEFAULT	31.2

TABLE 2 (Continued)
NONROAD Model 09000.POP Connecticut Specific Equipment Population File

FIPS	Year	SCC	Equipment Description	HPm	HPmx	HPavg	Life	ScrapFlag	Population
09000	1998	2265003030	4-Str Sweepers/Scrubbers	40	50	46	1500	DEFAULT	35.3
09000	1998	2265003030	4-Str Sweepers/Scrubbers	50	75	63.35	3000	DEFAULT	35.8
09000	1998	2265003030	4-Str Sweepers/Scrubbers	75	100	90	3000	DEFAULT	0.4
09000	1998	2265003030	4-Str Sweepers/Scrubbers	100	175	150.0	3000	DEFAULT	0.7
09000	1998	2265003030	4-Str Sweepers/Scrubbers	300	600	411.0	3000	DEFAULT	0.0
09000	1998	2267003030	LPG - Sweepers/Scrubbers	25	40	31	1500	DEFAULT	31.2
09000	1998	2267003030	LPG - Sweepers/Scrubbers	40	50	47	1500	DEFAULT	35.3
09000	1998	2267003030	LPG - Sweepers/Scrubbers	50	75	63.35	3000	DEFAULT	35.8
09000	1998	2267003030	LPG - Sweepers/Scrubbers	75	100	90	3000	DEFAULT	0.4
09000	1998	2267003030	LPG - Sweepers/Scrubbers	100	175	150	3000	DEFAULT	0.7
09000	1998	2267003030	LPG - Sweepers/Scrubbers	300	600	411	3000	DEFAULT	0.0
09000	1998	2268003030	CNG - Sweepers/Scrubbers	175	300	190	3000	DEFAULT	0.3
09000	1998	2260003040	2-Str Other General Industrial Eqp	1	3	2.044	150	DEFAULT	2.4
09000	1998	2265003040	4-Str Other General Industrial Eqp	3	6	4.289	200	DEFAULT	993.7
09000	1998	2265003040	4-Str Other General Industrial Eqp	6	11	9.063	400	DEFAULT	187.8
09000	1998	2265003040	4-Str Other General Industrial Eqp	11	16	13.53	400	DEFAULT	95.6
09000	1998	2265003040	4-Str Other General Industrial Eqp	16	25	18.24	750	DEFAULT	80.8
09000	1998	2265003040	4-Str Other General Industrial Eqp	25	40	30.12	1500	DEFAULT	7.2
09000	1998	2265003040	4-Str Other General Industrial Eqp	50	75	60.96	3000	DEFAULT	10.0
09000	1998	2265003040	4-Str Other General Industrial Eqp	75	100	80	3000	DEFAULT	1.6
09000	1998	2265003040	4-Str Other General Industrial Eqp	100	175	136	3000	DEFAULT	3.8
09000	1998	2265003040	4-Str Other General Industrial Eqp	175	300	195	3000	DEFAULT	0.1
09000	1998	2267003040	LPG - Other General Industrial Eqp	25	40	30.12	1500	DEFAULT	7.2
09000	1998	2267003040	LPG - Other General Industrial Eqp	50	75	60.96	3000	DEFAULT	10.0
09000	1998	2267003040	LPG - Other General Industrial Eqp	75	100	80	3000	DEFAULT	1.2
09000	1998	2267003040	LPG - Other General Industrial Eqp	100	175	136	3000	DEFAULT	3.8
09000	1998	2267003040	LPG - Other General Industrial Eqp	175	300	195	3000	DEFAULT	0.1
09000	1998	2268003040	CNG - Other General Industrial Eqp	75	100	98.5	3000	DEFAULT	0.4
09000	1998	2265003050	4-Str Other Material Handling Eqp	1	3	3	200	DEFAULT	0.5
09000	1998	2265003050	4-Str Other Material Handling Eqp	16	25	18.12	750	DEFAULT	19.7
09000	1998	2265003050	4-Str Other Material Handling Eqp	50	75	63.00	3000	DEFAULT	12.0
09000	1998	2265003050	4-Str Other Material Handling Eqp	75	100	86.00	3000	DEFAULT	0.5
09000	1998	2267003050	LPG - Other Material Handling Eqp	50	75	53.6	3000	DEFAULT	12.0
09000	1998	2267003050	LPG - Other Material Handling Eqp	75	100	86.0	3000	DEFAULT	0.5
09000	1998	2265003060	4-Str AC\Refrigeration	6	11	9.0	400	DEFAULT	0.3
09000	1998	2265003060	4-Str AC\Refrigeration	11	16	13.0	400	DEFAULT	0.4
09000	1998	2265003060	4-Str AC\Refrigeration	16	25	18.0	750	DEFAULT	12.8
09000	1998	2268003060	CNG - AC\Refrigeration	40	50	48	1500	DEFAULT	1.4
09000	1998	2268003060	CNG - AC\Refrigeration	50	75	74	3000	DEFAULT	0.5
09000	1998	2265003070	4-Str Terminal Tractors	25	40	35	1500	DEFAULT	0.2
09000	1998	2265003070	4-Str Terminal Tractors	50	75	58.19	3000	DEFAULT	6.4
09000	1998	2265003070	4-Str Terminal Tractors	75	100	98.62	3000	DEFAULT	2.9
09000	1998	2265003070	4-Str Terminal Tractors	100	175	114.2	3000	DEFAULT	11.5
09000	1998	2265003070	4-Str Terminal Tractors	175	300	250	3000	DEFAULT	0.1
09000	1998	2267003070	LPG - Terminal Tractors	25	40	35	1500	DEFAULT	0.2
09000	1998	2267003070	LPG - Terminal Tractors	50	75	57	3000	DEFAULT	6.0
09000	1998	2267003070	LPG - Terminal Tractors	75	100	97	3000	DEFAULT	2.3
09000	1998	2267003070	LPG - Terminal Tractors	100	175	104	3000	DEFAULT	11.3
09000	1998	2267003070	LPG - Terminal Tractors	175	300	190	3000	DEFAULT	0.0
09000	1998	2268003070	CNG - Terminal Tractors	50	75	62	3000	DEFAULT	0.4

TABLE 2 (Continued)
NONROAD Model 09000.POP Connecticut Specific Equipment Population File

FIPS	Year	SCC	Equipment Description	HPmn	HPmx	HPavg	Life	ScrapFlag	Population
09000	1998	2268003070	CNG - Terminal Tractors	75	100	94	3000	DEFAULT	0.6
09000	1998	2268003070	CNG - Terminal Tractors	100	175	125	3000	DEFAULT	0.1
09000	1998	2268003070	CNG - Terminal Tractors	175	300	250	3000	DEFAULT	0.1
09000	1996	2265004010	4-Str Lawn mowers (res)	1	3	2.55	47.9	DEFAULT	7486.7
09000	1996	2265004010	4-Str Lawn mowers (res)	3	6	4.1	47.9	DEFAULT	372077.4
09000	1996	2265004010	4-Str Lawn mowers (res)	6	11	6.24	400	DEFAULT	122.7
09000	1996	2265004011	4-Str Lawn mowers (Com)	1	3	2.55	268	DEFAULT	396.3
09000	1996	2265004011	4-Str Lawn mowers (Com)	3	6	4.1	268	DEFAULT	19695.3
09000	1996	2265004011	4-Str Lawn mowers (Com)	6	11	6.24	400	DEFAULT	6.5
09000	1998	2260004015	2-Str Rotary Tillers < 6 HP (res)	0	1	0.957	39.4	DEFAULT	694.3
09000	1998	2260004015	2-Str Rotary Tillers < 6 HP (res)	1	3	2.514	39.4	DEFAULT	4908.0
09000	1998	2265004015	4-Str Rotary Tillers < 6 HP (res)	3	6	4.712	39.4	DEFAULT	34853.7
09000	1998	2260004016	2-Str Rotary Tillers < 6 HP (com)	0	1	0.957	830.7	DEFAULT	132.0
09000	1998	2260004016	2-Str Rotary Tillers < 6 HP (com)	1	3	2.514	830.7	DEFAULT	933.5
09000	1998	2265004016	4-Str Rotary Tillers < 6 HP (com)	3	6	4.712	830.7	DEFAULT	6628.9
09000	1996	2260004020	2-Str Chain Saws < 6 HP (res)	1	3	2.11	39.2	DEFAULT	60546.5
09000	1996	2260004020	2-Str Chain Saws < 6 HP (res)	3	6	3.916	39.2	DEFAULT	0.0
09000	1996	2260004021	2-Str Chain Saws < 6 HP (com)	1	3	2.11	191	DEFAULT	2134.4
09000	1996	2260004021	2-Str Chain Saws < 6 HP (com)	3	6	3.916	191	DEFAULT	7510.0
09000	1996	2260004025	2-Str Trimmers/Edgers/Brush Cutter (res)	0	1	0.81	35.3	DEFAULT	45256.8
09000	1996	2260004025	2-Str Trimmers/Edgers/Brush Cutter (res)	1	3	1.4	35.3	DEFAULT	114611.3
09000	1996	2260004025	2-Str Trimmers/Edgers/Brush Cutter (res)	3	6	3.3	35.3	DEFAULT	0.0
09000	1996	2260004026	2-Str Trimmers/Edgers/Brush Cutter (com)	0	1	0.81	286.8	DEFAULT	0.0
09000	1996	2260004026	2-Str Trimmers/Edgers/Brush Cutter (com)	1	3	1.4	286.8	DEFAULT	22518.5
09000	1996	2260004026	2-Str Trimmers/Edgers/Brush Cutter (com)	3	6	3.30	286.8	DEFAULT	1599.1
09000	1996	2265004025	4-Str Trimmers/Edgers/Brush Cutter (res)	3	6	3.3	35.3	DEFAULT	2613.7
09000	1996	2265004025	4-Str Trimmers/Edgers/Brush Cutter (res)	6	11	7.9	35.3	DEFAULT	0.0
09000	1996	2265004025	4-Str Trimmers/Edgers/Brush Cutter (res)	11	16	16	35.3	DEFAULT	0.0
09000	1996	2265004025	4-Str Trimmers/Edgers/Brush Cutter (res)	16	25	18.00	35.3	DEFAULT	0.0
09000	1996	2265004026	4-Str Trimmers/Edgers/Brush Cutter (com)	3	6	3.3	286.8	DEFAULT	353.2
09000	1996	2265004026	4-Str Trimmers/Edgers/Brush Cutter (com)	6	11	7.9	286.8	DEFAULT	94.5
09000	1996	2265004026	4-Str Trimmers/Edgers/Brush Cutter (com)	11	16	16	286.8	DEFAULT	5.0
09000	1996	2265004026	4-Str Trimmers/Edgers/Brush Cutter (com)	16	25	18	286.8	DEFAULT	10.8
09000	1996	2260004030	2-Str Leafblowers/Vacuums (res)	0	1	0.84	40.4	DEFAULT	6700.4
09000	1996	2260004030	2-Str Leafblowers/Vacuums (res)	1	3	1.41	40.4	DEFAULT	74409.2
09000	1996	2260004030	2-Str Leafblowers/Vacuums (res)	3	6	3.42	40.4	DEFAULT	0.0
09000	1996	2260004031	2-Str Leafblowers/Vacuums (com)	0	1	0.84	609.7	DEFAULT	0.0
09000	1996	2260004031	2-Str Leafblowers/Vacuums (com)	1	3	1.41	609.7	DEFAULT	6833.3
09000	1996	2260004031	2-Str Leafblowers/Vacuums (com)	3	6	3.42	609.7	DEFAULT	2545.8
09000	1996	2265004030	4-Str Leafblowers/Vacuums (res)	3	6	3.4	40.4	DEFAULT	4216.4
09000	1996	2265004030	4-Str Leafblowers/Vacuums (res)	6	11	8.3	40.4	DEFAULT	0.0
09000	1996	2265004030	4-Str Leafblowers/Vacuums (res)	11	16	14.23	40.4	DEFAULT	0.0
09000	1996	2265004030	4-Str Leafblowers/Vacuums (res)	16	25	20.96	40.4	DEFAULT	0.0
09000	1996	2265004031	4-Str Leafblowers/Vacuums (com)	3	6	3.4	609.7	DEFAULT	389.7
09000	1996	2265004031	4-Str Leafblowers/Vacuums (com)	6	11	8.3	609.7	DEFAULT	3811.0
09000	1996	2265004031	4-Str Leafblowers/Vacuums (com)	11	16	14.2	609.7	DEFAULT	120.0
09000	1996	2265004031	4-Str Leafblowers/Vacuums (com)	16	25	21.0	609.7	DEFAULT	130.6
09000	1996	2265004031	4-Str Leafblowers/Vacuums (com)	25	40	31	1500	DEFAULT	9.9
09000	1996	2265004031	4-Str Leafblowers/Vacuums (com)	50	75	61.21	3000	DEFAULT	67.8
09000	1996	2265004031	4-Str Leafblowers/Vacuums (com)	100	175	120.8	3000	DEFAULT	67.3

TABLE 2 (Continued)
NONROAD Model 09000.POP Connecticut Specific Equipment Population File

FIPS	Year	SCC	Equipment Description	HPmn	HPmx	HPavg	Life	ScrapFlag	Population
09000	1998	2260004035	2-Str Snowblowers (res)	1	3	2.921	12.3	DEFAULT	20469.7
09000	1998	2260004035	2-Str Snowblowers (res)	3	6	4.686	12.3	DEFAULT	31345.5
09000	1998	2265004035	4-Str Snowblowers (res)	6	11	8.699	12.3	DEFAULT	52881.5
09000	1998	2265004035	4-Str Snowblowers (res)	11	16	12.59	12.3	DEFAULT	2471.6
09000	1998	2260004036	2-Str Snowblowers (com)	1	3	2.921	209.4	DEFAULT	3074.4
09000	1998	2260004036	2-Str Snowblowers (com)	3	6	4.686	209.4	DEFAULT	4707.9
09000	1998	2265004036	4-Str Snowblowers (com)	6	11	8.699	209.4	DEFAULT	7942.5
09000	1998	2265004036	4-Str Snowblowers (com)	11	16	12.59	209.4	DEFAULT	371.2
09000	1998	2265004040	4-Str Rear Engine Riding Mowers (res)	3	6	5.105	79.3	DEFAULT	81.7
09000	1998	2265004040	4-Str Rear Engine Riding Mowers (res)	6	11	9.153	79.3	DEFAULT	11827.4
09000	1998	2265004040	4-Str Rear Engine Riding Mowers (res)	11	16	12.61	79.3	DEFAULT	9172.1
09000	1998	2265004040	4-Str Rear Engine Riding Mowers (res)	16	25	18.26	750	DEFAULT	43.4
09000	1998	2265004041	4-Str Rear Engine Riding Mowers (com)	3	6	5.105	200	DEFAULT	2.5
09000	1998	2265004041	4-Str Rear Engine Riding Mowers (com)	6	11	9.153	627	DEFAULT	359.9
09000	1998	2265004041	4-Str Rear Engine Riding Mowers (com)	11	16	12.61	627	DEFAULT	279.1
09000	1998	2265004041	4-Str Rear Engine Riding Mowers (com)	16	25	18.26	750	DEFAULT	1.3
09000	1998	2265004046	4-Str Front Mowers (com)	6	11	8	400	DEFAULT	372.4
09000	1998	2265004046	4-Str Front Mowers (com)	11	16	13.47	400	DEFAULT	1272.0
09000	1998	2265004046	4-Str Front Mowers (com)	16	25	17	750	DEFAULT	562.4
09000	1998	2265004046	4-Str Front Mowers (com)	25	40	32.27	1397	DEFAULT	8.4
09000	1998	2265004051	4-Str Shredders < 6 HP (com)	1	3	2.986	200	DEFAULT	1364.5
09000	1998	2265004051	4-Str Shredders < 6 HP (com)	3	6	4.835	200	DEFAULT	2670.6
09000	1998	2265004055	4-Str Lawn & Garden Tractors (res)	3	6	5.002	114.8	DEFAULT	292.1
09000	1998	2265004055	4-Str Lawn & Garden Tractors (res)	6	11	9.735	114.8	DEFAULT	9157.1
09000	1998	2265004055	4-Str Lawn & Garden Tractors (res)	11	16	13.61	114.8	DEFAULT	101748.0
09000	1998	2265004055	4-Str Lawn & Garden Tractors (res)	16	25	18.41	114.8	DEFAULT	33162.0
09000	1998	2265004056	4-Str Lawn & Garden Tractors (com)	3	6	5.002	200	DEFAULT	8.9
09000	1998	2265004056	4-Str Lawn & Garden Tractors (com)	6	11	9.735	920	DEFAULT	278.6
09000	1998	2265004056	4-Str Lawn & Garden Tractors (com)	11	16	13.61	920	DEFAULT	3095.8
09000	1998	2265004056	4-Str Lawn & Garden Tractors (com)	16	25	18.41	920	DEFAULT	1009.0
09000	1998	2265004066	4-Str Chippers/Stump Grinders (com)	3	6	3.5	200	DEFAULT	0.5
09000	1998	2265004066	4-Str Chippers/Stump Grinders (com)	6	11	9.791	400	DEFAULT	22.5
09000	1998	2265004066	4-Str Chippers/Stump Grinders (com)	11	16	15.32	400	DEFAULT	92.7
09000	1998	2265004066	4-Str Chippers/Stump Grinders (com)	16	25	20.05	750	DEFAULT	174.6
09000	1998	2265004066	4-Str Chippers/Stump Grinders (com)	25	40	35.1	1500	DEFAULT	13.2
09000	1998	2265004066	4-Str Chippers/Stump Grinders (com)	50	75	60.77	3000	DEFAULT	56.3
09000	1998	2265004066	4-Str Chippers/Stump Grinders (com)	75	100	80	3000	DEFAULT	0.5
09000	1998	2265004066	4-Str Chippers/Stump Grinders (com)	100	175	119	3000	DEFAULT	13.5
09000	1998	2267004066	LPG - Chippers/Stump Grinders (com)	25	40	35.1	1500	DEFAULT	13.2
09000	1998	2267004066	LPG - Chippers/Stump Grinders (com)	50	75	60.77	3000	DEFAULT	56.3
09000	1998	2267004066	LPG - Chippers/Stump Grinders (com)	75	100	80	3000	DEFAULT	0.5
09000	1998	2267004066	LPG - Chippers/Stump Grinders (com)	100	175	119	3000	DEFAULT	13.5
09000	1998	2260004071	2-Str Commercial Turf Equipment (com)	1	3	3	988.9	DEFAULT	1.6
09000	1998	2265004071	4-Str Commercial Turf Equipment (com)	3	6	5.217	988.9	DEFAULT	4596.5
09000	1998	2265004071	4-Str Commercial Turf Equipment (com)	6	11	8.771	988.9	DEFAULT	1222.7
09000	1998	2265004071	4-Str Commercial Turf Equipment (com)	11	16	13.99	988.9	DEFAULT	2728.5
09000	1998	2265004071	4-Str Commercial Turf Equipment (com)	16	25	19.33	988.9	DEFAULT	3556.5
09000	1998	2265004071	4-Str Commercial Turf Equipment (com)	25	40	27.24	1500	DEFAULT	704.7
09000	1998	2265004071	4-Str Commercial Turf Equipment (com)	50	75	59.59	3000	DEFAULT	6.1
09000	1998	2265004075	4-Str Other Lawn & Garden Eq. (res)	0	1	0.914	200	DEFAULT	298.3

TABLE 2 (Continued)
NONROAD Model 09000.POP Connecticut Specific Equipment Population File

FIPS	Year	SCC	Equipment Description	HPmn	HPmx	HPavg	Life	ScrapFlag	Population
09000	1998	2265004075	4-Str Other Lawn & Garden Eqp. (res)	1	3	2.34	200	DEFAULT	1291.8
09000	1998	2265004075	4-Str Other Lawn & Garden Eqp. (res)	3	6	4.867	200	DEFAULT	3292.3
09000	1998	2265004075	4-Str Other Lawn & Garden Eqp. (res)	6	11	8.208	400	DEFAULT	2175.4
09000	1998	2265004075	4-Str Other Lawn & Garden Eqp. (res)	11	16	15.54	400	DEFAULT	31.9
09000	1998	2265004075	4-Str Other Lawn & Garden Eqp. (res)	16	25	20.04	750	DEFAULT	20.9
09000	1998	2265004076	4-Str Other Lawn & Garden Eqp. (com)	0	1	0.914	200	DEFAULT	404.0
09000	1998	2265004076	4-Str Other Lawn & Garden Eqp. (com)	1	3	2.34	200	DEFAULT	1749.6
09000	1998	2265004076	4-Str Other Lawn & Garden Eqp. (com)	3	6	4.867	200	DEFAULT	4458.8
09000	1998	2265004076	4-Str Other Lawn & Garden Eqp. (com)	6	11	8.208	400	DEFAULT	2946.2
09000	1998	2265004076	4-Str Other Lawn & Garden Eqp. (com)	11	16	15.54	400	DEFAULT	43.1
09000	1998	2265004076	4-Str Other Lawn & Garden Eqp. (com)	16	25	20.04	750	DEFAULT	28.3
09000	1998	2265004076	4-Str Other Lawn & Garden Eqp. (com)	25	40	36.04	884	DEFAULT	2.8
09000	1998	2265004076	4-Str Other Lawn & Garden Eqp. (com)	50	75	66.00	884	DEFAULT	1.0
09000	1998	2265004076	4-Str Other Lawn & Garden Eqp. (com)	75	100	86.00	884	DEFAULT	0.3
09000	1998	2265004076	4-Str Other Lawn & Garden Eqp. (com)	100	175	113	884	DEFAULT	1.1
09000	1998	2265005010	4-Str 2-Wheel Tractors	6	11	8.197	400	DEFAULT	1.1
09000	1998	2265005010	4-Str 2-Wheel Tractors	11	16	14.19	400	DEFAULT	1.0
09000	1998	2265005015	4-Str Agricultural Tractors	16	25	20.4	750	DEFAULT	0.5
09000	1998	2265005015	4-Str Agricultural Tractors	25	40	30.5	1500	DEFAULT	0.0
09000	1998	2265005015	4-Str Agricultural Tractors	75	100	82.13	3000	DEFAULT	0.6
09000	1998	2265005015	4-Str Agricultural Tractors	100	175	125	3000	DEFAULT	0.1
09000	1998	2265005020	4-Str Combines	50	75	60	2312	DEFAULT	0.0
09000	1998	2265005020	4-Str Combines	75	100	90	2312	DEFAULT	0.0
09000	1998	2265005020	4-Str Combines	100	175	141.2	2312	DEFAULT	0.0
09000	1998	2265005025	4-Str Balers	25	40	34.57	1054	DEFAULT	5.8
09000	1998	2265005025	4-Str Balers	50	75	65.28	1054	DEFAULT	1.8
09000	1998	2265005025	4-Str Balers	100	175	113	1054	DEFAULT	0.2
09000	1998	2265005030	4-Str Agricultural Mowers	3	6	6	200	DEFAULT	0.0
09000	1998	2265005030	4-Str Agricultural Mowers	6	11	9.206	400	DEFAULT	2.7
09000	1998	2265005030	4-Str Agricultural Mowers	11	16	16	400	DEFAULT	0.0
09000	1998	2265005030	4-Str Agricultural Mowers	16	25	18	750	DEFAULT	0.8
09000	1998	2260005035	2-Str Sprayers	0	1	0.88	150	DEFAULT	9.8
09000	1998	2260005035	2-Str Sprayers	1	3	2.567	150	DEFAULT	9.1
09000	1998	2265005035	4-Str Sprayers	3	6	4.37	200	DEFAULT	35.5
09000	1998	2265005035	4-Str Sprayers	6	11	8.204	400	DEFAULT	12.9
09000	1998	2265005035	4-Str Sprayers	11	16	14.85	400	DEFAULT	4.4
09000	1998	2265005035	4-Str Sprayers	16	25	20.51	750	DEFAULT	7.5
09000	1998	2265005035	4-Str Sprayers	25	40	33.28	1300	DEFAULT	1.8
09000	1998	2265005035	4-Str Sprayers	50	75	62	1300	DEFAULT	0.7
09000	1998	2265005035	4-Str Sprayers	75	100	89.87	1300	DEFAULT	0.7
09000	1998	2265005035	4-Str Sprayers	100	175	130.3	1300	DEFAULT	0.7
09000	1998	2265005040	4-Str Tillers > 6 HP	6	11	7.501	830.7	DEFAULT	311.8
09000	1998	2265005040	4-Str Tillers > 6 HP	11	16	14.76	830.7	DEFAULT	0.8
09000	1998	2265005045	4-Str Swathers	75	100	80	1235	DEFAULT	3.1
09000	1998	2265005045	4-Str Swathers	100	175	121.9	1235	DEFAULT	1.8
09000	1998	2265005055	4-Str Other Agricultural Equipment	3	6	4.84	200	DEFAULT	0.7
09000	1998	2265005055	4-Str Other Agricultural Equipment	6	11	9.14	400	DEFAULT	3.3
09000	1998	2265005055	4-Str Other Agricultural Equipment	11	16	14.11	400	DEFAULT	1.9
09000	1998	2265005055	4-Str Other Agricultural Equipment	16	25	18.64	750	DEFAULT	1.7
09000	1998	2265005055	4-Str Other Agricultural Equipment	25	40	32.23	1500	DEFAULT	0.1

TABLE 2 (Continued)
NONROAD Model 09000.POP Connecticut Specific Equipment Population File

FIPS	Year	SCC	Equipment Description	HPmn	HPmx	HPavg	Life	ScrapFlag	Population
09000	1998	2265005055	4-Str Other Agricultural Equipment	50	75	62.38	1705	DEFAULT	0.2
09000	1998	2265005055	4-Str Other Agricultural Equipment	75	100	88.04	1705	DEFAULT	0.0
09000	1998	2265005055	4-Str Other Agricultural Equipment	100	175	167.4	1705	DEFAULT	1.3
09000	1998	2265005055	4-Str Other Agricultural Equipment	175	300	230.1	1705	DEFAULT	0.5
09000	1998	2267005055	LPG - Other Agricultural Equipment	100	175	154	1705	DEFAULT	0.0
09000	1998	2268005055	CNG - Other Agricultural Equipment	100	175	148	1705	DEFAULT	0.1
09000	1998	2265005060	4-Str Irrigation Sets	3	6	4.692	200	DEFAULT	0.3
09000	1998	2265005060	4-Str Irrigation Sets	6	11	8.918	400	DEFAULT	0.1
09000	1998	2265005060	4-Str Irrigation Sets	16	25	18	750	DEFAULT	0.0
09000	1998	2265005060	4-Str Irrigation Sets	50	75	59.7	3000	DEFAULT	0.2
09000	1998	2265005060	4-Str Irrigation Sets	75	100	80.25	3000	DEFAULT	0.4
09000	1998	2265005060	4-Str Irrigation Sets	100	175	120.5	3000	DEFAULT	0.2
09000	1998	2265005060	4-Str Irrigation Sets	175	300	210.2	3000	DEFAULT	0.1
09000	1998	2267005060	LPG - Irrigation Sets	100	175	113	3000	DEFAULT	0.0
09000	1998	2268005060	CNG - Irrigation Sets	25	40	32	1500	DEFAULT	0.1
09000	1998	2268005060	CNG - Irrigation Sets	50	75	72.78	3000	DEFAULT	0.6
09000	1998	2268005060	CNG - Irrigation Sets	75	100	96.19	3000	DEFAULT	0.8
09000	1998	2268005060	CNG - Irrigation Sets	100	175	138.9	3000	DEFAULT	0.1
09000	1998	2268005060	CNG - Irrigation Sets	175	300	233.3	3000	DEFAULT	0.1
09000	1998	2268005060	CNG - Irrigation Sets	300	600	384.4	3000	DEFAULT	0.0
09000	1998	2260006005	2-Str Generator Sets	0	1	0.8	150	DEFAULT	44.5
09000	1998	2260006005	2-Str Generator Sets	1	3	1.663	150	DEFAULT	1104.1
09000	1998	2265006005	4-Str Generator Sets	3	6	4.567	200	DEFAULT	7767.6
09000	1998	2265006005	4-Str Generator Sets	6	11	8.816	400	DEFAULT	18652.3
09000	1998	2265006005	4-Str Generator Sets	11	16	14.34	400	DEFAULT	4125.8
09000	1998	2265006005	4-Str Generator Sets	16	25	20.72	750	DEFAULT	5903.7
09000	1998	2265006005	4-Str Generator Sets	25	40	30.32	1500	DEFAULT	0.0
09000	1998	2265006005	4-Str Generator Sets	40	50	45.99	1500	DEFAULT	0.0
09000	1998	2265006005	4-Str Generator Sets	50	75	59.5	1955	DEFAULT	0.0
09000	1998	2265006005	4-Str Generator Sets	75	100	81.28	1955	DEFAULT	0.0
09000	1998	2265006005	4-Str Generator Sets	100	175	138.5	1955	DEFAULT	0.0
09000	1998	2265006005	4-Str Generator Sets	175	300	212.6	1955	DEFAULT	0.0
09000	1998	2267006005	LPG - Generator Sets	25	40	30.32	1500	DEFAULT	546.7
09000	1998	2267006005	LPG - Generator Sets	40	50	45.99	1500	DEFAULT	4.1
09000	1998	2267006005	LPG - Generator Sets	50	75	62.91	1955	DEFAULT	255.0
09000	1998	2267006005	LPG - Generator Sets	75	100	81.28	1955	DEFAULT	226.8
09000	1998	2267006005	LPG - Generator Sets	100	175	138.8	1955	DEFAULT	85.1
09000	1998	2267006005	LPG - Generator Sets	175	300	239.6	1955	DEFAULT	2.0
09000	1998	2267006005	LPG - Generator Sets	300	600	372	1955	DEFAULT	0.3
09000	1998	2268006005	CNG - Generator Sets	25	40	31.73	1500	DEFAULT	5.2
09000	1998	2268006005	CNG - Generator Sets	40	50	47.67	1500	DEFAULT	8.7
09000	1998	2268006005	CNG - Generator Sets	50	75	60.44	1955	DEFAULT	174.7
09000	1998	2268006005	CNG - Generator Sets	75	100	95.41	1955	DEFAULT	58.8
09000	1998	2268006005	CNG - Generator Sets	100	175	147.8	1955	DEFAULT	20.3
09000	1998	2268006005	CNG - Generator Sets	175	300	239.8	1955	DEFAULT	8.3
09000	1998	2268006005	CNG - Generator Sets	300	600	392.6	1955	DEFAULT	4.2
09000	1998	2260006010	2-Str Pumps	0	1	0.991	150	DEFAULT	1398.1
09000	1998	2260006010	2-Str Pumps	1	3	1.998	150	DEFAULT	2526.0
09000	1998	2260006010	2-Str Pumps	25	40	38	1500	DEFAULT	1.5
09000	1998	2260006010	2-Str Pumps	50	75	55	3000	DEFAULT	0.3

TABLE 2 (Continued)
NONROAD Model 09000.POP Connecticut Specific Equipment Population File

FIPS	Year	SCC	Equipment Description	HPmn	HPmx	HPavg	Life	ScrapFlag	Population
09000	1998	2265006010	4-Str Pumps	3	6	4.631	200	DEFAULT	3620.1
09000	1998	2265006010	4-Str Pumps	6	11	8.337	400	DEFAULT	2270.6
09000	1998	2265006010	4-Str Pumps	11	16	14.81	400	DEFAULT	219.9
09000	1998	2265006010	4-Str Pumps	16	25	18.35	750	DEFAULT	128.2
09000	1998	2265006010	4-Str Pumps	25	40	31.95	1500	DEFAULT	111.4
09000	1998	2265006010	4-Str Pumps	40	50	46	1500	DEFAULT	1.0
09000	1998	2265006010	4-Str Pumps	50	75	60.6	3000	DEFAULT	51.8
09000	1998	2265006010	4-Str Pumps	75	100	81.25	3000	DEFAULT	3.4
09000	1998	2265006010	4-Str Pumps	100	175	115.3	3000	DEFAULT	8.0
09000	1998	2267006010	LPG - Pumps	25	40	31.95	1500	DEFAULT	107.8
09000	1998	2267006010	LPG - Pumps	40	50	46	1500	DEFAULT	1.0
09000	1998	2267006010	LPG - Pumps	50	75	57	3000	DEFAULT	51.8
09000	1998	2267006010	LPG - Pumps	75	100	81.25	3000	DEFAULT	3.4
09000	1998	2267006010	LPG - Pumps	100	175	115.3	3000	DEFAULT	7.5
09000	1998	2268006010	CNG - Pumps	25	40	32	1500	DEFAULT	3.7
09000	1998	2268006010	CNG - Pumps	50	75	52	3000	DEFAULT	0.0
09000	1998	2268006010	CNG - Pumps	100	175	175	3000	DEFAULT	0.5
09000	1998	2268006010	CNG - Pumps	175	300	246	3000	DEFAULT	0.6
09000	1998	2268006010	CNG - Pumps	300	600	423.3	3000	DEFAULT	0.6
09000	1998	2260006015	2-Str Air Compressors	1	3	2.209	150	DEFAULT	0.6
09000	1998	2265006015	4-Str Air Compressors	3	6	5.188	200	DEFAULT	573.7
09000	1998	2265006015	4-Str Air Compressors	6	11	9.925	400	DEFAULT	535.6
09000	1998	2265006015	4-Str Air Compressors	11	16	13.63	400	DEFAULT	65.7
09000	1998	2265006015	4-Str Air Compressors	16	25	18.67	750	DEFAULT	71.2
09000	1998	2265006015	4-Str Air Compressors	25	40	31.67	1500	DEFAULT	10.4
09000	1998	2265006015	4-Str Air Compressors	50	75	60.73	3000	DEFAULT	57.7
09000	1998	2265006015	4-Str Air Compressors	75	100	81.69	3000	DEFAULT	12.3
09000	1998	2265006015	4-Str Air Compressors	100	175	131.9	3000	DEFAULT	5.8
09000	1998	2267006015	LPG - Air Compressors	25	40	31.67	1500	DEFAULT	10.4
09000	1998	2267006015	LPG - Air Compressors	50	75	60.73	3000	DEFAULT	56.0
09000	1998	2267006015	LPG - Air Compressors	75	100	81.69	3000	DEFAULT	12.3
09000	1998	2267006015	LPG - Air Compressors	100	175	131.9	3000	DEFAULT	3.1
09000	1998	2268006015	CNG - Air Compressors	50	75	52	3000	DEFAULT	1.7
09000	1998	2268006015	CNG - Air Compressors	100	175	148	3000	DEFAULT	2.7
09000	1998	2268006020	CNG - Gas Compressors	25	40	27.5	1500	DEFAULT	1.7
09000	1998	2268006020	CNG - Gas Compressors	40	50	45.24	1500	DEFAULT	1.0
09000	1998	2268006020	CNG - Gas Compressors	50	75	69	3000	DEFAULT	0.3
09000	1998	2268006020	CNG - Gas Compressors	75	100	91.2	3000	DEFAULT	3.0
09000	1998	2268006020	CNG - Gas Compressors	100	175	145.9	3000	DEFAULT	0.5
09000	1998	2268006020	CNG - Gas Compressors	175	300	242.1	3000	DEFAULT	1.3
09000	1998	2268006020	CNG - Gas Compressors	300	600	401.9	3000	DEFAULT	0.4
09000	1998	2265006025	4-Str Welders	3	6	5.974	200	DEFAULT	75.9
09000	1998	2265006025	4-Str Welders	6	11	9.326	400	DEFAULT	294.2
09000	1998	2265006025	4-Str Welders	11	16	15.71	400	DEFAULT	1084.3
09000	1998	2265006025	4-Str Welders	16	25	18.20	750	DEFAULT	361.7
09000	1998	2265006025	4-Str Welders	50	75	63.63	3000	DEFAULT	85.4
09000	1998	2265006025	4-Str Welders	75	100	80.00	3000	DEFAULT	7.6
09000	1998	2265006025	4-Str Welders	100	175	130.0	3000	DEFAULT	1.7
09000	1998	2267006025	LPG - Welders	50	75	63.63	3000	DEFAULT	85.4
09000	1998	2267006025	LPG - Welders	75	100	80.00	3000	DEFAULT	7.6

TABLE 2 (Continued)
NONROAD Model 09000.POP Connecticut Specific Equipment Population File

FIPS	Year	SCC	Equipment Description	HPmn	HPmx	HPavg	Life	ScrapFlag	Population
09000	1998	2267006025	LPG - Welders	100	175	130	3000	DEFAULT	1.7
09000	1998	2265006030	4-Str Pressure Washers	1	3	3.00	150	DEFAULT	1.8
09000	1998	2265006030	4-Str Pressure Washers	3	6	4.827	200	DEFAULT	9578.5
09000	1998	2265006030	4-Str Pressure Washers	6	11	9.104	400	DEFAULT	5923.8
09000	1998	2265006030	4-Str Pressure Washers	11	16	14.13	400	DEFAULT	1757.4
09000	1998	2265006030	4-Str Pressure Washers	16	25	18.8	750	DEFAULT	330.5
09000	1998	2265006030	4-Str Pressure Washers	25	40	36.55	1500	DEFAULT	5.6
09000	1998	2265006030	4-Str Pressure Washers	50	75	66	2443	DEFAULT	0.4
09000	1998	2265006030	4-Str Pressure Washers	75	100	86	2443	DEFAULT	0.0
09000	1998	2267006030	LPG - Pressure Washers	25	40	36.55	1500	DEFAULT	5.6
09000	1998	2267006030	LPG - Pressure Washers	50	75	66	2443	DEFAULT	0.4
09000	1998	2267006030	LPG - Pressure Washers	75	100	86	2443	DEFAULT	0.0
09000	1998	2260006035	2-Str Hydro Power Units	1	3	1.709	150	DEFAULT	14.0
09000	1998	2265006035	4-Str Hydro Power Units	3	6	4.834	200	DEFAULT	66.5
09000	1998	2265006035	4-Str Hydro Power Units	6	11	9.855	400	DEFAULT	60.2
09000	1998	2265006035	4-Str Hydro Power Units	11	16	13.1	400	DEFAULT	47.4
09000	1998	2265006035	4-Str Hydro Power Units	16	25	18.35	750	DEFAULT	48.6
09000	1998	2265006035	4-Str Hydro Power Units	25	40	33.91	1500	DEFAULT	0.7
09000	1998	2265006035	4-Str Hydro Power Units	40	50	46	1500	DEFAULT	0.3
09000	1998	2265006035	4-Str Hydro Power Units	50	75	66.79	3000	DEFAULT	0.7
09000	1998	2265006035	4-Str Hydro Power Units	100	175	113	3000	DEFAULT	0.0
09000	1998	2267006035	LPG - Hydro Power Units	25	40	33.91	1500	DEFAULT	0.7
09000	1998	2267006035	LPG - Hydro Power Units	40	50	46	1500	DEFAULT	0.3
09000	1998	2267006035	LPG - Hydro Power Units	50	75	66.79	3000	DEFAULT	0.7
09000	1998	2267006035	LPG - Hydro Power Units	100	175	154	3000	DEFAULT	0.0
09000	1998	2268006035	CNG - Hydro Power Units	100	175	148	3000	DEFAULT	0.0
09000	1996	2260007005	2-Str Chain Saws > 6 HP	6	11	6.81	191	DEFAULT	49.1
09000	1998	2265007010	4-Str Shredders > 6 HP	6	11	8.117	400	DEFAULT	311.6
09000	1998	2265007010	4-Str Shredders > 6 HP	11	16	12.62	400	DEFAULT	17.2
09000	1998	2265007010	4-Str Shredders > 6 HP	16	25	20.56	750	DEFAULT	5.6
09000	1998	2265007015	4-Str Forest Eqp - Feller/Bunch/Skidder	3	6	5.50	200	DEFAULT	0.5
09000	1998	2265007015	4-Str Forest Eqp - Feller/Bunch/Skidder	6	11	9.00	400	DEFAULT	0.2
09000	1998	2265008005	4-Str Airport Support Equipment	3	6	4.861	200	DEFAULT	4.6
09000	1998	2265008005	4-Str Airport Support Equipment	6	11	8.171	400	DEFAULT	0.5
09000	1998	2265008005	4-Str Airport Support Equipment	11	16	16.00	400	DEFAULT	1.9
09000	1998	2265008005	4-Str Airport Support Equipment	16	25	18.36	750	DEFAULT	0.1
09000	1998	2265008005	4-Str Airport Support Equipment	25	40	37.0	1500	DEFAULT	0.1
09000	1998	2265008005	4-Str Airport Support Equipment	40	50	46.0	1500	DEFAULT	0.0
09000	1998	2265008005	4-Str Airport Support Equipment	50	75	59.0	3000	DEFAULT	0.1
09000	1998	2265008005	4-Str Airport Support Equipment	75	100	86.16	3000	DEFAULT	0.5
09000	1998	2265008005	4-Str Airport Support Equipment	100	175	113.0	3000	DEFAULT	1.5
09000	1998	2267008005	LPG - Airport Support Equipment	25	40	37.0	1500	DEFAULT	0.1
09000	1998	2267008005	LPG - Airport Support Equipment	40	50	46.0	1500	DEFAULT	0.0
09000	1998	2267008005	LPG - Airport Support Equipment	50	75	59.0	3000	DEFAULT	0.1
09000	1998	2267008005	LPG - Airport Support Equipment	75	100	86.16	3000	DEFAULT	0.5
09000	1998	2267008005	LPG - Airport Support Equipment	100	175	113.0	3000	DEFAULT	1.5
09000	1998	2265010010	4-Str Other Oil Field Equipment	6	11	9.568	400	DEFAULT	0.6
09000	1998	2265010010	4-Str Other Oil Field Equipment	11	16	12.68	400	DEFAULT	1.0
09000	1998	2265010010	4-Str Other Oil Field Equipment	16	25	20.31	750	DEFAULT	0.7
09000	1998	2265010010	4-Str Other Oil Field Equipment	25	40	37	1500	DEFAULT	0.0

TABLE 2 (Continued)
NONROAD Model 09000.POP Connecticut Specific Equipment Population File

FIPS	Year	SCC	Equipment Description	HPmn	HPmx	HPavg	Life	ScrapFlag	Population
09000	1998	2268010010	CNG - Other Oil Field Equipment	25	40	32.59	1500	DEFAULT	0.7
09000	1998	2268010010	CNG - Other Oil Field Equipment	40	50	43.74	1500	DEFAULT	0.1
09000	1998	2268010010	CNG - Other Oil Field Equipment	50	75	57.77	3000	DEFAULT	0.3
09000	1998	2268010010	CNG - Other Oil Field Equipment	75	100	81.7	3000	DEFAULT	0.0
09000	1998	2268010010	CNG - Other Oil Field Equipment	100	175	131.1	3000	DEFAULT	0.0
09000	1998	2268010010	CNG - Other Oil Field Equipment	600	750	725	3000	DEFAULT	0.0
09000	2000	2270001060	Dsl - Specialty Vehicle Carts	11	16	15	2500	DEFAULT	5.6
09000	2000	2270001060	Dsl - Specialty Vehicle Carts	16	25	21.27	2500	DEFAULT	202.8
09000	2000	2270001060	Dsl - Specialty Vehicle Carts	25	40	28.44	2500	DEFAULT	140.3
09000	2000	2270001060	Dsl - Specialty Vehicle Carts	40	50	46.5	2500	DEFAULT	0.5
09000	2000	2270001060	Dsl - Specialty Vehicle Carts	50	75	62.54	4667	DEFAULT	3.0
09000	2000	2270001060	Dsl - Specialty Vehicle Carts	75	100	88.43	4667	DEFAULT	3.0
09000	2000	2270001060	Dsl - Specialty Vehicle Carts	100	175	144.7	4667	DEFAULT	24.8
09000	2000	2270001060	Dsl - Specialty Vehicle Carts	175	300	252.4	4667	DEFAULT	21.9
09000	2000	2270001060	Dsl - Specialty Vehicle Carts	300	600	373.8	7000	DEFAULT	9.7
09000	2000	2270001060	Dsl - Specialty Vehicle Carts	1000	1200	1200	7000	DEFAULT	0.4
09000	2000	2270002003	Dsl - Pavers	16	25	21.9	2500	DEFAULT	0.9
09000	2000	2270002003	Dsl - Pavers	25	40	32.8	2500	DEFAULT	22.2
09000	2000	2270002003	Dsl - Pavers	40	50	45.34	2500	DEFAULT	2.1
09000	2000	2270002003	Dsl - Pavers	50	75	62.96	4667	DEFAULT	42.1
09000	2000	2270002003	Dsl - Pavers	75	100	86.65	4667	DEFAULT	26.2
09000	2000	2270002003	Dsl - Pavers	100	175	134.6	4667	DEFAULT	57.5
09000	2000	2270002003	Dsl - Pavers	175	300	221.1	4667	DEFAULT	40.3
09000	2000	2270002003	Dsl - Pavers	300	600	386.9	7000	DEFAULT	5.2
09000	2000	2270002006	Dsl - Tampers/Rammers	3	6	4.2	2500	DEFAULT	21.7
09000	2000	2270002009	Dsl - Plate Compactors	3	6	4.937	2500	DEFAULT	108.8
09000	2000	2270002009	Dsl - Plate Compactors	6	11	8.554	2500	DEFAULT	48.6
09000	2000	2270002009	Dsl - Plate Compactors	11	16	14.22	2500	DEFAULT	29.6
09000	2000	2270002009	Dsl - Plate Compactors	16	25	20.35	2500	DEFAULT	2.7
09000	2000	2270002015	Dsl - Rollers	3	6	5.438	2500	DEFAULT	11.7
09000	2000	2270002015	Dsl - Rollers	6	11	8.695	2500	DEFAULT	22.0
09000	2000	2270002015	Dsl - Rollers	11	16	13.55	2500	DEFAULT	26.3
09000	2000	2270002015	Dsl - Rollers	16	25	19.68	2500	DEFAULT	47.2
09000	2000	2270002015	Dsl - Rollers	25	40	32.52	2500	DEFAULT	67.4
09000	2000	2270002015	Dsl - Rollers	40	50	45.81	2500	DEFAULT	62.4
09000	2000	2270002015	Dsl - Rollers	50	75	60.74	4667	DEFAULT	63.2
09000	2000	2270002015	Dsl - Rollers	75	100	84.76	4667	DEFAULT	173.0
09000	2000	2270002015	Dsl - Rollers	100	175	132.2	4667	DEFAULT	160.4
09000	2000	2270002015	Dsl - Rollers	175	300	217	4667	DEFAULT	54.8
09000	2000	2270002015	Dsl - Rollers	300	600	420.5	7000	DEFAULT	16.2
09000	2000	2270002018	Dsl - Scrapers	50	75	66	4667	DEFAULT	0.0
09000	2000	2270002018	Dsl - Scrapers	100	175	160.8	4667	DEFAULT	4.4
09000	2000	2270002018	Dsl - Scrapers	175	300	246.9	4667	DEFAULT	50.2
09000	2000	2270002018	Dsl - Scrapers	300	600	422.5	7000	DEFAULT	65.0
09000	2000	2270002018	Dsl - Scrapers	600	750	687.6	7000	DEFAULT	30.1
09000	2000	2270002018	Dsl - Scrapers	750	1000	760	7000	DEFAULT	0.0
09000	2000	2270002021	Dsl - Paving Equipment	3	6	4.62	2500	DEFAULT	9.4
09000	2000	2270002021	Dsl - Paving Equipment	6	11	7.3	2500	DEFAULT	10.5
09000	2000	2270002021	Dsl - Paving Equipment	11	16	14.7	2500	DEFAULT	0.8
09000	2000	2270002021	Dsl - Paving Equipment	16	25	19.72	2500	DEFAULT	5.4

TABLE 2 (Continued)
NONROAD Model 09000.POP Connecticut Specific Equipment Population File

FIPS	Year	SCC	Equipment Description	HPmn	HPmx	HPavg	Life	ScrapFlag	Population
09000	2000	2270002021	Dsl - Paving Equipment	25	40	33.82	2500	DEFAULT	7.2
09000	2000	2270002021	Dsl - Paving Equipment	40	50	41	2500	DEFAULT	0.0
09000	2000	2270002021	Dsl - Paving Equipment	50	75	61.05	4667	DEFAULT	7.1
09000	2000	2270002021	Dsl - Paving Equipment	75	100	83.23	4667	DEFAULT	8.3
09000	2000	2270002021	Dsl - Paving Equipment	100	175	131.3	4667	DEFAULT	15.2
09000	2000	2270002021	Dsl - Paving Equipment	175	300	230.2	4667	DEFAULT	4.7
09000	2000	2270002021	Dsl - Paving Equipment	300	600	460	7000	DEFAULT	0.2
09000	2000	2270002024	Dsl - Surfacing Equipment	6	11	6.7	2500	DEFAULT	0.2
09000	2000	2270002024	Dsl - Surfacing Equipment	11	16	13.3	2500	DEFAULT	0.5
09000	2000	2270002024	Dsl - Surfacing Equipment	16	25	21.66	2500	DEFAULT	8.1
09000	2000	2270002024	Dsl - Surfacing Equipment	25	40	31.69	2500	DEFAULT	6.8
09000	2000	2270002024	Dsl - Surfacing Equipment	40	50	44.9	2500	DEFAULT	2.3
09000	2000	2270002024	Dsl - Surfacing Equipment	50	75	54.93	4667	DEFAULT	0.1
09000	2000	2270002024	Dsl - Surfacing Equipment	75	100	80.9	4667	DEFAULT	6.4
09000	2000	2270002024	Dsl - Surfacing Equipment	100	175	126.5	4667	DEFAULT	2.0
09000	2000	2270002024	Dsl - Surfacing Equipment	175	300	233	4667	DEFAULT	0.1
09000	2000	2270002024	Dsl - Surfacing Equipment	300	600	492.6	7000	DEFAULT	2.0
09000	2000	2270002024	Dsl - Surfacing Equipment	600	750	713.5	7000	DEFAULT	0.9
09000	2000	2270002024	Dsl - Surfacing Equipment	750	1000	897	7000	DEFAULT	0.2
09000	2000	2270002024	Dsl - Surfacing Equipment	1000	1200	1050	7000	DEFAULT	0.0
09000	2000	2270002024	Dsl - Surfacing Equipment	1200	2000	1544	7000	DEFAULT	0.1
09000	2000	2270002027	Dsl - Signal Boards/Light Plants	3	6	5.4	2500	DEFAULT	17.6
09000	2000	2270002027	Dsl - Signal Boards/Light Plants	6	11	7.775	2500	DEFAULT	41.4
09000	2000	2270002027	Dsl - Signal Boards/Light Plants	11	16	13.73	2500	DEFAULT	22.1
09000	2000	2270002027	Dsl - Signal Boards/Light Plants	16	25	22.18	2500	DEFAULT	350.5
09000	2000	2270002027	Dsl - Signal Boards/Light Plants	25	40	30.32	2500	DEFAULT	107.5
09000	2000	2270002027	Dsl - Signal Boards/Light Plants	40	50	42.2	2500	DEFAULT	0.2
09000	2000	2270002027	Dsl - Signal Boards/Light Plants	50	75	59.28	4667	DEFAULT	7.7
09000	2000	2270002027	Dsl - Signal Boards/Light Plants	75	100	89	4667	DEFAULT	4.5
09000	2000	2270002027	Dsl - Signal Boards/Light Plants	100	175	157.5	4667	DEFAULT	3.5
09000	2000	2270002027	Dsl - Signal Boards/Light Plants	175	300	216	4667	DEFAULT	0.9
09000	2000	2270002030	Dsl - Trenchers	3	6	5	2500	DEFAULT	0.0
09000	2000	2270002030	Dsl - Trenchers	6	11	9.6	2500	DEFAULT	0.1
09000	2000	2270002030	Dsl - Trenchers	11	16	15.5	2500	DEFAULT	0.6
09000	2000	2270002030	Dsl - Trenchers	16	25	21.6	2500	DEFAULT	0.9
09000	2000	2270002030	Dsl - Trenchers	25	40	34.1	2500	DEFAULT	48.5
09000	2000	2270002030	Dsl - Trenchers	40	50	45.05	2500	DEFAULT	120.8
09000	2000	2270002030	Dsl - Trenchers	50	75	61.02	4667	DEFAULT	201.0
09000	2000	2270002030	Dsl - Trenchers	75	100	86.75	4667	DEFAULT	81.2
09000	2000	2270002030	Dsl - Trenchers	100	175	134.3	4667	DEFAULT	25.2
09000	2000	2270002030	Dsl - Trenchers	175	300	250.5	4667	DEFAULT	16.8
09000	2000	2270002030	Dsl - Trenchers	300	600	414.6	7000	DEFAULT	8.6
09000	2000	2270002030	Dsl - Trenchers	600	750	741.7	7000	DEFAULT	0.7
09000	2000	2270002030	Dsl - Trenchers	1200	2000	1500	7000	DEFAULT	0.1
09000	2000	2270002033	Dsl - Bore/Drill Rigs	6	11	8	2500	DEFAULT	0.5
09000	2000	2270002033	Dsl - Bore/Drill Rigs	11	16	14.5	2500	DEFAULT	0.8
09000	2000	2270002033	Dsl - Bore/Drill Rigs	16	25	23.48	2500	DEFAULT	1.7
09000	2000	2270002033	Dsl - Bore/Drill Rigs	25	40	31.48	2500	DEFAULT	29.9
09000	2000	2270002033	Dsl - Bore/Drill Rigs	40	50	44.93	2500	DEFAULT	30.4
09000	2000	2270002033	Dsl - Bore/Drill Rigs	50	75	61.85	4667	DEFAULT	49.2

TABLE 2 (Continued)
NONROAD Model 09000.POP Connecticut Specific Equipment Population File

FIPS	Year	SCC	Equipment Description	HPmn	HPmx	HPavg	Life	ScrapFlag	Population
09000	2000	2270002033	Dsl - Bore/Drill Rigs	75	100	85.12	4667	DEFAULT	50.1
09000	2000	2270002033	Dsl - Bore/Drill Rigs	100	175	131.8	4667	DEFAULT	73.6
09000	2000	2270002033	Dsl - Bore/Drill Rigs	175	300	239.2	4667	DEFAULT	64.0
09000	2000	2270002033	Dsl - Bore/Drill Rigs	300	600	447.1	7000	DEFAULT	36.9
09000	2000	2270002033	Dsl - Bore/Drill Rigs	600	750	690.5	7000	DEFAULT	8.6
09000	2000	2270002033	Dsl - Bore/Drill Rigs	750	1000	869	7000	DEFAULT	4.7
09000	2000	2270002033	Dsl - Bore/Drill Rigs	1000	1200	1050	7000	DEFAULT	0.1
09000	2000	2270002033	Dsl - Bore/Drill Rigs	1200	2000	1500	7000	DEFAULT	0.2
09000	2000	2270002036	Dsl - Excavators	3	6	6	2500	DEFAULT	0.6
09000	2000	2270002036	Dsl - Excavators	6	11	7.967	2500	DEFAULT	3.2
09000	2000	2270002036	Dsl - Excavators	11	16	13.14	2500	DEFAULT	6.7
09000	2000	2270002036	Dsl - Excavators	16	25	21.54	2500	DEFAULT	29.7
09000	2000	2270002036	Dsl - Excavators	25	40	33.05	2500	DEFAULT	61.4
09000	2000	2270002036	Dsl - Excavators	40	50	45.77	2500	DEFAULT	32.8
09000	2000	2270002036	Dsl - Excavators	50	75	61.3	4667	DEFAULT	25.4
09000	2000	2270002036	Dsl - Excavators	75	100	91.67	4667	DEFAULT	114.7
09000	2000	2270002036	Dsl - Excavators	100	175	137.6	4667	DEFAULT	428.5
09000	2000	2270002036	Dsl - Excavators	175	300	233.3	4667	DEFAULT	313.3
09000	2000	2270002036	Dsl - Excavators	300	600	410.6	7000	DEFAULT	83.0
09000	2000	2270002036	Dsl - Excavators	600	750	719.4	7000	DEFAULT	2.6
09000	2000	2270002036	Dsl - Excavators	750	1000	884	7000	DEFAULT	3.1
09000	2000	2270002036	Dsl - Excavators	1000	1200	1200	7000	DEFAULT	0.1
09000	2000	2270002036	Dsl - Excavators	1200	2000	1768	7000	DEFAULT	1.2
09000	2000	2270002036	Dsl - Excavators	2000	3000	2350	7000	DEFAULT	0.0
09000	2000	2270002039	Dsl - Concrete/Industrial Saws	6	11	10	2500	DEFAULT	2.7
09000	2000	2270002039	Dsl - Concrete/Industrial Saws	16	25	20.12	2500	DEFAULT	4.6
09000	2000	2270002039	Dsl - Concrete/Industrial Saws	25	40	32.94	2500	DEFAULT	26.4
09000	2000	2270002039	Dsl - Concrete/Industrial Saws	40	50	43.2	2500	DEFAULT	0.9
09000	2000	2270002039	Dsl - Concrete/Industrial Saws	50	75	57.85	4667	DEFAULT	8.5
09000	2000	2270002039	Dsl - Concrete/Industrial Saws	75	100	81.47	4667	DEFAULT	12.2
09000	2000	2270002039	Dsl - Concrete/Industrial Saws	100	175	120.9	4667	DEFAULT	1.5
09000	2000	2270002039	Dsl - Concrete/Industrial Saws	175	300	241.5	4667	DEFAULT	0.0
09000	2000	2270002042	Dsl - Cement & Mortar Mixers	3	6	5.983	2500	DEFAULT	53.7
09000	2000	2270002042	Dsl - Cement & Mortar Mixers	6	11	8.082	2500	DEFAULT	32.0
09000	2000	2270002042	Dsl - Cement & Mortar Mixers	11	16	13.08	2500	DEFAULT	5.9
09000	2000	2270002042	Dsl - Cement & Mortar Mixers	16	25	21.08	2500	DEFAULT	5.4
09000	2000	2270002042	Dsl - Cement & Mortar Mixers	25	40	32.78	2500	DEFAULT	3.9
09000	2000	2270002042	Dsl - Cement & Mortar Mixers	40	50	45.5	2500	DEFAULT	0.0
09000	2000	2270002042	Dsl - Cement & Mortar Mixers	50	75	59.56	4667	DEFAULT	6.8
09000	2000	2270002042	Dsl - Cement & Mortar Mixers	75	100	83.46	4667	DEFAULT	11.3
09000	2000	2270002042	Dsl - Cement & Mortar Mixers	100	175	128.9	4667	DEFAULT	3.6
09000	2000	2270002042	Dsl - Cement & Mortar Mixers	175	300	253.1	4667	DEFAULT	1.3
09000	2000	2270002042	Dsl - Cement & Mortar Mixers	300	600	402.3	7000	DEFAULT	1.6
09000	2000	2270002042	Dsl - Cement & Mortar Mixers	600	750	704.7	7000	DEFAULT	0.3
09000	2000	2270002045	Dsl - Cranes	16	25	23	2500	DEFAULT	0.0
09000	2000	2270002045	Dsl - Cranes	25	40	39.4	2500	DEFAULT	4.9
09000	2000	2270002045	Dsl - Cranes	40	50	41.7	2500	DEFAULT	0.1
09000	2000	2270002045	Dsl - Cranes	50	75	64	4667	DEFAULT	2.6
09000	2000	2270002045	Dsl - Cranes	75	100	88.14	4667	DEFAULT	25.2
09000	2000	2270002045	Dsl - Cranes	100	175	145.2	4667	DEFAULT	95.0

TABLE 2 (Continued)
NONROAD Model 09000.POP Connecticut Specific Equipment Population File

FIPS	Year	SCC	Equipment Description	HPmn	HPmx	HPavg	Life	ScrapFlag	Population
09000	2000	2270002045	Dsl - Cranes	175	300	237.7	4667	DEFAULT	97.1
09000	2000	2270002045	Dsl - Cranes	300	600	412	7000	DEFAULT	59.8
09000	2000	2270002045	Dsl - Cranes	600	750	669	7000	DEFAULT	2.6
09000	2000	2270002045	Dsl - Cranes	750	1000	882.8	7000	DEFAULT	0.7
09000	2000	2270002045	Dsl - Cranes	1000	1200	1071	7000	DEFAULT	0.0
09000	2000	2270002048	Dsl - Graders	25	40	35	2500	DEFAULT	0.0
09000	2000	2270002048	Dsl - Graders	40	50	48.3	2500	DEFAULT	0.1
09000	2000	2270002048	Dsl - Graders	50	75	59.54	4667	DEFAULT	1.1
09000	2000	2270002048	Dsl - Graders	75	100	84.21	4667	DEFAULT	8.6
09000	2000	2270002048	Dsl - Graders	100	175	140.8	4667	DEFAULT	88.2
09000	2000	2270002048	Dsl - Graders	175	300	231.2	4667	DEFAULT	147.7
09000	2000	2270002048	Dsl - Graders	300	600	341.8	7000	DEFAULT	16.9
09000	2000	2270002048	Dsl - Graders	600	750	750	7000	DEFAULT	1.0
09000	2000	2270002051	Dsl - Off-highway Trucks	100	175	160.5	4667	DEFAULT	0.2
09000	2000	2270002051	Dsl - Off-highway Trucks	175	300	244.3	4667	DEFAULT	22.2
09000	2000	2270002051	Dsl - Off-highway Trucks	300	600	419.9	7000	DEFAULT	47.1
09000	2000	2270002051	Dsl - Off-highway Trucks	600	750	688.1	7000	DEFAULT	26.6
09000	2000	2270002051	Dsl - Off-highway Trucks	750	1000	868	7000	DEFAULT	12.9
09000	2000	2270002051	Dsl - Off-highway Trucks	1000	1200	1153	7000	DEFAULT	4.1
09000	2000	2270002051	Dsl - Off-highway Trucks	1200	2000	1787	7000	DEFAULT	20.7
09000	2000	2270002051	Dsl - Off-highway Trucks	2000	3000	2424	7000	DEFAULT	5.0
09000	2000	2270002054	Dsl - Crushing/Proc. Equipment	16	25	20.42	2500	DEFAULT	0.6
09000	2000	2270002054	Dsl - Crushing/Proc. Equipment	25	40	32.1	2500	DEFAULT	0.8
09000	2000	2270002054	Dsl - Crushing/Proc. Equipment	40	50	45.6	2500	DEFAULT	3.0
09000	2000	2270002054	Dsl - Crushing/Proc. Equipment	50	75	60.74	4667	DEFAULT	34.0
09000	2000	2270002054	Dsl - Crushing/Proc. Equipment	75	100	88.98	4667	DEFAULT	8.2
09000	2000	2270002054	Dsl - Crushing/Proc. Equipment	100	175	132.3	4667	DEFAULT	12.9
09000	2000	2270002054	Dsl - Crushing/Proc. Equipment	175	300	241.3	4667	DEFAULT	4.9
09000	2000	2270002054	Dsl - Crushing/Proc. Equipment	300	600	423.2	7000	DEFAULT	12.7
09000	2000	2270002054	Dsl - Crushing/Proc. Equipment	600	750	666.3	7000	DEFAULT	1.0
09000	2000	2270002054	Dsl - Crushing/Proc. Equipment	750	1000	920	7000	DEFAULT	0.1
09000	2000	2270002057	Dsl - Rough Terrain Forklifts	11	16	13.5	2500	DEFAULT	0.1
09000	2000	2270002057	Dsl - Rough Terrain Forklifts	16	25	22.45	2500	DEFAULT	1.7
09000	2000	2270002057	Dsl - Rough Terrain Forklifts	25	40	33.36	2500	DEFAULT	40.5
09000	2000	2270002057	Dsl - Rough Terrain Forklifts	40	50	45.06	2500	DEFAULT	45.1
09000	2000	2270002057	Dsl - Rough Terrain Forklifts	50	75	61.42	4667	DEFAULT	89.4
09000	2000	2270002057	Dsl - Rough Terrain Forklifts	75	100	85.6	4667	DEFAULT	511.7
09000	2000	2270002057	Dsl - Rough Terrain Forklifts	100	175	126	4667	DEFAULT	262.9
09000	2000	2270002057	Dsl - Rough Terrain Forklifts	175	300	229.1	4667	DEFAULT	13.6
09000	2000	2270002057	Dsl - Rough Terrain Forklifts	300	600	346.1	7000	DEFAULT	17.9
09000	2000	2270002060	Dsl - Rubber Tire Loaders	6	11	8.336	2500	DEFAULT	0.0
09000	2000	2270002060	Dsl - Rubber Tire Loaders	11	16	15.4	2500	DEFAULT	0.0
09000	2000	2270002060	Dsl - Rubber Tire Loaders	16	25	22.83	2500	DEFAULT	0.4
09000	2000	2270002060	Dsl - Rubber Tire Loaders	25	40	34.38	2500	DEFAULT	20.5
09000	2000	2270002060	Dsl - Rubber Tire Loaders	40	50	45.44	2500	DEFAULT	23.5
09000	2000	2270002060	Dsl - Rubber Tire Loaders	50	75	61.7	4667	DEFAULT	33.3
09000	2000	2270002060	Dsl - Rubber Tire Loaders	75	100	85.48	4667	DEFAULT	143.1
09000	2000	2270002060	Dsl - Rubber Tire Loaders	100	175	136.3	4667	DEFAULT	361.9
09000	2000	2270002060	Dsl - Rubber Tire Loaders	175	300	230	4667	DEFAULT	345.5
09000	2000	2270002060	Dsl - Rubber Tire Loaders	300	600	419.4	7000	DEFAULT	253.5

TABLE 2 (Continued)
NONROAD Model 09000.POP Connecticut Specific Equipment Population File

FIPS	Year	SCC	Equipment Description	HPmn	HPmx	HPavg	Life	ScrapFlag	Population
09000	2000	2270002060	Dsl - Rubber Tire Loaders	600	750	692.2	7000	DEFAULT	19.2
09000	2000	2270002060	Dsl - Rubber Tire Loaders	750	1000	866.3	7000	DEFAULT	9.3
09000	2000	2270002060	Dsl - Rubber Tire Loaders	1000	1200	1082	7000	DEFAULT	1.9
09000	2000	2270002060	Dsl - Rubber Tire Loaders	1200	2000	1867	7000	DEFAULT	11.4
09000	2000	2270002060	Dsl - Rubber Tire Loaders	2000	3000	2243	7000	DEFAULT	0.4
09000	2000	2270002066	Dsl - Tractors/Loaders/Backhoes	11	16	15.5	2500	DEFAULT	0.0
09000	2000	2270002066	Dsl - Tractors/Loaders/Backhoes	16	25	22.78	2500	DEFAULT	20.8
09000	2000	2270002066	Dsl - Tractors/Loaders/Backhoes	25	40	32.49	2500	DEFAULT	41.6
09000	2000	2270002066	Dsl - Tractors/Loaders/Backhoes	40	50	46.23	2500	DEFAULT	22.2
09000	2000	2270002066	Dsl - Tractors/Loaders/Backhoes	50	75	62.46	4667	DEFAULT	415.6
09000	2000	2270002066	Dsl - Tractors/Loaders/Backhoes	75	100	87.17	4667	DEFAULT	1468.4
09000	2000	2270002066	Dsl - Tractors/Loaders/Backhoes	100	175	120.7	4667	DEFAULT	977.0
09000	2000	2270002066	Dsl - Tractors/Loaders/Backhoes	175	300	200	4667	DEFAULT	5.3
09000	2000	2270002069	Dsl - Crawler Tractor/Dozers	25	40	25.75	2500	DEFAULT	0.0
09000	2000	2270002069	Dsl - Crawler Tractor/Dozers	40	50	42.5	2500	DEFAULT	0.0
09000	2000	2270002069	Dsl - Crawler Tractor/Dozers	50	75	57.98	4667	DEFAULT	4.3
09000	2000	2270002069	Dsl - Crawler Tractor/Dozers	75	100	87.86	4667	DEFAULT	124.0
09000	2000	2270002069	Dsl - Crawler Tractor/Dozers	100	175	136.1	4667	DEFAULT	280.2
09000	2000	2270002069	Dsl - Crawler Tractor/Dozers	175	300	235.5	4667	DEFAULT	242.7
09000	2000	2270002069	Dsl - Crawler Tractor/Dozers	300	600	425.3	7000	DEFAULT	122.9
09000	2000	2270002069	Dsl - Crawler Tractor/Dozers	600	750	707	7000	DEFAULT	48.5
09000	2000	2270002069	Dsl - Crawler Tractor/Dozers	750	1000	923	7000	DEFAULT	10.0
09000	2000	2270002069	Dsl - Crawler Tractor/Dozers	1000	1200	1065	7000	DEFAULT	17.4
09000	2000	2270002069	Dsl - Crawler Tractor/Dozers	1200	2000	1473	7000	DEFAULT	0.1
09000	2000	2270002072	Dsl - Skid Steer Loaders	6	11	9.5	2500	DEFAULT	1.1
09000	2000	2270002072	Dsl - Skid Steer Loaders	11	16	15.47	2500	DEFAULT	183.4
09000	2000	2270002072	Dsl - Skid Steer Loaders	16	25	20.3	2500	DEFAULT	406.5
09000	2000	2270002072	Dsl - Skid Steer Loaders	25	40	34.97	2500	DEFAULT	795.5
09000	2000	2270002072	Dsl - Skid Steer Loaders	40	50	44.94	2500	DEFAULT	314.6
09000	2000	2270002072	Dsl - Skid Steer Loaders	50	75	57.67	4667	DEFAULT	1727.4
09000	2000	2270002072	Dsl - Skid Steer Loaders	75	100	84.35	4667	DEFAULT	1135.5
09000	2000	2270002072	Dsl - Skid Steer Loaders	100	175	115.3	4667	DEFAULT	28.6
09000	2000	2270002075	Dsl - Off-Highway Tractors	100	175	144.5	4667	DEFAULT	0.0
09000	2000	2270002075	Dsl - Off-Highway Tractors	175	300	290	4667	DEFAULT	3.9
09000	2000	2270002075	Dsl - Off-Highway Tractors	300	600	410.3	7000	DEFAULT	6.6
09000	2000	2270002075	Dsl - Off-Highway Tractors	600	750	676	7000	DEFAULT	15.8
09000	2000	2270002075	Dsl - Off-Highway Tractors	750	1000	907.8	7000	DEFAULT	5.2
09000	2000	2270002075	Dsl - Off-Highway Tractors	1000	1200	1139	7000	DEFAULT	0.5
09000	2000	2270002075	Dsl - Off-Highway Tractors	1200	2000	1516	7000	DEFAULT	4.1
09000	2000	2270002075	Dsl - Off-Highway Tractors	2000	3000	2283	7000	DEFAULT	0.1
09000	2000	2270002078	Dsl - Dumpers/Tenders	6	11	10	2500	DEFAULT	7.8
09000	2000	2270002078	Dsl - Dumpers/Tenders	11	16	14.31	2500	DEFAULT	7.4
09000	2000	2270002078	Dsl - Dumpers/Tenders	16	25	23.75	2500	DEFAULT	5.3
09000	2000	2270002078	Dsl - Dumpers/Tenders	25	40	32.15	2500	DEFAULT	6.2
09000	2000	2270002078	Dsl - Dumpers/Tenders	40	50	48.5	2500	DEFAULT	1.3
09000	2000	2270002078	Dsl - Dumpers/Tenders	50	75	57.8	4667	DEFAULT	0.6
09000	2000	2270002078	Dsl - Dumpers/Tenders	75	100	85.4	4667	DEFAULT	4.2
09000	2000	2270002078	Dsl - Dumpers/Tenders	100	175	109.7	4667	DEFAULT	1.5
09000	2000	2270002081	Dsl - Other Construction Equipment	6	11	7.9	2500	DEFAULT	0.3
09000	2000	2270002081	Dsl - Other Construction Equipment	11	16	15	2500	DEFAULT	0.1

TABLE 2 (Continued)
NONROAD Model 09000.POP Connecticut Specific Equipment Population File

FIPS	Year	SCC	Equipment Description	HPmn	HPmx	HPavg	Life	ScrapFlag	Population
09000	2000	2270002081	Dsl - Other Construction Equipment	16	25	21.1	2500	DEFAULT	1.1
09000	2000	2270002081	Dsl - Other Construction Equipment	25	40	34.14	2500	DEFAULT	3.2
09000	2000	2270002081	Dsl - Other Construction Equipment	40	50	44.43	2500	DEFAULT	0.3
09000	2000	2270002081	Dsl - Other Construction Equipment	50	75	59.85	4667	DEFAULT	3.1
09000	2000	2270002081	Dsl - Other Construction Equipment	75	100	84.28	4667	DEFAULT	3.1
09000	2000	2270002081	Dsl - Other Construction Equipment	100	175	137.7	4667	DEFAULT	21.5
09000	2000	2270002081	Dsl - Other Construction Equipment	175	300	233.7	4667	DEFAULT	19.2
09000	2000	2270002081	Dsl - Other Construction Equipment	300	600	442.6	7000	DEFAULT	46.4
09000	2000	2270002081	Dsl - Other Construction Equipment	600	750	710.2	7000	DEFAULT	8.5
09000	2000	2270002081	Dsl - Other Construction Equipment	750	1000	827.5	7000	DEFAULT	0.0
09000	2000	2270002081	Dsl - Other Construction Equipment	1000	1200	1200	7000	DEFAULT	0.6
09000	2000	2270003010	Dsl - Aerial Lifts	6	11	8	2500	DEFAULT	1.9
09000	2000	2270003010	Dsl - Aerial Lifts	11	16	13.18	2500	DEFAULT	12.6
09000	2000	2270003010	Dsl - Aerial Lifts	16	25	21.63	2500	DEFAULT	177.1
09000	2000	2270003010	Dsl - Aerial Lifts	25	40	33.05	2500	DEFAULT	220.0
09000	2000	2270003010	Dsl - Aerial Lifts	40	50	45.46	2500	DEFAULT	52.0
09000	2000	2270003010	Dsl - Aerial Lifts	50	75	60.46	4667	DEFAULT	369.6
09000	2000	2270003010	Dsl - Aerial Lifts	75	100	83.86	4667	DEFAULT	131.4
09000	2000	2270003010	Dsl - Aerial Lifts	100	175	113	4667	DEFAULT	1.6
09000	2000	2270003020	Dsl - Forklifts	11	16	15	2500	DEFAULT	0.3
09000	2000	2270003020	Dsl - Forklifts	16	25	25	2500	DEFAULT	0.1
09000	2000	2270003020	Dsl - Forklifts	25	40	34.68	2500	DEFAULT	0.6
09000	2000	2270003020	Dsl - Forklifts	40	50	47.02	2500	DEFAULT	7.5
09000	2000	2270003020	Dsl - Forklifts	50	75	61.74	4667	DEFAULT	279.1
09000	2000	2270003020	Dsl - Forklifts	75	100	85.48	4667	DEFAULT	281.2
09000	2000	2270003020	Dsl - Forklifts	100	175	135.6	4667	DEFAULT	101.0
09000	2000	2270003020	Dsl - Forklifts	175	300	220.3	4667	DEFAULT	16.4
09000	2000	2270003020	Dsl - Forklifts	300	600	353.9	7000	DEFAULT	21.0
09000	2000	2270003030	Dsl - Sweepers/Scrubbers	3	6	5	2500	DEFAULT	4.7
09000	2000	2270003030	Dsl - Sweepers/Scrubbers	6	11	11	2500	DEFAULT	0.2
09000	2000	2270003030	Dsl - Sweepers/Scrubbers	11	16	13.65	2500	DEFAULT	0.0
09000	2000	2270003030	Dsl - Sweepers/Scrubbers	16	25	21.69	2500	DEFAULT	28.6
09000	2000	2270003030	Dsl - Sweepers/Scrubbers	25	40	34.83	2500	DEFAULT	68.9
09000	2000	2270003030	Dsl - Sweepers/Scrubbers	40	50	43.64	2500	DEFAULT	46.5
09000	2000	2270003030	Dsl - Sweepers/Scrubbers	50	75	60.81	4667	DEFAULT	45.0
09000	2000	2270003030	Dsl - Sweepers/Scrubbers	75	100	81.86	4667	DEFAULT	165.7
09000	2000	2270003030	Dsl - Sweepers/Scrubbers	100	175	134.3	4667	DEFAULT	186.1
09000	2000	2270003030	Dsl - Sweepers/Scrubbers	175	300	216.7	4667	DEFAULT	50.0
09000	2000	2270003030	Dsl - Sweepers/Scrubbers	300	600	363.8	7000	DEFAULT	0.8
09000	2000	2270003040	Dsl - Other General Industrial Eqp	3	6	4.367	2500	DEFAULT	32.7
09000	2000	2270003040	Dsl - Other General Industrial Eqp	6	11	9.58	2500	DEFAULT	6.2
09000	2000	2270003040	Dsl - Other General Industrial Eqp	11	16	13.72	2500	DEFAULT	4.0
09000	2000	2270003040	Dsl - Other General Industrial Eqp	16	25	22.62	2500	DEFAULT	6.9
09000	2000	2270003040	Dsl - Other General Industrial Eqp	25	40	32.48	2500	DEFAULT	22.0
09000	2000	2270003040	Dsl - Other General Industrial Eqp	40	50	44.31	2500	DEFAULT	8.0
09000	2000	2270003040	Dsl - Other General Industrial Eqp	50	75	61.31	4667	DEFAULT	61.9
09000	2000	2270003040	Dsl - Other General Industrial Eqp	75	100	86.11	4667	DEFAULT	192.8
09000	2000	2270003040	Dsl - Other General Industrial Eqp	100	175	130.4	4667	DEFAULT	274.3
09000	2000	2270003040	Dsl - Other General Industrial Eqp	175	300	234.2	4667	DEFAULT	85.6
09000	2000	2270003040	Dsl - Other General Industrial Eqp	300	600	389.4	7000	DEFAULT	8.8

TABLE 2 (Continued)
NONROAD Model 09000.POP Connecticut Specific Equipment Population File

FIPS	Year	SCC	Equipment Description	HPm	HPmx	HPavg	Life	ScrapFlag	Population
09000	2000	2270003040	Dsl - Other General Industrial Eqp	600	750	650	7000	DEFAULT	1.5
09000	2000	2270003040	Dsl - Other General Industrial Eqp	1200	2000	1350	7000	DEFAULT	0.0
09000	2000	2270003050	Dsl - Other Material Handling Eqp	6	11	8.5	2500	DEFAULT	0.0
09000	2000	2270003050	Dsl - Other Material Handling Eqp	16	25	19	2500	DEFAULT	0.0
09000	2000	2270003050	Dsl - Other Material Handling Eqp	25	40	37.2	2500	DEFAULT	5.2
09000	2000	2270003050	Dsl - Other Material Handling Eqp	50	75	64.73	4667	DEFAULT	26.3
09000	2000	2270003050	Dsl - Other Material Handling Eqp	75	100	86.43	4667	DEFAULT	7.9
09000	2000	2270003050	Dsl - Other Material Handling Eqp	100	175	128.9	4667	DEFAULT	36.4
09000	2000	2270003050	Dsl - Other Material Handling Eqp	175	300	245.2	4667	DEFAULT	13.9
09000	2000	2270003050	Dsl - Other Material Handling Eqp	300	600	428.3	7000	DEFAULT	1.9
09000	2000	2270003050	Dsl - Other Material Handling Eqp	1000	1200	1071	7000	DEFAULT	0.0
09000	2000	2270003060	Dsl - AC\Refrigeration	6	11	9.6	2500	DEFAULT	75.9
09000	2000	2270003060	Dsl - AC\Refrigeration	11	16	13.24	2500	DEFAULT	233.4
09000	2000	2270003060	Dsl - AC\Refrigeration	16	25	19.45	2500	DEFAULT	218.8
09000	2000	2270003060	Dsl - AC\Refrigeration	25	40	31.83	2500	DEFAULT	56.1
09000	2000	2270003060	Dsl - AC\Refrigeration	40	50	44.9	2500	DEFAULT	411.3
09000	2000	2270003060	Dsl - AC\Refrigeration	50	75	57	4667	DEFAULT	1582.0
09000	2000	2270003060	Dsl - AC\Refrigeration	75	100	76	4667	DEFAULT	0.0
09000	2000	2270003070	Dsl - Terminal Tractors	6	11	8.3	2500	DEFAULT	0.0
09000	2000	2270003070	Dsl - Terminal Tractors	11	16	11.7	2500	DEFAULT	0.0
09000	2000	2270003070	Dsl - Terminal Tractors	16	25	21.2	2500	DEFAULT	0.2
09000	2000	2270003070	Dsl - Terminal Tractors	25	40	38.5	2500	DEFAULT	0.1
09000	2000	2270003070	Dsl - Terminal Tractors	40	50	41	2500	DEFAULT	0.0
09000	2000	2270003070	Dsl - Terminal Tractors	50	75	62.82	4667	DEFAULT	35.3
09000	2000	2270003070	Dsl - Terminal Tractors	75	100	84.18	4667	DEFAULT	61.3
09000	2000	2270003070	Dsl - Terminal Tractors	100	175	141.1	4667	DEFAULT	98.4
09000	2000	2270003070	Dsl - Terminal Tractors	175	300	221.4	4667	DEFAULT	163.9
09000	2000	2270003070	Dsl - Terminal Tractors	300	600	419	7000	DEFAULT	5.0
09000	2000	2270003070	Dsl - Terminal Tractors	600	750	655	7000	DEFAULT	0.0
09000	2000	2270004031	Dsl - Leafblowers/Vacuums (com)	3	6	5.667	2500	DEFAULT	3.7
09000	2000	2270004031	Dsl - Leafblowers/Vacuums (com)	25	40	28	2500	DEFAULT	0.9
09000	2000	2270004031	Dsl - Leafblowers/Vacuums (com)	40	50	49	2500	DEFAULT	0.0
09000	2000	2270004031	Dsl - Leafblowers/Vacuums (com)	50	75	61	4667	DEFAULT	0.0
09000	2000	2270004031	Dsl - Leafblowers/Vacuums (com)	75	100	95	4667	DEFAULT	0.0
09000	2000	2270004031	Dsl - Leafblowers/Vacuums (com)	100	175	118.5	4667	DEFAULT	0.0
09000	2000	2270004036	Dsl - Snowblowers (com)	100	175	165	4667	DEFAULT	0.6
09000	2000	2270004036	Dsl - Snowblowers (com)	175	300	251.8	4667	DEFAULT	5.4
09000	2000	2270004036	Dsl - Snowblowers (com)	300	600	384.4	7000	DEFAULT	6.7
09000	2000	2270004046	Dsl - Commercial Mowers (com)	3	6	5	2500	DEFAULT	3.8
09000	2000	2270004046	Dsl - Commercial Mowers (com)	6	11	7.35	2500	DEFAULT	0.0
09000	2000	2270004046	Dsl - Commercial Mowers (com)	11	16	14.12	2500	DEFAULT	105.4
09000	2000	2270004046	Dsl - Commercial Mowers (com)	16	25	20.87	2500	DEFAULT	1463.2
09000	2000	2270004046	Dsl - Commercial Mowers (com)	25	40	31.28	2500	DEFAULT	709.2
09000	2000	2270004046	Dsl - Commercial Mowers (com)	40	50	44.66	2500	DEFAULT	158.4
09000	2000	2270004046	Dsl - Commercial Mowers (com)	50	75	55.08	4667	DEFAULT	260.2
09000	2000	2270004046	Dsl - Commercial Mowers (com)	75	100	82.63	4667	DEFAULT	55.6
09000	2000	2270004056	Dsl - Lawn & Garden Tractors (com)	6	11	10.5	2500	DEFAULT	0.4
09000	2000	2270004056	Dsl - Lawn & Garden Tractors (com)	11	16	14.62	2500	DEFAULT	25.7
09000	2000	2270004056	Dsl - Lawn & Garden Tractors (com)	16	25	20.03	2500	DEFAULT	642.4
09000	2000	2270004056	Dsl - Lawn & Garden Tractors (com)	25	40	26.33	2500	DEFAULT	11.2

TABLE 2 (Continued)
NONROAD Model 09000.POP Connecticut Specific Equipment Population File

FIPS	Year	SCC	Equipment Description	HPmn	HPmx	HPavg	Life	ScrapFlag	Population
09000	2000	2270004056	Dsl - Lawn & Garden Tractors (com)	40	50	44.5	2500	DEFAULT	6.4
09000	2000	2270004056	Dsl - Lawn & Garden Tractors (com)	75	100	80	4667	DEFAULT	9.8
09000	2000	2270004066	Dsl - Chippers/Stump Grinders (com)	16	25	25	2500	DEFAULT	0.1
09000	2000	2270004066	Dsl - Chippers/Stump Grinders (com)	25	40	37.2	2500	DEFAULT	2.4
09000	2000	2270004066	Dsl - Chippers/Stump Grinders (com)	40	50	47.12	2500	DEFAULT	25.3
09000	2000	2270004066	Dsl - Chippers/Stump Grinders (com)	50	75	61.07	4667	DEFAULT	94.5
09000	2000	2270004066	Dsl - Chippers/Stump Grinders (com)	75	100	84.47	4667	DEFAULT	417.6
09000	2000	2270004066	Dsl - Chippers/Stump Grinders (com)	100	175	121.3	4667	DEFAULT	132.2
09000	2000	2270004066	Dsl - Chippers/Stump Grinders (com)	175	300	241.7	4667	DEFAULT	79.8
09000	2000	2270004066	Dsl - Chippers/Stump Grinders (com)	300	600	434.4	7000	DEFAULT	67.7
09000	2000	2270004066	Dsl - Chippers/Stump Grinders (com)	600	750	702.9	7000	DEFAULT	15.3
09000	2000	2270004066	Dsl - Chippers/Stump Grinders (com)	750	1000	947.8	7000	DEFAULT	2.5
09000	2000	2270004066	Dsl - Chippers/Stump Grinders (com)	1000	1200	1095	7000	DEFAULT	0.3
09000	2000	2270004071	Dsl - Commercial Turf Equipment (com)	6	11	7.75	2500	DEFAULT	0.0
09000	2000	2270004071	Dsl - Commercial Turf Equipment (com)	11	16	13.56	2500	DEFAULT	15.0
09000	2000	2270004071	Dsl - Commercial Turf Equipment (com)	16	25	21.15	2500	DEFAULT	19.5
09000	2000	2270004071	Dsl - Commercial Turf Equipment (com)	25	40	34.57	2500	DEFAULT	36.0
09000	2000	2270004071	Dsl - Commercial Turf Equipment (com)	40	50	45.47	2500	DEFAULT	17.5
09000	2000	2270004071	Dsl - Commercial Turf Equipment (com)	50	75	62.87	4667	DEFAULT	0.3
09000	2000	2270004071	Dsl - Commercial Turf Equipment (com)	75	100	83.82	4667	DEFAULT	18.4
09000	2000	2270004071	Dsl - Commercial Turf Equipment (com)	100	175	113	4667	DEFAULT	15.4
09000	2000	2270004076	Dsl - Other Lawn & Garden Eqp. (com)	11	16	15	2500	DEFAULT	0.4
09000	2000	2270004076	Dsl - Other Lawn & Garden Eqp. (com)	16	25	22.9	2500	DEFAULT	3.7
09000	2000	2270004076	Dsl - Other Lawn & Garden Eqp. (com)	25	40	32	2500	DEFAULT	0.0
09000	2000	2270004076	Dsl - Other Lawn & Garden Eqp. (com)	40	50	47	2500	DEFAULT	0.1
09000	2000	2270004076	Dsl - Other Lawn & Garden Eqp. (com)	50	75	51	4667	DEFAULT	3.1
09000	2000	2270004076	Dsl - Other Lawn & Garden Eqp. (com)	75	100	80	4667	DEFAULT	0.8
09000	2000	2270004076	Dsl - Other Lawn & Garden Eqp. (com)	100	175	131	4667	DEFAULT	0.1
09000	2000	2270005010	Dsl - 2-Wheel Tractors	3	6	6	2500	DEFAULT	0.0
09000	2000	2270005010	Dsl - 2-Wheel Tractors	6	11	8.333	2500	DEFAULT	0.2
09000	2000	2270005015	Dsl - Agricultural Tractors	11	16	16	2500	DEFAULT	0.0
09000	2000	2270005015	Dsl - Agricultural Tractors	16	25	20.97	2500	DEFAULT	34.3
09000	2000	2270005015	Dsl - Agricultural Tractors	25	40	32.48	2500	DEFAULT	92.3
09000	2000	2270005015	Dsl - Agricultural Tractors	40	50	46.39	2500	DEFAULT	52.7
09000	2000	2270005015	Dsl - Agricultural Tractors	50	75	62.18	4667	DEFAULT	83.5
09000	2000	2270005015	Dsl - Agricultural Tractors	75	100	86.14	4667	DEFAULT	73.6
09000	2000	2270005015	Dsl - Agricultural Tractors	100	175	133.6	4667	DEFAULT	122.6
09000	2000	2270005015	Dsl - Agricultural Tractors	175	300	236.5	4667	DEFAULT	105.7
09000	2000	2270005015	Dsl - Agricultural Tractors	300	600	415.2	7000	DEFAULT	54.7
09000	2000	2270005015	Dsl - Agricultural Tractors	600	750	635	7000	DEFAULT	0.0
09000	2000	2270005020	Dsl - Combines	75	100	91	4667	DEFAULT	5.8
09000	2000	2270005020	Dsl - Combines	100	175	141.8	4667	DEFAULT	52.9
09000	2000	2270005020	Dsl - Combines	175	300	231.5	4667	DEFAULT	63.1
09000	2000	2270005020	Dsl - Combines	300	600	345.8	7000	DEFAULT	3.3
09000	2000	2270005025	Dsl - Balers	40	50	50	2500	DEFAULT	0.1
09000	2000	2270005025	Dsl - Balers	50	75	61.8	4667	DEFAULT	1.4
09000	2000	2270005025	Dsl - Balers	75	100	85.83	4667	DEFAULT	0.5
09000	2000	2270005025	Dsl - Balers	100	175	140	4667	DEFAULT	0.4
09000	2000	2270005025	Dsl - Balers	175	300	177	4667	DEFAULT	0.0
09000	2000	2270005030	Dsl - Agricultural Mowers	75	100	76	4667	DEFAULT	0.1

TABLE 2 (Continued)
NONROAD Model 09000.POP Connecticut Specific Equipment Population File

FIPS	Year	SCC	Equipment Description	HPmn	HPmx	HPavg	Life	ScrapFlag	Population
09000	2000	2270005035	Dsl - Sprayers	16	25	22.6	2500	DEFAULT	0.7
09000	2000	2270005035	Dsl - Sprayers	25	40	32.06	2500	DEFAULT	0.3
09000	2000	2270005035	Dsl - Sprayers	40	50	47.97	2500	DEFAULT	0.2
09000	2000	2270005035	Dsl - Sprayers	50	75	63.66	4667	DEFAULT	0.5
09000	2000	2270005035	Dsl - Sprayers	75	100	86.24	4667	DEFAULT	3.2
09000	2000	2270005035	Dsl - Sprayers	100	175	128.4	4667	DEFAULT	6.2
09000	2000	2270005035	Dsl - Sprayers	175	300	226.6	4667	DEFAULT	6.8
09000	2000	2270005035	Dsl - Sprayers	300	600	358.5	7000	DEFAULT	1.8
09000	2000	2270005040	Dsl - Tillers > 6 HP	3	6	6	2500	DEFAULT	0.0
09000	2000	2270005040	Dsl - Tillers > 6 HP	175	300	245	4667	DEFAULT	0.0
09000	2000	2270005040	Dsl - Tillers > 6 HP	300	600	424.5	7000	DEFAULT	0.0
09000	2000	2270005045	Dsl - Swathers	50	75	70	4667	DEFAULT	3.9
09000	2000	2270005045	Dsl - Swathers	75	100	85	4667	DEFAULT	18.4
09000	2000	2270005045	Dsl - Swathers	100	175	131.3	4667	DEFAULT	3.6
09000	2000	2270005045	Dsl - Swathers	175	300	200	4667	DEFAULT	0.2
09000	2000	2270005055	Dsl - Other Agricultural Equipment	6	11	10.5	2500	DEFAULT	0.0
09000	2000	2270005055	Dsl - Other Agricultural Equipment	11	16	14.38	2500	DEFAULT	0.1
09000	2000	2270005055	Dsl - Other Agricultural Equipment	16	25	20.87	2500	DEFAULT	0.4
09000	2000	2270005055	Dsl - Other Agricultural Equipment	25	40	32.08	2500	DEFAULT	0.2
09000	2000	2270005055	Dsl - Other Agricultural Equipment	40	50	45.02	2500	DEFAULT	0.1
09000	2000	2270005055	Dsl - Other Agricultural Equipment	50	75	62.64	4667	DEFAULT	1.1
09000	2000	2270005055	Dsl - Other Agricultural Equipment	75	100	84.95	4667	DEFAULT	1.4
09000	2000	2270005055	Dsl - Other Agricultural Equipment	100	175	135.5	4667	DEFAULT	3.4
09000	2000	2270005055	Dsl - Other Agricultural Equipment	175	300	230.4	4667	DEFAULT	3.5
09000	2000	2270005055	Dsl - Other Agricultural Equipment	300	600	375.1	7000	DEFAULT	1.5
09000	2000	2270005055	Dsl - Other Agricultural Equipment	750	1000	965	7000	DEFAULT	0.0
09000	2000	2270005060	Dsl - Irrigation Sets	6	11	8	2500	DEFAULT	0.0
09000	2000	2270005060	Dsl - Irrigation Sets	11	16	15.6	2500	DEFAULT	0.0
09000	2000	2270005060	Dsl - Irrigation Sets	16	25	21.88	2500	DEFAULT	0.3
09000	2000	2270005060	Dsl - Irrigation Sets	25	40	33	2500	DEFAULT	0.6
09000	2000	2270005060	Dsl - Irrigation Sets	40	50	45.08	2500	DEFAULT	0.3
09000	2000	2270005060	Dsl - Irrigation Sets	50	75	60.24	4667	DEFAULT	1.0
09000	2000	2270005060	Dsl - Irrigation Sets	75	100	85.87	4667	DEFAULT	4.6
09000	2000	2270005060	Dsl - Irrigation Sets	100	175	136.3	4667	DEFAULT	2.4
09000	2000	2270005060	Dsl - Irrigation Sets	175	300	224.5	4667	DEFAULT	0.7
09000	2000	2270005060	Dsl - Irrigation Sets	300	600	390	7000	DEFAULT	0.0
09000	2000	2270005060	Dsl - Irrigation Sets	600	750	704.7	7000	DEFAULT	0.0
09000	2000	2270006005	Dsl - Generator Sets	3	6	5.35	2500	DEFAULT	662.5
09000	2000	2270006005	Dsl - Generator Sets	6	11	8.418	2500	DEFAULT	661.5
09000	2000	2270006005	Dsl - Generator Sets	11	16	13.56	2500	DEFAULT	509.9
09000	2000	2270006005	Dsl - Generator Sets	16	25	21.29	2500	DEFAULT	802.8
09000	2000	2270006005	Dsl - Generator Sets	25	40	33.44	2500	DEFAULT	1328.8
09000	2000	2270006005	Dsl - Generator Sets	40	50	45.19	2500	DEFAULT	181.5
09000	2000	2270006005	Dsl - Generator Sets	50	75	59.96	4667	DEFAULT	669.7
09000	2000	2270006005	Dsl - Generator Sets	75	100	86.42	4667	DEFAULT	815.0
09000	2000	2270006005	Dsl - Generator Sets	100	175	135.7	4667	DEFAULT	278.2
09000	2000	2270006005	Dsl - Generator Sets	175	300	238	4667	DEFAULT	154.7
09000	2000	2270006005	Dsl - Generator Sets	300	600	419.3	7000	DEFAULT	80.3
09000	2000	2270006005	Dsl - Generator Sets	600	750	682.1	7000	DEFAULT	0.0
09000	2000	2270006005	Dsl - Generator Sets	750	1000	887.1	7000	DEFAULT	0.0

TABLE 2 (Continued)
NONROAD Model 09000.POP Connecticut Specific Equipment Population File

FIPS	Year	SCC	Equipment Description	HPmn	HPmx	HPavg	Life	ScrapFlag	Population
09000	2000	2270006005	Dsl - Generator Sets	1000	1200	1112	7000	DEFAULT	0.0
09000	2000	2270006005	Dsl - Generator Sets	1200	2000	1655	7000	DEFAULT	0.0
09000	2000	2270006005	Dsl - Generator Sets	2000	3000	2401	7000	DEFAULT	0.0
09000	2000	2270006010	Dsl - Pumps	1	3	3	2500	DEFAULT	0.3
09000	2000	2270006010	Dsl - Pumps	3	6	5.225	2500	DEFAULT	114.1
09000	2000	2270006010	Dsl - Pumps	6	11	8.464	2500	DEFAULT	274.2
09000	2000	2270006010	Dsl - Pumps	11	16	13.73	2500	DEFAULT	68.8
09000	2000	2270006010	Dsl - Pumps	16	25	21.72	2500	DEFAULT	54.7
09000	2000	2270006010	Dsl - Pumps	25	40	34.32	2500	DEFAULT	95.2
09000	2000	2270006010	Dsl - Pumps	40	50	44.78	2500	DEFAULT	27.0
09000	2000	2270006010	Dsl - Pumps	50	75	62.38	4667	DEFAULT	182.6
09000	2000	2270006010	Dsl - Pumps	75	100	86.31	4667	DEFAULT	203.2
09000	2000	2270006010	Dsl - Pumps	100	175	132.4	4667	DEFAULT	89.6
09000	2000	2270006010	Dsl - Pumps	175	300	243.2	4667	DEFAULT	22.5
09000	2000	2270006010	Dsl - Pumps	300	600	397.6	7000	DEFAULT	11.4
09000	2000	2270006010	Dsl - Pumps	600	750	687.2	7000	DEFAULT	0.0
09000	2000	2270006010	Dsl - Pumps	750	1000	860	7000	DEFAULT	0.0
09000	2000	2270006010	Dsl - Pumps	1000	1200	1200	7000	DEFAULT	0.0
09000	2000	2270006010	Dsl - Pumps	1200	2000	1633	7000	DEFAULT	0.0
09000	2000	2270006010	Dsl - Pumps	2000	3000	2373	7000	DEFAULT	0.0
09000	2000	2270006015	Dsl - Air Compressors	3	6	5.567	2500	DEFAULT	3.9
09000	2000	2270006015	Dsl - Air Compressors	6	11	9.47	2500	DEFAULT	9.5
09000	2000	2270006015	Dsl - Air Compressors	11	16	13.34	2500	DEFAULT	1.3
09000	2000	2270006015	Dsl - Air Compressors	16	25	22.68	2500	DEFAULT	2.0
09000	2000	2270006015	Dsl - Air Compressors	25	40	33.5	2500	DEFAULT	72.9
09000	2000	2270006015	Dsl - Air Compressors	40	50	44.26	2500	DEFAULT	50.4
09000	2000	2270006015	Dsl - Air Compressors	50	75	60.76	4667	DEFAULT	323.2
09000	2000	2270006015	Dsl - Air Compressors	75	100	83.86	4667	DEFAULT	421.0
09000	2000	2270006015	Dsl - Air Compressors	100	175	129.2	4667	DEFAULT	48.3
09000	2000	2270006015	Dsl - Air Compressors	175	300	243.3	4667	DEFAULT	43.3
09000	2000	2270006015	Dsl - Air Compressors	300	600	427.4	7000	DEFAULT	12.4
09000	2000	2270006015	Dsl - Air Compressors	600	750	700	7000	DEFAULT	0.0
09000	2000	2270006020	Dsl - Gas Compressors	25	40	38	2500	DEFAULT	0.0
09000	2000	2270006020	Dsl - Gas Compressors	40	50	40.1	2500	DEFAULT	0.0
09000	2000	2270006020	Dsl - Gas Compressors	50	75	54.65	4667	DEFAULT	0.0
09000	2000	2270006020	Dsl - Gas Compressors	75	100	90	4667	DEFAULT	0.0
09000	2000	2270006020	Dsl - Gas Compressors	300	600	400.3	7000	DEFAULT	0.0
09000	2000	2270006025	Dsl - Welders	6	11	8.843	2500	DEFAULT	42.1
09000	2000	2270006025	Dsl - Welders	11	16	14.68	2500	DEFAULT	233.3
09000	2000	2270006025	Dsl - Welders	16	25	21.29	2500	DEFAULT	339.6
09000	2000	2270006025	Dsl - Welders	25	40	32.98	2500	DEFAULT	210.6
09000	2000	2270006025	Dsl - Welders	40	50	46.24	2500	DEFAULT	583.9
09000	2000	2270006025	Dsl - Welders	50	75	64.27	4667	DEFAULT	424.1
09000	2000	2270006025	Dsl - Welders	75	100	84.6	4667	DEFAULT	186.2
09000	2000	2270006025	Dsl - Welders	100	175	151.8	4667	DEFAULT	9.7
09000	2000	2270006025	Dsl - Welders	300	600	380	7000	DEFAULT	0.2
09000	2000	2270006025	Dsl - Welders	750	1000	800	7000	DEFAULT	0.0
09000	2000	2270006030	Dsl - Pressure Washers	3	6	5.18	2500	DEFAULT	7.4
09000	2000	2270006030	Dsl - Pressure Washers	6	11	9.041	2500	DEFAULT	62.8
09000	2000	2270006030	Dsl - Pressure Washers	11	16	13.97	2500	DEFAULT	72.0

TABLE 2 (Continued)
NONROAD Model 09000.POP Connecticut Specific Equipment Population File

FIPS	Year	SCC	Equipment Description	HPmn	HPmx	HPavg	Life	ScrapFlag	Population
09000	2000	2270006030	Dsl - Pressure Washers	16	25	20.42	2500	DEFAULT	89.9
09000	2000	2270006030	Dsl - Pressure Washers	25	40	31.23	2500	DEFAULT	86.0
09000	2000	2270006030	Dsl - Pressure Washers	40	50	45.31	2500	DEFAULT	10.8
09000	2000	2270006030	Dsl - Pressure Washers	50	75	61.34	4667	DEFAULT	36.2
09000	2000	2270006030	Dsl - Pressure Washers	75	100	88.53	4667	DEFAULT	10.1
09000	2000	2270006030	Dsl - Pressure Washers	100	175	128.3	4667	DEFAULT	33.6
09000	2000	2270006030	Dsl - Pressure Washers	175	300	226.2	4667	DEFAULT	27.2
09000	2000	2270006030	Dsl - Pressure Washers	300	600	415.5	7000	DEFAULT	4.2
09000	2000	2270006030	Dsl - Pressure Washers	600	750	688.9	7000	DEFAULT	1.9
09000	2000	2270006035	Dsl - Hydro Power Units	3	6	5.1	2500	DEFAULT	1.0
09000	2000	2270006035	Dsl - Hydro Power Units	6	11	8.575	2500	DEFAULT	2.2
09000	2000	2270006035	Dsl - Hydro Power Units	11	16	13.97	2500	DEFAULT	0.7
09000	2000	2270006035	Dsl - Hydro Power Units	16	25	20.54	2500	DEFAULT	6.5
09000	2000	2270006035	Dsl - Hydro Power Units	25	40	33.26	2500	DEFAULT	9.4
09000	2000	2270006035	Dsl - Hydro Power Units	40	50	42.73	2500	DEFAULT	3.0
09000	2000	2270006035	Dsl - Hydro Power Units	50	75	58.03	4667	DEFAULT	14.4
09000	2000	2270006035	Dsl - Hydro Power Units	75	100	83.95	4667	DEFAULT	16.6
09000	2000	2270006035	Dsl - Hydro Power Units	100	175	137.7	4667	DEFAULT	4.5
09000	2000	2270006035	Dsl - Hydro Power Units	175	300	226.8	4667	DEFAULT	0.6
09000	2000	2270006035	Dsl - Hydro Power Units	300	600	439	7000	DEFAULT	0.1
09000	2000	2270006035	Dsl - Hydro Power Units	600	750	700	7000	DEFAULT	0.0
09000	2000	2270007010	Dsl - Shredders > 6 HP	40	50		2500	DEFAULT	0.0
09000	2000	2270007015	Dsl - Forest Eqp - Feller/Bunch/Skidder	25	40	35.47	2500	DEFAULT	0.0
09000	2000	2270007015	Dsl - Forest Eqp - Feller/Bunch/Skidder	40	50	44.93	2500	DEFAULT	0.0
09000	2000	2270007015	Dsl - Forest Eqp - Feller/Bunch/Skidder	50	75	65.09	4667	DEFAULT	0.0
09000	2000	2270007015	Dsl - Forest Eqp - Feller/Bunch/Skidder	75	100	88.96	4667	DEFAULT	2.0
09000	2000	2270007015	Dsl - Forest Eqp - Feller/Bunch/Skidder	100	175	137	4667	DEFAULT	13.8
09000	2000	2270007015	Dsl - Forest Eqp - Feller/Bunch/Skidder	175	300	225.2	4667	DEFAULT	19.7
09000	2000	2270007015	Dsl - Forest Eqp - Feller/Bunch/Skidder	300	600	421.3	7000	DEFAULT	1.7
09000	2000	2270007015	Dsl - Forest Eqp - Feller/Bunch/Skidder	600	750	689.3	7000	DEFAULT	0.7
09000	2000	2270007015	Dsl - Forest Eqp - Feller/Bunch/Skidder	1000	1200	1050	7000	DEFAULT	0.0
09000	2000	2270008005	Dsl - Airport Support Equipment	6	11	7.65	2500	DEFAULT	5.8
09000	2000	2270008005	Dsl - Airport Support Equipment	11	16	15.5	2500	DEFAULT	0.0
09000	2000	2270008005	Dsl - Airport Support Equipment	16	25	25	2500	DEFAULT	0.1
09000	2000	2270008005	Dsl - Airport Support Equipment	25	40	32.46	2500	DEFAULT	0.2
09000	2000	2270008005	Dsl - Airport Support Equipment	40	50	42.82	2500	DEFAULT	0.3
09000	2000	2270008005	Dsl - Airport Support Equipment	50	75	61.23	4667	DEFAULT	6.0
09000	2000	2270008005	Dsl - Airport Support Equipment	75	100	85.4	4667	DEFAULT	11.0
09000	2000	2270008005	Dsl - Airport Support Equipment	100	175	135.6	4667	DEFAULT	32.5
09000	2000	2270008005	Dsl - Airport Support Equipment	175	300	228.8	4667	DEFAULT	10.9
09000	2000	2270008005	Dsl - Airport Support Equipment	300	600	443.4	7000	DEFAULT	12.7
09000	2000	2270008005	Dsl - Airport Support Equipment	600	750	667	7000	DEFAULT	1.4
09000	2000	2270008005	Dsl - Airport Support Equipment	1000	1200	1071	7000	DEFAULT	0.1
09000	2000	2270009010	Dsl - Other Underground Mining Equip	16	25	22.76	2500	DEFAULT	0.0
09000	2000	2270009010	Dsl - Other Underground Mining Equip	25	40	31.89	2500	DEFAULT	0.0
09000	2000	2270009010	Dsl - Other Underground Mining Equip	40	50	44.42	2500	DEFAULT	0.0
09000	2000	2270009010	Dsl - Other Underground Mining Equip	50	75	60	4667	DEFAULT	0.0
09000	2000	2270009010	Dsl - Other Underground Mining Equip	75	100	92.49	4667	DEFAULT	0.0
09000	2000	2270009010	Dsl - Other Underground Mining Equip	100	175	145	4667	DEFAULT	0.0
09000	2000	2270009010	Dsl - Other Underground Mining Equip	175	300	251.1	4667	DEFAULT	0.0

TABLE 2 (Continued)
NONROAD Model 09000.POP Connecticut Specific Equipment Population File

FIPS	Year	SCC	Equipment Description	HPmn	HPmx	HPavg	Life	ScrapFlag	Population
09000	2000	2270009010	Dsl - Other Underground Mining Equip	300	600	339.6	7000	DEFAULT	0.0
09000	2000	2270010010	Dsl - Other Oil Field Equipment	6	11	9	2500	DEFAULT	0.0
09000	2000	2270010010	Dsl - Other Oil Field Equipment	16	25	20.1	2500	DEFAULT	0.0
09000	2000	2270010010	Dsl - Other Oil Field Equipment	25	40	36.79	2500	DEFAULT	0.0
09000	2000	2270010010	Dsl - Other Oil Field Equipment	40	50	44.36	2500	DEFAULT	0.0
09000	2000	2270010010	Dsl - Other Oil Field Equipment	50	75	62.68	4667	DEFAULT	0.1
09000	2000	2270010010	Dsl - Other Oil Field Equipment	75	100	87.93	4667	DEFAULT	0.0
09000	2000	2270010010	Dsl - Other Oil Field Equipment	100	175	136.7	4667	DEFAULT	0.3
09000	2000	2270010010	Dsl - Other Oil Field Equipment	175	300	255.3	4667	DEFAULT	0.2
09000	2000	2270010010	Dsl - Other Oil Field Equipment	300	600	401.9	7000	DEFAULT	0.2
09000	2000	2270010010	Dsl - Other Oil Field Equipment	600	750	681.7	7000	DEFAULT	0.1
09000	2000	2270010010	Dsl - Other Oil Field Equipment	750	1000	887.3	7000	DEFAULT	0.1
09000	2000	2270010010	Dsl - Other Oil Field Equipment	1000	1200	1110	7000	DEFAULT	0.0
09000	2000	2270010010	Dsl - Other Oil Field Equipment	1200	2000	1492	7000	DEFAULT	0.0
09000	2000	2270010010	Dsl - Other Oil Field Equipment	2000	3000	2268	7000	DEFAULT	0.0
09000	1998	2282005010	2-Str Outboard	1	3	2.08	194	DEFAULT	2485.4
09000	1998	2282005010	2-Str Outboard	3	6	4.43	194	DEFAULT	9271.1
09000	1998	2282005010	2-Str Outboard	6	11	9.07	191	DEFAULT	13963.7
09000	1998	2282005010	2-Str Outboard	11	16	14.83	177	DEFAULT	3104.6
09000	1998	2282005010	2-Str Outboard	16	25	22.76	162	DEFAULT	6114.6
09000	1998	2282005010	2-Str Outboard	25	40	32.01	148	DEFAULT	11811.4
09000	1998	2282005010	2-Str Outboard	40	50	45.58	140	DEFAULT	9086.0
09000	1998	2282005010	2-Str Outboard	50	75	63.58	126	DEFAULT	15195.4
09000	1998	2282005010	2-Str Outboard	75	100	85.05	126	DEFAULT	10322.3
09000	1998	2282005010	2-Str Outboard	100	175	127.8	108	DEFAULT	23092.0
09000	1998	2282005010	2-Str Outboard	175	300	212.3	97	DEFAULT	20728.9
09000	1998	2282005015	2-Str Personal Water Craft	1	3	2.01	160	DEFAULT	9.9
09000	1998	2282005015	2-Str Personal Water Craft	3	6	4.96	160	DEFAULT	9.5
09000	1998	2282005015	2-Str Personal Water Craft	6	11	9.12	160	DEFAULT	91.0
09000	1998	2282005015	2-Str Personal Water Craft	16	25	25.00	160	DEFAULT	0.2
09000	1998	2282005015	2-Str Personal Water Craft	25	40	29.59	160	DEFAULT	96.7
09000	1998	2282005015	2-Str Personal Water Craft	40	50	46.59	160	DEFAULT	39.0
09000	1998	2282005015	2-Str Personal Water Craft	50	75	61.51	160	DEFAULT	863.9
09000	1998	2282005015	2-Str Personal Water Craft	75	100	88.85	160	DEFAULT	3195.2
09000	1998	2282005015	2-Str Personal Water Craft	100	175	130.0	160	DEFAULT	11837.2
09000	1998	2282005015	2-Str Personal Water Craft	175	300	212.7	160	DEFAULT	778.8
09000	1998	2282010005	4-Str Inboard/Sterndrive	3	6	5.00	197	DEFAULT	10.9
09000	1998	2282010005	4-Str Inboard/Sterndrive	6	11	10.00	197	DEFAULT	7.8
09000	1998	2282010005	4-Str Inboard/Sterndrive	11	16	15.00	197	DEFAULT	4.6
09000	1998	2282010005	4-Str Inboard/Sterndrive	25	40	30.47	197	DEFAULT	19.9
09000	1998	2282010005	4-Str Inboard/Sterndrive	50	75	59.55	197	DEFAULT	174.6
09000	1998	2282010005	4-Str Inboard/Sterndrive	75	100		197	DEFAULT	0.0
09000	1998	2282010005	4-Str Inboard/Sterndrive	100	175	149.7	197	DEFAULT	4185.2
09000	1998	2282010005	4-Str Inboard/Sterndrive	175	300	211.1	197	DEFAULT	15534.2
09000	1998	2282010005	4-Str Inboard/Sterndrive	300	600	380.8	197	DEFAULT	6238.5
09000	1998	2282010005	4-Str Inboard/Sterndrive	600	750	650.0	50	DEFAULT	105.3
09000	2000	2282020005	Dsl - Inboard	6	11	9.736	1400	DEFAULT	128.1
09000	2000	2282020005	Dsl - Inboard	11	16	14.92	1400	DEFAULT	62.8
09000	2000	2282020005	Dsl - Inboard	16	25	21.41	1400	DEFAULT	139.0
09000	2000	2282020005	Dsl - Inboard	25	40	31.2	1400	DEFAULT	76.1

TABLE 2 (Continued)
NONROAD Model 09000.POP Connecticut Specific Equipment Population File

FIPS	Year	SCC	Equipment Description	HPmn	HPmx	HPavg	Life	ScrapFlag	Population
09000	2000	2282020005	Dsl - Inboard	40	50	42.4	1400	DEFAULT	14.1
09000	2000	2282020005	Dsl - Inboard	50	75	56.19	1400	DEFAULT	123.3
09000	2000	2282020005	Dsl - Inboard	75	100	94.22	1400	DEFAULT	103.8
09000	2000	2282020005	Dsl - Inboard	100	175	144.9	1400	DEFAULT	850.9
09000	2000	2282020005	Dsl - Inboard	175	300	223.1	1400	DEFAULT	1399.2
09000	2000	2282020005	Dsl - Inboard	300	600	387.1	1400	DEFAULT	1032.1
09000	2000	2282020005	Dsl - Inboard	600	750	677	1400	DEFAULT	40.7
09000	2000	2282020005	Dsl - Inboard	750	1000	876.5	1400	DEFAULT	77.2
09000	2000	2282020005	Dsl - Inboard	1000	1200	1154	1400	DEFAULT	6.3
09000	2000	2282020005	Dsl - Inboard	1200	2000	1369	1400	DEFAULT	22.1
09000	2000	2282020005	Dsl - Inboard	2000	3000	2294	1400	DEFAULT	13.5
09000	2000	2282020010	Dsl - Outboard	25	40	32.25	1050	DEFAULT	137.8
09000	2007	2282005010	2-Str Outboard	1	3	2.08	194	DEFAULT	1413.1
09000	2007	2282005010	2-Str Outboard	3	6	4.43	194	DEFAULT	5270.4
09000	2007	2282005010	2-Str Outboard	6	11	9.07	191	DEFAULT	7938.1
09000	2007	2282005010	2-Str Outboard	11	16	14.83	177	DEFAULT	1765.0
09000	2007	2282005010	2-Str Outboard	16	25	22.76	162	DEFAULT	3476.2
09000	2007	2282005010	2-Str Outboard	25	40	32.01	148	DEFAULT	6658.0
09000	2007	2282005010	2-Str Outboard	40	50	45.58	140	DEFAULT	5165.0
09000	2007	2282005010	2-Str Outboard	50	75	63.58	126	DEFAULT	8638.5
09000	2007	2282005010	2-Str Outboard	75	100	85.05	126	DEFAULT	5868.1
09000	2007	2282005010	2-Str Outboard	100	175	127.8	108	DEFAULT	13127.6
09000	2007	2282005010	2-Str Outboard	175	300	212.3	97	DEFAULT	11784.2
09000	2007	2282005015	2-Str Personal Water Craft	1	3	2.01	160	DEFAULT	6.8
09000	2007	2282005015	2-Str Personal Water Craft	3	6	4.96	160	DEFAULT	6.2
09000	2007	2282005015	2-Str Personal Water Craft	6	11	9.12	160	DEFAULT	60.1
09000	2007	2282005015	2-Str Personal Water Craft	16	25	25	160	DEFAULT	.0
09000	2007	2282005015	2-Str Personal Water Craft	25	40	29.59	160	DEFAULT	63.8
09000	2007	2282005015	2-Str Personal Water Craft	40	50	46.59	160	DEFAULT	26.0
09000	2007	2282005015	2-Str Personal Water Craft	50	75	61.51	160	DEFAULT	572.1
09000	2007	2282005015	2-Str Personal Water Craft	75	100	88.85	160	DEFAULT	2115.7
09000	2007	2282005015	2-Str Personal Water Craft	100	175	130	160	DEFAULT	7837.1
09000	2007	2282005015	2-Str Personal Water Craft	175	300	212.7	160	DEFAULT	515.7
09000	2007	2282010005	4-Str Inboard/Sterndrive	3	6	5	197	DEFAULT	11.2
09000	2007	2282010005	4-Str Inboard/Sterndrive	6	11	10	197	DEFAULT	8.9
09000	2007	2282010005	4-Str Inboard/Sterndrive	11	16	15	197	DEFAULT	5.3
09000	2007	2282010005	4-Str Inboard/Sterndrive	25	40	30.47	197	DEFAULT	54.1
09000	2007	2282010005	4-Str Inboard/Sterndrive	50	75	59.55	197	DEFAULT	2526.0
09000	2007	2282010005	4-Str Inboard/Sterndrive	75	100		197	DEFAULT	.0
09000	2007	2282010005	4-Str Inboard/Sterndrive	100	175	149.7	197	DEFAULT	5980.3
09000	2007	2282010005	4-Str Inboard/Sterndrive	175	300	211.1	197	DEFAULT	1580.4
09000	2007	2282010005	4-Str Inboard/Sterndrive	300	600	380.8	197	DEFAULT	1023.9
09000	2007	2282010005	4-Str Inboard/Sterndrive	600	750	650	50	DEFAULT	33.6
09000	2007	2282020005	Dsl - Inboard	6	11	9.736	1400	DEFAULT	146.8
09000	2007	2282020005	Dsl - Inboard	11	16	14.92	1400	DEFAULT	72.1
09000	2007	2282020005	Dsl - Inboard	16	25	21.41	1400	DEFAULT	179.9
09000	2007	2282020005	Dsl - Inboard	25	40	31.2	1400	DEFAULT	206.9
09000	2007	2282020005	Dsl - Inboard	40	50	42.4	1400	DEFAULT	15.8
09000	2007	2282020005	Dsl - Inboard	50	75	56.19	1400	DEFAULT	1783.9
09000	2007	2282020005	Dsl - Inboard	75	100	94.22	1400	DEFAULT	15587.5

TABLE 2 (Continued)
NONROAD Model 09000.POP Connecticut Specific Equipment Population File

FIPS	Year	SCC	Equipment Description	HPmn	HPmx	HPavg	Life	ScrapFlag	Population
09000	2007	2282020005	Dsl - Inboard	100	175	144.9	1400	DEFAULT	1215.9
09000	2007	2282020005	Dsl - Inboard	175	300	223.1	1400	DEFAULT	142.4
09000	2007	2282020005	Dsl - Inboard	300	600	387.1	1400	DEFAULT	169.4
09000	2007	2282020005	Dsl - Inboard	600	750	677	1400	DEFAULT	13.0
09000	2007	2282020005	Dsl - Inboard	750	1000	876.5	1400	DEFAULT	89.5
09000	2007	2282020005	Dsl - Inboard	1000	1200	1154	1400	DEFAULT	7.5
09000	2007	2282020005	Dsl - Inboard	1200	2000	1369	1400	DEFAULT	25.2
09000	2007	2282020005	Dsl - Inboard	2000	3000	2294	1400	DEFAULT	15.8
09000	2007	2282020010	Dsl - Outboard	25	40	32.25	1050	DEFAULT	77.7
09000	2011	2282005010	2-Str Outboard	1	3	2.08	194	DEFAULT	1455.6
09000	2011	2282005010	2-Str Outboard	3	6	4.43	194	DEFAULT	5429.0
09000	2011	2282005010	2-Str Outboard	6	11	9.07	191	DEFAULT	8177.0
09000	2011	2282005010	2-Str Outboard	11	16	14.83	177	DEFAULT	1818.1
09000	2011	2282005010	2-Str Outboard	16	25	22.76	162	DEFAULT	3580.8
09000	2011	2282005010	2-Str Outboard	25	40	32.01	148	DEFAULT	6858.4
09000	2011	2282005010	2-Str Outboard	40	50	45.58	140	DEFAULT	5320.4
09000	2011	2282005010	2-Str Outboard	50	75	63.58	126	DEFAULT	8898.5
09000	2011	2282005010	2-Str Outboard	75	100	85.05	126	DEFAULT	6044.7
09000	2011	2282005010	2-Str Outboard	100	175	127.8	108	DEFAULT	13522.7
09000	2011	2282005010	2-Str Outboard	175	300	212.3	97	DEFAULT	12138.8
09000	2011	2282005015	2-Str Personal Water Craft	1	3	2.01	160	DEFAULT	7.0
09000	2011	2282005015	2-Str Personal Water Craft	3	6	4.96	160	DEFAULT	6.4
09000	2011	2282005015	2-Str Personal Water Craft	6	11	9.12	160	DEFAULT	61.9
09000	2011	2282005015	2-Str Personal Water Craft	16	25	25	160	DEFAULT	0.0
09000	2011	2282005015	2-Str Personal Water Craft	25	40	29.59	160	DEFAULT	65.7
09000	2011	2282005015	2-Str Personal Water Craft	40	50	46.59	160	DEFAULT	26.8
09000	2011	2282005015	2-Str Personal Water Craft	50	75	61.51	160	DEFAULT	589.3
09000	2011	2282005015	2-Str Personal Water Craft	75	100	88.85	160	DEFAULT	2179.4
09000	2011	2282005015	2-Str Personal Water Craft	100	175	130	160	DEFAULT	8072.9
09000	2011	2282005015	2-Str Personal Water Craft	175	300	212.7	160	DEFAULT	531.2
09000	2011	2282010005	4-Str Inboard/Sterndrive	3	6	5	197	DEFAULT	11.5
09000	2011	2282010005	4-Str Inboard/Sterndrive	6	11	10	197	DEFAULT	9.2
09000	2011	2282010005	4-Str Inboard/Sterndrive	11	16	15	197	DEFAULT	5.5
09000	2011	2282010005	4-Str Inboard/Sterndrive	25	40	30.47	197	DEFAULT	55.7
09000	2011	2282010005	4-Str Inboard/Sterndrive	50	75	59.55	197	DEFAULT	2602.0
09000	2011	2282010005	4-Str Inboard/Sterndrive	75	100		197	DEFAULT	0.0
09000	2011	2282010005	4-Str Inboard/Sterndrive	100	175	149.7	197	DEFAULT	6160.3
09000	2011	2282010005	4-Str Inboard/Sterndrive	175	300	211.1	197	DEFAULT	1628.0
09000	2011	2282010005	4-Str Inboard/Sterndrive	300	600	380.8	197	DEFAULT	1054.7
09000	2011	2282010005	4-Str Inboard/Sterndrive	600	750	650	50	DEFAULT	34.6
09000	2011	2282020005	Dsl - Inboard	6	11	9.736	1400	DEFAULT	162.2
09000	2011	2282020005	Dsl - Inboard	11	16	14.92	1400	DEFAULT	79.7
09000	2011	2282020005	Dsl - Inboard	16	25	21.41	1400	DEFAULT	198.7
09000	2011	2282020005	Dsl - Inboard	25	40	31.2	1400	DEFAULT	228.5
09000	2011	2282020005	Dsl - Inboard	40	50	42.4	1400	DEFAULT	17.4
09000	2011	2282020005	Dsl - Inboard	50	75	56.19	1400	DEFAULT	1970.5
09000	2011	2282020005	Dsl - Inboard	75	100	94.22	1400	DEFAULT	17218.4
09000	2011	2282020005	Dsl - Inboard	100	175	144.9	1400	DEFAULT	1343.1
09000	2011	2282020005	Dsl - Inboard	175	300	223.1	1400	DEFAULT	157.3
09000	2011	2282020005	Dsl - Inboard	300	600	387.1	1400	DEFAULT	187.1

TABLE 2 (Continued)
NONROAD Model 09000.POP Connecticut Specific Equipment Population File

FIPS	Year	SCC	Equipment Description	HPmn	HPmx	HPavg	Life	ScrapFlag	Population
09000	2011	2282020005	Dsl - Inboard	600	750	677	1400	DEFAULT	14.4
09000	2011	2282020005	Dsl - Inboard	750	1000	876.5	1400	DEFAULT	98.9
09000	2011	2282020005	Dsl - Inboard	1000	1200	1154	1400	DEFAULT	8.3
09000	2011	2282020005	Dsl - Inboard	1200	2000	1369	1400	DEFAULT	27.8
09000	2011	2282020005	Dsl - Inboard	2000	3000	2294	1400	DEFAULT	17.4
09000	2011	2282020010	Dsl - Outboard	25	40	32.25	1050	DEFAULT	85.8
09000	2017	2282005010	2-Str Outboard	1	3	2.08	194	DEFAULT	1519.4
09000	2017	2282005010	2-Str Outboard	3	6	4.43	194	DEFAULT	5666.9
09000	2017	2282005010	2-Str Outboard	6	11	9.07	191	DEFAULT	8535.3
09000	2017	2282005010	2-Str Outboard	11	16	14.83	177	DEFAULT	1897.8
09000	2017	2282005010	2-Str Outboard	16	25	22.76	162	DEFAULT	3737.7
09000	2017	2282005010	2-Str Outboard	25	40	32.01	148	DEFAULT	7159.0
09000	2017	2282005010	2-Str Outboard	40	50	45.58	140	DEFAULT	5553.6
09000	2017	2282005010	2-Str Outboard	50	75	63.58	126	DEFAULT	9288.4
09000	2017	2282005010	2-Str Outboard	75	100	85.05	126	DEFAULT	6309.6
09000	2017	2282005010	2-Str Outboard	100	175	127.8	108	DEFAULT	14115.3
09000	2017	2282005010	2-Str Outboard	175	300	212.3	97	DEFAULT	12670.8
09000	2017	2282005015	2-Str Personal Water Craft	1	3	2.01	160	DEFAULT	7.3
09000	2017	2282005015	2-Str Personal Water Craft	3	6	4.96	160	DEFAULT	6.7
09000	2017	2282005015	2-Str Personal Water Craft	6	11	9.12	160	DEFAULT	64.6
09000	2017	2282005015	2-Str Personal Water Craft	16	25	25	160	DEFAULT	.0
09000	2017	2282005015	2-Str Personal Water Craft	25	40	29.59	160	DEFAULT	68.6
09000	2017	2282005015	2-Str Personal Water Craft	40	50	46.59	160	DEFAULT	28.0
09000	2017	2282005015	2-Str Personal Water Craft	50	75	61.51	160	DEFAULT	615.1
09000	2017	2282005015	2-Str Personal Water Craft	75	100	88.85	160	DEFAULT	2274.9
09000	2017	2282005015	2-Str Personal Water Craft	100	175	130	160	DEFAULT	8426.7
09000	2017	2282005015	2-Str Personal Water Craft	175	300	212.7	160	DEFAULT	554.5
09000	2017	2282010005	4-Str Inboard/Sterndrive	3	6	5	197	DEFAULT	12.0
09000	2017	2282010005	4-Str Inboard/Sterndrive	6	11	10	197	DEFAULT	9.6
09000	2017	2282010005	4-Str Inboard/Sterndrive	11	16	15	197	DEFAULT	5.7
09000	2017	2282010005	4-Str Inboard/Sterndrive	25	40	30.47	197	DEFAULT	58.2
09000	2017	2282010005	4-Str Inboard/Sterndrive	50	75	59.55	197	DEFAULT	2716.1
09000	2017	2282010005	4-Str Inboard/Sterndrive	75	100		197	DEFAULT	.0
09000	2017	2282010005	4-Str Inboard/Sterndrive	100	175	149.7	197	DEFAULT	6430.3
09000	2017	2282010005	4-Str Inboard/Sterndrive	175	300	211.1	197	DEFAULT	1699.4
09000	2017	2282010005	4-Str Inboard/Sterndrive	300	600	380.8	197	DEFAULT	1100.9
09000	2017	2282010005	4-Str Inboard/Sterndrive	600	750	650	50	DEFAULT	36.1
09000	2017	2282020005	Dsl - Inboard	6	11	9.736	1400	DEFAULT	185.2
09000	2017	2282020005	Dsl - Inboard	11	16	14.92	1400	DEFAULT	91.0
09000	2017	2282020005	Dsl - Inboard	16	25	21.41	1400	DEFAULT	227.0
09000	2017	2282020005	Dsl - Inboard	25	40	31.2	1400	DEFAULT	261.0
09000	2017	2282020005	Dsl - Inboard	40	50	42.4	1400	DEFAULT	19.9
09000	2017	2282020005	Dsl - Inboard	50	75	56.19	1400	DEFAULT	2250.5
09000	2017	2282020005	Dsl - Inboard	75	100	94.22	1400	DEFAULT	19664.8
09000	2017	2282020005	Dsl - Inboard	100	175	144.9	1400	DEFAULT	1533.9
09000	2017	2282020005	Dsl - Inboard	175	300	223.1	1400	DEFAULT	179.6
09000	2017	2282020005	Dsl - Inboard	300	600	387.1	1400	DEFAULT	213.7
09000	2017	2282020005	Dsl - Inboard	600	750	677	1400	DEFAULT	16.4
09000	2017	2282020005	Dsl - Inboard	750	1000	876.5	1400	DEFAULT	112.9
09000	2017	2282020005	Dsl - Inboard	1000	1200	1154	1400	DEFAULT	9.5

TABLE 2 (Continued)
NONROAD Model 09000.POP Connecticut Specific Equipment Population File

FIPS	Year	SCC	Equipment Description	HPmn	HPmx	HPavg	Life	ScrapFlag	Population
09000	2017	2282020005	Dsl - Inboard	1200	2000	1369	1400	DEFAULT	31.8
09000	2017	2282020005	Dsl - Inboard	2000	3000	2294	1400	DEFAULT	19.9
09000	2017	2282020010	Dsl - Outboard	25	40	32.25	1050	DEFAULT	98.0
09000	2020	2282005010	2-Str Outboard	1	3	2.08	194	DEFAULT	1625.7
09000	2020	2282005010	2-Str Outboard	3	6	4.43	194	DEFAULT	6063.5
09000	2020	2282005010	2-Str Outboard	6	11	9.07	191	DEFAULT	9132.6
09000	2020	2282005010	2-Str Outboard	11	16	14.83	177	DEFAULT	2030.6
09000	2020	2282005010	2-Str Outboard	16	25	22.76	162	DEFAULT	3999.3
09000	2020	2282005010	2-Str Outboard	25	40	32.01	148	DEFAULT	7659.9
09000	2020	2282005010	2-Str Outboard	40	50	45.58	140	DEFAULT	5942.2
09000	2020	2282005010	2-Str Outboard	50	75	63.58	126	DEFAULT	9938.4
09000	2020	2282005010	2-Str Outboard	75	100	85.05	126	DEFAULT	6751.1
09000	2020	2282005010	2-Str Outboard	100	175	127.8	108	DEFAULT	15103.0
09000	2020	2282005010	2-Str Outboard	175	300	212.3	97	DEFAULT	13557.4
09000	2020	2282005015	2-Str Personal Water Craft	1	3	2.01	160	DEFAULT	7.8
09000	2020	2282005015	2-Str Personal Water Craft	3	6	4.96	160	DEFAULT	7.1
09000	2020	2282005015	2-Str Personal Water Craft	6	11	9.12	160	DEFAULT	69.1
09000	2020	2282005015	2-Str Personal Water Craft	16	25	25	160	DEFAULT	.0
09000	2020	2282005015	2-Str Personal Water Craft	25	40	29.59	160	DEFAULT	73.4
09000	2020	2282005015	2-Str Personal Water Craft	40	50	46.59	160	DEFAULT	29.9
09000	2020	2282005015	2-Str Personal Water Craft	50	75	61.51	160	DEFAULT	658.2
09000	2020	2282005015	2-Str Personal Water Craft	75	100	88.85	160	DEFAULT	2434.1
09000	2020	2282005015	2-Str Personal Water Craft	100	175	130	160	DEFAULT	9016.4
09000	2020	2282005015	2-Str Personal Water Craft	175	300	212.7	160	DEFAULT	593.3
09000	2020	2282010005	4-Str Inboard/Sterndrive	3	6	5	197	DEFAULT	12.9
09000	2020	2282010005	4-Str Inboard/Sterndrive	6	11	10	197	DEFAULT	10.3
09000	2020	2282010005	4-Str Inboard/Sterndrive	11	16	15	197	DEFAULT	6.1
09000	2020	2282010005	4-Str Inboard/Sterndrive	25	40	30.47	197	DEFAULT	62.2
09000	2020	2282010005	4-Str Inboard/Sterndrive	50	75	59.55	197	DEFAULT	2906.2
09000	2020	2282010005	4-Str Inboard/Sterndrive	75	100		197	DEFAULT	.0
09000	2020	2282010005	4-Str Inboard/Sterndrive	100	175	149.7	197	DEFAULT	6880.2
09000	2020	2282010005	4-Str Inboard/Sterndrive	175	300	211.1	197	DEFAULT	1818.3
09000	2020	2282010005	4-Str Inboard/Sterndrive	300	600	380.8	197	DEFAULT	1178.0
09000	2020	2282010005	4-Str Inboard/Sterndrive	600	750	650	50	DEFAULT	38.7
09000	2020	2282020005	Dsl - Inboard	6	11	9.736	1400	DEFAULT	223.5
09000	2020	2282020005	Dsl - Inboard	11	16	14.92	1400	DEFAULT	109.8
09000	2020	2282020005	Dsl - Inboard	16	25	21.41	1400	DEFAULT	274.0
09000	2020	2282020005	Dsl - Inboard	25	40	31.2	1400	DEFAULT	315.1
09000	2020	2282020005	Dsl - Inboard	40	50	42.4	1400	DEFAULT	24.1
09000	2020	2282020005	Dsl - Inboard	50	75	56.19	1400	DEFAULT	2717.1
09000	2020	2282020005	Dsl - Inboard	75	100	94.22	1400	DEFAULT	23742.1
09000	2020	2282020005	Dsl - Inboard	100	175	144.9	1400	DEFAULT	1852.0
09000	2020	2282020005	Dsl - Inboard	175	300	223.1	1400	DEFAULT	216.8
09000	2020	2282020005	Dsl - Inboard	300	600	387.1	1400	DEFAULT	258.0
09000	2020	2282020005	Dsl - Inboard	600	750	677	1400	DEFAULT	19.8
09000	2020	2282020005	Dsl - Inboard	750	1000	876.5	1400	DEFAULT	136.3
09000	2020	2282020005	Dsl - Inboard	1000	1200	1154	1400	DEFAULT	11.4
09000	2020	2282020005	Dsl - Inboard	1200	2000	1369	1400	DEFAULT	38.4
09000	2020	2282020005	Dsl - Inboard	2000	3000	2294	1400	DEFAULT	24.1
09000	2020	2282020010	Dsl - Outboard	25	40	32.25	1050	DEFAULT	118.3

TABLE 2 (Continued)
NONROAD Model 09000.POP Connecticut Specific Equipment Population File

FIPS	Year	SCC	Equipment Description	HPmn	HPmx	HPavg	Life	ScrapFlag	Population
09000	2000	2285002015	Dsl - Railway Maintenance	3	6	4.2	2500	DEFAULT	0.2
09000	2000	2285002015	Dsl - Railway Maintenance	6	11	8.32	2500	DEFAULT	0.9
09000	2000	2285002015	Dsl - Railway Maintenance	11	16	14.13	2500	DEFAULT	1.0
09000	2000	2285002015	Dsl - Railway Maintenance	16	25	17.5	2500	DEFAULT	1.4
09000	2000	2285002015	Dsl - Railway Maintenance	25	40	33.34	2500	DEFAULT	5.0
09000	2000	2285002015	Dsl - Railway Maintenance	40	50	44.12	2500	DEFAULT	7.8
09000	2000	2285002015	Dsl - Railway Maintenance	50	75	59.61	4667	DEFAULT	14.3
09000	2000	2285002015	Dsl - Railway Maintenance	75	100	87.84	4667	DEFAULT	13.3
09000	2000	2285002015	Dsl - Railway Maintenance	100	175	134	4667	DEFAULT	56.2
09000	2000	2285002015	Dsl - Railway Maintenance	175	300	234	4667	DEFAULT	20.7
09000	2000	2285002015	Dsl - Railway Maintenance	300	600	453.2	7000	DEFAULT	3.5
09000	2000	2285002015	Dsl - Railway Maintenance	600	750	689.2	7000	DEFAULT	0.9
09000	2000	2285002015	Dsl - Railway Maintenance	750	1000	850	7000	DEFAULT	0.2
09000	2000	2285002015	Dsl - Railway Maintenance	1000	1200	1200	7000	DEFAULT	0.3
09000	2000	2285002015	Dsl - Railway Maintenance	1200	2000	1633	7000	DEFAULT	0.1
09000	1998	2285004015	4-Str Railway Maintenance	1	3	3.00	200	DEFAULT	0.9
09000	1998	2285004015	4-Str Railway Maintenance	3	6	3.52	200	DEFAULT	27.4
09000	1998	2285004015	4-Str Railway Maintenance	6	11	6.59	400	DEFAULT	112.6
09000	1998	2285004015	4-Str Railway Maintenance	11	16	12.07	400	DEFAULT	2.0
09000	1998	2285004015	4-Str Railway Maintenance	16	25	18.19	750	DEFAULT	5.2
09000	1998	2285004015	4-Str Railway Maintenance	25	40	33.15	1500	DEFAULT	1.6
09000	1998	2285004015	4-Str Railway Maintenance	100	175	113.0	2852	DEFAULT	0.0
09000	1998	2285006015	LPG - Railway Maintenance	25	40	33.15	1500	DEFAULT	1.6
09000	1998	2285006015	LPG - Railway Maintenance	100	175	113.0	2852	DEFAULT	0.0

/END/

TABLE 3
Connecticut Airport Activity Survey Data by County, FAA Location ID and Mapped SCC

County	FAA Location ID	Airport Name	SCC	SCC Short Description	Summer Season LTOs (June-July-August)	Annual LTOs	Summer Season Activity Fraction
Fairfield	0CT7	Bridgeport Hospital Heliport	2275050012	General Aviation Turbine	5	32	0.16
Fairfield	0CT8	Danbury Hospital Heliport	2275050012	General Aviation Turbine	2	31	0.06
Fairfield	5CT4	Norwalk Hospital Heliport	2275050012	General Aviation Turbine	2	11	0.18
Fairfield	5CT8	Canal Street Heliport	2275050012	General Aviation Turbine	18	34	0.53
Fairfield	BDR	Igor I. Sikorsky Memorial Airport	2275001000	Military Aircraft Total	245	950	0.26
Fairfield	BDR	Igor I. Sikorsky Memorial Airport	2275020000	Commercial Aircraft Total	225	900	0.25
Fairfield	BDR	Igor I. Sikorsky Memorial Airport	2275050011	General Aviation Piston	6860	22862	0.30
Fairfield	BDR	Igor I. Sikorsky Memorial Airport	2275050012	General Aviation Turbine	1985	8000	0.25
Fairfield	BDR	Igor I. Sikorsky Memorial Airport	2275060012	Air Taxi Turbine	605	2962	0.20
Fairfield	CT12	St Vincent's Medical Center Heliport	2275050012	General Aviation Turbine	3	12	0.25
Fairfield	CT37	Sikorsky Bridgeport Heliport	2275001000	Military Aircraft Total	1	1	1.00
Fairfield	CT37	Sikorsky Bridgeport Heliport	2275050012	General Aviation Turbine	3	9	0.33
Fairfield	CT41	General Electric Co. Heliport	2275050012	General Aviation Turbine	112	522	0.21
Fairfield	CT52	Flying Ridge Airstrip	2275050011	General Aviation Piston	6	12	0.50
Fairfield	CT91	USSC Heliport	2275050012	General Aviation Turbine	1	1	1.00
Fairfield	DXR	Danbury Municipal Airport	2275001000	Military Aircraft Total	100	350	0.29
Fairfield	DXR	Danbury Municipal Airport	2275050011	General Aviation Piston	9541	33613	0.28
Fairfield	DXR	Danbury Municipal Airport	2275050012	General Aviation Turbine	746	2627	0.28
Fairfield	DXR	Danbury Municipal Airport	2275060012	Air Taxi Turbine	83	293	0.28
Fairfield	JSD	Sikorsky Helipad	2275001000	Military Aircraft Total	535	1814	0.29
Fairfield	JSD	Sikorsky Helipad	2275050012	General Aviation Turbine	285	1079	0.26
Hartford	0CT3	N B G H Heliport	2275050012	General Aviation Turbine	0	7	0.00
Hartford	0CT5	St. Francis Hospital Heliport	2275050012	General Aviation Turbine	16	86	0.19
Hartford	0CT9	Hartford Hospital Helipad	2275050012	General Aviation Turbine	477	1646	0.29
Hartford	22B	Mountain Meadows Airport	2275050011	General Aviation Piston	8	18	0.44
Hartford	23CT	Blanchette Heliport	2275050011	General Aviation Piston	12	16	0.75
Hartford	4B8	Robertson Field	2275001000	Military Aircraft Total	250	1000	0.25
Hartford	4B8	Robertson Field	2275050011	General Aviation Piston	8545	27350	0.31
Hartford	4B8	Robertson Field	2275050012	General Aviation Turbine	175	700	0.25
Hartford	4B8	Robertson Field	2275060012	Air Taxi Turbine	125	500	0.25
Hartford	4B9	Simsbury Tri-Town Airport	2275050011	General Aviation Piston	2150	5795	0.37
Hartford	7B6	Skylark's Air Park	2275050011	General Aviation Piston	7575	15150	0.50
Hartford	9B8	Salmon River Airfield	2275050011	General Aviation Piston	360	555	0.65

TABLE 3
Connecticut Airport Activity Survey Data by County, FAA Location ID and Mapped SCC

County	FAA Location ID	Airport Name	SCC	SCC Short Description	Summer Season LTOs (June-July-August)	Annual LTOs	Summer Season Activity Fraction
Hartford	BDL	Bradley International Airport	2275001000	Military Aircraft Total	1899	8589	0.22
Hartford	BDL	Bradley International Airport	2275020000	Commercial Aircraft Total	12373	48083	0.26
Hartford	BDL	Bradley International Airport	2275050011	General Aviation Piston	1099	3799	0.29
Hartford	BDL	Bradley International Airport	2275050012	General Aviation Turbine	4787	19351	0.25
Hartford	BDL	Bradley International Airport	2275060012	Air Taxi Turbine	2292	8778	0.26
Hartford	CT02	Clark Hill Heliport	2275050011	General Aviation Piston	45	45	1.00
Hartford	CT03	Bristol Hospital Heliport	2275050012	General Aviation Turbine	5	12	0.42
Hartford	CT05	Kaman Heliport	2275001000	Military Aircraft Total	90	392	0.23
Hartford	CT14	Bancroft Airport	2275050011	General Aviation Piston	25	50	0.50
Hartford	CT19	Laurie Field	2275050011	General Aviation Piston	11	20	0.55
Hartford	CT28	Veterans Home & Hospital Heliport	2275001000	Military Aircraft Total	2	4	0.50
Hartford	CT60	Ultimate Heliport	2275050011	General Aviation Piston	1	2	0.50
Hartford	CT71	Otis Elevator Co. Heliport	2275050012	General Aviation Turbine	47	232	0.20
Hartford	CT73	South Meadows Heliport	2275050011	General Aviation Piston	9	50	0.18
Hartford	CT75	UCONN Med Hurlbrink Heliport	2275050012	General Aviation Turbine	2	19	0.11
Hartford	CT85	Roberts Farm Airport	2275050011	General Aviation Piston	30	50	0.60
Hartford	CT88	Rentschler Heliport	2275050012	General Aviation Turbine	30	112	0.27
Hartford	CT96	Green Acres Airstrip	2275050012	General Aviation Turbine	36	156	0.23
Hartford	HFD	Hartford-Brainard Airport	2275020000	Commercial Aircraft Total	300	1000	0.30
Hartford	HFD	Hartford-Brainard Airport	2275050011	General Aviation Piston	13500	30500	0.44
Hartford	HFD	Hartford-Brainard Airport	2275050012	General Aviation Turbine	7900	14000	0.56
Litchfield	04CT	Shingle Mill Heliport	2275050011	General Aviation Piston	6	20	0.30
Litchfield	08CT	Seavair's Landing Airport	2275050011	General Aviation Piston	80	150	0.53
Litchfield	0CT0	Sharon Hospital Heliport	2275050012	General Aviation Turbine	8	28	0.29
Litchfield	11N	Candlelight Farms Airport	2275050011	General Aviation Piston	730	1035	0.71
Litchfield	6Y2	Candlelight Farms Heliport	2275050012	General Aviation Turbine	26	40	0.65
Litchfield	CT01	Whelan Farms Airport	2275050011	General Aviation Piston	345	900	0.38
Litchfield	CT24	North Canaan Airport	2275050011	General Aviation Piston	900	1800	0.50
Litchfield	CT42	Wings Ago Airstrip	2275050011	General Aviation Piston	3	3	1.00
Litchfield	CT51	Docktors Field	2275050011	General Aviation Piston	1	1	1.00
Litchfield	CT59	Good Hill Farm	2275050011	General Aviation Piston	33	70	0.47
Litchfield	CT66	Long View Landing Airport	2275050011	General Aviation Piston	46	174	0.26
Litchfield	CT66	Long View Landing Airport	2275050012	General Aviation Turbine	10	30	0.33

TABLE 3
Connecticut Airport Activity Survey Data by County, FAA Location ID and Mapped SCC

County	FAA Location ID	Airport Name	SCC	SCC Short Description	Summer Season LTOs (June-July-August)	Annual LTOs	Summer Season Activity Fraction
Litchfield	N41	Waterbury-Plymouth Airport	2275050011	General Aviation Piston	1285	2980	0.43
Litchfield	N41	Waterbury-Plymouth Airport	2275050012	General Aviation Turbine	200	500	0.40
Middlesex	0CT6	Aetna @ Middletown Heliport	2275050012	General Aviation Turbine	7	10	0.70
Middlesex	42B	Goodspeed Airport & Seaplane Base	2275050011	General Aviation Piston	600	1500	0.40
Middlesex	CT11	Devil's Hopyard Field	2275050011	General Aviation Piston	175	250	0.70
Middlesex	CT16	Fetske Water Strip	2275050011	General Aviation Piston	3	3	1.00
Middlesex	CT39	Maplewood Farm Airport	2275050011	General Aviation Piston	30	60	0.50
Middlesex	CT92	Bemer Heliport	2275050012	General Aviation Turbine	12	12	1.00
Middlesex	CT97	Middlesex Medical Center Shoreline	2275050012	General Aviation Turbine	9	37	0.24
Middlesex	CT98	Middlesex Hospital	2275050012	General Aviation Turbine	12	30	0.40
Middlesex	SNC	Chester Airport	2275050011	General Aviation Piston	800	1950	0.41
Middlesex	SNC	Chester Airport	2275050012	General Aviation Turbine	140	460	0.30
New Haven	0CT1	Bristol-Myers Squibb Co. Heliport	2275050012	General Aviation Turbine	122	309	0.39
New Haven	1CT2	Yale-New Haven Hospital	2275050012	General Aviation Turbine	59	248	0.24
New Haven	1CT3	St. Mary's Hospital Heliport	2275050012	General Aviation Turbine	9	19	0.47
New Haven	4C3	Hummingbird Heliport	2275050012	General Aviation Turbine	276	1000	0.28
New Haven	CT34	U.S. Surgical Rooftop Heliport	2275050012	General Aviation Turbine	2	2	1.00
New Haven	CT95	Meriden - Wallingford Hospital Heliport	2275050012	General Aviation Turbine	8	22	0.36
New Haven	HVN	Tweed-New Haven Airport	2275001000	Military Aircraft Total	90	352	0.26
New Haven	HVN	Tweed-New Haven Airport	2275020000	Commercial Aircraft Total	600	1701	0.35
New Haven	HVN	Tweed-New Haven Airport	2275050011	General Aviation Piston	8168	27602	0.30
New Haven	HVN	Tweed-New Haven Airport	2275050012	General Aviation Turbine	1336	4362	0.31
New Haven	HVN	Tweed-New Haven Airport	2275060012	Air Taxi Turbine	548	2190	0.25
New Haven	MMK	Meriden-Markham Municipal Airport	2275050011	General Aviation Piston	2521	9694	0.26
New Haven	MMK	Meriden-Markham Municipal Airport	2275050012	General Aviation Turbine	2477	9524	0.26
New Haven	MMK	Meriden-Markham Municipal Airport	2275060012	Air Taxi Turbine	2477	9524	0.26
New Haven	N04	Griswold Airport	2275001000	Military Aircraft Total	59	164	0.36
New Haven	N04	Griswold Airport	2275050011	General Aviation Piston	3919	9650	0.41
New Haven	N04	Griswold Airport	2275050012	General Aviation Turbine	94	250	0.38
New Haven	OXC	Waterbury-Oxford Airport	2275001000	Military Aircraft Total	3	17	0.18
New Haven	OXC	Waterbury-Oxford Airport	2275020000	Commercial Aircraft Total	771	2909	0.27
New Haven	OXC	Waterbury-Oxford Airport	2275050011	General Aviation Piston	2858	9969	0.29
New Haven	OXC	Waterbury-Oxford Airport	2275050012	General Aviation Turbine	3294	12321	0.27

TABLE 3
Connecticut Airport Activity Survey Data by County, FAA Location ID and Mapped SCC

County	FAA Location ID	Airport Name	SCC	SCC Short Description	Summer Season LTOs (June-July-August)	Annual LTOs	Summer Season Activity Fraction
New Haven	OXC	Waterbury-Oxford Airport	2275060012	Air Taxi Turbine	749	2710	0.28
New Haven	TEMP1	Yale New Haven Shoreline Medical Center	2275050012	General Aviation Turbine	0	1	0.00
New London	14CT	MPTN Heliport	2275050012	General Aviation Turbine	18	50	0.36
New London	20CT	Global Development Facility Heliport	2275050012	General Aviation Turbine	42	276	0.15
New London	5CT7	Mile Creek Airport	2275050011	General Aviation Piston	30	60	0.50
New London	CT07	Ski's Landing Area	2275050011	General Aviation Piston	3	6	0.50
New London	CT32	Gallup Farm Airport	2275050011	General Aviation Piston	20	21	0.95
New London	CT43	Spruce Airport	2275050011	General Aviation Piston	29	35	0.83
New London	CT93	Backus Hospital Heliport	2275050012	General Aviation Turbine	138	503	0.27
New London	GON	Groton-New London Airport	2275001000	Military Aircraft Total	736	2382	0.31
New London	GON	Groton-New London Airport	2275020000	Commercial Aircraft Total	519	1682	0.31
New London	GON	Groton-New London Airport	2275050011	General Aviation Piston	5803	18854	0.31
New London	GON	Groton-New London Airport	2275050012	General Aviation Turbine	1644	5323	0.31
New London	GON	Groton-New London Airport	2275060012	Air Taxi Turbine	843	2733	0.31
Tolland	7B9	Ellington Airport	2275050011	General Aviation Piston	11260	37800	0.30
Tolland	7B9	Ellington Airport	2275060012	Air Taxi Turbine	340	425	0.80
Tolland	CT09	Heckler Field	2275050011	General Aviation Piston	49	124	0.40
Tolland	CT15	Wysocki Airport	2275050011	General Aviation Piston	0	11	0.00
Tolland	CT29	Valley Farms Airport	2275050011	General Aviation Piston	15	30	0.50
Windham	0CT2	Windham Community Memorial Hospital Heliport	2275050012	General Aviation Turbine	16	62	0.26
Windham	5B3	Danielson Airport	2275050011	General Aviation Piston	8539	12170	0.70
Windham	5CT6	BUELL FARM	2275050011	General Aviation Piston	80	120	0.67
Windham	64CT	Woodstock Airport	2275050011	General Aviation Piston	300	750	0.40

TABLE 3
Connecticut Airport Activity Survey Data by County, FAA Location ID and Mapped SCC

County	FAA Location ID	Airport Name	SCC	SCC Short Description	Summer Season LTOs (June-July-August)	Annual LTOs	Summer Season Activity Fraction
Windham	C44	Toutant Airport	2275050011	General Aviation Piston	2	5	0.40
Windham	CT74	Westford Airstrip	2275050011	General Aviation Piston	3	3	1.00
Windham	IJD	Windham Airport	2275001000	Military Aircraft Total	31	125	0.25
Windham	IJD	Windham Airport	2275050011	General Aviation Piston	3480	8775	0.40
Windham	IJD	Windham Airport	2275050012	General Aviation Turbine	31	125	0.25
Windham	IJD	Windham Airport	2275060012	Air Taxi Turbine	25	100	0.25

TABLE 4
Calculated Connecticut Airport Summer Season Activity Fraction by County, FAA Location ID and Mapped SCC

County	FAA Location ID	EIS Facility ID	Airport Name	SCC	SCC Short Name	Annual 2011 LTOs	Summer Season Fraction	Reference
Fairfield	0CT7	11014011	Bridgeport Hospital Heliport	2275050012	General Aviation Turbine	32	0.16	Survey data
Fairfield	0CT8	11517611	Danbury Hospital Heliport	2275050012	General Aviation Turbine	31	0.06	Survey data
Fairfield	1CT0	11018911	NORDEN SYSTEMS	2275050011	General Aviation Piston	18.45	0.38	Set equal to a calculated statewide sum of summer season divided by annual general aviation LTOs for all Connecticut Airports that align to an FAA location identifier and have a less than 500 annual general aviation LTOs.
Fairfield	1CT0	11018911	NORDEN SYSTEMS	2275050012	General Aviation Turbine	33.05	0.38	Set equal to a calculated statewide sum of summer season divided by annual general aviation LTOs for all Connecticut Airports that align to an FAA location identifier and have a less than 500 annual general aviation LTOs.
Fairfield	5CT4	11847111	Norwalk Hospital Heliport	2275050012	General Aviation Turbine	11	0.18	Survey data
Fairfield	5CT8	11193811	Canal Street Heliport	2275050011	General Aviation Piston	18.45	0.53	Set equal to a summer season fraction calculated for all survey data at the airport.
Fairfield	5CT8	11193811	Canal Street Heliport	2275050012	General Aviation Turbine	33.05	0.53	Survey data

TABLE 4**Calculated Connecticut Airport Summer Season Activity Fraction by County, FAA Location ID and Mapped SCC**

County	FAA Location ID	EIS Facility ID	Airport Name	SCC	SCC Short Name	Annual 2011 LTOs	Summer Season Fraction	Reference
Fairfield	9CT1	16101711	THE TOWERS	2275050011	General Aviation Piston	18.45	0.38	Set equal to a calculated statewide sum of summer season divided by annual general aviation LTOs for all Connecticut Airports that align to an FAA location identifier and have a less than 500 annual general aviation LTOs.
Fairfield	9CT1	16101711	THE TOWERS	2275050012	General Aviation Turbine	33.05	0.38	Set equal to a calculated statewide sum of summer season divided by annual general aviation LTOs for all Connecticut Airports that align to an FAA location identifier and have a less than 500 annual general aviation LTOs.
Fairfield	BDR	9795811	Igor I. Sikorsky Memorial Airport	2265008005	Airport Ground Support Equipment	-	0.21	Set equal to the sum of summer season divided by the sum of annual survey LTO activity data for commercial and turbine driven air taxi aircraft at each airport
Fairfield	BDR	9795811	Igor I. Sikorsky Memorial Airport	2267008005	Airport Ground Support Equipment	-	0.21	Set equal to the sum of summer season divided by the sum of annual survey LTO activity data for commercial and turbine driven air taxi aircraft at each airport
Fairfield	BDR	9795811	Igor I. Sikorsky Memorial Airport	2268008005	Airport Ground Support Equipment	-	0.21	Set equal to the sum of summer season divided by the sum of annual survey LTO activity data for commercial and turbine driven air taxi aircraft at each airport

TABLE 4
Calculated Connecticut Airport Summer Season Activity Fraction by County, FAA Location ID and Mapped SCC

County	FAA Location ID	EIS Facility ID	Airport Name	SCC	SCC Short Name	Annual 2011 LTOs	Summer Season Fraction	Reference
Fairfield	BDR	9795811	Igor I. Sikorsky Memorial Airport	2270008005	Airport Ground Support Equipment	-	0.21	Set equal to the sum of summer season divided by the sum of annual survey LTO activity data for commercial and turbine driven air taxi aircraft at each airport
Fairfield	BDR	9795811	Igor I. Sikorsky Memorial Airport	2275001000	Military Aircraft Total	199	0.26	Survey data
Fairfield	BDR	9795811	Igor I. Sikorsky Memorial Airport	2275020000	Commercial Aircraft	1	0.25	Survey data
Fairfield	BDR	9795811	Igor I. Sikorsky Memorial Airport	2275050011	General Aviation Piston	22546.7	0.30	Survey data
Fairfield	BDR	9795811	Igor I. Sikorsky Memorial Airport	2275050012	General Aviation Turbine	8737.76	0.25	Survey data
Fairfield	BDR	9795811	Igor I. Sikorsky Memorial Airport	2275060011	Air Taxi Piston	181.84	0.2	Set equal to turbine air taxi survey data
Fairfield	BDR	9795811	Igor I. Sikorsky Memorial Airport	2275060012	Air Taxi Turbine	651.16	0.20	Survey data
Fairfield	BDR	9795811	Igor I. Sikorsky Memorial Airport	2275070000	Aircraft Auxiliary Power Units Total	2	0.21	Set equal to a ratio of statewide summed summer day / annual commercial aircraft and turbine driven air taxi survey data
Fairfield	CT12	11315111	St Vincent's Medical Center Heliport	2275050012	General Aviation Turbine	12	0.26	Ratio of summed summer day / annual commercial aircraft and turbine driven air taxi survey data
Fairfield	CT37	12291011	Sikorsky Bridgeport Heliport	2275050011	General Aviation Piston	18.45	0.27	Ratio of summed summer day / annual commercial aircraft and turbine driven air taxi survey data

TABLE 4
Calculated Connecticut Airport Summer Season Activity Fraction by County, FAA Location ID and Mapped SCC

County	FAA Location ID	EIS Facility ID	Airport Name	SCC	SCC Short Name	Annual 2011 LTOs	Summer Season Fraction	Reference
Fairfield	CT37	12291011	Sikorsky Bridgeport Heliport	2275050012	General Aviation Turbine	33.05	0.31	Ratio of summed summer day / annual commercial aircraft and turbine driven air taxi survey data
Fairfield	CT41	11316111	General Electric Co. Heliport	2275050011	General Aviation Piston	18.45	0.38	Set equal to a calculated statewide sum of summer season divided by annual general aviation LTOs for all Connecticut Airports that align to an FAA location identifier and have a less than 500 annual general aviation LTOs.
Fairfield	CT41	11316111	General Electric Co. Heliport	2275050012	General Aviation Turbine	33.05	0.21	Survey data
Fairfield	CT52	12305511	Flying Ridge Airstrip	2275050011	General Aviation Piston	124.74	0.50	Survey data
Fairfield	CT89	12307811	ITT	2275050011	General Aviation Piston	18.45	0.38	Set equal to a calculated statewide sum of summer season divided by annual general aviation LTOs for all Connecticut Airports that align to an FAA location identifier and have a less than 500 annual general aviation LTOs.
Fairfield	CT89	12307811	ITT	2275050012	General Aviation Turbine	33.05	0.38	Set equal to a calculated statewide sum of summer season divided by annual general aviation LTOs for all Connecticut Airports that align to an FAA location identifier and have a less than 500 annual general aviation LTOs.

TABLE 4
Calculated Connecticut Airport Summer Season Activity Fraction by County, FAA Location ID and Mapped SCC

County	FAA Location ID	EIS Facility ID	Airport Name	SCC	SCC Short Name	Annual 2011 LTOs	Summer Season Fraction	Reference
Fairfield	CT91	12308011	USSC Heliport	2275050011	General Aviation Piston	18.45	1	Set equal to a summer season fraction calculated for all survey data at the airport.
Fairfield	CT91	12308011	USSC Heliport	2275050012	General Aviation Turbine	33.05	1.00	Survey data
Fairfield	DXR	9795711	Danbury Municipal Airport	2265008005	Airport Ground Support Equipment	-	0.28	Set equal to the summer season fraction associated with turbine driven air taxi survey data, since no commercial aviation aircraft mapping was aligned to survey data.
Fairfield	DXR	9795711	Danbury Municipal Airport	2267008005	Airport Ground Support Equipment	-	0.28	Set equal to the summer season fraction associated with turbine driven air taxi survey data, since no commercial aviation aircraft mapping was aligned to survey data.
Fairfield	DXR	9795711	Danbury Municipal Airport	2268008005	Airport Ground Support Equipment	-	0.28	Set equal to the summer season fraction associated with turbine driven air taxi survey data, since no commercial aviation aircraft mapping was aligned to survey data.
Fairfield	DXR	9795711	Danbury Municipal Airport	2270008005	Airport Ground Support Equipment	-	0.28	Set equal to the summer season fraction associated with turbine driven air taxi survey data, since no commercial aviation aircraft mapping was aligned to survey data.
Fairfield	DXR	9795711	Danbury Municipal Airport	2275001000	Military Aircraft Total	227	0.29	Survey data

TABLE 4**Calculated Connecticut Airport Summer Season Activity Fraction by County, FAA Location ID and Mapped SCC**

County	FAA Location ID	EIS Facility ID	Airport Name	SCC	SCC Short Name	Annual 2011 LTOs	Summer Season Fraction	Reference
Fairfield	DXR	9795711	Danbury Municipal Airport	2275020000	Commercial Aircraft	1	0.28	Set equal to summer season fraction associated with turbine air taxi survey data.
Fairfield	DXR	9795711	Danbury Municipal Airport	2275050011	General Aviation Piston	23070.3	0.28	Survey data
Fairfield	DXR	9795711	Danbury Municipal Airport	2275050012	General Aviation Turbine	8940.67	0.28	Survey data
Fairfield	DXR	9795711	Danbury Municipal Airport	2275060011	Air Taxi Piston	350.37	0.28	Set equal to turbine air taxi survey data
Fairfield	DXR	9795711	Danbury Municipal Airport	2275060012	Air Taxi Turbine	1254.63	0.28	Survey data
Fairfield	JSD	12395011	Sikorsky Helipad	2275050012	General Aviation Turbine	2893	0.26	Survey data
Hartford	01CT	10937011	BERLIN FAIRGROUNDS	2275050011	General Aviation Piston	18.45	0.38	Set equal to a calculated statewide sum of summer season divided by annual general aviation LTOs for all Connecticut Airports that align to an FAA location identifier and have a less than 500 annual general aviation LTOs.
Hartford	01CT	10937011	BERLIN FAIRGROUNDS	2275050012	General Aviation Turbine	33.05	0.38	Set equal to a calculated statewide sum of summer season divided by annual general aviation LTOs for all Connecticut Airports that align to an FAA location identifier and have a less than 500 annual general aviation LTOs.

TABLE 4
Calculated Connecticut Airport Summer Season Activity Fraction by County, FAA Location ID and Mapped SCC

County	FAA Location ID	EIS Facility ID	Airport Name	SCC	SCC Short Name	Annual 2011 LTOs	Summer Season Fraction	Reference
Hartford	0CT3	11013811	N B G H Heliport	2275050012	General Aviation Turbine	7	0.00	Survey data
Hartford	0CT5	11517511	St. Francis Hospital Heliport	2275050012	General Aviation Turbine	86	0.19	Survey data
Hartford	0CT9	11517711	Hartford Hospital Helipad	2275050012	General Aviation Turbine	1646	0.29	Survey data
Hartford	23CT	11949311	Blanchette Heliport	2275050011	General Aviation Piston	18.45	0.75	Survey data
Hartford	23CT	11949311	Blanchette Heliport	2275050012	General Aviation Turbine	33.05	0.75	Set equal to a summer season fraction calculated for all survey data at the airport.
Hartford	4B8	9792611	Robertson Field	2265008005	Airport Ground Support Equipment	-	0.25	Set equal to the summer season fraction associated with turbine driven air taxi survey data, since no commercial aviation aircraft mapping was aligned to survey data.
Hartford	4B8	9792611	Robertson Field	2267008005	Airport Ground Support Equipment	-	0.25	Set equal to the summer season fraction associated with turbine driven air taxi survey data, since no commercial aviation aircraft mapping was aligned to survey data.
Hartford	4B8	9792611	Robertson Field	2268008005	Airport Ground Support Equipment	-	0.25	Set equal to the summer season fraction associated with turbine driven air taxi survey data, since no commercial aviation aircraft mapping was aligned to survey data.

TABLE 4
Calculated Connecticut Airport Summer Season Activity Fraction by County, FAA Location ID and Mapped SCC

County	FAA Location ID	EIS Facility ID	Airport Name	SCC	SCC Short Name	Annual 2011 LTOs	Summer Season Fraction	Reference
Hartford	4B8	9792611	Robertson Field	2270008005	Airport Ground Support Equipment	-	0.25	Set equal to the summer season fraction associated with turbine driven air taxi survey data, since no commercial aviation aircraft mapping was aligned to survey data.
Hartford	4B8	9792611	Robertson Field	2275001000	Military Aircraft Total	27.5	0.25	Survey data
Hartford	4B8	9792611	Robertson Field	2275050011	General Aviation Piston	20711.1	0.31	Survey data
Hartford	4B8	9792611	Robertson Field	2275050012	General Aviation Turbine	8026.38	0.25	Survey data
Hartford	4B8	9792611	Robertson Field	2275060011	Air Taxi Piston	182.28	0.25	Set equal to turbine air taxi survey data
Hartford	4B8	9792611	Robertson Field	2275060012	Air Taxi Turbine	657.72	0.25	Survey data
Hartford	4B9	9792511	Simsbury Tri-Town Airport	2265008005	Airport Ground Support Equipment	-	0.37	Set equal to the summer season fraction associated with piston driven general aviation survey data as this is the only available survey data.
Hartford	4B9	9792511	Simsbury Tri-Town Airport	2267008005	Airport Ground Support Equipment	-	0.37	Set equal to the summer season fraction associated with piston driven general aviation survey data as this is the only available survey data.
Hartford	4B9	9792511	Simsbury Tri-Town Airport	2268008005	Airport Ground Support Equipment	-	0.37	Set equal to the summer season fraction associated with piston driven general aviation survey data as this is the only available survey data.

TABLE 4**Calculated Connecticut Airport Summer Season Activity Fraction by County, FAA Location ID and Mapped SCC**

County	FAA Location ID	EIS Facility ID	Airport Name	SCC	SCC Short Name	Annual 2011 LTOs	Summer Season Fraction	Reference
Hartford	4B9	9792511	Simsbury Tri-Town Airport	2270008005	Airport Ground Support Equipment	-	0.37	Set equal to the summer season fraction associated with piston driven general aviation survey data as this is the only available survey data.
Hartford	4B9	9792511	Simsbury Tri-Town Airport	2275050011	General Aviation Piston	4576.44	0.37	Survey data
Hartford	4B9	9792511	Simsbury Tri-Town Airport	2275050012	General Aviation Turbine	1773.56	0.37	Set equal to piston driven general aviation survey data as this is the only available survey data.
Hartford	4B9	9792511	Simsbury Tri-Town Airport	2275060011	Air Taxi Piston	8.19	0.37	Set equal to piston driven general aviation survey data as this is the only available survey data.
Hartford	4B9	9792511	Simsbury Tri-Town Airport	2275060012	Air Taxi Turbine	30.31	0.37	Set equal to piston driven general aviation survey data as this is the only available survey data.
Hartford	5CT3	11193611	SOUTH GLASTONBURY	2275050011	General Aviation Piston	18.45	0.38	Set equal to a calculated statewide sum of summer season divided by annual general aviation LTOs for all Connecticut Airports that align to an FAA location identifier and have a less than 500 annual general aviation LTOs.
Hartford	5CT3	11193611	SOUTH GLASTONBURY	2275050012	General Aviation Turbine	33.05	0.38	Set equal to a calculated statewide sum of summer season divided by annual general aviation LTOs for all Connecticut Airports that align to an FAA location identifier and have a less than 500 annual general aviation LTOs.

TABLE 4
Calculated Connecticut Airport Summer Season Activity Fraction by County, FAA Location ID and Mapped SCC

County	FAA Location ID	EIS Facility ID	Airport Name	SCC	SCC Short Name	Annual 2011 LTOs	Summer Season Fraction	Reference
Hartford	7B6	11649711	Skylark's Air Park	2275050011	General Aviation Piston	6058.4	0.50	Survey data
Hartford	7B6	11649711	Skylark's Air Park	2275050012	General Aviation Turbine	2346.12	0.5	Set equal to a summer season fraction calculated for all survey data at the airport.
Hartford	7B6	11649711	Skylark's Air Park	2275060011	Air Taxi Piston	10.92	0.5	Set equal to a summer season fraction calculated for all survey data at the airport.
Hartford	7B6	11649711	Skylark's Air Park	2275060012	Air Taxi Turbine	39.08	0.5	Set equal to a summer season fraction calculated for all survey data at the airport.
Hartford	9B8	11285611	Salmon River Airfield	2275050011	General Aviation Piston	288.5	0.65	Survey data
Hartford	9B8	11285611	Salmon River Airfield	2275050012	General Aviation Turbine	111.72	0.65	Set equal to a summer season fraction calculated for all survey data at the airport.
Hartford	BDL	9792411	Bradley International Airport	2265008005	Airport Ground Support Equipment	-	0.26	Set equal to the sum of summer season divided by the sum of annual survey LTO activity data for commercial and turbine driven air taxi aircraft at each airport
Hartford	BDL	9792411	Bradley International Airport	2267008005	Airport Ground Support Equipment	-	0.26	Set equal to the sum of summer season divided by the sum of annual survey LTO activity data for commercial and turbine driven air taxi aircraft at each airport

TABLE 4**Calculated Connecticut Airport Summer Season Activity Fraction by County, FAA Location ID and Mapped SCC**

County	FAA Location ID	EIS Facility ID	Airport Name	SCC	SCC Short Name	Annual 2011 LTOs	Summer Season Fraction	Reference
Hartford	BDL	9792411	Bradley International Airport	2268008005	Airport Ground Support Equipment	-	0.26	Set equal to the sum of summer season divided by the sum of annual survey LTO activity data for commercial and turbine driven air taxi aircraft at each airport
Hartford	BDL	9792411	Bradley International Airport	2270008005	Airport Ground Support Equipment	-	0.26	Set equal to the sum of summer season divided by the sum of annual survey LTO activity data for commercial and turbine driven air taxi aircraft at each airport
Hartford	BDL	9792411	Bradley International Airport	2275001000	Military Aircraft Total	1815	0.22	Survey data
Hartford	BDL	9792411	Bradley International Airport	2275020000	Commercial Aircraft	36019	0.26	Survey data
Hartford	BDL	9792411	Bradley International Airport	2275050011	General Aviation Piston	5939.65	0.29	Survey data
Hartford	BDL	9792411	Bradley International Airport	2275050012	General Aviation Turbine	2303.85	0.25	Survey data
Hartford	BDL	9792411	Bradley International Airport	2275060011	Air Taxi Piston	3385.4	0.26	Set equal to turbine air taxi survey data
Hartford	BDL	9792411	Bradley International Airport	2275060012	Air Taxi Turbine	12122.6	0.26	Survey data
Hartford	BDL	9792411	Bradley International Airport	2275070000	Aircraft Auxiliary Power Units Total	33695	0.26	Set equal to a ratio of summed summer day / annual commercial aircraft and turbine driven air taxi survey data for Bradley Airport

TABLE 4
Calculated Connecticut Airport Summer Season Activity Fraction by County, FAA Location ID and Mapped SCC

County	FAA Location ID	EIS Facility ID	Airport Name	SCC	SCC Short Name	Annual 2011 LTOs	Summer Season Fraction	Reference
Hartford	CT00	11314711	ELECTRO-METHODS INC	2275050011	General Aviation Piston	18.45	0.26	Ratio of summed summer day / annual commercial aircraft and turbine driven air taxi survey data
Hartford	CT00	11314711	ELECTRO-METHODS INC	2275050012	General Aviation Turbine	33.05	0.27	Ratio of summed summer day / annual commercial aircraft and turbine driven air taxi survey data
Hartford	CT02	12289111	Clark Hill Heliport	2275050011	General Aviation Piston	18.45	0.31	Ratio of summed summer day / annual commercial aircraft and turbine driven air taxi survey data
Hartford	CT02	12289111	Clark Hill Heliport	2275050012	General Aviation Turbine	33.05	1	Set equal to a summer season fraction calculated for all survey data at the airport.
Hartford	CT03	12289211	Bristol Hospital Heliport	2275050012	General Aviation Turbine	12	0.42	Survey data
Hartford	CT05	12289311	KAMAN AEROSPACE CORP	2275050011	General Aviation Piston	18.45	0.23	Set equal to a summer season fraction calculated for all survey data at the airport.
Hartford	CT05	12289311	KAMAN AEROSPACE CORP	2275050012	General Aviation Turbine	33.05	0.23	Set equal to a summer season fraction calculated for all survey data at the airport.
Hartford	CT14	11315311	Bancroft Airport	2275050011	General Aviation Piston	117.25	0.50	Survey data

TABLE 4
Calculated Connecticut Airport Summer Season Activity Fraction by County, FAA Location ID and Mapped SCC

County	FAA Location ID	EIS Facility ID	Airport Name	SCC	SCC Short Name	Annual 2011 LTOs	Summer Season Fraction	Reference
Hartford	CT18	12289811	STATE EMERGENCY	2275050011	General Aviation Piston	18.45	0.38	Set equal to a calculated statewide sum of summer season divided by annual general aviation LTOs for all Connecticut Airports that align to an FAA location identifier and have a less than 500 annual general aviation LTOs.
Hartford	CT18	12289811	STATE EMERGENCY	2275050012	General Aviation Turbine	33.05	0.38	Set equal to a calculated statewide sum of summer season divided by annual general aviation LTOs for all Connecticut Airports that align to an FAA location identifier and have a less than 500 annual general aviation LTOs.
Hartford	CT19	11315611	Laurie Field	2275050011	General Aviation Piston	123.92	0.55	Survey data
Hartford	CT27	12290311	TENNESSEE F	2275050011	General Aviation Piston	18.45	0.38	Set equal to a calculated statewide sum of summer season divided by annual general aviation LTOs for all Connecticut Airports that align to an FAA location identifier and have a less than 500 annual general aviation LTOs.
Hartford	CT27	12290311	TENNESSEE F	2275050012	General Aviation Turbine	33.05	0.38	Set equal to a calculated statewide sum of summer season divided by annual general aviation LTOs for all Connecticut Airports that align to an FAA location identifier and have a less than 500 annual general aviation LTOs.

TABLE 4
Calculated Connecticut Airport Summer Season Activity Fraction by County, FAA Location ID and Mapped SCC

County	FAA Location ID	EIS Facility ID	Airport Name	SCC	SCC Short Name	Annual 2011 LTOs	Summer Season Fraction	Reference
Hartford	CT28	12290411	VETERANS HOME & HOSPITAL	2275050012	General Aviation Turbine	4	0.38	Set equal to a calculated statewide sum of summer season divided by annual general aviation LTOs for all Connecticut Airports that align to an FAA location identifier and have a less than 500 annual general aviation LTOs.
Hartford	CT35	12290811	HAMILTON STANDARD	2275050011	General Aviation Piston	18.45	0.38	Set equal to a calculated statewide sum of summer season divided by annual general aviation LTOs for all Connecticut Airports that align to an FAA location identifier and have a less than 500 annual general aviation LTOs.
Hartford	CT35	12290811	HAMILTON STANDARD	2275050012	General Aviation Turbine	33.05	0.38	Set equal to a calculated statewide sum of summer season divided by annual general aviation LTOs for all Connecticut Airports that align to an FAA location identifier and have a less than 500 annual general aviation LTOs.
Hartford	CT49	12305211	PLAINVILLE	2275050011	General Aviation Piston	18.45	0.38	Set equal to a calculated statewide sum of summer season divided by annual general aviation LTOs for all Connecticut Airports that align to an FAA location identifier and have a less than 500 annual general aviation LTOs.

TABLE 4
Calculated Connecticut Airport Summer Season Activity Fraction by County, FAA Location ID and Mapped SCC

County	FAA Location ID	EIS Facility ID	Airport Name	SCC	SCC Short Name	Annual 2011 LTOs	Summer Season Fraction	Reference
Hartford	CT49	12305211	PLAINVILLE	2275050012	General Aviation Turbine	33.05	0.38	Set equal to a calculated statewide sum of summer season divided by annual general aviation LTOs for all Connecticut Airports that align to an FAA location identifier and have a less than 500 annual general aviation LTOs.
Hartford	CT50	12305311	MARKS	2275050011	General Aviation Piston	18.45	0.38	Set equal to a calculated statewide sum of summer season divided by annual general aviation LTOs for all Connecticut Airports that align to an FAA location identifier and have a less than 500 annual general aviation LTOs.
Hartford	CT50	12305311	MARKS	2275050012	General Aviation Turbine	33.05	0.38	Set equal to a calculated statewide sum of summer season divided by annual general aviation LTOs for all Connecticut Airports that align to an FAA location identifier and have a less than 500 annual general aviation LTOs.
Hartford	CT60	12306211	Ultimate Heliport	2275050011	General Aviation Piston	18.45	0.50	Survey data
Hartford	CT60	12306211	Ultimate Heliport	2275050012	General Aviation Turbine	33.05	0.5	Set equal to a summer season fraction calculated for all survey data at the airport.

TABLE 4
Calculated Connecticut Airport Summer Season Activity Fraction by County, FAA Location ID and Mapped SCC

County	FAA Location ID	EIS Facility ID	Airport Name	SCC	SCC Short Name	Annual 2011 LTOs	Summer Season Fraction	Reference
Hartford	CT62	12306311	TWIN MANUFACTURING COMPANY	2275050011	General Aviation Piston	18.45	0.38	Set equal to a calculated statewide sum of summer season divided by annual general aviation LTOs for all Connecticut Airports that align to an FAA location identifier and have a less than 500 annual general aviation LTOs.
Hartford	CT62	12306311	TWIN MANUFACTURING COMPANY	2275050012	General Aviation Turbine	33.05	0.38	Set equal to a calculated statewide sum of summer season divided by annual general aviation LTOs for all Connecticut Airports that align to an FAA location identifier and have a less than 500 annual general aviation LTOs.
Hartford	CT71	12306511	Otis Elevator Co. Heliport	2275050011	General Aviation Piston	18.45	0.2	Set equal to a summer season fraction calculated for all survey data at the airport.
Hartford	CT71	12306511	Otis Elevator Co. Heliport	2275050012	General Aviation Turbine	33.05	0.20	Survey data
Hartford	CT73	12306611	South Meadows Heliport	2275050011	General Aviation Piston	18.45	0.18	Survey data
Hartford	CT73	12306611	South Meadows Heliport	2275050012	General Aviation Turbine	33.05	0.18	Set equal to a summer season fraction calculated for all survey data at the airport.
Hartford	CT75	12306811	UCONN Med Hurlbrink Heliport	2275050012	General Aviation Turbine	20	0.11	Survey data

TABLE 4
Calculated Connecticut Airport Summer Season Activity Fraction by County, FAA Location ID and Mapped SCC

County	FAA Location ID	EIS Facility ID	Airport Name	SCC	SCC Short Name	Annual 2011 LTOs	Summer Season Fraction	Reference
Hartford	CT85	12307411	Roberts Farm Airport	2275050011	General Aviation Piston	150.6	0.60	Survey data
Hartford	CT87	12307611	BOOTLEGGERS	2275050011	General Aviation Piston	1	0.38	Set equal to a calculated statewide sum of summer season divided by annual general aviation LTOs for all Connecticut Airports that align to an FAA location identifier and have a less than 500 annual general aviation LTOs.
Hartford	CT88	12307711	Rentschler Heliport	2275050011	General Aviation Piston	18.45	0.27	Set equal to a summer season fraction calculated for all survey data at the airport.
Hartford	CT88	12307711	Rentschler Heliport	2275050012	General Aviation Turbine	33.05	0.27	Survey data
Hartford	CT96	12308511	GREEN ACRES	2275050011	General Aviation Piston	117.25	0.23	Set equal to a summer season fraction calculated for all survey data at the airport.
Hartford	HFD	9792311	Hartford-Brainard Airport	2265008005	Airport Ground Support Equipment	-	0.3	Set equal to the summer season fraction associated with commercial aviation survey data.
Hartford	HFD	9792311	Hartford-Brainard Airport	2267008005	Airport Ground Support Equipment	-	0.3	Set equal to the summer season fraction associated with commercial aviation survey data.

TABLE 4
Calculated Connecticut Airport Summer Season Activity Fraction by County, FAA Location ID and Mapped SCC

County	FAA Location ID	EIS Facility ID	Airport Name	SCC	SCC Short Name	Annual 2011 LTOs	Summer Season Fraction	Reference
Hartford	HFD	9792311	Hartford-Brainard Airport	2268008005	Airport Ground Support Equipment	-	0.3	Set equal to the summer season fraction associated with commercial aviation survey data.
Hartford	HFD	9792311	Hartford-Brainard Airport	2270008005	Airport Ground Support Equipment	-	0.3	Set equal to the summer season fraction associated with commercial aviation survey data.
Hartford	HFD	9792311	Hartford-Brainard Airport	2275001000	Military Aircraft Total	52	0.25	Set equal to an average statewide military aircraft summer day activity factor calculated from survey data.
Hartford	HFD	9792311	Hartford-Brainard Airport	2275050011	General Aviation Piston	21487.3	0.44	Survey data
Hartford	HFD	9792311	Hartford-Brainard Airport	2275050012	General Aviation Turbine	8327.19	0.56	Survey data
Hartford	HFD	9792311	Hartford-Brainard Airport	2275060011	Air Taxi Piston	416.41	0.44	Set equal to seasonal fraction associated with piston driven general aviation survey data.
Hartford	HFD	9792311	Hartford-Brainard Airport	2275060012	Air Taxi Turbine	1491.09	0.56	Set equal to seasonal fraction associated with turbine driven general aviation survey data.
Litchfield	04CT	10946911	Shingle Mill Heliport	2275050011	General Aviation Piston	18.45	0.30	Survey data
Litchfield	04CT	10946911	Shingle Mill Heliport	2275050012	General Aviation Turbine	33.05	0.3	Set equal to a summer season fraction calculated for all survey data at the airport.

TABLE 4
Calculated Connecticut Airport Summer Season Activity Fraction by County, FAA Location ID and Mapped SCC

County	FAA Location ID	EIS Facility ID	Airport Name	SCC	SCC Short Name	Annual 2011 LTOs	Summer Season Fraction	Reference
Litchfield	05CT	11563311	O AND G	2275050011	General Aviation Piston	18.45	0.38	Set equal to a calculated statewide sum of summer season divided by annual general aviation LTOs for all Connecticut Airports that align to an FAA location identifier and have a less than 500 annual general aviation LTOs.
Litchfield	05CT	11563311	O AND G	2275050012	General Aviation Turbine	33.05	0.38	Set equal to a calculated statewide sum of summer season divided by annual general aviation LTOs for all Connecticut Airports that align to an FAA location identifier and have a less than 500 annual general aviation LTOs.
Litchfield	08CT	10958911	Seavair's Landing Airport	2275050011	General Aviation Piston	1	0.53	Survey data
Litchfield	0CT0	11517211	Sharon Hospital Heliport	2275050012	General Aviation Turbine	28	0.29	Survey data
Litchfield	11N	10995811	Candlelight Farms Airport	2275050011	General Aviation Piston	3963.85	0.71	Survey data
Litchfield	11N	10995811	Candlelight Farms Airport	2275050012	General Aviation Turbine	1536.15	0.7	Set equal to a summer season fraction calculated for all survey data at the airport.

TABLE 4
Calculated Connecticut Airport Summer Season Activity Fraction by County, FAA Location ID and Mapped SCC

County	FAA Location ID	EIS Facility ID	Airport Name	SCC	SCC Short Name	Annual 2011 LTOs	Summer Season Fraction	Reference
Litchfield	33CT	11116611	IRISH HILLS FARMS	2275050011	General Aviation Piston	1	0.38	Set equal to a calculated statewide sum of summer season divided by annual general aviation LTOs for all Connecticut Airports that align to an FAA location identifier and have a less than 500 annual general aviation LTOs.
Litchfield	5CT5	11193711	THOMSON FIELD	2275050011	General Aviation Piston	1	0.38	Set equal to a calculated statewide sum of summer season divided by annual general aviation LTOs for all Connecticut Airports that align to an FAA location identifier and have a less than 500 annual general aviation LTOs.
Litchfield	6Y2	11778911	Candlelight Farms Heliport	2275050011	General Aviation Piston	10.75	0.65	Set equal to a summer season fraction calculated for all survey data at the airport.
Litchfield	6Y2	11778911	Candlelight Farms Heliport	2275050012	General Aviation Turbine	19.25	0.65	Survey data
Litchfield	CT01	12289011	Whelan Farms Airport	2275050011	General Aviation Piston	138.72	0.38	Survey data
Litchfield	CT24	11315811	North Canaan Airport	2275050011	General Aviation Piston	1540	0.50	Survey data
Litchfield	CT24	11315811	North Canaan Airport	2275050012	General Aviation Turbine	260	0.5	Set equal to a summer season fraction calculated for all survey data at the airport.

TABLE 4
Calculated Connecticut Airport Summer Season Activity Fraction by County, FAA Location ID and Mapped SCC

County	FAA Location ID	EIS Facility ID	Airport Name	SCC	SCC Short Name	Annual 2011 LTOs	Summer Season Fraction	Reference
Litchfield	CT42	11316211	Wings Ago Airstrip	2275050011	General Aviation Piston	98.7	1.00	Survey data
Litchfield	CT51	12305411	Docktors Field	2275050011	General Aviation Piston	92.03	1.00	Survey data
Litchfield	CT59	12306111	Good Hill Farm	2275050011	General Aviation Piston	112.04	0.47	Survey data
Litchfield	CT66	11316711	Long View Landing Airport	2275050011	General Aviation Piston	105.37	0.26	Survey data
Litchfield	N09	12469211	NORTHFIELD	2275050011	General Aviation Piston	18.45	0.38	Set equal to a calculated statewide sum of summer season divided by annual general aviation LTOs for all Connecticut Airports that align to an FAA location identifier and have a less than 500 annual general aviation LTOs.
Litchfield	N09	12469211	NORTHFIELD	2275050012	General Aviation Turbine	33.05	0.38	Set equal to a calculated statewide sum of summer season divided by annual general aviation LTOs for all Connecticut Airports that align to an FAA location identifier and have a less than 500 annual general aviation LTOs.
Litchfield	N41	12470011	Waterbury-Plymouth Airport	2275050011	General Aviation Piston	4896.87	0.43	Survey data

TABLE 4
Calculated Connecticut Airport Summer Season Activity Fraction by County, FAA Location ID and Mapped SCC

County	FAA Location ID	EIS Facility ID	Airport Name	SCC	SCC Short Name	Annual 2011 LTOs	Summer Season Fraction	Reference
Litchfield	N41	12470011	Waterbury-Plymouth Airport	2275050012	General Aviation Turbine	2214.85	0.40	Survey data
Middlesex	OCT6	11013911	Aetna @ Middletown Heliport	2275050011	General Aviation Piston	18.45	0.7	Set equal to a summer season fraction calculated for all survey data at the airport.
Middlesex	OCT6	11013911	Aetna @ Middletown Heliport	2275050012	General Aviation Turbine	33.05	0.70	Survey data
Middlesex	42B	11146011	Goodspeed Airport & Seaplane Base	2275050011	General Aviation Piston	2235.84	0.40	Survey data
Middlesex	42B	11146011	Goodspeed Airport & Seaplane Base	2275050012	General Aviation Turbine	865.83	0.4	Set equal to a summer season fraction calculated for all survey data at the airport.
Middlesex	42B	11146011	Goodspeed Airport & Seaplane Base	2275060011	Air Taxi Piston	3.27	0.4	Set equal to a summer season fraction calculated for all survey data at the airport.
Middlesex	42B	11146011	Goodspeed Airport & Seaplane Base	2275060012	Air Taxi Turbine	11.73	0.4	Set equal to a summer season fraction calculated for all survey data at the airport.
Middlesex	CT11	12289611	Devil's Hopyard Field	2275050011	General Aviation Piston	97.83	0.70	Survey data
Middlesex	CT39	12291111	Maplewood Farm Airport	2275050011	General Aviation Piston	104.5	0.50	Survey data

TABLE 4
Calculated Connecticut Airport Summer Season Activity Fraction by County, FAA Location ID and Mapped SCC

County	FAA Location ID	EIS Facility ID	Airport Name	SCC	SCC Short Name	Annual 2011 LTOs	Summer Season Fraction	Reference
Middlesex	CT57	12305911	OLD SAYBROOK	2275050011	General Aviation Piston	18.45	0.38	Set equal to a calculated statewide sum of summer season divided by annual general aviation LTOs for all Connecticut Airports that align to an FAA location identifier and have a less than 500 annual general aviation LTOs.
Middlesex	CT57	12305911	OLD SAYBROOK	2275050012	General Aviation Turbine	33.05	0.38	Set equal to a calculated statewide sum of summer season divided by annual general aviation LTOs for all Connecticut Airports that align to an FAA location identifier and have a less than 500 annual general aviation LTOs.
Middlesex	CT58	12306011	PORTLAND	2275050011	General Aviation Piston	18.45	0.38	Set equal to a calculated statewide sum of summer season divided by annual general aviation LTOs for all Connecticut Airports that align to an FAA location identifier and have a less than 500 annual general aviation LTOs.
Middlesex	CT58	12306011	PORTLAND	2275050012	General Aviation Turbine	33.05	0.38	Set equal to a calculated statewide sum of summer season divided by annual general aviation LTOs for all Connecticut Airports that align to an FAA location identifier and have a less than 500 annual general aviation LTOs.

TABLE 4
Calculated Connecticut Airport Summer Season Activity Fraction by County, FAA Location ID and Mapped SCC

County	FAA Location ID	EIS Facility ID	Airport Name	SCC	SCC Short Name	Annual 2011 LTOs	Summer Season Fraction	Reference
Middlesex	CT86	12307511	SANFORD	2275050011	General Aviation Piston	18.45	0.38	Set equal to a calculated statewide sum of summer season divided by annual general aviation LTOs for all Connecticut Airports that align to an FAA location identifier and have a less than 500 annual general aviation LTOs.
Middlesex	CT86	12307511	SANFORD	2275050012	General Aviation Turbine	33.05	0.38	Set equal to a calculated statewide sum of summer season divided by annual general aviation LTOs for all Connecticut Airports that align to an FAA location identifier and have a less than 500 annual general aviation LTOs.
Middlesex	CT92	12308111	Bemer Heliport	2275050011	General Aviation Piston	18.45	1	Set equal to a summer season fraction calculated for all survey data at the airport.
Middlesex	CT92	12308111	Bemer Heliport	2275050012	General Aviation Turbine	33.05	1.00	Survey data
Middlesex	CT97	12308611	Middlesex Medical Center Shoreline	2275050012	General Aviation Turbine	37	0.24	Survey data
Middlesex	CT98	12308711	Middlesex Hospital	2275050012	General Aviation Turbine	30	0.40	Survey data
Middlesex	SNC	9790011	Chester	2275050011	General Aviation Piston	2410	0.41	Survey data; airport location ID formerly 3B9

TABLE 4
Calculated Connecticut Airport Summer Season Activity Fraction by County, FAA Location ID and Mapped SCC

County	FAA Location ID	EIS Facility ID	Airport Name	SCC	SCC Short Name	Annual 2011 LTOs	Summer Season Fraction	Reference
Middlesex	SNC	9790011	Chester	2275050012	General Aviation Turbine	200	0.3	Survey data; airport location ID formerly 3B9
New Haven	OCT1	11517311	Bristol-Myers Squibb Co. Heliport	2275050011	General Aviation Piston	18.45	0.39	Set equal to a summer season fraction calculated for all survey data at the airport.
New Haven	OCT1	11517311	Bristol-Myers Squibb Co. Heliport	2275050012	General Aviation Turbine	33.05	0.39	Survey data
New Haven	1CT2	11019011	Yale-New Haven Hospital	2275050012	General Aviation Turbine	248	0.24	Survey data
New Haven	1CT3	11019111	St. Mary's Hospital Heliport	2275050012	General Aviation Turbine	19	0.47	Survey data
New Haven	4C3	11160811	Hummingbird Heliport	2275050011	General Aviation Piston	8.96	0.28	Set equal to a summer season fraction calculated for all survey data at the airport.
New Haven	4C3	11160811	Hummingbird Heliport	2275050012	General Aviation Turbine	16.04	0.28	Survey data
New Haven	5CT1	11847011	RONDO	2275050011	General Aviation Piston	18.45	0.38	Set equal to a calculated statewide sum of summer season divided by annual general aviation LTOs for all Connecticut Airports that align to an FAA location identifier and have a less than 500 annual general aviation LTOs.

TABLE 4**Calculated Connecticut Airport Summer Season Activity Fraction by County, FAA Location ID and Mapped SCC**

County	FAA Location ID	EIS Facility ID	Airport Name	SCC	SCC Short Name	Annual 2011 LTOs	Summer Season Fraction	Reference
New Haven	5CT1	11847011	RONDO	2275050012	General Aviation Turbine	33.05	0.38	Set equal to a calculated statewide sum of summer season divided by annual general aviation LTOs for all Connecticut Airports that align to an FAA location identifier and have a less than 500 annual general aviation LTOs.
New Haven	CT34	12290711	U.S. Surgical Rooftop Heliport	2275050011	General Aviation Piston	18.45	1	Survey data
New Haven	CT34	12290711	U.S. Surgical Rooftop Heliport	2275050012	General Aviation Turbine	33.05	1.00	Survey data
New Haven	CT40	12291211	BOB THOMAS FORD	2275050011	General Aviation Piston	18.45	0.38	Set equal to a calculated statewide sum of summer season divided by annual general aviation LTOs for all Connecticut Airports that align to an FAA location identifier and have a less than 500 annual general aviation LTOs.
New Haven	CT40	12291211	BOB THOMAS FORD	2275050012	General Aviation Turbine	33.05	0.38	Set equal to a calculated statewide sum of summer season divided by annual general aviation LTOs for all Connecticut Airports that align to an FAA location identifier and have a less than 500 annual general aviation LTOs.

TABLE 4
Calculated Connecticut Airport Summer Season Activity Fraction by County, FAA Location ID and Mapped SCC

County	FAA Location ID	EIS Facility ID	Airport Name	SCC	SCC Short Name	Annual 2011 LTOs	Summer Season Fraction	Reference
New Haven	CT45	12305011	TIMEX	2275050011	General Aviation Piston	18.45	0.38	Set equal to a calculated statewide sum of summer season divided by annual general aviation LTOs for all Connecticut Airports that align to an FAA location identifier and have a less than 500 annual general aviation LTOs.
New Haven	CT45	12305011	TIMEX	2275050012	General Aviation Turbine	33.05	0.38	Set equal to a calculated statewide sum of summer season divided by annual general aviation LTOs for all Connecticut Airports that align to an FAA location identifier and have a less than 500 annual general aviation LTOs.
New Haven	CT46	11316311	MILFORD-ALEXANDER	2275050011	General Aviation Piston	18.45	0.38	Set equal to a calculated statewide sum of summer season divided by annual general aviation LTOs for all Connecticut Airports that align to an FAA location identifier and have a less than 500 annual general aviation LTOs.
New Haven	CT46	11316311	MILFORD-ALEXANDER	2275050012	General Aviation Turbine	33.05	0.38	Set equal to a calculated statewide sum of summer season divided by annual general aviation LTOs for all Connecticut Airports that align to an FAA location identifier and have a less than 500 annual general aviation LTOs.

TABLE 4
Calculated Connecticut Airport Summer Season Activity Fraction by County, FAA Location ID and Mapped SCC

County	FAA Location ID	EIS Facility ID	Airport Name	SCC	SCC Short Name	Annual 2011 LTOs	Summer Season Fraction	Reference
New Haven	CT54	12305711	NORTH BRANFORD	2275050011	General Aviation Piston	18.45	0.38	Set equal to a calculated statewide sum of summer season divided by annual general aviation LTOs for all Connecticut Airports that align to an FAA location identifier and have a less than 500 annual general aviation LTOs.
New Haven	CT54	12305711	NORTH BRANFORD	2275050012	General Aviation Turbine	33.05	0.38	Set equal to a calculated statewide sum of summer season divided by annual general aviation LTOs for all Connecticut Airports that align to an FAA location identifier and have a less than 500 annual general aviation LTOs.
New Haven	CT55	12305811	NORTH HAVEN	2275050011	General Aviation Piston	18.45	0.38	Set equal to a calculated statewide sum of summer season divided by annual general aviation LTOs for all Connecticut Airports that align to an FAA location identifier and have a less than 500 annual general aviation LTOs.
New Haven	CT55	12305811	NORTH HAVEN	2275050012	General Aviation Turbine	33.05	0.38	Set equal to a calculated statewide sum of summer season divided by annual general aviation LTOs for all Connecticut Airports that align to an FAA location identifier and have a less than 500 annual general aviation LTOs.

TABLE 4**Calculated Connecticut Airport Summer Season Activity Fraction by County, FAA Location ID and Mapped SCC**

County	FAA Location ID	EIS Facility ID	Airport Name	SCC	SCC Short Name	Annual 2011 LTOs	Summer Season Fraction	Reference
New Haven	CT65	11316611	REED'S GAP	2275050011	General Aviation Piston	18.45	0.38	Set equal to a calculated statewide sum of summer season divided by annual general aviation LTOs for all Connecticut Airports that align to an FAA location identifier and have a less than 500 annual general aviation LTOs.
New Haven	CT65	11316611	REED'S GAP	2275050012	General Aviation Turbine	33.05	0.38	Set equal to a calculated statewide sum of summer season divided by annual general aviation LTOs for all Connecticut Airports that align to an FAA location identifier and have a less than 500 annual general aviation LTOs.
New Haven	CT84	12307311	PARTYKA CHEVROLET	2275050011	General Aviation Piston	18.45	0.38	Set equal to a calculated statewide sum of summer season divided by annual general aviation LTOs for all Connecticut Airports that align to an FAA location identifier and have a less than 500 annual general aviation LTOs.
New Haven	CT84	12307311	PARTYKA CHEVROLET	2275050012	General Aviation Turbine	33.05	0.38	Set equal to a calculated statewide sum of summer season divided by annual general aviation LTOs for all Connecticut Airports that align to an FAA location identifier and have a less than 500 annual general aviation LTOs.
New Haven	CT95	12308411	Meriden - Wallingford Hospital Heliport	2275050012	General Aviation Turbine	22	0.36	Survey data

TABLE 4
Calculated Connecticut Airport Summer Season Activity Fraction by County, FAA Location ID and Mapped SCC

County	FAA Location ID	EIS Facility ID	Airport Name	SCC	SCC Short Name	Annual 2011 LTOs	Summer Season Fraction	Reference
New Haven	HVN	9785311	Tweed-New Haven Airport	2265008005	Airport Ground Support Equipment	-	0.3	Set equal to the sum of summer season divided by the sum of annual survey LTO activity data for commercial and turbine driven air taxi aircraft at each airport
New Haven	HVN	9785311	Tweed-New Haven Airport	2267008005	Airport Ground Support Equipment	-	0.3	Set equal to the sum of summer season divided by the sum of annual survey LTO activity data for commercial and turbine driven air taxi aircraft at each airport
New Haven	HVN	9785311	Tweed-New Haven Airport	2268008005	Airport Ground Support Equipment	-	0.3	Set equal to the sum of summer season divided by the sum of annual survey LTO activity data for commercial and turbine driven air taxi aircraft at each airport
New Haven	HVN	9785311	Tweed-New Haven Airport	2270008005	Airport Ground Support Equipment	-	0.3	Set equal to the sum of summer season divided by the sum of annual survey LTO activity data for commercial and turbine driven air taxi aircraft at each airport
New Haven	HVN	9785311	Tweed-New Haven Airport	2275001000	Military Aircraft Total	155	0.26	Survey data
New Haven	HVN	9785311	Tweed-New Haven Airport	2275020000	Commercial Aircraft	4.5	0.35	Survey data
New Haven	HVN	9785311	Tweed-New Haven Airport	2275050011	General Aviation Piston	12222.7	0.30	Survey data
New Haven	HVN	9785311	Tweed-New Haven Airport	2275050012	General Aviation Turbine	4737.79	0.31	Survey data

TABLE 4**Calculated Connecticut Airport Summer Season Activity Fraction by County, FAA Location ID and Mapped SCC**

County	FAA Location ID	EIS Facility ID	Airport Name	SCC	SCC Short Name	Annual 2011 LTOs	Summer Season Fraction	Reference
New Haven	HVN	9785311	Tweed-New Haven Airport	2275060011	Air Taxi Piston	366.53	0.25	Set equal to seasonal fraction associated with turbine air taxi survey data.
New Haven	HVN	9785311	Tweed-New Haven Airport	2275060012	Air Taxi Turbine	1427	0.25	Survey data
New Haven	MMK	9785211	Meriden-Markham Municipal Airport	2275001000	Military Aircraft Total	9	0.25	Set equal to an average statewide military aircraft summer day activity factor calculated from survey data.
New Haven	MMK	9785211	Meriden-Markham Municipal Airport	2275050011	General Aviation Piston	5775.69	0.26	Survey data
New Haven	MMK	9785211	Meriden-Markham Municipal Airport	2275050012	General Aviation Turbine	2238.31	0.26	Survey data
New Haven	MMK	9785211	Meriden-Markham Municipal Airport	2275060011	Air Taxi Piston	19.65	0.26	Set equal to seasonal fraction associated with turbine air taxi survey data.
New Haven	MMK	9785211	Meriden-Markham Municipal Airport	2275060012	Air Taxi Turbine	70.35	0.26	Survey data
New Haven	OXC	9785011	Waterbury-Oxford Airport	2265008005	Airport Ground Support Equipment	-	0.27	Set equal to the sum of summer season divided by the sum of annual survey LTO activity data for commercial and turbine driven air taxi aircraft at each airport
New Haven	OXC	9785011	Waterbury-Oxford Airport	2267008005	Airport Ground Support Equipment	-	0.27	Set equal to the sum of summer season divided by the sum of annual survey LTO activity data for commercial and turbine driven air taxi aircraft at each airport

TABLE 4
Calculated Connecticut Airport Summer Season Activity Fraction by County, FAA Location ID and Mapped SCC

County	FAA Location ID	EIS Facility ID	Airport Name	SCC	SCC Short Name	Annual 2011 LTOs	Summer Season Fraction	Reference
New Haven	OXC	9785011	Waterbury-Oxford Airport	2268008005	Airport Ground Support Equipment	-	0.27	Set equal to the sum of summer season divided by the sum of annual survey LTO activity data for commercial and turbine driven air taxi aircraft at each airport
New Haven	OXC	9785011	Waterbury-Oxford Airport	2270008005	Airport Ground Support Equipment	-	0.27	Set equal to the sum of summer season divided by the sum of annual survey LTO activity data for commercial and turbine driven air taxi aircraft at each airport
New Haven	OXC	9785011	Waterbury-Oxford Airport	2275001000	Military Aircraft Total	751.5	0.18	Survey data
New Haven	OXC	9785011	Waterbury-Oxford Airport	2275020000	Commercial Aircraft	1.5	0.27	Survey data
New Haven	OXC	9785011	Waterbury-Oxford Airport	2275050011	General Aviation Piston	15371.8	0.29	Survey data
New Haven	OXC	9785011	Waterbury-Oxford Airport	2275050012	General Aviation Turbine	5957.19	0.27	Survey data
New Haven	OXC	9785011	Waterbury-Oxford Airport	2275060011	Air Taxi Piston	433.43	0.28	Set equal to seasonal fraction associated with turbine air taxi survey data.
New Haven	OXC	9785011	Waterbury-Oxford Airport	2275060012	Air Taxi Turbine	1552.07	0.28	Survey data
New Haven	OXC	9785011	Waterbury-Oxford Airport	2275070000	Aircraft Auxiliary Power Units Total	1	0.21	Set equal to a ratio of statewide summed summer day / annual commercial aircraft and turbine driven air taxi survey data

TABLE 4**Calculated Connecticut Airport Summer Season Activity Fraction by County, FAA Location ID and Mapped SCC**

County	FAA Location ID	EIS Facility ID	Airport Name	SCC	SCC Short Name	Annual 2011 LTOs	Summer Season Fraction	Reference
New London	14CT	11003211	MPTN Heliport	2275050011	General Aviation Piston	18.45	0.26	Ratio of summed summer day / annual commercial aircraft and turbine driven air taxi survey data
New London	14CT	11003211	MPTN Heliport	2275050012	General Aviation Turbine	33.05	0.27	Ratio of summed summer day / annual commercial aircraft and turbine driven air taxi survey data
New London	20CT	11043111	Global Development Facility Heliport	2275050011	General Aviation Piston	18.45	0.31	Ratio of summed summer day / annual commercial aircraft and turbine driven air taxi survey data
New London	20CT	11043111	Global Development Facility Heliport	2275050012	General Aviation Turbine	33.05	0.15	Survey data
New London	24CT	11962811	BEE FIELD	2275050011	General Aviation Piston	1	0.38	Set equal to a calculated statewide sum of summer season divided by annual general aviation LTOs for all Connecticut Airports that align to an FAA location identifier and have a less than 500 annual general aviation LTOs.
New London	5CT7	11847311	Mile Creek Airport	2275050011	General Aviation Piston	1	0.50	Survey data
New London	69CT	16081511	THE SHORE	2275050011	General Aviation Piston	18.45	0.38	Set equal to a calculated statewide sum of summer season divided by annual general aviation LTOs for all Connecticut Airports that align to an FAA location identifier and have a less than 500 annual general aviation LTOs.

TABLE 4
Calculated Connecticut Airport Summer Season Activity Fraction by County, FAA Location ID and Mapped SCC

County	FAA Location ID	EIS Facility ID	Airport Name	SCC	SCC Short Name	Annual 2011 LTOs	Summer Season Fraction	Reference
New London	69CT	16081511	THE SHORE	2275050012	General Aviation Turbine	33.05	0.38	Set equal to a calculated statewide sum of summer season divided by annual general aviation LTOs for all Connecticut Airports that align to an FAA location identifier and have a less than 500 annual general aviation LTOs.
New London	CT07	11314911	Ski's Landing Area	2275050011	General Aviation Piston	1	0.50	Survey data
New London	CT08	12289411	GARDNER LAKE	2275050011	General Aviation Piston	95.05	0.38	Set equal to a calculated statewide sum of summer season divided by annual general aviation LTOs for all Connecticut Airports that align to an FAA location identifier and have a less than 500 annual general aviation LTOs.
New London	CT16	12289711	Fetske Water Strip	2275050011	General Aviation Piston	3	1.00	Survey data
New London	CT32	11315911	Gallup Farm Airport	2275050011	General Aviation Piston	1	0.95	Survey data
New London	CT43	12304811	Spruce Airport	2275050011	General Aviation Piston	115.06	0.83	Survey data

TABLE 4**Calculated Connecticut Airport Summer Season Activity Fraction by County, FAA Location ID and Mapped SCC**

County	FAA Location ID	EIS Facility ID	Airport Name	SCC	SCC Short Name	Annual 2011 LTOs	Summer Season Fraction	Reference
New London	CT48	11316411	WYCHWOOD FIELD	2275050011	General Aviation Piston	108.39	0.38	Set equal to a calculated statewide sum of summer season divided by annual general aviation LTOs for all Connecticut Airports that align to an FAA location identifier and have a less than 500 annual general aviation LTOs.
New London	CT78	11317111	LORD CREEK	2275050011	General Aviation Piston	101.72	0.38	Set equal to a calculated statewide sum of summer season divided by annual general aviation LTOs for all Connecticut Airports that align to an FAA location identifier and have a less than 500 annual general aviation LTOs.
New London	CT80	12307011	STONINGTON AIRPARK	2275050011	General Aviation Piston	101.72	0.38	Set equal to a calculated statewide sum of summer season divided by annual general aviation LTOs for all Connecticut Airports that align to an FAA location identifier and have a less than 500 annual general aviation LTOs.
New London	CT93	12308211	Backus Hospital Heliport	2275050012	General Aviation Turbine	503	0.27	Survey data
New London	GON	9810511	Groton-New London Airport	2265008005	Airport Ground Support Equipment	-	0.31	Set equal to the sum of summer season divided by the sum of annual survey LTO activity data for commercial and turbine driven air taxi aircraft at each airport

TABLE 4
Calculated Connecticut Airport Summer Season Activity Fraction by County, FAA Location ID and Mapped SCC

County	FAA Location ID	EIS Facility ID	Airport Name	SCC	SCC Short Name	Annual 2011 LTOs	Summer Season Fraction	Reference
New London	GON	9810511	Groton-New London Airport	2267008005	Airport Ground Support Equipment	-	0.31	Set equal to the sum of summer season divided by the sum of annual survey LTO activity data for commercial and turbine driven air taxi aircraft at each airport
New London	GON	9810511	Groton-New London Airport	2268008005	Airport Ground Support Equipment	-	0.31	Set equal to the sum of summer season divided by the sum of annual survey LTO activity data for commercial and turbine driven air taxi aircraft at each airport
New London	GON	9810511	Groton-New London Airport	2270008005	Airport Ground Support Equipment	-	0.31	Set equal to the sum of summer season divided by the sum of annual survey LTO activity data for commercial and turbine driven air taxi aircraft at each airport
New London	GON	9810511	Groton-New London Airport	2275001000	Military Aircraft Total	1511	0.31	Survey data
New London	GON	9810511	Groton-New London Airport	2275020000	Commercial Aircraft	1	0.31	Survey data
New London	GON	9810511	Groton-New London Airport	2275050011	General Aviation Piston	11364	0.31	Survey data
New London	GON	9810511	Groton-New London Airport	2275050012	General Aviation Turbine	4405	0.31	Survey data
New London	GON	9810511	Groton-New London Airport	2275060011	Air Taxi Piston	145.39	0.31	Set equal to seasonal fraction associated with turbine air taxi survey data.
New London	GON	9810511	Groton-New London Airport	2275060012	Air Taxi Turbine	520.61	0.31	Survey data

TABLE 4
Calculated Connecticut Airport Summer Season Activity Fraction by County, FAA Location ID and Mapped SCC

County	FAA Location ID	EIS Facility ID	Airport Name	SCC	SCC Short Name	Annual 2011 LTOs	Summer Season Fraction	Reference
New London	GON	9810511	Groton-New London Airport	2275070000	Aircraft Auxiliary Power Units Total	3	0.21	Set equal to a ratio of statewide summed summer day / annual commercial aircraft and turbine driven air taxi survey data
Tolland	02CT	11551811	STRANGERS POINT	2275050011	General Aviation Piston	18.45	0.26	Ratio of summed summer day / annual commercial aircraft and turbine driven air taxi survey data
Tolland	02CT	11551811	STRANGERS POINT	2275050012	General Aviation Turbine	33.05	0.27	Ratio of summed summer day / annual commercial aircraft and turbine driven air taxi survey data
Tolland	7B9	11649811	Ellington Airport	2275050011	General Aviation Piston	10687.5	0.31	Ratio of summed summer day / annual commercial aircraft and turbine driven air taxi survey data
Tolland	7B9	11649811	Ellington Airport	2275050012	General Aviation Turbine	4063.82	0.3	Set equal to a summer season fraction calculated for all survey data at the airport.
Tolland	7B9	11649811	Ellington Airport	2275060011	Air Taxi Piston	2.18	0.3	Set equal to a summer season fraction calculated for all survey data at the airport.
Tolland	7B9	11649811	Ellington Airport	2275060012	Air Taxi Turbine	7.82	0.80	Survey data
Tolland	CT09	11315011	Heckler Field	2275050011	General Aviation Piston	1	0.40	Survey data
Tolland	CT15	11315411	Wysocki Airport	2275050011	General Aviation Piston	90.7	0.00	Survey data
Tolland	CT29	12290511	Valley Farms Airport	2275050011	General Aviation Piston	97.37	0.50	Survey data

TABLE 4
Calculated Connecticut Airport Summer Season Activity Fraction by County, FAA Location ID and Mapped SCC

County	FAA Location ID	EIS Facility ID	Airport Name	SCC	SCC Short Name	Annual 2011 LTOs	Summer Season Fraction	Reference
Windham	0CT2	11517411	Windham Community Memorial Hospital Heliport	2275050012	General Aviation Turbine	62	0.26	Survey data
Windham	31CT	16101611	QUIET CORNER	2275050011	General Aviation Piston	18.45	0.38	Set equal to a calculated statewide sum of summer season divided by annual general aviation LTOs for all Connecticut Airports that align to an FAA location identifier and have a less than 500 annual general aviation LTOs.
Windham	31CT	16101611	QUIET CORNER	2275050012	General Aviation Turbine	33.05	0.38	Set equal to a calculated statewide sum of summer season divided by annual general aviation LTOs for all Connecticut Airports that align to an FAA location identifier and have a less than 500 annual general aviation LTOs.
Windham	5CT6	11847211	BUELL FARM	2275050011	General Aviation Piston	149.5	0.67	Survey data
Windham	64CT	11580211	Woodstock Airport	2275050011	General Aviation Piston	196.18	0.40	Survey data
Windham	C44	11305211	Toutant Airport	2275050011	General Aviation Piston	72.07	0.40	Survey data
Windham	C44	11305211	Toutant Airport	2275050012	General Aviation Turbine	27.93	0.4	Set equal to a summer season fraction calculated for all survey data at the airport.

TABLE 4
Calculated Connecticut Airport Summer Season Activity Fraction by County, FAA Location ID and Mapped SCC

County	FAA Location ID	EIS Facility ID	Airport Name	SCC	SCC Short Name	Annual 2011 LTOs	Summer Season Fraction	Reference
Windham	CT10	12289511	FLAT ROCK FARM	2275050011	General Aviation Piston	18.45	0.38	Set equal to a calculated statewide sum of summer season divided by annual general aviation LTOs for all Connecticut Airports that align to an FAA location identifier and have a less than 500 annual general aviation LTOs.
Windham	CT10	12289511	FLAT ROCK FARM	2275050012	General Aviation Turbine	33.05	0.38	Set equal to a calculated statewide sum of summer season divided by annual general aviation LTOs for all Connecticut Airports that align to an FAA location identifier and have a less than 500 annual general aviation LTOs.
Windham	CT13	11315211	YANKEE AIRSTRIP	2275050011	General Aviation Piston	89.47	0.38	Set equal to a calculated statewide sum of summer season divided by annual general aviation LTOs for all Connecticut Airports that align to an FAA location identifier and have a less than 500 annual general aviation LTOs.
Windham	CT68	12306411	WAUREGAN	2275050011	General Aviation Piston	18.45	0.38	Set equal to a calculated statewide sum of summer season divided by annual general aviation LTOs for all Connecticut Airports that align to an FAA location identifier and have a less than 500 annual general aviation LTOs.

TABLE 4
Calculated Connecticut Airport Summer Season Activity Fraction by County, FAA Location ID and Mapped SCC

County	FAA Location ID	EIS Facility ID	Airport Name	SCC	SCC Short Name	Annual 2011 LTOs	Summer Season Fraction	Reference
Windham	CT68	12306411	WAUREGAN	2275050012	General Aviation Turbine	33.05	0.38	Set equal to a calculated statewide sum of summer season divided by annual general aviation LTOs for all Connecticut Airports that align to an FAA location identifier and have a less than 500 annual general aviation LTOs.
Windham	CT70	11316911	WILSONVILLE	2275050011	General Aviation Piston	18.45	0.38	Set equal to a calculated statewide sum of summer season divided by annual general aviation LTOs for all Connecticut Airports that align to an FAA location identifier and have a less than 500 annual general aviation LTOs.
Windham	CT70	11316911	WILSONVILLE	2275050012	General Aviation Turbine	33.05	0.38	Set equal to a calculated statewide sum of summer season divided by annual general aviation LTOs for all Connecticut Airports that align to an FAA location identifier and have a less than 500 annual general aviation LTOs.
Windham	CT74	12306711	Westford Airstrip	2275050011	General Aviation Piston	96.14	1.00	Survey data
Windham	IJD	9808111	Windham Airport	2275001000	Military Aircraft Total	12	0.25	Survey data
Windham	IJD	9808111	Windham Airport	2275050011	General Aviation Piston	7188.98	0.40	Survey data

TABLE 4
Calculated Connecticut Airport Summer Season Activity Fraction by County, FAA Location ID and Mapped SCC

County	FAA Location ID	EIS Facility ID	Airport Name	SCC	SCC Short Name	Annual 2011 LTOs	Summer Season Fraction	Reference
Windham	IJD	9808111	Windham Airport	2275050012	General Aviation Turbine	2786.02	0.25	Survey data
Windham	IJD	9808111	Windham Airport	2275060011	Air Taxi Piston	5.24	0.25	Set equal to seasonal fraction associated with turbine air taxi survey data.
Windham	IJD	9808111	Windham Airport	2275060012	Air Taxi Turbine	18.76	0.25	Survey data
Windham	LZD	9808211	Danielson	2275050011	General Aviation Piston	7927.7	0.7	Survey data; airport location ID formerly 5B3
Windham	LZD	9808211	Danielson	2275050012	General Aviation Turbine	3072.3	0.7	Set equal to piston driven general aviation survey data as this is the only available survey data; airport location ID formerly 5B3
Windham	LZD	9808211	Danielson	2275060011	Air Taxi Piston	7.86	0.7	Set equal to a summer season fraction calculated for piston driven general aviation survey data as this is the only available survey data; airport location ID formerly 5B3.
Windham	LZD	9808211	Danielson	2275060012	Air Taxi Turbine	28.14	0.7	Set equal to a summer season fraction calculated for piston driven general aviation survey data as this is the only available survey data; airport location ID formerly 5B3.

TABLE 5
Calculated Connecticut Airport Summer Emissions by County, FAA Location ID and Mapped SCC

County	FAA Location ID	EIS Facility ID	Airport Name	SCC	Annual Emissions (TPY)			Summer Day Emissions (PPD)		
					VOC	NOX	CO	VOC	NOX	CO
Fairfield	OCT7	11014011	Bridgeport Hospital Heliport	2275050012	0.011	0.005	0.153	0.038	0.018	0.533
Fairfield	OCT8	11517611	Danbury Hospital Heliport	2275050012	0.011	0.005	0.148	0.014	0.007	0.194
Fairfield	1CT0	11018911	NORDEN SYSTEMS	2275050011	0.002	0.002	0.222	0.022	0.01	1.832
Fairfield	1CT0	11018911	NORDEN SYSTEMS	2275050012	0.022	0.01	0.316	0.188	0.088	2.614
Fairfield	5CT4	11847111	Norwalk Hospital Heliport	2275050012	0.004	0.002	0.053	0.015	0.007	0.206
Fairfield	5CT8	11193811	Canal Street Heliport	2275050011	0.002	0.002	0.222	0.032	0.014	2.554
Fairfield	5CT8	11193811	Canal Street Heliport	2275050012	0.022	0.01	0.316	0.262	0.124	3.646
Fairfield	9CT1	16101711	THE TOWERS	2275050011	0.002	0.002	0.222	0.022	0.01	1.832
Fairfield	9CT1	16101711	THE TOWERS	2275050012	0.022	0.01	0.316	0.188	0.088	2.614
Fairfield	BDR	9795811	Igor I. Sikorsky Memorial Airport	2265008005	0	0.011	0.066	0.011	0.034	0.315
Fairfield	BDR	9795811	Igor I. Sikorsky Memorial Airport	2267008005	0	0	0.011	0	0	0.032
Fairfield	BDR	9795811	Igor I. Sikorsky Memorial Airport	2268008005	0	0	0	0	0	0.024
Fairfield	BDR	9795811	Igor I. Sikorsky Memorial Airport	2270008005	0.011	0.033	0.308	0.049	0.152	1.506
Fairfield	BDR	9795811	Igor I. Sikorsky Memorial Airport	2275001000	1.551	0.176	30.789	7.706	0.858	152.726
Fairfield	BDR	9795811	Igor I. Sikorsky Memorial Airport	2275020000	0.011	0.066	0.121	0.043	0.337	0.611
Fairfield	BDR	9795811	Igor I. Sikorsky Memorial Airport	2275050011	18.656	8.063	1489.818	92.559	39.982	7390.204
Fairfield	BDR	9795811	Igor I. Sikorsky Memorial Airport	2275050012	33.132	15.554	460.251	164.367	77.177	2283.052
Fairfield	BDR	9795811	Igor I. Sikorsky Memorial Airport	2275060011	0.165	0.154	28.138	0.84	0.785	139.556
Fairfield	BDR	9795811	Igor I. Sikorsky Memorial Airport	2275060012	3.619	2.915	13.189	17.926	14.46	65.442
Fairfield	BDR	9795811	Igor I. Sikorsky Memorial Airport	2275070000	0	0.011	0	0	0.035	0.015
Fairfield	CT12	11315111	St Vincent's Medical Center Heliport	2275050012	0.004	0.002	0.057	0.023	0.011	0.325
Fairfield	CT37	12291011	Sikorsky Bridgeport Heliport	2275050011	0.002	0.002	0.222	0.017	0.008	1.398
Fairfield	CT37	12291011	Sikorsky Bridgeport Heliport	2275050012	0.022	0.01	0.316	0.144	0.067	1.996
Fairfield	CT41	11316111	General Electric Co. Heliport	2275050011	0.002	0.002	0.222	0.017	0.008	1.422
Fairfield	CT41	11316111	General Electric Co. Heliport	2275050012	0.022	0.01	0.316	0.146	0.068	2.029
Fairfield	CT52	12305511	Flying Ridge Airstrip	2275050011	0.009	0.004	0.749	0.102	0.044	8.145

TABLE 5
Calculated Connecticut Airport Summer Emissions by County, FAA Location ID and Mapped SCC

County	FAA Location ID	EIS Facility ID	Airport Name	SCC	Annual Emissions (TPY)			Summer Day Emissions (PPD)		
					VOC	NOX	CO	VOC	NOX	CO
Fairfield	CT89	12307811	ITT	2275050011	0.002	0.002	0.222	0.022	0.01	1.832
Fairfield	CT89	12307811	ITT	2275050012	0.022	0.01	0.316	0.188	0.088	2.614
Fairfield	CT91	12308011	USSC Heliport	2275050011	0.002	0.002	0.222	0.06	0.026	4.818
Fairfield	CT91	12308011	USSC Heliport	2275050012	0.022	0.01	0.316	0.496	0.232	6.88
Fairfield	DXR	9795711	Danbury Municipal Airport	2265008005	0	0	0.04	0.01	0.02	0.261
Fairfield	DXR	9795711	Danbury Municipal Airport	2267008005	0	0	0	0	0	0.03
Fairfield	DXR	9795711	Danbury Municipal Airport	2268008005	0	0	0	0	0	0.02
Fairfield	DXR	9795711	Danbury Municipal Airport	2270008005	0.01	0.02	0.2	0.04	0.11	1.235
Fairfield	DXR	9795711	Danbury Municipal Airport	2275001000	1.61	0.18	31.93	9.835	1.094	195.034
Fairfield	DXR	9795711	Danbury Municipal Airport	2275020000	0.03	0.09	0.11	0.19	0.572	0.683
Fairfield	DXR	9795711	Danbury Municipal Airport	2275050011	17.36	7.5	1385.83	106.028	45.803	8465.616
Fairfield	DXR	9795711	Danbury Municipal Airport	2275050012	30.82	14.47	428.12	188.281	88.405	2615.277
Fairfield	DXR	9795711	Danbury Municipal Airport	2275060011	0.3	0.28	49.28	1.816	1.686	301.032
Fairfield	DXR	9795711	Danbury Municipal Airport	2275060012	6.32	4.96	22.83	38.607	30.317	139.487
Fairfield	JSD	12395011	Sikorsky Helipad	2275050012	0.997	0.468	13.853	5.637	2.647	78.3
Hartford	01CT	10937011	BERLIN FAIRGROUNDS	2275050011	0.002	0.002	0.222	0.022	0.01	1.832
Hartford	01CT	10937011	BERLIN FAIRGROUNDS	2275050012	0.022	0.01	0.316	0.188	0.088	2.614
Hartford	0CT3	11013811	N B G H Heliport	2275050012	0.002	0.001	0.034	0	0	0
Hartford	0CT5	11517511	St. Francis Hospital Heliport	2275050012	0.03	0.014	0.412	0.122	0.057	1.701
Hartford	0CT9	11517711	Hartford Hospital Helipad	2275050012	0.567	0.266	7.882	3.577	1.68	49.69
Hartford	23CT	11949311	Blanchette Heliport	2275050011	0.002	0.002	0.222	0.046	0.02	3.614
Hartford	23CT	11949311	Blanchette Heliport	2275050012	0.022	0.01	0.316	0.372	0.174	5.16
Hartford	4B8	9792611	Robertson Field	2265008005	0	0	0.036	0.009	0.018	0.176
Hartford	4B8	9792611	Robertson Field	2267008005	0	0	0	0	0	0.018
Hartford	4B8	9792611	Robertson Field	2268008005	0	0	0	0	0	0.01
Hartford	4B8	9792611	Robertson Field	2270008005	0.009	0.009	0.153	0.028	0.074	0.85
Hartford	4B8	9792611	Robertson Field	2275001000	0.18	0.018	3.483	0.979	0.111	19.423

TABLE 5
Calculated Connecticut Airport Summer Emissions by County, FAA Location ID and Mapped SCC

County	FAA Location ID	EIS Facility ID	Airport Name	SCC	Annual Emissions (TPY)			Summer Day Emissions (PPD)		
					VOC	NOX	CO	VOC	NOX	CO
Hartford	4B8	9792611	Robertson Field	2275050011	14.022	6.057	1119.708	78.253	33.8	6247.645
Hartford	4B8	9792611	Robertson Field	2275050012	24.903	11.691	345.906	138.951	65.244	1930.07
Hartford	4B8	9792611	Robertson Field	2275060011	0.135	0.126	23.076	0.776	0.721	128.75
Hartford	4B8	9792611	Robertson Field	2275060012	2.979	2.358	10.809	16.614	13.149	60.337
Hartford	4B9	9792511	Simsbury Tri-Town Airport	2265008005	0	0	0	0	0	0
Hartford	4B9	9792511	Simsbury Tri-Town Airport	2267008005	0	0	0	0	0	0
Hartford	4B9	9792511	Simsbury Tri-Town Airport	2268008005	0	0	0	0	0	0
Hartford	4B9	9792511	Simsbury Tri-Town Airport	2270008005	0	0	0	0	0.008	0
Hartford	4B9	9792511	Simsbury Tri-Town Airport	2275050011	2.752	1.192	219.928	22.16	9.568	1768.968
Hartford	4B9	9792511	Simsbury Tri-Town Airport	2275050012	4.888	2.296	67.944	39.344	18.472	546.488
Hartford	4B9	9792511	Simsbury Tri-Town Airport	2275060011	0.008	0.008	0.92	0.048	0.04	7.416
Hartford	4B9	9792511	Simsbury Tri-Town Airport	2275060012	0.12	0.096	0.432	0.96	0.752	3.496
Hartford	5CT3	11193611	SOUTH GLASTONBURY	2275050011	0.002	0.002	0.222	0.022	0.01	1.832
Hartford	5CT3	11193611	SOUTH GLASTONBURY	2275050012	0.022	0.01	0.316	0.188	0.088	2.614
Hartford	7B6	11649711	Skylark's Air Park	2275050011	1.824	0.788	145.572	19.82	8.56	1582.296
Hartford	7B6	11649711	Skylark's Air Park	2275050012	3.236	1.52	44.936	35.164	16.512	488.452
Hartford	7B6	11649711	Skylark's Air Park	2275060011	0.004	0.004	0.616	0.04	0.036	6.676
Hartford	7B6	11649711	Skylark's Air Park	2275060012	0.08	0.06	0.284	0.856	0.66	3.068
Hartford	9B8	11285611	Salmon River Airfield	2275050011	0.044	0.018	3.466	0.614	0.264	48.976
Hartford	9B8	11285611	Salmon River Airfield	2275050012	0.078	0.036	1.07	1.088	0.512	15.118
Hartford	BDL	9792411	Bradley International Airport	2265008005	17.897	54.439	532.598	100.448	305.573	2989.307
Hartford	BDL	9792411	Bradley International Airport	2267008005	1.76	5.346	52.316	9.865	30.016	293.645
Hartford	BDL	9792411	Bradley International Airport	2268008005	1.386	4.224	41.371	7.8	23.737	232.213
Hartford	BDL	9792411	Bradley International Airport	2270008005	85.085	258.863	2532.321	477.569	1452.889	14213.03
Hartford	BDL	9792411	Bradley International Airport	2275001000	14.168	1.573	280.808	79.509	8.849	1576.078
Hartford	BDL	9792411	Bradley International Airport	2275020000	505.956	4117.157	4123.097	2839.737	23108.183	23141.498
Hartford	BDL	9792411	Bradley International Airport	2275050011	4.917	2.123	392.48	27.591	11.917	2202.823

TABLE 5
Calculated Connecticut Airport Summer Emissions by County, FAA Location ID and Mapped SCC

County	FAA Location ID	EIS Facility ID	Airport Name	SCC	Annual Emissions (TPY)			Summer Day Emissions (PPD)		
					VOC	NOX	CO	VOC	NOX	CO
Hartford	BDL	9792411	Bradley International Airport	2275050012	8.778	4.136	121.396	49.252	23.223	681.349
Hartford	BDL	9792411	Bradley International Airport	2275060011	3.201	2.948	523.699	17.937	16.525	2939.368
Hartford	BDL	9792411	Bradley International Airport	2275060012	111.573	83.644	435.424	626.231	469.441	2443.854
Hartford	BDL	9792411	Bradley International Airport	2275070000	11.847	113.674	154.44	66.522	638.005	866.791
Hartford	CT00	11314711	ELECTRO-METHODS INC	2275050011	0.002	0.002	0.222	0.016	0.007	1.277
Hartford	CT00	11314711	ELECTRO-METHODS INC	2275050012	0.022	0.01	0.316	0.131	0.061	1.824
Hartford	CT02	12289111	Clark Hill Heliport	2275050011	0.002	0.002	0.222	0.039	0.017	3.156
Hartford	CT02	12289111	Clark Hill Heliport	2275050012	0.022	0.01	0.316	0.325	0.152	4.507
Hartford	CT03	12289211	Bristol Hospital Heliport	2275050012	0.004	0.002	0.057	0.038	0.018	0.525
Hartford	CT05	12289311	KAMAN AEROSPACE CORP	2275050011	0.002	0.002	0.222	0.014	0.006	1.108
Hartford	CT05	12289311	KAMAN AEROSPACE CORP	2275050012	0.022	0.01	0.316	0.114	0.054	1.582
Hartford	CT14	11315311	Bancroft Airport	2275050011	0.009	0.004	0.704	0.096	0.041	7.656
Hartford	CT18	12289811	STATE EMERGENCY	2275050011	0.002	0.002	0.222	0.022	0.01	1.832
Hartford	CT18	12289811	STATE EMERGENCY	2275050012	0.022	0.01	0.316	0.188	0.088	2.614
Hartford	CT19	11315611	Laurie Field	2275050011	0.009	0.004	0.744	0.111	0.048	8.9
Hartford	CT27	12290311	TENNESSEE F	2275050011	0.002	0.002	0.222	0.022	0.01	1.832
Hartford	CT27	12290311	TENNESSEE F	2275050012	0.022	0.01	0.316	0.188	0.088	2.614
Hartford	CT28	12290411	VETERANS HOME & HOSPITAL	2275050012	0.001	0.001	0.019	0.011	0.005	0.158
Hartford	CT35	12290811	HAMILTON STANDARD	2275050011	0.002	0.002	0.222	0.022	0.01	1.832
Hartford	CT35	12290811	HAMILTON STANDARD	2275050012	0.022	0.01	0.316	0.188	0.088	2.614
Hartford	CT49	12305211	PLAINVILLE	2275050011	0.002	0.002	0.222	0.022	0.01	1.832
Hartford	CT49	12305211	PLAINVILLE	2275050012	0.022	0.01	0.316	0.188	0.088	2.614
Hartford	CT50	12305311	MARKS	2275050011	0.002	0.002	0.222	0.022	0.01	1.832
Hartford	CT50	12305311	MARKS	2275050012	0.022	0.01	0.316	0.188	0.088	2.614
Hartford	CT60	12306211	Ultimate Heliport	2275050011	0.002	0.002	0.222	0.03	0.014	2.41
Hartford	CT60	12306211	Ultimate Heliport	2275050012	0.022	0.01	0.316	0.248	0.116	3.44
Hartford	CT62	12306311	TWIN MANUFACTURING	2275050011	0.002	0.002	0.222	0.022	0.01	1.832

TABLE 5
Calculated Connecticut Airport Summer Emissions by County, FAA Location ID and Mapped SCC

County	FAA Location ID	EIS Facility ID	Airport Name	SCC	Annual Emissions (TPY)			Summer Day Emissions (PPD)		
					VOC	NOX	CO	VOC	NOX	CO
			COMPANY							
Hartford	CT62	12306311	TWIN MANUFACTURING COMPANY	2275050012	0.022	0.01	0.316	0.188	0.088	2.614
Hartford	CT71	12306511	Otis Elevator Co. Heliport	2275050011	0.002	0.002	0.222	0.012	0.006	0.964
Hartford	CT71	12306511	Otis Elevator Co. Heliport	2275050012	0.022	0.01	0.316	0.1	0.046	1.376
Hartford	CT73	12306611	South Meadows Heliport	2275050011	0.002	0.002	0.222	0.01	0.004	0.868
Hartford	CT73	12306611	South Meadows Heliport	2275050012	0.022	0.01	0.316	0.09	0.042	1.238
Hartford	CT75	12306811	UCONN Med Hurlbrink Heliport	2275050012	0.007	0.003	0.096	0.016	0.008	0.229
Hartford	CT85	12307411	Roberts Farm Airport	2275050011	0.011	0.005	0.905	0.148	0.064	11.8
Hartford	CT87	12307611	BOOTLEGGERS	2275050011	0	0	0.006	0.001	0	0.05
Hartford	CT88	12307711	Rentschler Heliport	2275050011	0.002	0.002	0.222	0.016	0.008	1.302
Hartford	CT88	12307711	Rentschler Heliport	2275050012	0.022	0.01	0.316	0.134	0.062	1.858
Hartford	CT96	12308511	GREEN ACRES	2275050011	0.009	0.004	0.704	0.044	0.019	3.522
Hartford	HFD	9792311	Hartford-Brainard Airport	2265008005	0	0	0.027	0.009	0.024	0.216
Hartford	HFD	9792311	Hartford-Brainard Airport	2267008005	0	0	0	0	0	0.022
Hartford	HFD	9792311	Hartford-Brainard Airport	2268008005	0	0	0	0	0	0.015
Hartford	HFD	9792311	Hartford-Brainard Airport	2270008005	0	0.009	0.126	0.037	0.106	1.016
Hartford	HFD	9792311	Hartford-Brainard Airport	2275001000	0.333	0.036	6.579	2.769	0.308	54.855
Hartford	HFD	9792311	Hartford-Brainard Airport	2275050011	14.553	6.282	1161.666	121.248	52.375	9680.551
Hartford	HFD	9792311	Hartford-Brainard Airport	2275050012	25.839	12.132	358.875	215.304	101.096	2990.609
Hartford	HFD	9792311	Hartford-Brainard Airport	2275060011	0.378	0.297	52.596	3.15	2.495	438.336
Hartford	HFD	9792311	Hartford-Brainard Airport	2275060012	6.75	5.256	24.327	56.25	43.768	202.752
Litchfield	04CT	10946911	Shingle Mill Heliport	2275050011	0.002	0.002	0.222	0.018	0.008	1.446
Litchfield	04CT	10946911	Shingle Mill Heliport	2275050012	0.022	0.01	0.316	0.148	0.07	2.064
Litchfield	05CT	11563311	O AND G	2275050011	0.002	0.002	0.222	0.022	0.01	1.832
Litchfield	05CT	11563311	O AND G	2275050012	0.022	0.01	0.316	0.188	0.088	2.614
Litchfield	08CT	10958911	Seavair's Landing Airport	2275050011	0	0	0.006	0.001	0	0.069

TABLE 5
Calculated Connecticut Airport Summer Emissions by County, FAA Location ID and Mapped SCC

County	FAA Location ID	EIS Facility ID	Airport Name	SCC	Annual Emissions (TPY)			Summer Day Emissions (PPD)		
					VOC	NOX	CO	VOC	NOX	CO
Litchfield	OCT0	11517211	Sharon Hospital Heliport	2275050012	0.01	0.005	0.134	0.061	0.029	0.845
Litchfield	11N	10995811	Candlelight Farms Airport	2275050011	0.596	0.258	47.622	9.141	3.948	729.853
Litchfield	11N	10995811	Candlelight Farms Airport	2275050012	1.06	0.498	14.712	16.233	7.622	225.473
Litchfield	33CT	11116611	IRISH HILLS FARMS	2275050011	0	0	0.006	0.001	0	0.05
Litchfield	5CT5	11193711	THOMSON FIELD	2275050011	0	0	0.006	0.001	0	0.05
Litchfield	6Y2	11778911	Candlelight Farms Heliport	2275050011	0.002	0	0.13	0.022	0.01	1.824
Litchfield	6Y2	11778911	Candlelight Farms Heliport	2275050012	0.014	0.006	0.184	0.188	0.088	2.606
Litchfield	CT01	12289011	Whelan Farms Airport	2275050011	0.01	0.005	0.833	0.086	0.037	6.884
Litchfield	CT24	11315811	North Canaan Airport	2275050011	0.232	0.1	18.502	2.518	1.088	201.104
Litchfield	CT24	11315811	North Canaan Airport	2275050012	0.18	0.084	2.49	1.948	0.914	27.066
Litchfield	CT42	11316211	Wings Ago Airstrip	2275050011	0.007	0.003	0.593	0.161	0.07	12.889
Litchfield	CT51	12305411	Docktors Field	2275050011	0.007	0.003	0.553	0.151	0.065	12.018
Litchfield	CT59	12306111	Good Hill Farm	2275050011	0.008	0.004	0.673	0.086	0.037	6.877
Litchfield	CT66	11316711	Long View Landing Airport	2275050011	0.008	0.003	0.633	0.045	0.019	3.578
Litchfield	N09	12469211	NORTHFIELD	2275050011	0.002	0.002	0.222	0.022	0.01	1.832
Litchfield	N09	12469211	NORTHFIELD	2275050012	0.022	0.01	0.316	0.188	0.088	2.614
Litchfield	N41	12470011	Waterbury-Plymouth Airport	2275050011	0.736	0.318	58.832	6.648	2.872	530.758
Litchfield	N41	12470011	Waterbury-Plymouth Airport	2275050012	1.528	0.718	21.212	13.778	6.469	191.365
Middlesex	OCT6	11013911	Aetna @ Middletown Heliport	2275050011	0.002	0.002	0.222	0.042	0.018	3.374
Middlesex	OCT6	11013911	Aetna @ Middletown Heliport	2275050012	0.022	0.01	0.316	0.346	0.162	4.816
Middlesex	42B	11146011	Goodspeed Airport & Seaplane Base	2275050011	0.672	0.292	53.724	5.852	2.528	467.156
Middlesex	42B	11146011	Goodspeed Airport & Seaplane Base	2275050012	1.192	0.56	16.584	10.384	4.876	144.208
Middlesex	42B	11146011	Goodspeed Airport & Seaplane Base	2275060011	0	0	0.184	0.008	0.008	1.6
Middlesex	42B	11146011	Goodspeed Airport & Seaplane	2275060012	0.024	0.02	0.084	0.204	0.16	0.736

TABLE 5
Calculated Connecticut Airport Summer Emissions by County, FAA Location ID and Mapped SCC

County	FAA Location ID	EIS Facility ID	Airport Name	SCC	Annual Emissions (TPY)			Summer Day Emissions (PPD)		
					VOC	NOX	CO	VOC	NOX	CO
			Base							
Middlesex	CT11	12289611	Devil's Hopyard Field	2275050011	0.007	0.003	0.588	0.112	0.048	8.943
Middlesex	CT39	12291111	Maplewood Farm Airport	2275050011	0.008	0.003	0.628	0.085	0.037	6.823
Middlesex	CT57	12305911	OLD SAYBROOK	2275050011	0.002	0.002	0.222	0.022	0.01	1.832
Middlesex	CT57	12305911	OLD SAYBROOK	2275050012	0.022	0.01	0.316	0.188	0.088	2.614
Middlesex	CT58	12306011	PORTLAND	2275050011	0.002	0.002	0.222	0.022	0.01	1.832
Middlesex	CT58	12306011	PORTLAND	2275050012	0.022	0.01	0.316	0.188	0.088	2.614
Middlesex	CT86	12307511	SANFORD	2275050011	0.002	0.002	0.222	0.022	0.01	1.832
Middlesex	CT86	12307511	SANFORD	2275050012	0.022	0.01	0.316	0.188	0.088	2.614
Middlesex	CT92	12308111	Bemer Heliport	2275050011	0.002	0.002	0.222	0.06	0.026	4.818
Middlesex	CT92	12308111	Bemer Heliport	2275050012	0.022	0.01	0.316	0.496	0.232	6.88
Middlesex	CT97	12308611	Middlesex Medical Center Shoreline	2275050012	0.013	0.006	0.177	0.067	0.031	0.924
Middlesex	CT98	12308711	Middlesex Hospital	2275050012	0.01	0.005	0.144	0.09	0.042	1.249
Middlesex	SNC	9790011	Chester	2275050011	0.362	0.156	28.954	2.799	1.209	223.448
Middlesex	SNC	9790011	Chester	2275050012	0.138	0.064	1.916	1.065	0.5	14.782
New Haven	OCT1	11517311	Bristol-Myers Squibb Co. Heliport	2275050011	0.002	0.002	0.222	0.024	0.01	1.88
New Haven	OCT1	11517311	Bristol-Myers Squibb Co. Heliport	2275050012	0.022	0.01	0.316	0.194	0.09	2.684
New Haven	1CT2	11019011	Yale-New Haven Hospital	2275050012	0.085	0.04	1.188	0.446	0.209	6.196
New Haven	1CT3	11019111	St. Mary's Hospital Heliport	2275050012	0.007	0.003	0.091	0.067	0.031	0.93
New Haven	4C3	11160811	Hummingbird Heliport	2275050011	0.002	0	0.108	0.008	0.004	0.656
New Haven	4C3	11160811	Hummingbird Heliport	2275050012	0.012	0.006	0.154	0.068	0.032	0.936

TABLE 5
Calculated Connecticut Airport Summer Emissions by County, FAA Location ID and Mapped SCC

County	FAA Location ID	EIS Facility ID	Airport Name	SCC	Annual Emissions (TPY)			Summer Day Emissions (PPD)		
					VOC	NOX	CO	VOC	NOX	CO
New Haven	5CT1	11847011	RONDO	2275050011	0.002	0.002	0.222	0.022	0.01	1.832
New Haven	5CT1	11847011	RONDO	2275050012	0.022	0.01	0.316	0.188	0.088	2.614
New Haven	CT34	12290711	U.S. Surgical Rooftop Heliport	2275050011	0.002	0.002	0.222	0.06	0.026	4.818
New Haven	CT34	12290711	U.S. Surgical Rooftop Heliport	2275050012	0.022	0.01	0.316	0.496	0.232	6.88
New Haven	CT40	12291211	BOB THOMAS FORD	2275050011	0.002	0.002	0.222	0.022	0.01	1.832
New Haven	CT40	12291211	BOB THOMAS FORD	2275050012	0.022	0.01	0.316	0.188	0.088	2.614
New Haven	CT45	12305011	TIMEX	2275050011	0.002	0.002	0.222	0.022	0.01	1.832
New Haven	CT45	12305011	TIMEX	2275050012	0.022	0.01	0.316	0.188	0.088	2.614
New Haven	CT46	11316311	MILFORD-ALEXANDER	2275050011	0.002	0.002	0.222	0.022	0.01	1.832
New Haven	CT46	11316311	MILFORD-ALEXANDER	2275050012	0.022	0.01	0.316	0.188	0.088	2.614
New Haven	CT54	12305711	NORTH BRANFORD	2275050011	0.002	0.002	0.222	0.022	0.01	1.832
New Haven	CT54	12305711	NORTH BRANFORD	2275050012	0.022	0.01	0.316	0.188	0.088	2.614
New Haven	CT55	12305811	NORTH HAVEN	2275050011	0.002	0.002	0.222	0.022	0.01	1.832
New Haven	CT55	12305811	NORTH HAVEN	2275050012	0.022	0.01	0.316	0.188	0.088	2.614
New	CT65	11316611	REED'S GAP	2275050011	0.002	0.002	0.222	0.022	0.01	1.832

TABLE 5
Calculated Connecticut Airport Summer Emissions by County, FAA Location ID and Mapped SCC

County	FAA Location ID	EIS Facility ID	Airport Name	SCC	Annual Emissions (TPY)			Summer Day Emissions (PPD)		
					VOC	NOX	CO	VOC	NOX	CO
Haven										
New Haven	CT65	11316611	REED'S GAP	2275050012	0.022	0.01	0.316	0.188	0.088	2.614
New Haven	CT84	12307311	PARTYKA CHEVROLET	2275050011	0.002	0.002	0.222	0.022	0.01	1.832
New Haven	CT84	12307311	PARTYKA CHEVROLET	2275050012	0.022	0.01	0.316	0.188	0.088	2.614
New Haven	CT95	12308411	Meriden - Wallingford Hospital Heliport	2275050012	0.008	0.004	0.105	0.059	0.028	0.824
New Haven	HVN	9785311	Tweed-New Haven Airport	2265008005	0.22	0.87	6.03	1.402	5.53	38.299
New Haven	HVN	9785311	Tweed-New Haven Airport	2267008005	0.02	0.09	0.59	0.138	0.545	3.764
New Haven	HVN	9785311	Tweed-New Haven Airport	2268008005	0.02	0.07	0.47	0.108	0.429	2.978
New Haven	HVN	9785311	Tweed-New Haven Airport	2270008005	1.05	4.14	28.69	6.668	26.3	182.09
New Haven	HVN	9785311	Tweed-New Haven Airport	2275001000	1.1	0.12	21.8	6.981	0.779	138.388
New Haven	HVN	9785311	Tweed-New Haven Airport	2275020000	0.14	0.42	0.5	0.877	2.655	3.195
New Haven	HVN	9785311	Tweed-New Haven Airport	2275050011	9.2	3.97	734.22	58.373	25.217	4660.69
New Haven	HVN	9785311	Tweed-New Haven Airport	2275050012	16.34	7.69	226.92	103.74	48.842	1440.456
New Haven	HVN	9785311	Tweed-New Haven Airport	2275060011	0.31	0.29	51.55	1.976	1.838	327.246
New Haven	HVN	9785311	Tweed-New Haven Airport	2275060012	0.2	20.17	58.92	1.284	128.03	374.025

TABLE 5
Calculated Connecticut Airport Summer Emissions by County, FAA Location ID and Mapped SCC

County	FAA Location ID	EIS Facility ID	Airport Name	SCC	Annual Emissions (TPY)			Summer Day Emissions (PPD)		
					VOC	NOX	CO	VOC	NOX	CO
New Haven	MMK	9785211	Meriden-Markham Municipal Airport	2275001000	0.03	0.005	0.635	0.179	0.02	3.548
New Haven	MMK	9785211	Meriden-Markham Municipal Airport	2275050011	2.175	0.94	173.475	12.186	5.264	972.958
New Haven	MMK	9785211	Meriden-Markham Municipal Airport	2275050012	3.86	1.81	53.59	21.638	10.161	300.575
New Haven	MMK	9785211	Meriden-Markham Municipal Airport	2275060011	0.01	0.01	1.38	0.045	0.044	7.75
New Haven	MMK	9785211	Meriden-Markham Municipal Airport	2275060012	0.175	0.135	0.635	0.992	0.764	3.562
New Haven	OXC	9785011	Waterbury-Oxford Airport	2265008005	0.011	0.022	0.242	0.045	0.126	1.377
New Haven	OXC	9785011	Waterbury-Oxford Airport	2267008005	0	0	0.022	0	0.011	0.137
New Haven	OXC	9785011	Waterbury-Oxford Airport	2268008005	0	0	0.022	0	0.011	0.106
New Haven	OXC	9785011	Waterbury-Oxford Airport	2270008005	0.044	0.099	1.155	0.222	0.584	6.537
New Haven	OXC	9785011	Waterbury-Oxford Airport	2275001000	5.863	0.649	116.27	33.155	3.687	657.165
New Haven	OXC	9785011	Waterbury-Oxford Airport	2275020000	0.055	0.154	0.187	0.286	0.869	1.047
New Haven	OXC	9785011	Waterbury-Oxford Airport	2275050011	12.727	5.5	1015.729	71.905	31.06	5741.046
New Haven	OXC	9785011	Waterbury-Oxford Airport	2275050012	22.594	10.604	313.786	127.685	59.954	1773.572
New Haven	OXC	9785011	Waterbury-Oxford Airport	2275060011	0.407	0.374	67.056	2.288	2.128	379.024
New	OXC	9785011	Waterbury-Oxford Airport	2275060012	8.734	7.117	32.142	49.37	40.22	181.683

TABLE 5
Calculated Connecticut Airport Summer Emissions by County, FAA Location ID and Mapped SCC

County	FAA Location ID	EIS Facility ID	Airport Name	SCC	Annual Emissions (TPY)			Summer Day Emissions (PPD)		
					VOC	NOX	CO	VOC	NOX	CO
Haven										
New Haven	OXC	9785011	Waterbury-Oxford Airport	2275070000	0	0	0	0	0.011	0.011
New London	14CT	11003211	MPTN Heliport	2275050011	0.002	0.002	0.222	0.016	0.007	1.277
New London	14CT	11003211	MPTN Heliport	2275050012	0.022	0.01	0.316	0.131	0.061	1.824
New London	20CT	11043111	Global Development Facility Heliport	2275050011	0.002	0.002	0.222	0.014	0.006	1.108
New London	20CT	11043111	Global Development Facility Heliport	2275050012	0.022	0.01	0.316	0.114	0.053	1.583
New London	24CT	11962811	BEE FIELD	2275050011	0	0	0.006	0.001	0	0.05
New London	5CT7	11847311	Mile Creek Airport	2275050011	0	0	0.006	0.001	0	0.065
New London	69CT	16081511	THE SHORE	2275050011	0.002	0.002	0.222	0.022	0.01	1.832
New London	69CT	16081511	THE SHORE	2275050012	0.022	0.01	0.316	0.188	0.088	2.614
New London	CT07	11314911	Ski's Landing Area	2275050011	0	0	0.006	0.001	0	0.065
New London	CT08	12289411	GARDNER LAKE	2275050011	0.007	0.003	0.571	0.059	0.026	4.717
New London	CT16	12289711	Fetske Water Strip	2275050011	0	0	0.018	0.005	0.002	0.392
New London	CT32	11315911	Gallup Farm Airport	2275050011	0	0	0.006	0.002	0.001	0.124
New London	CT43	12304811	Spruce Airport	2275050011	0.009	0.004	0.691	0.156	0.067	12.471

TABLE 5
Calculated Connecticut Airport Summer Emissions by County, FAA Location ID and Mapped SCC

County	FAA Location ID	EIS Facility ID	Airport Name	SCC	Annual Emissions (TPY)			Summer Day Emissions (PPD)		
					VOC	NOX	CO	VOC	NOX	CO
New London	CT48	11316411	WYCHWOOD FIELD	2275050011	0.008	0.004	0.651	0.067	0.029	5.379
New London	CT78	11317111	LORD CREEK	2275050011	0.008	0.003	0.611	0.063	0.027	5.048
New London	CT80	12307011	STONINGTON AIRPARK	2275050011	0.008	0.003	0.611	0.063	0.027	5.048
New London	CT93	12308211	Backus Hospital Heliport	2275050012	0.173	0.081	2.409	1.018	0.478	14.138
New London	GON	9810511	Groton-New London Airport	2265008005	0	0	0.033	0.011	0.022	0.246
New London	GON	9810511	Groton-New London Airport	2267008005	0	0	0	0	0	0.022
New London	GON	9810511	Groton-New London Airport	2268008005	0	0	0	0	0	0.021
New London	GON	9810511	Groton-New London Airport	2270008005	0.011	0.022	0.187	0.043	0.128	1.186
New London	GON	9810511	Groton-New London Airport	2275001000	11.792	1.309	233.772	77.145	8.585	1529.231
New London	GON	9810511	Groton-New London Airport	2275020000	0.022	0.044	0.132	0.16	0.278	0.843
New London	GON	9810511	Groton-New London Airport	2275050011	9.405	4.059	750.904	61.523	26.576	4912.008
New London	GON	9810511	Groton-New London Airport	2275050012	16.72	7.865	232.067	109.358	51.422	1518.073
New London	GON	9810511	Groton-New London Airport	2275060011	0.132	0.121	22.495	0.886	0.822	147.145
New London	GON	9810511	Groton-New London Airport	2275060012	2.871	2.255	10.406	18.749	14.767	68.079
New	GON	9810511	Groton-New London Airport	2275070000	0	0	0.011	0	0.032	0.096

TABLE 5
Calculated Connecticut Airport Summer Emissions by County, FAA Location ID and Mapped SCC

County	FAA Location ID	EIS Facility ID	Airport Name	SCC	Annual Emissions (TPY)			Summer Day Emissions (PPD)		
					VOC	NOX	CO	VOC	NOX	CO
London										
Tolland	02CT	11551811	STRANGERS POINT	2275050011	0.002	0.002	0.222	0.016	0.007	1.277
Tolland	02CT	11551811	STRANGERS POINT	2275050012	0.022	0.01	0.316	0.131	0.061	1.824
Tolland	7B9	11649811	Ellington Airport	2275050011	3.216	1.388	256.8	29.891	12.912	2386.557
Tolland	7B9	11649811	Ellington Airport	2275050012	5.604	2.632	77.84	52.08	24.453	723.389
Tolland	7B9	11649811	Ellington Airport	2275060011	0	0	0.124	0.006	0.006	1.14
Tolland	7B9	11649811	Ellington Airport	2275060012	0.016	0.012	0.056	0.147	0.113	0.525
Tolland	CT09	11315011	Heckler Field	2275050011	0	0	0.006	0.001	0	0.052
Tolland	CT15	11315411	Wysocki Airport	2275050011	0.007	0.003	0.545	0	0	0
Tolland	CT29	12290511	Valley Farms Airport	2275050011	0.007	0.003	0.585	0.08	0.034	6.358
Windham	0CT2	11517411	Windham Community Memorial Hospital Heliport	2275050012	0.021	0.01	0.297	0.121	0.057	1.678
Windham	31CT	16101611	QUIET CORNER	2275050011	0.002	0.002	0.222	0.022	0.01	1.832
Windham	31CT	16101611	QUIET CORNER	2275050012	0.022	0.01	0.316	0.188	0.088	2.614
Windham	5CT6	11847211	BUELL FARM	2275050011	0.011	0.005	0.898	0.164	0.071	13.08
Windham	64CT	11580211	Woodstock Airport	2275050011	0.015	0.006	1.178	0.128	0.055	10.247
Windham	C44	11305211	Toutant Airport	2275050011	0.01	0.004	0.866	0.094	0.04	7.53
Windham	C44	11305211	Toutant Airport	2275050012	0.02	0.01	0.268	0.168	0.078	2.326
Windham	CT10	12289511	FLAT ROCK FARM	2275050011	0.002	0.002	0.222	0.022	0.01	1.832
Windham	CT10	12289511	FLAT ROCK FARM	2275050012	0.022	0.01	0.316	0.188	0.088	2.614
Windham	CT13	11315211	YANKEE AIRSTRIP	2275050011	0.007	0.003	0.537	0.056	0.024	4.44
Windham	CT68	12306411	WAUREGAN	2275050011	0.002	0.002	0.222	0.022	0.01	1.832
Windham	CT68	12306411	WAUREGAN	2275050012	0.022	0.01	0.316	0.188	0.088	2.614
Windham	CT70	11316911	WILSONVILLE	2275050011	0.002	0.002	0.222	0.022	0.01	1.832
Windham	CT70	11316911	WILSONVILLE	2275050012	0.022	0.01	0.316	0.188	0.088	2.614
Windham	CT74	12306711	Westford Airstrip	2275050011	0.007	0.003	0.578	0.157	0.068	12.555
Windham	IJD	9808111	Windham Airport	2275001000	0.045	0.005	0.845	0.258	0.028	5.136

TABLE 5
Calculated Connecticut Airport Summer Emissions by County, FAA Location ID and Mapped SCC

County	FAA Location ID	EIS Facility ID	Airport Name	SCC	Annual Emissions (TPY)			Summer Day Emissions (PPD)		
					VOC	NOX	CO	VOC	NOX	CO
Windham	IJD	9808111	Windham Airport	2275050011	2.705	1.17	215.92	16.463	7.112	1314.303
Windham	IJD	9808111	Windham Airport	2275050012	4.8	2.255	66.705	29.232	13.726	406.028
Windham	IJD	9808111	Windham Airport	2275060011	0	0	0.37	0.012	0.012	2.245
Windham	IJD	9808111	Windham Airport	2275060012	0.045	0.035	0.17	0.286	0.223	1.031
Windham	LZD	9808211	Danielson	2275050011	2.384	1.032	190.488	36.308	15.684	2898.712
Windham	LZD	9808211	Danielson	2275050012	4.236	1.988	58.848	64.472	30.272	895.496
Windham	LZD	9808211	Danielson	2275060011	0.004	0.004	0.444	0.04	0.036	6.728
Windham	LZD	9808211	Danielson	2275060012	0.056	0.044	0.204	0.86	0.664	3.092

TABLE 6
2011 Data Used To Apportion NONROAD SCCs Not Using Data Replacement
To Typical High Ozone Summer Day
(i. e. Commercial Marine Vessel and Locomotive Emissions)

Scc	Scc Description	Apportionment Method	Percent of Annual Activity That Occurs In Summer Season	Average Days of Operation Per Week	Weeks of Operation In Summer
2280002100	Diesel - Port emissions	Calculate Factor	25	7	13
2280002200	Diesel - Underway emissions	Calculate Factor	25	7	13
2280003100	Residual - Port emissions	Calculate Factor	25	7	13
2280003200	Residual - Underway emissions	Calculate Factor	25	7	13
2285002006	Diesel - Line Haul Locomotives: Class I Operations	Calculate Factor	25	5	13
2285002007	Diesel - Line Haul Locomotives: Class II / III Operations	Calculate Factor	25	5	13
2285002008	Diesel - Line Haul Locomotives: Passenger Trains (Amtrak)	Calculate Factor	25	5	13
2285002009	Diesel - Line Haul Locomotives: Commuter Lines	Calculate Factor	25	5	13
2285002010	Diesel - Yard Locomotives	Calculate Factor	25	5	13

The Calculate Factor approach applies the same fraction to an SCC for all counties, consequently airport emissions were allocated using data, which allowed consideration of unique characteristics of airports within each county. NONROAD model emission estimates were also estimated using data obtained from summer day runs of the NONROAD Model. Only the commercial marine vessels and locomotive emissions were allocated to a summer day on an SCC based calculated factor approach. The applicable SCCs and calculation inputs shown in the above table appear reasonable and are consistent with prior periodic emissions inventory allocations.

TABLE 7

2005 Company Supplied Line Haul Fuel Data Allocated in the 2005 PEI with Applicable SCC Assigned

SCC	SCC Abbreviated Description	Railroad Company	Fairfield Gallons	Hartford Gallons	Litchfield Gallons	Middlesex Gallons	New Haven Gallons	New London Gallons	Tolland Gallons	Windham Gallons	Railroad Co. State Total Gallons
2285002008	Passenger Trains	Amtrak	0	362,776	0	124,136	416,283	362,776	0	0	1,265,971
2285002007	Class II / III Operations	Branford Steam Railroad	0	0	0	0	29,358	0	0	0	29,358
2285002007	Class II / III Operations	Central New England Railroad	0	28,214	0	0	0	0	0	0	28,214
2285002007	Class II / III Operations	Connecticut Southern Railroad	0	174,478	0	0	85,002	0	0	0	259,480
2285002006	Class I Operations	CSX Railroad	146,415	0	0	0	111,555	0	0	0	257,970
2285002007	Class II / III Operations	Housatonic Railroad Company	62,512	0	79,876	0	0	0	0	0	142,387
2285002009	Commuter Lines	Metro-North Commuter Railroad Company	507,721	0	0	0	567,725	0	0	0	1,075,446
2285002007	Class II / III Operations	Naugatuck Railroad Company	0	0	11,307	0	2,991	0	0	0	14,298
2285002007	Class II / III Operations	New England Central Railroad, Inc	0	0	0	0	0	74,007	74,650	22,524	171,181
2285002007	Class II / III Operations	Providence and Worcester Railroad Company	130,608	0	0	30,848	104,991	132,592	0	83,344	482,382
2285002009	Commuter Lines	Shoreline East Railway	0	0	0	252,229	549,858	0	0	0	802,087
2285002007	Class II / III Operations	Springfield Terminal Railway Company	0	3,537	4,633	0	5,479	0	0	0	13,650
2285002007	Class II / III Operations	Valley Railroad Company	0	0	0	2,636	0	0	0	0	2,636
All	All	Line Haul Total	847,256	569,005	95,816	409,848	1,873,242	569,375	74,650	105,867	4,545,060

TABLE 8**2005 Company Supplied Switchyard Locomotive Fuel Data Allocated in the 2005 PEI with Applicable SCC Assigned**

SCC	SCC Abbreviated Description	Railroad Company	Fairfield Gallons	Hartford Gallons	Middlesex Gallons	New Haven Gallons	Railroad Co. State Total Gallons
2285002010	Yard Locomotives	Amtrak	0	0	0	75,679	75,679
2285002010	Yard Locomotives	Branford Steam Railroad	0	0	0	16,148	16,148
2285002010	Yard Locomotives	Connecticut Southern Railroad	0	93,027	0	0	93,027
2285002010	Yard Locomotives	CSX Railroad	14,032	0	0	14,032	28,065
2285002010	Yard Locomotives	Metro-North Commuter Railroad Company	97,179	0	0	0	97,179
2285002010	Yard Locomotives	Springfield Terminal Railway Company	0	11,700	0	11,700	23,400
2285002010	Yard Locomotives	Valley Railroad Company	0	0	420	0	420
All	All	Total Switchyard	111,211	104,727	420	117,559	333,917

TABLE 9
Emissions Factors Used in Connecticut's 2011 Locomotive Emissions Calculations

Pollutant	SCC and Description with Associated Emissions Factor for Each Pollutant				Reference
	All Line Haul Locomotives: SCCs 2285002006, 2285002007, 2285002008 and 2285002009		Yard Locomotives – SCC 2285002010		
	Emission Factor Pounds/1000 Gal	Emission Factor Grams/Gal	Emission Factor Pounds/1000 Gal	Emission Factor Grams/Gal	
VOC	22.046	10	46.297	21	C9-1(A)
NOx	595.251	270	798.078	362	C9-1(A)
CO	58.643	26.6	83.997	38.1	C9-1(A)
PM10-PRI	14.771	6.7	20.283	9.2	C9-1(A)
PM25-PRI	13.294	6.03	18.188	8.25	C9-1(A)
NH3	0.183	0.083	0.183	0.083	C9-2
SO2	3.253	1.48	3.253	1.48	C9-1(B) and C9-3
Lead	1.30E-03	5.90E-04	1.30E-03	5.90E-04	C9-1(C)

References for the above table 9 are as follows:

- C9-1 EPA Contract No.: 68-D-02-063, Work Assignment No.: 3-01, entitled "DOCUMENTATION FOR AIRCRAFT, COMMERCIAL MARINE VESSEL, LOCOMOTIVE, AND OTHER NONROAD COMPONENTS OF THE NATIONAL EMISSIONS INVENTORY" Volume I - Methodology Dated September 30, 2005
ftp://ftp.epa.gov/EmisInventory/2002finalnei/documentation/mobile/2002nei_mobile_nonroad_methods.pdf
 C9-1(A) Appendix C, Table C-1 Criteria Pollutant Emission Factors
 C9-1(B) Appendix C, page C-3
 C9-1(C) Appendix C, Table C-2 Additional HAP Emission Factors
- C9-2 E.H. Pechan & Associates, Inc. April 2004. ESTIMATING AMMONIA EMISSIONS FROM ANTHROPOGENIC NONAGRICULTURAL SOURCES - DRAFT FINAL REPORT
http://www.epa.gov/ttnchie1/eiip/techreport/volume03/eiip_areasourcesnh3.pdf
- C9-3 EPA-420-B-09-018 April 2009. Suggested National Average Fuel Properties (2011 Diesel Marine Sulfur = 236 ppm)
<http://www.epa.gov/otaq/models/nonrdmdl/nonrdmdl2008/420b09018.pdf>

TABLE 10
2005 to 2011 Growth Factors Used in Connecticut's 2011 Locomotive Emissions Calculations

Year	Railroad Use or Sales of Distillate Fuel Oil (Gallons)	Reference
2005	4,878,977 (Use)	Appendix 1 Section 3.6
2005	3,715,000 (Sales)	C10-1
2005	4,274,000 (Sales)	C10-2 Spreadsheet Download for Railroads
2011	2,006,000 (Sales)	C10-2

Based on the above data, the growth rate multiplier for approximating locomotive activity via fuel use used to calculate the 2005 base year emissions to 2011 is $2,006,000/4,878,977$ or 0.41. These statistics indicate a 59% reduction in activity for 2011 as compared to 2005.

References for the above table 10 are as follows:

C10-1 Energy Information Administration http://www.eia.doe.gov/emeu/states/main_ct.html or http://www.eia.doe.gov/oil_gas/petroleum/data_publications/fuel_oil_and_kerosene_sales/foks_historical.html (for multiple years) or for 2005 go to http://www.eia.doe.gov/pub/oil_gas/petroleum/data_publications/fuel_oil_and_kerosene_sales/historical/2005/foks_2005.html

C10-2 Energy Information Administration <http://www.eia.gov/> and search for Distillate Sales to obtain an annual U. S. Sales of Distillate Oil by End Use page that allows the selection of the state of Connecticut in an Area dropdown combo box. http://www.eia.gov/dnav/pet/pet_cons_821dst_a_EPDO_VRR_Mgal_a.htm

Appendix D

Area Source Tables

Table 1
2011 Annual Emissions (TPY) by County, Sector and SCC for Area Sources

Sec	Sec Description	Area Source Emissions (TPY)							
		VOC	NOx	CO	PM10	PM2.5	NH3	SO2	Lead
Fairfield	County								
Sector:	Agriculture - Crops & Livestock Dust								
2801000003	Agricultural Tilling	0.00	0.00	0.00	3.38	0.67	0.00	0.00	0.0000
Totals For:	Agriculture - Crops & Livestock Dust	0.00	0.00	0.00	3.38	0.67	0.00	0.00	0.0000

Table 1
2011 Annual Emissions (TPY) by County, Sector and SCC for Area Sources

Scc	Scc Description	Area Source Emissions (TPY)							
		VOC	NOx	CO	PM10	PM2.5	NH3	SO2	Lead
Sector:	Agriculture - Fertilizer Application								
2801700001	Fertilizer Application; Anhydrous Ammonia	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2801700002	Fertilizer Application; Aqueous Ammonia	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2801700003	Fertilizer Application; Nitrogen Solutions	0.00	0.00	0.00	0.00	0.00	0.10	0.00	0.0000
2801700004	Fertilizer Application; Urea	0.00	0.00	0.00	0.00	0.00	4.59	0.00	0.0000
2801700005	Fertilizer Application; Ammonium Nitrate	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.0000
2801700006	Fertilizer Application; Ammonium Sulfate	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2801700007	Fertilizer Application; Ammonium Thiosulfate	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2801700010	Fertilizer Application; N-P-K (mult-grade nutrient fertilizers)	0.00	0.00	0.00	0.00	0.00	2.22	0.00	0.0000
2801700011	Fertilizer Application; Calcium Ammonium Nitrate	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2801700012	Fertilizer Application; Potassium Nitrate	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2801700013	Fertilizer Application; Diammonium Phosphate	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2801700014	Fertilizer Application; Monoammonium Phosphate	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2801700015	Fertilizer Application; Liquid Ammonium Polyphosphate	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2801700099	Fertilizer Application; Miscellaneous Fertilizers	0.00	0.00	0.00	0.00	0.00	9.26	0.00	0.0000
Totals For:	Agriculture - Fertilizer Application	0.00	0.00	0.00	0.00	0.00	16.18	0.00	0.0000

Table 1
2011 Annual Emissions (TPY) by County, Sector and SCC for Area Sources

Scc	Scc Description	Area Source Emissions (TPY)							
		VOC	NOx	CO	PM10	PM2.5	NH3	SO2	Lead
Sector:	Agriculture - Livestock Waste								
2805001100	Beef cattle - finishing operations on feedlots (drylots); Confinement	0.00	0.00	0.00	0.00	0.00	5.06	0.00	0.0000
2805001200	Beef cattle - finishing operations on feedlots (drylots); Manure handling and storage	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2805001300	Beef cattle - finishing operations on feedlots (drylots); Land application of manure	0.00	0.00	0.00	0.00	0.00	3.84	0.00	0.0000
2805002000	Beef cattle production composite; Not Elsewhere Classified	0.00	0.00	0.00	0.00	0.00	0.72	0.00	0.0000
2805003100	Beef cattle - finishing operations on pasture/range :Confinement	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2805007100	Poultry production - layers with dry manure management systems; Confinement	0.00	0.00	0.00	0.00	0.00	1.64	0.00	0.0000
2805007300	Poultry production - layers with dry manure management systems; Land application of manure	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.0000
2805008100	Poultry production - layers with wet manure management systems; Confinement	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.0000
2805008200	Poultry production - layers with wet manure management systems; Manure handling and storage	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.0000
2805008300	Poultry production - layers with wet manure management systems :Land application of manure	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.0000
2805009100	Poultry production - broilers; Confinement	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.0000
2805009200	Poultry production - broilers; manure handling and storage	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2805009300	Poultry production - broilers; Land Application and storage	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.0000
2805010100	Poultry production - turkeys; Confinement	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.0000
2805010200	Poultry production - turkeys; Manure handling and storage	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.0000
2805010300	Poultry production - turkeys; Land application and storage	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.0000
2805018000	Dairy cattle composite; Not Elsewhere Classified	0.00	0.00	0.00	0.00	0.00	1.47	0.00	0.0000
2805019100	Dairy cattle - flush dairy; Confinement	0.00	0.00	0.00	0.00	0.00	0.08	0.00	0.0000

Table 1
2011 Annual Emissions (TPY) by County, Sector and SCC for Area Sources

Scc	Scc Description	Area Source Emissions (TPY)							
		VOC	NOx	CO	PM10	PM2.5	NH3	SO2	Lead
2805019200	Dairy cattle - flush dairy; Manure handling and storage	0.00	0.00	0.00	0.00	0.00	0.22	0.00	0.0000
2805019300	Dairy cattle - flush dairy; Land application of manure	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.0000
2805021100	Dairy cattle - scrape dairy; Confinement	0.00	0.00	0.00	0.00	0.00	0.65	0.00	0.0000
2805021200	Dairy cattle - scrape dairy; Manure handling and storage	0.00	0.00	0.00	0.00	0.00	0.74	0.00	0.0000

Table 1
2011 Annual Emissions (TPY) by County, Sector and SCC for Area Sources

Scc	Scc Description	Area Source Emissions (TPY)							
		VOC	NOx	CO	PM10	PM2.5	NH3	SO2	Lead
2805021300	Dairy cattle - scrape dairy; Land application of manure	0.00	0.00	0.00	0.00	0.00	1.39	0.00	0.0000
2805022100	Dairy cattle - deep pit dairy; Confinement	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.0000
2805022200	Dairy cattle - deep pit dairy; Manure handling and storage	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2805022300	Dairy cattle - deep pit dairy; Land application of manure	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.0000
2805023100	Dairy cattle - drylot/pasture dairy; Confinement	0.00	0.00	0.00	0.00	0.00	0.55	0.00	0.0000
2805023200	Dairy cattle - drylot/pasture dairy; Manure handling and storage	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.0000
2805023300	Dairy cattle - drylot/pasture dairy; Land application of manure	0.00	0.00	0.00	0.00	0.00	0.69	0.00	0.0000
2805025000	Swine production composite; Not Elsewhere Classified	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2805030000	Poultry Waste Emissions; Not Elsewhere Classified	0.00	0.00	0.00	0.00	0.00	0.40	0.00	0.0000
2805030007	Poultry Waste Emissions; Ducks	0.00	0.00	0.00	0.00	0.00	0.44	0.00	0.0000
2805030008	Poultry Waste Emissions; Geese	0.00	0.00	0.00	0.00	0.00	0.08	0.00	0.0000
2805035000	Horses and Ponies Waste Emissions; Not Elsewhere Classified	0.00	0.00	0.00	0.00	0.00	13.20	0.00	0.0000
2805039100	Swine production - operations with lagoons (unspecified animal age); Confinement	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.0000
2805039200	Swine production - operations with lagoons (unspecified animal age); Manure handling and storage	0.00	0.00	0.00	0.00	0.00	0.10	0.00	0.0000
2805039300	Swine production - operations with lagoons (unspecified animal age); Land application of manure	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.0000
2805040000	Sheep and Lambs Waste Emissions; Total	0.00	0.00	0.00	0.00	0.00	0.84	0.00	0.0000
2805045000	Goats Waste Emissions; Not Elsewhere Classified	0.00	0.00	0.00	0.00	0.00	1.61	0.00	0.0000
2805047100	Swine production - deep-pit house operations (unspecified animal age); Confinement	0.00	0.00	0.00	0.00	0.00	0.07	0.00	0.0000
2805047300	Swine production - deep-pit house operations (unspecified animal age); Land application of manure	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.0000

Table 1
2011 Annual Emissions (TPY) by County, Sector and SCC for Area Sources

Scc	Scc Description	Area Source Emissions (TPY)							
		VOC	NOx	CO	PM10	PM2.5	NH3	SO2	Lead
2805053100	Swine production - outdoor operations (unspecified animal age); Confinement	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
Totals For: Agriculture - Livestock Waste		0.00	0.00	0.00	0.00	0.00	34.22	0.00	0.0000
Sector: Aircraft									
2275087000	In-flight (non-Landing-Takeoff cycle) Lead Emissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000

Table 1
2011 Annual Emissions (TPY) by County, Sector and SCC for Area Sources

Scc	Scc Description	Area Source Emissions (TPY)							
		VOC	NOx	CO	PM10	PM2.5	NH3	SO2	Lead
Totals For: Aircraft		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
Sector:	Bulk Gasoline Terminals								
2501050120	Gasoline Distribution Stage I; Bulk Terminals	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2501055120	Gasoline Distribution Stage I; Bulk Plants	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2505030120	Gasoline Distribution Stage I; Tank Trucks in Transit	12.24	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2505040120	Gasoline Distribution Stage I; Bulk Terminals	300.58	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
Totals For: Bulk Gasoline Terminals		312.82	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
Sector:	Commercial Cooking								
2302002100	Commercial Cooking: Conveyorized Charbroiling	8.30	0.00	27.72	33.17	32.16	0.00	0.00	0.0000
2302002200	Commercial Cooking: Under-fired Charbroiling	30.04	0.00	98.31	250.55	242.20	0.00	0.00	0.0000
2302003000	Commercial Cooking: Deep Fat Frying	4.47	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2302003100	Commercial Cooking: Flat Griddle Frying	3.90	0.00	8.04	65.02	49.41	0.00	0.00	0.0000
2302003200	Commercial Cooking: Clamshell Griddle Frying	0.14	0.00	0.00	4.09	3.46	0.00	0.00	0.0000
Totals For: Commercial Cooking		46.86	0.00	134.07	352.83	327.23	0.00	0.00	0.0000
Sector:	Commercial/ Institutional Fuel Combustion								
2103001000	Fuel Combustion; Commercial/Institutional; Anthra Coal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2103002000	Fuel Combustion; Commercial/Institutional; Bit Coal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2103004001	Fuel Combustion; Commercial/Institutional; Distillate Oil Boiler	2.22	130.57	32.64	15.54	13.91	5.22	275.85	0.0082
2103004002	Fuel Combustion; Commercial/Institutional; Distillate Oil IC Engine	0.00	193.99	41.75	31.40	31.40	0.00	0.00	0.0000
2103005000	Fuel Combustion; Commercial/Institutional; Residual Oil	0.73	35.68	3.24	10.67	4.57	0.52	102.13	0.0011

Table 1
2011 Annual Emissions (TPY) by County, Sector and SCC for Area Sources

Scc	Scc Description	Area Source Emissions (TPY)							
		VOC	NOx	CO	PM10	PM2.5	NH3	SO2	Lead
2103006000	Fuel Combustion; Commercial/Institutional; Natural Gas	28.43	516.92	434.21	2.69	2.22	2.53	3.10	0.0026
2103007000	Fuel Combustion; Commercial/Institutional; Liquified Petroleum Gas	1.25	34.22	19.16	0.12	0.10	0.12	0.14	0.0001
2103008000	Fuel Combustion; Commercial/Institutional; Wood	0.99	12.78	34.84	30.02	25.96	0.29	1.45	0.0000
2103011000	Fuel Combustion; Commercial/Institutional; Kerosene	0.02	0.93	0.23	0.11	0.10	0.04	2.05	0.0001

Table 1
2011 Annual Emissions (TPY) by County, Sector and SCC for Area Sources

Scc	Scc Description	Area Source Emissions (TPY)							
		VOC	NOx	CO	PM10	PM2.5	NH3	SO2	Lead
Totals For: Commercial/ Institutional Fuel Combustion		33.64	925.08	566.09	90.54	78.25	8.72	384.73	0.0120
Sector:	Dust - Construction Dust								
2311010000	Construction - Residential	0.00	0.00	0.00	28.75	2.87	0.00	0.00	0.0000
2311020000	Construction - Non-Residential	0.00	0.00	0.00	612.20	61.22	0.00	0.00	0.0000
2311030000	Construction - Road	0.00	0.00	0.00	1,134.66	113.47	0.00	0.00	0.0000
Totals For: Dust - Construction Dust		0.00	0.00	0.00	1,775.61	177.56	0.00	0.00	0.0000
Sector:	Dust - Paved Road Dust								
2294000000	Roads, Paved	0.00	0.00	0.00	1,961.03	490.26	0.00	0.00	0.0000
Totals For: Dust - Paved Road Dust		0.00	0.00	0.00	1,961.03	490.26	0.00	0.00	0.0000
Sector:	Dust - Unpaved Road Dust								
2296000000	Roads, Unpaved	0.00	0.00	0.00	720.93	71.70	0.00	0.00	0.0000
Totals For: Dust - Unpaved Road Dust		0.00	0.00	0.00	720.93	71.70	0.00	0.00	0.0000
Sector:	Event								
2810001000	Forest Wildfires	0.48	0.05	2.00	0.22	0.19	0.03	0.02	0.0000
2811015000	Prescribed Forest Burning	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
Totals For: Event		0.48	0.05	2.00	0.22	0.19	0.03	0.02	0.0000
Sector:	Fires - Agricultural Field Burning								
2801500000	Agric - Crops /Field Burning - whole field set on fire /Unspecified crop type and Burn Method	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
Totals For: Fires - Agricultural Field Burning		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000

Table 1
2011 Annual Emissions (TPY) by County, Sector and SCC for Area Sources

Scc	Scc Description	Area Source Emissions (TPY)							
		VOC	NOx	CO	PM10	PM2.5	NH3	SO2	Lead
Sector: Gas Stations									
2201000062	Gasoline Distribution Stage II; Gasoline Service Stations, Stage 2	94.67	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2202000062	Gasoline Distribution Stage II; Diesel Service Stations, Stage 2	10.93	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2501060051	Gasoline Distribution Stage I; Gasoline Service Station Unloading Submerged filling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2501060052	Gasoline Distribution Stage I; Gasoline Service Station Unloading Splash filling	166.61	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2501060053	Gasoline Distribution Stage I; Gasoline Service Station Unloading Balanced Submerged filling	120.58	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2501060201	Gasoline Distribution Stage I; Underground storage tank, breathing and emptying	187.17	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2501080050	Aviation Gasoline Distribution: Stage I	20.84	0.00	0.00	0.00	0.00	0.00	0.00	0.0002
2501080100	Aviation Gasoline Distribution: Stage II	1.08	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
Totals For: Gas Stations		601.88	0.00	0.00	0.00	0.00	0.00	0.00	0.0002
Sector: INDUSTRIAL FUEL COMBUSTION									
2102001000	Fuel Combustion; Industrial; Anthr Coal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2102002000	Fuel Combustion; Industrial; Bit Coal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2102004001	Fuel Combustion; Industrial; Distillate oil Boiler	0.27	26.80	6.70	3.08	2.08	1.07	56.61	0.0017
2102004002	Fuel Combustion; Industrial; Distillate oil IC Engine	0.00	16.81	3.62	2.71	2.63	0.00	0.00	0.0000
2102005000	Fuel Combustion; Industrial; Residual Oil	0.03	5.12	0.47	2.07	1.39	0.07	14.64	0.0002
2102006000	Fuel Combustion; Industrial; Natural Gas	4.03	73.29	61.57	0.40	0.32	2.35	0.44	0.0004
2102007000	Fuel Combustion; Industrial; Liquified Petroleum Gas (LPG)	1.03	28.10	15.74	0.10	0.08	0.59	0.12	0.0000
2102008000	Fuel Combustion; Industrial; Wood	6.05	78.28	213.49	183.95	159.05	2.49	8.90	0.0000

Table 1
2011 Annual Emissions (TPY) by County, Sector and SCC for Area Sources

Scc	Scc Description	Area Source Emissions (TPY)							
		VOC	NOx	CO	PM10	PM2.5	NH3	SO2	Lead
2102011000	Fuel Combustion; Industrial; Kerosene	0.11	11.59	2.90	1.33	0.90	0.46	25.60	0.0007
Totals For: INDUSTRIAL FUEL COMBUSTION		11.51	239.99	304.47	193.64	166.44	7.04	106.31	0.0029
Sector: Industrial Processes - Mining									
2325000000	Mining and Quarrying	0.00	0.00	0.00	141.12	17.64	0.00	0.00	0.0000
Totals For: Industrial Processes - Mining		0.00	0.00	0.00	141.12	17.64	0.00	0.00	0.0000

Table 1
2011 Annual Emissions (TPY) by County, Sector and SCC for Area Sources

Scc	Scc Description	Area Source Emissions (TPY)							
		VOC	NOx	CO	PM10	PM2.5	NH3	SO2	Lead
Sector:	Industrial Processes - Storage and Transfer								
2501011011	portable fuel containers, residential, permeation	37.75	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2501011012	portable fuel containers, residential, evaporation (includes diurnal losses)	73.71	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2501011013	portable fuel containers, residential, spilling during transport	55.27	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2501011014	portable fuel containers, residential, refilling at the pump, vapor displacement	15.86	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2501011015	portable fuel containers, residential, refilling at the pump, spillage	1.82	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2501012011	portable fuel containers, commercial, permeation	1.21	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2501012012	portable fuel containers, commercial, evaporation (includes diurnal losses)	2.35	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2501012013	portable fuel containers, commercial, spilling during transport	75.40	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2501012014	portable fuel containers, commercial, refilling at the pump, vapor displacement	30.57	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2501012015	portable fuel containers, commercial, refilling at the pump, spillage	3.50	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
Totals For:	Industrial Processes - Storage and Transfer	297.45	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
Sector:	Miscellaneous Non-Industrial NEC								
2810060100	Cremation - Human	0.01	2.90	0.01	0.19	0.19	0.00	0.45	0.0011
2810060200		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2850001000	Dental Preparation and Use	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2851001000	General Laboratory Activities	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2861000000	Lamp Breakage (Landfill emissions)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2861000010	Lamp (Fluorescent) Recycling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000

Table 1
2011 Annual Emissions (TPY) by County, Sector and SCC for Area Sources

Sec	Sec Description	Area Source Emissions (TPY)							
		VOC	NOx	CO	PM10	PM2.5	NH3	SO2	Lead
Totals For: Miscellaneous Non-Industrial NEC		0.01	2.90	0.01	0.19	0.19	0.00	0.45	0.0011

Table 1
2011 Annual Emissions (TPY) by County, Sector and SCC for Area Sources

Scc	Scc Description	Area Source Emissions (TPY)							
		VOC	NOx	CO	PM10	PM2.5	NH3	SO2	Lead
Sector:	Residential Heating								
2104001000	Residential Heating: Anthracite Coal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2104002000	Residential Heating: Bituminous Coal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2104004000	Residential Heating: Distillate Oil	44.70	1,149.49	319.30	151.99	136.02	63.86	2,720.46	0.0807
2104006000	Residential Heating: Natural Gas	33.64	574.88	244.63	3.18	2.63	122.32	3.67	0.0000
2104007000	Residential Heating: LPG	3.88	105.93	59.31	0.37	0.30	0.35	0.42	0.0000
2104008100	Residential Heating: Fireplaces (cordwood)	48.29	6.64	380.68	60.29	60.29	4.60	1.02	0.0000
2104008210	Residential Heating: Inserts non certified	513.96	27.15	2,238.15	296.74	296.74	16.49	3.88	0.0000
2104008220	Residential Heating: Inserts EPA certified non-cat	37.31	7.09	437.82	60.95	60.95	2.80	1.24	0.0000
2104008230	Residential Heating: Inserts EPA certified cat	15.56	2.07	108.28	21.16	21.16	0.93	0.41	0.0000
2104008310	Residential Heating: free standing WS non certified	1,550.45	81.91	6,751.77	895.17	895.17	49.73	11.70	0.0000
2104008320	Residential Heating: free standing WS EPA certified non-cat	112.56	21.39	1,320.65	183.84	183.84	8.44	3.75	0.0000
2104008330	Residential Heating: free standing WS EPA certified cat	46.88	6.25	326.31	63.76	63.76	2.81	1.25	0.0000
2104008400	Residential Heating: pellet stoves	0.23	21.60	90.39	17.40	17.40	1.71	1.82	0.0000
2104008510	Residential Heating: furnace indoor	15.10	2.36	234.99	35.32	35.32	2.30	2.60	0.0000
2104008610	Residential Heating: Hydronic heater: outdoor	15.32	0.42	81.85	14.55	14.55	0.41	0.46	0.0000
2104008700	Residential Heating: Outdoor wood burning device, NEC	13.36	1.84	105.35	16.69	16.69	1.27	0.28	0.0000
2104009000	Residential Heating: Firelog	30.08	5.84	95.12	22.30	21.60	0.00	0.00	0.0000
2104011000	Residential Heating: Kerosene	0.16	4.04	1.12	0.53	0.48	0.22	9.56	0.0003
Totals For:	Residential Heating	2,481.50	2,018.91	12,795.73	1,844.23	1,826.90	278.24	2,762.54	0.0810

Table 1
2011 Annual Emissions (TPY) by County, Sector and SCC for Area Sources

Scc	Scc Description	Area Source Emissions (TPY)							
		VOC	NOx	CO	PM10	PM2.5	NH3	SO2	Lead
Sector:	Solvent - Consumer & Commercial Solvent Use								
2460100000	C&C: Cosmetics and Toiletries	870.99	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2460200000	C&C: Cleaning Products; Household	825.15	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2460400000	C&C: Auto Aftermarket	623.45	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2460500000	C&C: Coatings and Related Products	435.49	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2460600000	C&C: adhesives and sealants	261.30	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2460800000	C&C: FIFRA Regulated Products	815.98	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2460900000	C&C: Misc. Products (not otherwise covered)	32.09	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2461021000	Cutback Asphalt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2461022000	Emulsified Asphalt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2461850000	Ag Pesticide	2.87	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
Totals For:	Solvent - Consumer & Commercial Solvent Use	3,867.31	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
Sector:	Solvent - Degreasing								
2415000000	Degreasing	911.20	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
Totals For:	Solvent - Degreasing	911.20	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
Sector:	Solvent - Dry Cleaning								
2420000000	Dry Cleaning	4.10	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
Totals For:	Solvent - Dry Cleaning	4.10	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
Sector:	Solvent - Graphic Arts								
2425000000	Graphic Arts	184.31	0.00	0.00	0.00	0.00	0.00	0.00	0.0000

Table 1
2011 Annual Emissions (TPY) by County, Sector and SCC for Area Sources

Sec	Sec Description	Area Source Emissions (TPY)							
		VOC	NOx	CO	PM10	PM2.5	NH3	SO2	Lead
Totals For: Solvent - Graphic Arts		184.31	0.00	0.00	0.00	0.00	0.00	0.00	0.0000

Table 1
2011 Annual Emissions (TPY) by County, Sector and SCC for Area Sources

Sector:	Scc	Scc Description	Area Source Emissions (TPY)							
			VOC	NOx	CO	PM10	PM2.5	NH3	SO2	Lead
		Solvent - Industrial Surface Coating & Solvent Use								
	2401005000	Auto Refinishing SIC 7532	197.52	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
	2401008000	Surface Coating - Traffic Markings	0.62	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
	2401015000	Surface Coating - Factory Finished Wood: SIC 2426 thru 242	3.12	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
	2401020000	Surface Coating - Wood Furniture	105.61	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
	2401025000	Surface Coating - Metal Furniture: SIC 25	1.48	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
	2401030000	Surface Coating - Paper, foil, and film	15.02	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
	2401040000	Surface Coating - Metal Can Coating	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
	2401045000	Surface Coating - Sheet, strip, and coil	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
	2401055000	Surface Coating - Machinery and Equipment: SIC 35	49.51	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
	2401060000	Surface Coating - Large Appliances: SIC 363	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
	2401065000	Surface Coating - Electronic and other Electric Coatings	3.32	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
	2401070000	Surface Coating - Motor Vehicles	39.78	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
	2401075000	Surface Coating - Aircraft	76.75	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
	2401080000	Surface Coating - Marine	37.56	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
	2401085000	Surface Coating - Railroad	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
	2401090000	Surface Coating - Miscellaneous Manufacturing	71.11	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
	2401100000	Industrial Maintenance Coatings	68.76	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
	2401200000	Other Special Purpose Coatings	29.34	0.00	0.00	0.00	0.00	0.00	0.00	0.0000

Table 1
2011 Annual Emissions (TPY) by County, Sector and SCC for Area Sources

Scc	Scc Description	Area Source Emissions (TPY)							
		VOC	NOx	CO	PM10	PM2.5	NH3	SO2	Lead
Totals For: Solvent - Industrial Surface Coating & Solvent		699.51	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
Sector: Solvent - Non-Industrial Surface Coating									
2401001000	Architectural Coatings	861.82	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
Totals For: Solvent - Non-Industrial Surface Coating		861.82	0.00	0.00	0.00	0.00	0.00	0.00	0.0000

Table 1
2011 Annual Emissions (TPY) by County, Sector and SCC for Area Sources

Scc	Scc Description	Area Source Emissions (TPY)							
		VOC	NOx	CO	PM10	PM2.5	NH3	SO2	Lead
Sector:	Waste Disposal								
2610000100	Open Burning - Yard Waste - Leaves	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2610000400	Open Burning - Yard Waste - Brush	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2610000500	Open Burning - Land Clearing Debris	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2610030000	Open Burning - Household Waste	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2620030001		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2630020000	Publically Owned Treatment Works (POTW)	16.98	0.00	0.00	0.00	0.00	3.38	0.00	0.0000
2650000000		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2650000002		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
Totals For: Waste Disposal		16.98	0.00	0.00	0.00	0.00	3.38	0.00	0.0000
Totals For: Fairfield County		10,331.36	3,186.93	13,802.37	7,083.72	3,157.03	347.81	3,254.04	0.0973

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Table 1
2011 Annual Emissions (TPY) by County, Sector and SCC for Area Sources

Scc	Scc Description	Area Source Emissions (TPY)							
		VOC	NOx	CO	PM10	PM2.5	NH3	SO2	Lead
Hartford	County								
Sector:	Agriculture - Crops & Livestock Dust								
280100003	Agricultural Tilling	0.00	0.00	0.00	129.88	25.97	0.00	0.00	0.0000
Totals For:	Agriculture - Crops & Livestock Dust	0.00	0.00	0.00	129.88	25.97	0.00	0.00	0.0000
Sector:	Agriculture - Fertilizer Application								
2801700001	Fertilizer Application; Anhydrous Ammonia	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2801700002	Fertilizer Application; Aqueous Ammonia	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2801700003	Fertilizer Application; Nitrogen Solutions	0.00	0.00	0.00	0.00	0.00	0.45	0.00	0.0000
2801700004	Fertilizer Application; Urea	0.00	0.00	0.00	0.00	0.00	20.45	0.00	0.0000
2801700005	Fertilizer Application; Ammonium Nitrate	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.0000
2801700006	Fertilizer Application; Ammonium Sulfate	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.0000
2801700007	Fertilizer Application; Ammonium Thiosulfate	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2801700010	Fertilizer Application; N-P-K (mult-grade nutrient fertilizers)	0.00	0.00	0.00	0.00	0.00	9.87	0.00	0.0000
2801700011	Fertilizer Application; Calcium Ammonium Nitrate	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2801700012	Fertilizer Application; Potassium Nitrate	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2801700013	Fertilizer Application; Diammonium Phosphate	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2801700014	Fertilizer Application; Monoammonium Phosphate	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2801700015	Fertilizer Application; Liquid Ammonium Polyphosphate	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2801700099	Fertilizer Application; Miscellaneous Fertilizers	0.00	0.00	0.00	0.00	0.00	41.29	0.00	0.0000
Totals For:	Agriculture - Fertilizer Application	0.00	0.00	0.00	0.00	0.00	72.12	0.00	0.0000

Table 1
2011 Annual Emissions (TPY) by County, Sector and SCC for Area Sources

Scc	Scc Description	Area Source Emissions (TPY)							
		VOC	NOx	CO	PM10	PM2.5	NH3	SO2	Lead
Sector:	Agriculture - Livestock Waste								
2805001100	Beef cattle - finishing operations on feedlots (drylots); Confinement	0.00	0.00	0.00	0.00	0.00	0.87	0.00	0.0000
2805001200	Beef cattle - finishing operations on feedlots (drylots); Manure handling and storage	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2805001300	Beef cattle - finishing operations on feedlots (drylots); Land application of manure	0.00	0.00	0.00	0.00	0.00	0.66	0.00	0.0000
2805002000	Beef cattle production composite; Not Elsewhere Classified	0.00	0.00	0.00	0.00	0.00	3.26	0.00	0.0000
2805003100	Beef cattle - finishing operations on pasture/range :Confinement	0.00	0.00	0.00	0.00	0.00	2.31	0.00	0.0000
2805007100	Poultry production - layers with dry manure management systems; Confinement	0.00	0.00	0.00	0.00	0.00	1.78	0.00	0.0000
2805007300	Poultry production - layers with dry manure management systems; Land application of manure	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.0000
2805008100	Poultry production - layers with wet manure management systems; Confinement	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.0000
2805008200	Poultry production - layers with wet manure management systems; Manure handling and storage	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.0000
2805008300	Poultry production - layers with wet manure management systems :Land application of manure	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.0000
2805009100	Poultry production - broilers; Confinement	0.00	0.00	0.00	0.00	0.00	0.07	0.00	0.0000
2805009200	Poultry production - broilers; manure handling and storage	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.0000
2805009300	Poultry production - broilers; Land Application and storage	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.0000
2805010100	Poultry production - turkeys; Confinement	0.00	0.00	0.00	0.00	0.00	0.28	0.00	0.0000
2805010200	Poultry production - turkeys; Manure handling and storage	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.0000
2805010300	Poultry production - turkeys; Land application and storage	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.0000
2805018000	Dairy cattle composite; Not Elsewhere Classified	0.00	0.00	0.00	0.00	0.00	16.37	0.00	0.0000
2805019100	Dairy cattle - flush dairy; Confinement	0.00	0.00	0.00	0.00	0.00	0.58	0.00	0.0000

Table 1
2011 Annual Emissions (TPY) by County, Sector and SCC for Area Sources

Scc	Scc Description	Area Source Emissions (TPY)							
		VOC	NOx	CO	PM10	PM2.5	NH3	SO2	Lead
2805019200	Dairy cattle - flush dairy; Manure handling and storage	0.00	0.00	0.00	0.00	0.00	1.62	0.00	0.0000
2805019300	Dairy cattle - flush dairy; Land application of manure	0.00	0.00	0.00	0.00	0.00	0.15	0.00	0.0000
2805021100	Dairy cattle - scrape dairy; Confinement	0.00	0.00	0.00	0.00	0.00	4.42	0.00	0.0000
2805021200	Dairy cattle - scrape dairy; Manure handling and storage	0.00	0.00	0.00	0.00	0.00	5.07	0.00	0.0000

Table 1
2011 Annual Emissions (TPY) by County, Sector and SCC for Area Sources

Scc	Scc Description	Area Source Emissions (TPY)							
		VOC	NOx	CO	PM10	PM2.5	NH3	SO2	Lead
2805021300	Dairy cattle - scrape dairy; Land application of manure	0.00	0.00	0.00	0.00	0.00	9.49	0.00	0.0000
2805022100	Dairy cattle - deep pit dairy; Confinement	0.00	0.00	0.00	0.00	0.00	0.51	0.00	0.0000
2805022200	Dairy cattle - deep pit dairy; Manure handling and storage	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.0000
2805022300	Dairy cattle - deep pit dairy; Land application of manure	0.00	0.00	0.00	0.00	0.00	0.29	0.00	0.0000
2805023100	Dairy cattle - drylot/pasture dairy; Confinement	0.00	0.00	0.00	0.00	0.00	3.76	0.00	0.0000
2805023200	Dairy cattle - drylot/pasture dairy; Manure handling and storage	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.0000
2805023300	Dairy cattle - drylot/pasture dairy; Land application of manure	0.00	0.00	0.00	0.00	0.00	4.75	0.00	0.0000
2805025000	Swine production composite; Not Elsewhere Classified	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2805030000	Poultry Waste Emissions; Not Elsewhere Classified	0.00	0.00	0.00	0.00	0.00	0.08	0.00	0.0000
2805030007	Poultry Waste Emissions; Ducks	0.00	0.00	0.00	0.00	0.00	0.28	0.00	0.0000
2805030008	Poultry Waste Emissions; Geese	0.00	0.00	0.00	0.00	0.00	0.09	0.00	0.0000
2805035000	Horses and Ponies Waste Emissions; Not Elsewhere Classified	0.00	0.00	0.00	0.00	0.00	24.95	0.00	0.0000
2805039100	Swine production - operations with lagoons (unspecified animal age); Confinement	0.00	0.00	0.00	0.00	0.00	0.90	0.00	0.0000
2805039200	Swine production - operations with lagoons (unspecified animal age); Manure handling and storage	0.00	0.00	0.00	0.00	0.00	1.82	0.00	0.0000
2805039300	Swine production - operations with lagoons (unspecified animal age); Land application of manure	0.00	0.00	0.00	0.00	0.00	0.15	0.00	0.0000
2805040000	Sheep and Lambs Waste Emissions; Total	0.00	0.00	0.00	0.00	0.00	1.80	0.00	0.0000
2805045000	Goats Waste Emissions; Not Elsewhere Classified	0.00	0.00	0.00	0.00	0.00	6.61	0.00	0.0000
2805047100	Swine production - deep-pit house operations (unspecified animal age); Confinement	0.00	0.00	0.00	0.00	0.00	1.26	0.00	0.0000
2805047300	Swine production - deep-pit house operations (unspecified animal age); Land application of manure	0.00	0.00	0.00	0.00	0.00	0.59	0.00	0.0000

Table 1
2011 Annual Emissions (TPY) by County, Sector and SCC for Area Sources

Scc	Scc Description	Area Source Emissions (TPY)							
		VOC	NOx	CO	PM10	PM2.5	NH3	SO2	Lead
2805053100	Swine production - outdoor operations (unspecified animal age); Confinement	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.0000
Totals For: Agriculture - Livestock Waste		0.00	0.00	0.00	0.00	0.00	95.36	0.00	0.0000
Sector: Aircraft									
2275087000	In-flight (non-Landing-Takeoff cycle) Lead Emissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000

Table 1
2011 Annual Emissions (TPY) by County, Sector and SCC for Area Sources

Scc	Scc Description	Area Source Emissions (TPY)							
		VOC	NOx	CO	PM10	PM2.5	NH3	SO2	Lead
Totals For: Aircraft		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
Sector:	Bulk Gasoline Terminals								
2501050120	Gasoline Distribution Stage I; Bulk Terminals	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2501055120	Gasoline Distribution Stage I; Bulk Plants	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2505030120	Gasoline Distribution Stage I; Tank Trucks in Transit	12.42	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2505040120	Gasoline Distribution Stage I; Bulk Terminals	224.38	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
Totals For: Bulk Gasoline Terminals		236.79	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
Sector:	Commercial Cooking								
2302002100	Commercial Cooking: Conveyorized Charbroiling	7.55	0.00	25.23	30.20	29.27	0.00	0.00	0.0000
2302002200	Commercial Cooking: Under-fired Charbroiling	25.67	0.00	84.01	214.11	206.98	0.00	0.00	0.0000
2302003000	Commercial Cooking: Deep Fat Frying	3.88	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2302003100	Commercial Cooking: Flat Griddle Frying	3.42	0.00	7.06	57.05	43.36	0.00	0.00	0.0000
2302003200	Commercial Cooking: Clamshell Griddle Frying	0.12	0.00	0.00	3.44	2.90	0.00	0.00	0.0000
Totals For: Commercial Cooking		40.65	0.00	116.30	304.80	282.52	0.00	0.00	0.0000
Sector:	Commercial/ Institutional Fuel Combustion								
2103001000	Fuel Combustion; Commercial/Institutional; Anthra Coal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2103002000	Fuel Combustion; Commercial/Institutional; Bit Coal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2103004001	Fuel Combustion; Commercial/Institutional; Distillate Oil Boiler	2.35	138.30	34.58	16.46	14.73	5.53	292.18	0.0086
2103004002	Fuel Combustion; Commercial/Institutional; Distillate Oil IC Engine	0.00	205.48	44.23	33.24	33.24	0.00	0.00	0.0000
2103005000	Fuel Combustion; Commercial/Institutional; Residual Oil	0.78	37.80	3.44	11.30	4.84	0.55	108.18	0.0011

Table 1
2011 Annual Emissions (TPY) by County, Sector and SCC for Area Sources

Scc	Scc Description	Area Source Emissions (TPY)							
		VOC	NOx	CO	PM10	PM2.5	NH3	SO2	Lead
2103006000	Fuel Combustion; Commercial/Institutional; Natural Gas	30.11	547.52	459.92	2.85	2.35	2.68	3.29	0.0027
2103007000	Fuel Combustion; Commercial/Institutional; Liquified Petroleum Gas	1.32	36.24	20.30	0.13	0.10	0.13	0.15	0.0001
2103008000	Fuel Combustion; Commercial/Institutional; Wood	1.05	13.53	36.90	31.80	27.49	0.31	1.54	0.0000
2103011000	Fuel Combustion; Commercial/Institutional; Kerosene	0.02	0.98	0.24	0.12	0.11	0.04	2.17	0.0001

Table 1
2011 Annual Emissions (TPY) by County, Sector and SCC for Area Sources

Scc	Scc Description	Area Source Emissions (TPY)							
		VOC	NOx	CO	PM10	PM2.5	NH3	SO2	Lead
Totals For: Commercial/ Institutional Fuel Combustion		35.63	979.85	599.60	95.88	82.86	9.24	407.51	0.0127
Sector:	Dust - Construction Dust								
2311010000	Construction - Residential	0.00	0.00	0.00	25.39	2.54	0.00	0.00	0.0000
2311020000	Construction - Non-Residential	0.00	0.00	0.00	914.08	91.41	0.00	0.00	0.0000
2311030000	Construction - Road	0.00	0.00	0.00	649.90	64.99	0.00	0.00	0.0000
Totals For: Dust - Construction Dust		0.00	0.00	0.00	1,589.36	158.94	0.00	0.00	0.0000
Sector:	Dust - Paved Road Dust								
2294000000	Roads, Paved	0.00	0.00	0.00	2,129.19	532.30	0.00	0.00	0.0000
Totals For: Dust - Paved Road Dust		0.00	0.00	0.00	2,129.19	532.30	0.00	0.00	0.0000
Sector:	Dust - Unpaved Road Dust								
2296000000	Roads, Unpaved	0.00	0.00	0.00	829.45	82.49	0.00	0.00	0.0000
Totals For: Dust - Unpaved Road Dust		0.00	0.00	0.00	829.45	82.49	0.00	0.00	0.0000
Sector:	Event								
2810001000	Forest Wildfires	0.71	0.07	2.99	0.33	0.28	0.05	0.03	0.0000
2811015000	Prescribed Forest Burning	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
Totals For: Event		0.71	0.07	2.99	0.33	0.28	0.05	0.03	0.0000
Sector:	Fires - Agricultural Field Burning								
2801500000	Agric - Crops /Field Burning - whole field set on fire /Unspecified crop type and Burn Method	0.55	0.31	7.99	1.43	0.82	0.00	0.13	0.0000
Totals For: Fires - Agricultural Field Burning		0.55	0.31	7.99	1.43	0.82	0.00	0.13	0.0000

Table 1
2011 Annual Emissions (TPY) by County, Sector and SCC for Area Sources

Scc	Scc Description	Area Source Emissions (TPY)							
		VOC	NOx	CO	PM10	PM2.5	NH3	SO2	Lead
Sector: Gas Stations									
2201000062	Gasoline Distribution Stage II; Gasoline Service Stations, Stage 2	95.54	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2202000062	Gasoline Distribution Stage II; Diesel Service Stations, Stage 2	12.35	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2501060051	Gasoline Distribution Stage I; Gasoline Service Station Unloading Submerged filling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2501060052	Gasoline Distribution Stage I; Gasoline Service Station Unloading Splash filling	168.81	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2501060053	Gasoline Distribution Stage I; Gasoline Service Station Unloading Balanced Submerged filling	122.18	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2501060201	Gasoline Distribution Stage I; Underground storage tank, breathing and emptying	189.88	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2501080050	Aviation Gasoline Distribution: Stage I	35.81	0.00	0.00	0.00	0.00	0.00	0.00	0.0004
2501080100	Aviation Gasoline Distribution: Stage II	1.86	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
Totals For: Gas Stations		626.42	0.00	0.00	0.00	0.00	0.00	0.00	0.0004
Sector: INDUSTRIAL FUEL COMBUSTION									
2102001000	Fuel Combustion; Industrial; Anthr Coal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2102002000	Fuel Combustion; Industrial; Bit Coal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2102004001	Fuel Combustion; Industrial; Distillate oil Boiler	0.37	37.25	9.31	4.28	2.89	1.49	78.71	0.0023
2102004002	Fuel Combustion; Industrial; Distillate oil IC Engine	0.00	23.37	5.03	3.77	3.67	0.00	0.00	0.0000
2102005000	Fuel Combustion; Industrial; Residual Oil	0.04	7.11	0.65	2.87	1.94	0.10	20.36	0.0002
2102006000	Fuel Combustion; Industrial; Natural Gas	5.60	101.89	85.59	0.55	0.44	3.26	0.61	0.0005
2102007000	Fuel Combustion; Industrial; Liquified Petroleum Gas (LPG)	1.43	39.07	21.88	0.14	0.11	0.82	0.16	0.0000
2102008000	Fuel Combustion; Industrial; Wood	8.41	108.83	296.80	255.74	221.11	3.46	12.37	0.0000

Table 1
2011 Annual Emissions (TPY) by County, Sector and SCC for Area Sources

Scc	Scc Description	Area Source Emissions (TPY)							
		VOC	NOx	CO	PM10	PM2.5	NH3	SO2	Lead
2102011000	Fuel Combustion; Industrial; Kerosene	0.16	16.12	4.03	1.85	1.24	0.64	35.59	0.0010
Totals For: INDUSTRIAL FUEL COMBUSTION		16.01	333.64	423.28	269.20	231.40	9.78	147.80	0.0041
Sector: Industrial Processes - Mining									
2325000000	Mining and Quarrying	0.00	0.00	0.00	433.59	54.20	0.00	0.00	0.0000
Totals For: Industrial Processes - Mining		0.00	0.00	0.00	433.59	54.20	0.00	0.00	0.0000

Table 1
2011 Annual Emissions (TPY) by County, Sector and SCC for Area Sources

Scc	Scc Description	Area Source Emissions (TPY)							
		VOC	NOx	CO	PM10	PM2.5	NH3	SO2	Lead
Sector:	Industrial Processes - Storage and Transfer								
2501011011	portable fuel containers, residential, permeation	23.88	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2501011012	portable fuel containers, residential, evaporation (includes diurnal losses)	46.63	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2501011013	portable fuel containers, residential, spilling during transport	34.96	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2501011014	portable fuel containers, residential, refilling at the pump, vapor displacement	10.03	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2501011015	portable fuel containers, residential, refilling at the pump, spillage	1.15	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2501012011	portable fuel containers, commercial, permeation	0.76	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2501012012	portable fuel containers, commercial, evaporation (includes diurnal losses)	1.49	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2501012013	portable fuel containers, commercial, spilling during transport	47.69	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2501012014	portable fuel containers, commercial, refilling at the pump, vapor displacement	19.34	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2501012015	portable fuel containers, commercial, refilling at the pump, spillage	2.21	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
Totals For:	Industrial Processes - Storage and Transfer	188.15	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
Sector:	Miscellaneous Non-Industrial NEC								
2810060100	Cremation - Human	0.01	2.84	0.01	0.19	0.19	0.00	0.44	0.0011
2810060200		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2850001000	Dental Preparation and Use	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2851001000	General Laboratory Activities	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2861000000	Lamp Breakage (Landfill emissions)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2861000010	Lamp (Fluorescent) Recycling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000

Table 1
2011 Annual Emissions (TPY) by County, Sector and SCC for Area Sources

Sec	Sec Description	Area Source Emissions (TPY)							
		VOC	NOx	CO	PM10	PM2.5	NH3	SO2	Lead
Totals For: Miscellaneous Non-Industrial NEC		0.01	2.84	0.01	0.19	0.19	0.00	0.44	0.0011

Table 1
2011 Annual Emissions (TPY) by County, Sector and SCC for Area Sources

Scc	Scc Description	Area Source Emissions (TPY)							
		VOC	NOx	CO	PM10	PM2.5	NH3	SO2	Lead
Sector:	Residential Heating								
2104001000	Residential Heating: Anthracite Coal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2104002000	Residential Heating: Bituminous Coal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2104004000	Residential Heating: Distillate Oil	40.31	1,036.64	287.95	137.07	122.67	57.59	2,453.37	0.0728
2104006000	Residential Heating: Natural Gas	43.51	743.55	316.40	4.11	3.40	158.20	4.75	0.0000
2104007000	Residential Heating: LPG	4.34	118.28	66.22	0.41	0.34	0.39	0.47	0.0000
2104008100	Residential Heating: Fireplaces (cordwood)	100.45	13.82	791.88	125.43	125.43	9.57	2.13	0.0000
2104008210	Residential Heating: Inserts non certified	288.06	15.22	1,254.43	166.32	166.32	9.24	2.17	0.0000
2104008220	Residential Heating: Inserts EPA certified non-cat	20.92	3.97	245.44	34.17	34.17	1.57	0.70	0.0000
2104008230	Residential Heating: Inserts EPA certified cat	8.72	1.16	60.72	11.87	11.87	0.52	0.23	0.0000
2104008310	Residential Heating: free standing WS non certified	1,022.81	54.04	4,454.04	590.53	590.53	32.81	7.72	0.0000
2104008320	Residential Heating: free standing WS EPA certified non-cat	74.24	14.11	871.08	121.26	121.26	5.57	2.47	0.0000
2104008330	Residential Heating: free standing WS EPA certified cat	30.93	4.12	215.26	42.06	42.06	1.86	0.82	0.0000
2104008400	Residential Heating: pellet stoves	0.33	31.03	129.84	24.99	24.99	2.45	2.61	0.0000
2104008510	Residential Heating: furnace indoor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2104008610	Residential Heating: Hydronic heater: outdoor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2104008700	Residential Heating: Outdoor wood burning device, NEC	39.27	5.40	309.61	49.04	49.04	3.74	0.83	0.0000
2104009000	Residential Heating: Firelog	69.14	13.43	218.60	51.24	49.63	0.00	0.00	0.0000
2104011000	Residential Heating: Kerosene	0.14	3.64	1.01	0.48	0.43	0.20	8.62	0.0003
Totals For:	Residential Heating	1,743.17	2,058.40	9,222.49	1,358.96	1,342.12	283.70	2,486.90	0.0731

Table 1
2011 Annual Emissions (TPY) by County, Sector and SCC for Area Sources

Scc	Scc Description	Area Source Emissions (TPY)							
		VOC	NOx	CO	PM10	PM2.5	NH3	SO2	Lead
Sector:	Solvent - Consumer & Commercial Solvent Use								
2460100000	C&C: Cosmetics and Toiletries	849.32	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2460200000	C&C: Cleaning Products; Household	804.62	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2460400000	C&C: Auto Aftermarket	607.93	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2460500000	C&C: Coatings and Related Products	424.66	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2460600000	C&C: adhesives and sealants	254.79	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2460800000	C&C: FIFRA Regulated Products	795.67	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2460900000	C&C: Misc. Products (not otherwise covered)	31.29	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2461021000	Cutback Asphalt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2461022000	Emulsified Asphalt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2461850000	Ag Pesticide	27.73	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
Totals For:	Solvent - Consumer & Commercial Solvent Use	3,796.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
Sector:	Solvent - Degreasing								
2415000000	Degreasing	951.12	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
Totals For:	Solvent - Degreasing	951.12	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
Sector:	Solvent - Dry Cleaning								
2420000000	Dry Cleaning	3.06	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
Totals For:	Solvent - Dry Cleaning	3.06	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
Sector:	Solvent - Graphic Arts								
2425000000	Graphic Arts	291.92	0.00	0.00	0.00	0.00	0.00	0.00	0.0000

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Table 1
2011 Annual Emissions (TPY) by County, Sector and SCC for Area Sources

Sec	Sec Description	Area Source Emissions (TPY)							
		VOC	NOx	CO	PM10	PM2.5	NH3	SO2	Lead
Totals For: Solvent - Graphic Arts		291.92	0.00	0.00	0.00	0.00	0.00	0.00	0.0000

Table 1
2011 Annual Emissions (TPY) by County, Sector and SCC for Area Sources

Sector:	Scc	Scc Description	Area Source Emissions (TPY)							
			VOC	NOx	CO	PM10	PM2.5	NH3	SO2	Lead
		Solvent - Industrial Surface Coating & Solvent Use								
	2401005000	Auto Refinishing SIC 7532	224.23	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
	2401008000	Surface Coating - Traffic Markings	0.61	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
	2401015000	Surface Coating - Factory Finished Wood: SIC 2426 thru 242	5.79	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
	2401020000	Surface Coating - Wood Furniture	229.76	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
	2401025000	Surface Coating - Metal Furniture: SIC 25	82.76	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
	2401030000	Surface Coating - Paper, foil, and film	41.79	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
	2401040000	Surface Coating - Metal Can Coating	79.34	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
	2401045000	Surface Coating - Sheet, strip, and coil	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
	2401055000	Surface Coating - Machinery and Equipment: SIC 35	9.77	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
	2401060000	Surface Coating - Large Appliances: SIC 363	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
	2401065000	Surface Coating - Electronic and other Electric Coatings	5.69	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
	2401070000	Surface Coating - Motor Vehicles	16.07	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
	2401075000	Surface Coating - Aircraft	76.05	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
	2401080000	Surface Coating - Marine	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
	2401085000	Surface Coating - Railroad	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
	2401090000	Surface Coating - Miscellaneous Manufacturing	96.38	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
	2401100000	Industrial Maintenance Coatings	67.05	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
	2401200000	Other Special Purpose Coatings	28.61	0.00	0.00	0.00	0.00	0.00	0.00	0.0000

Table 1
2011 Annual Emissions (TPY) by County, Sector and SCC for Area Sources

Scc	Scc Description	Area Source Emissions (TPY)							
		VOC	NOx	CO	PM10	PM2.5	NH3	SO2	Lead
Totals For: Solvent - Industrial Surface Coating & Solvent		963.91	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
Sector: Solvent - Non-Industrial Surface Coating									
2401001000	Architectural Coatings	840.38	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
Totals For: Solvent - Non-Industrial Surface Coating		840.38	0.00	0.00	0.00	0.00	0.00	0.00	0.0000

Table 1
2011 Annual Emissions (TPY) by County, Sector and SCC for Area Sources

Scc	Scc Description	Area Source Emissions (TPY)							
		VOC	NOx	CO	PM10	PM2.5	NH3	SO2	Lead
Sector:	Waste Disposal								
2610000100	Open Burning - Yard Waste - Leaves	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2610000400	Open Burning - Yard Waste - Brush	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2610000500	Open Burning - Land Clearing Debris	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2610030000	Open Burning - Household Waste	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2620030001		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2630020000	Publically Owned Treatment Works (POTW)	5.14	0.00	0.00	0.00	0.00	1.02	0.00	0.0000
2650000000		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2650000002		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
Totals For: Waste Disposal		5.14	0.00	0.00	0.00	0.00	1.02	0.00	0.0000
Totals For: Hartford County		9,739.61	3,375.11	10,372.67	7,142.27	2,794.09	471.28	3,042.81	0.0913

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Table 1
2011 Annual Emissions (TPY) by County, Sector and SCC for Area Sources

Scc	Scc Description	Area Source Emissions (TPY)							
		VOC	NOx	CO	PM10	PM2.5	NH3	SO2	Lead
Litchfield	County								
Sector:	Agriculture - Crops & Livestock Dust								
280100003	Agricultural Tilling	0.00	0.00	0.00	152.74	30.55	0.00	0.00	0.0000
Totals For:	Agriculture - Crops & Livestock Dust	0.00	0.00	0.00	152.74	30.55	0.00	0.00	0.0000
Sector:	Agriculture - Fertilizer Application								
2801700001	Fertilizer Application; Anhydrous Ammonia	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2801700002	Fertilizer Application; Aqueous Ammonia	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2801700003	Fertilizer Application; Nitrogen Solutions	0.00	0.00	0.00	0.00	0.00	0.59	0.00	0.0000
2801700004	Fertilizer Application; Urea	0.00	0.00	0.00	0.00	0.00	27.05	0.00	0.0000
2801700005	Fertilizer Application; Ammonium Nitrate	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.0000
2801700006	Fertilizer Application; Ammonium Sulfate	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.0000
2801700007	Fertilizer Application; Ammonium Thiosulfate	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2801700010	Fertilizer Application; N-P-K (mult-grade nutrient fertilizers)	0.00	0.00	0.00	0.00	0.00	13.06	0.00	0.0000
2801700011	Fertilizer Application; Calcium Ammonium Nitrate	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2801700012	Fertilizer Application; Potassium Nitrate	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2801700013	Fertilizer Application; Diammonium Phosphate	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2801700014	Fertilizer Application; Monoammonium Phosphate	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.0000
2801700015	Fertilizer Application; Liquid Ammonium Polyphosphate	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2801700099	Fertilizer Application; Miscellaneous Fertilizers	0.00	0.00	0.00	0.00	0.00	54.51	0.00	0.0000
Totals For:	Agriculture - Fertilizer Application	0.00	0.00	0.00	0.00	0.00	95.30	0.00	0.0000

Table 1
2011 Annual Emissions (TPY) by County, Sector and SCC for Area Sources

Scc	Scc Description	Area Source Emissions (TPY)							
		VOC	NOx	CO	PM10	PM2.5	NH3	SO2	Lead
Sector:	Agriculture - Livestock Waste								
2805001100	Beef cattle - finishing operations on feedlots (drylots); Confinement	0.00	0.00	0.00	0.00	0.00	0.44	0.00	0.0000
2805001200	Beef cattle - finishing operations on feedlots (drylots); Manure handling and storage	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2805001300	Beef cattle - finishing operations on feedlots (drylots); Land application of manure	0.00	0.00	0.00	0.00	0.00	0.33	0.00	0.0000
2805002000	Beef cattle production composite; Not Elsewhere Classified	0.00	0.00	0.00	0.00	0.00	5.60	0.00	0.0000
2805003100	Beef cattle - finishing operations on pasture/range :Confinement	0.00	0.00	0.00	0.00	0.00	5.94	0.00	0.0000
2805007100	Poultry production - layers with dry manure management systems; Confinement	0.00	0.00	0.00	0.00	0.00	3.12	0.00	0.0000
2805007300	Poultry production - layers with dry manure management systems; Land application of manure	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.0000
2805008100	Poultry production - layers with wet manure management systems; Confinement	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.0000
2805008200	Poultry production - layers with wet manure management systems; Manure handling and storage	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.0000
2805008300	Poultry production - layers with wet manure management systems :Land application of manure	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.0000
2805009100	Poultry production - broilers; Confinement	0.00	0.00	0.00	0.00	0.00	0.10	0.00	0.0000
2805009200	Poultry production - broilers; manure handling and storage	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.0000
2805009300	Poultry production - broilers; Land Application and storage	0.00	0.00	0.00	0.00	0.00	0.08	0.00	0.0000
2805010100	Poultry production - turkeys; Confinement	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.0000
2805010200	Poultry production - turkeys; Manure handling and storage	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.0000
2805010300	Poultry production - turkeys; Land application and storage	0.00	0.00	0.00	0.00	0.00	0.10	0.00	0.0000
2805018000	Dairy cattle composite; Not Elsewhere Classified	0.00	0.00	0.00	0.00	0.00	78.80	0.00	0.0000
2805019100	Dairy cattle - flush dairy; Confinement	0.00	0.00	0.00	0.00	0.00	2.85	0.00	0.0000

Table 1
2011 Annual Emissions (TPY) by County, Sector and SCC for Area Sources

Scc	Scc Description	Area Source Emissions (TPY)							
		VOC	NOx	CO	PM10	PM2.5	NH3	SO2	Lead
2805019200	Dairy cattle - flush dairy; Manure handling and storage	0.00	0.00	0.00	0.00	0.00	7.97	0.00	0.0000
2805019300	Dairy cattle - flush dairy; Land application of manure	0.00	0.00	0.00	0.00	0.00	0.75	0.00	0.0000
2805021100	Dairy cattle - scrape dairy; Confinement	0.00	0.00	0.00	0.00	0.00	21.65	0.00	0.0000
2805021200	Dairy cattle - scrape dairy; Manure handling and storage	0.00	0.00	0.00	0.00	0.00	24.82	0.00	0.0000

Table 1
2011 Annual Emissions (TPY) by County, Sector and SCC for Area Sources

Scc	Scc Description	Area Source Emissions (TPY)							
		VOC	NOx	CO	PM10	PM2.5	NH3	SO2	Lead
2805021300	Dairy cattle - scrape dairy; Land application of manure	0.00	0.00	0.00	0.00	0.00	46.46	0.00	0.0000
2805022100	Dairy cattle - deep pit dairy; Confinement	0.00	0.00	0.00	0.00	0.00	2.49	0.00	0.0000
2805022200	Dairy cattle - deep pit dairy; Manure handling and storage	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.0000
2805022300	Dairy cattle - deep pit dairy; Land application of manure	0.00	0.00	0.00	0.00	0.00	1.40	0.00	0.0000
2805023100	Dairy cattle - drylot/pasture dairy; Confinement	0.00	0.00	0.00	0.00	0.00	18.35	0.00	0.0000
2805023200	Dairy cattle - drylot/pasture dairy; Manure handling and storage	0.00	0.00	0.00	0.00	0.00	0.20	0.00	0.0000
2805023300	Dairy cattle - drylot/pasture dairy; Land application of manure	0.00	0.00	0.00	0.00	0.00	23.23	0.00	0.0000
2805025000	Swine production composite; Not Elsewhere Classified	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2805030000	Poultry Waste Emissions; Not Elsewhere Classified	0.00	0.00	0.00	0.00	0.00	0.13	0.00	0.0000
2805030007	Poultry Waste Emissions; Ducks	0.00	0.00	0.00	0.00	0.00	0.41	0.00	0.0000
2805030008	Poultry Waste Emissions; Geese	0.00	0.00	0.00	0.00	0.00	0.32	0.00	0.0000
2805035000	Horses and Ponies Waste Emissions; Not Elsewhere Classified	0.00	0.00	0.00	0.00	0.00	31.94	0.00	0.0000
2805039100	Swine production - operations with lagoons (unspecified animal age); Confinement	0.00	0.00	0.00	0.00	0.00	0.79	0.00	0.0000
2805039200	Swine production - operations with lagoons (unspecified animal age); Manure handling and storage	0.00	0.00	0.00	0.00	0.00	1.61	0.00	0.0000
2805039300	Swine production - operations with lagoons (unspecified animal age); Land application of manure	0.00	0.00	0.00	0.00	0.00	0.13	0.00	0.0000
2805040000	Sheep and Lambs Waste Emissions; Total	0.00	0.00	0.00	0.00	0.00	4.41	0.00	0.0000
2805045000	Goats Waste Emissions; Not Elsewhere Classified	0.00	0.00	0.00	0.00	0.00	5.32	0.00	0.0000
2805047100	Swine production - deep-pit house operations (unspecified animal age); Confinement	0.00	0.00	0.00	0.00	0.00	1.11	0.00	0.0000
2805047300	Swine production - deep-pit house operations (unspecified animal age); Land application of manure	0.00	0.00	0.00	0.00	0.00	0.52	0.00	0.0000

Table 1
2011 Annual Emissions (TPY) by County, Sector and SCC for Area Sources

Scc	Scc Description	Area Source Emissions (TPY)							
		VOC	NOx	CO	PM10	PM2.5	NH3	SO2	Lead
2805053100	Swine production - outdoor operations (unspecified animal age); Confinement	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.0000
Totals For: Agriculture - Livestock Waste		0.00	0.00	0.00	0.00	0.00	291.90	0.00	0.0000
Sector: Aircraft									
2275087000	In-flight (non-Landing-Takeoff cycle) Lead Emissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000

Table 1
2011 Annual Emissions (TPY) by County, Sector and SCC for Area Sources

Scc	Scc Description	Area Source Emissions (TPY)							
		VOC	NOx	CO	PM10	PM2.5	NH3	SO2	Lead
Totals For: Aircraft		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
Sector:	Bulk Gasoline Terminals								
2501050120	Gasoline Distribution Stage I; Bulk Terminals	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2501055120	Gasoline Distribution Stage I; Bulk Plants	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2505030120	Gasoline Distribution Stage I; Tank Trucks in Transit	2.55	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2505040120	Gasoline Distribution Stage I; Bulk Terminals	71.32	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
Totals For: Bulk Gasoline Terminals		73.87	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
Sector:	Commercial Cooking								
2302002100	Commercial Cooking: Conveyorized Charbroiling	1.48	0.00	4.95	5.92	5.74	0.00	0.00	0.0000
2302002200	Commercial Cooking: Under-fired Charbroiling	5.13	0.00	16.81	42.86	41.44	0.00	0.00	0.0000
2302003000	Commercial Cooking: Deep Fat Frying	0.75	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2302003100	Commercial Cooking: Flat Griddle Frying	0.69	0.00	1.45	11.74	8.91	0.00	0.00	0.0000
2302003200	Commercial Cooking: Clamshell Griddle Frying	0.02	0.00	0.00	0.60	0.51	0.00	0.00	0.0000
Totals For: Commercial Cooking		8.08	0.00	23.21	61.12	56.59	0.00	0.00	0.0000
Sector:	Commercial/ Institutional Fuel Combustion								
2103001000	Fuel Combustion; Commercial/Institutional; Anthra Coal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2103002000	Fuel Combustion; Commercial/Institutional; Bit Coal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2103004001	Fuel Combustion; Commercial/Institutional; Distillate Oil Boiler	0.26	15.43	3.86	1.84	1.64	0.62	32.59	0.0010
2103004002	Fuel Combustion; Commercial/Institutional; Distillate Oil IC Engine	0.00	22.92	4.93	3.70	3.70	0.00	0.00	0.0000
2103005000	Fuel Combustion; Commercial/Institutional; Residual Oil	0.09	4.22	0.38	1.26	0.54	0.06	12.07	0.0001

Table 1
2011 Annual Emissions (TPY) by County, Sector and SCC for Area Sources

Scc	Scc Description	Area Source Emissions (TPY)							
		VOC	NOx	CO	PM10	PM2.5	NH3	SO2	Lead
2103006000	Fuel Combustion; Commercial/Institutional; Natural Gas	3.36	61.07	51.30	0.32	0.26	0.30	0.37	0.0003
2103007000	Fuel Combustion; Commercial/Institutional; Liquified Petroleum Gas	0.15	4.04	2.26	0.01	0.01	0.01	0.02	0.0000
2103008000	Fuel Combustion; Commercial/Institutional; Wood	0.12	1.51	4.12	3.55	3.07	0.03	0.17	0.0000
2103011000	Fuel Combustion; Commercial/Institutional; Kerosene	0.00	0.11	0.03	0.01	0.01	0.00	0.24	0.0000

Table 1
2011 Annual Emissions (TPY) by County, Sector and SCC for Area Sources

Scc	Scc Description	Area Source Emissions (TPY)							
		VOC	NOx	CO	PM10	PM2.5	NH3	SO2	Lead
Totals For: Commercial/ Institutional Fuel Combustion		3.97	109.30	66.88	10.69	9.24	1.03	45.46	0.0014
Sector:	Dust - Construction Dust								
2311010000	Construction - Residential	0.00	0.00	0.00	5.49	0.55	0.00	0.00	0.0000
2311020000	Construction - Non-Residential	0.00	0.00	0.00	181.97	18.20	0.00	0.00	0.0000
2311030000	Construction - Road	0.00	0.00	0.00	163.26	16.33	0.00	0.00	0.0000
Totals For: Dust - Construction Dust		0.00	0.00	0.00	350.72	35.07	0.00	0.00	0.0000
Sector:	Dust - Paved Road Dust								
2294000000	Roads, Paved	0.00	0.00	0.00	689.46	172.37	0.00	0.00	0.0000
Totals For: Dust - Paved Road Dust		0.00	0.00	0.00	689.46	172.37	0.00	0.00	0.0000
Sector:	Dust - Unpaved Road Dust								
2296000000	Roads, Unpaved	0.00	0.00	0.00	1,350.37	134.30	0.00	0.00	0.0000
Totals For: Dust - Unpaved Road Dust		0.00	0.00	0.00	1,350.37	134.30	0.00	0.00	0.0000
Sector:	Event								
2810001000	Forest Wildfires	47.72	4.60	200.06	22.02	18.66	3.32	2.07	0.0000
2811015000	Prescribed Forest Burning	33.45	3.40	140.01	15.57	13.20	2.33	1.51	0.0000
Totals For: Event		81.17	7.99	340.07	37.59	31.86	5.65	3.58	0.0000
Sector:	Fires - Agricultural Field Burning								
2801500000	Agric - Crops /Field Burning - whole field set on fire /Unspecified crop type and Burn Method	0.88	0.38	14.90	2.63	1.85	0.00	0.09	0.0000
Totals For: Fires - Agricultural Field Burning		0.88	0.38	14.90	2.63	1.85	0.00	0.09	0.0000

Table 1
2011 Annual Emissions (TPY) by County, Sector and SCC for Area Sources

Scc	Scc Description	Area Source Emissions (TPY)							
		VOC	NOx	CO	PM10	PM2.5	NH3	SO2	Lead
Sector: Gas Stations									
2201000062	Gasoline Distribution Stage II; Gasoline Service Stations, Stage 2	16.52	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2202000062	Gasoline Distribution Stage II; Diesel Service Stations, Stage 2	1.58	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2501060051	Gasoline Distribution Stage I; Gasoline Service Station Unloading Submerged filling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2501060052	Gasoline Distribution Stage I; Gasoline Service Station Unloading Splash filling	34.77	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2501060053	Gasoline Distribution Stage I; Gasoline Service Station Unloading Balanced Submerged filling	25.16	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2501060201	Gasoline Distribution Stage I; Underground storage tank, breathing and emptying	39.06	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2501080050	Aviation Gasoline Distribution: Stage I	13.68	0.00	0.00	0.00	0.00	0.00	0.00	0.0001
2501080100	Aviation Gasoline Distribution: Stage II	0.71	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
Totals For: Gas Stations		131.47	0.00	0.00	0.00	0.00	0.00	0.00	0.0001
Sector: INDUSTRIAL FUEL COMBUSTION									
2102001000	Fuel Combustion; Industrial; Anthr Coal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2102002000	Fuel Combustion; Industrial; Bit Coal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2102004001	Fuel Combustion; Industrial; Distillate oil Boiler	0.07	6.56	1.64	0.75	0.51	0.26	13.87	0.0004
2102004002	Fuel Combustion; Industrial; Distillate oil IC Engine	0.00	4.12	0.89	0.64	0.63	0.00	0.00	0.0000
2102005000	Fuel Combustion; Industrial; Residual Oil	0.01	1.25	0.11	0.51	0.34	0.02	3.59	0.0000
2102006000	Fuel Combustion; Industrial; Natural Gas	0.99	17.96	15.08	0.10	0.08	0.57	0.11	0.0001
2102007000	Fuel Combustion; Industrial; Liquified Petroleum Gas (LPG)	0.25	6.88	3.86	0.02	0.01	0.15	0.03	0.0000
2102008000	Fuel Combustion; Industrial; Wood	1.48	19.18	52.30	45.06	38.96	0.61	2.18	0.0000

Table 1
2011 Annual Emissions (TPY) by County, Sector and SCC for Area Sources

Scc	Scc Description	Area Source Emissions (TPY)							
		VOC	NOx	CO	PM10	PM2.5	NH3	SO2	Lead
2102011000	Fuel Combustion; Industrial; Kerosene	0.03	2.84	0.71	0.33	0.22	0.11	6.27	0.0002
Totals For: INDUSTRIAL FUEL COMBUSTION		2.82	58.79	74.59	47.42	40.76	1.72	26.04	0.0007
Sector: Industrial Processes - Mining									
2325000000	Mining and Quarrying	0.00	0.00	0.00	324.48	40.56	0.00	0.00	0.0000
Totals For: Industrial Processes - Mining		0.00	0.00	0.00	324.48	40.56	0.00	0.00	0.0000

Table 1
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Scc	Scc Description	Area Source Emissions (TPY)							
		VOC	NOx	CO	PM10	PM2.5	NH3	SO2	Lead
Sector:	Industrial Processes - Storage and Transfer								
2501011011	portable fuel containers, residential, permeation	6.83	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2501011012	portable fuel containers, residential, evaporation (includes diurnal losses)	13.34	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2501011013	portable fuel containers, residential, spilling during transport	10.01	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2501011014	portable fuel containers, residential, refilling at the pump, vapor displacement	2.87	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2501011015	portable fuel containers, residential, refilling at the pump, spillage	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2501012011	portable fuel containers, commercial, permeation	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2501012012	portable fuel containers, commercial, evaporation (includes diurnal losses)	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2501012013	portable fuel containers, commercial, spilling during transport	13.65	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2501012014	portable fuel containers, commercial, refilling at the pump, vapor displacement	5.53	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2501012015	portable fuel containers, commercial, refilling at the pump, spillage	0.63	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
Totals For:	Industrial Processes - Storage and Transfer	53.84	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
Sector:	Miscellaneous Non-Industrial NEC								
2810060100	Cremation - Human	0.00	0.61	0.00	0.04	0.04	0.00	0.09	0.0002
2810060200		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2850001000	Dental Preparation and Use	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2851001000	General Laboratory Activities	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2861000000	Lamp Breakage (Landfill emissions)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2861000010	Lamp (Fluorescent) Recycling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000

Table 1
2011 Annual Emissions (TPY) by County, Sector and SCC for Area Sources

Sec	Sec Description	Area Source Emissions (TPY)							
		VOC	NOx	CO	PM10	PM2.5	NH3	SO2	Lead
Totals For: Miscellaneous Non-Industrial NEC		0.00	0.61	0.00	0.04	0.04	0.00	0.09	0.0002

Table 1
2011 Annual Emissions (TPY) by County, Sector and SCC for Area Sources

Scc	Scc Description	Area Source Emissions (TPY)							
		VOC	NOx	CO	PM10	PM2.5	NH3	SO2	Lead
Sector:	Residential Heating								
2104001000	Residential Heating: Anthracite Coal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2104002000	Residential Heating: Bituminous Coal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2104004000	Residential Heating: Distillate Oil	12.72	327.06	90.85	43.24	38.70	18.17	774.05	0.0230
2104006000	Residential Heating: Natural Gas	2.85	48.70	20.72	0.27	0.22	10.36	0.31	0.0000
2104007000	Residential Heating: LPG	1.10	29.91	16.75	0.10	0.09	0.10	0.12	0.0000
2104008100	Residential Heating: Fireplaces (cordwood)	10.83	1.49	85.36	13.52	13.52	1.03	0.23	0.0000
2104008210	Residential Heating: Inserts non certified	115.13	6.08	501.36	66.47	66.47	3.69	0.87	0.0000
2104008220	Residential Heating: Inserts EPA certified non-cat	8.37	1.59	98.19	13.67	13.67	0.63	0.28	0.0000
2104008230	Residential Heating: Inserts EPA certified cat	3.50	0.47	24.33	4.75	4.75	0.21	0.09	0.0000
2104008310	Residential Heating: free standing WS non certified	347.23	18.34	1,512.09	200.48	200.48	11.14	2.62	0.0000
2104008320	Residential Heating: free standing WS EPA certified non-cat	25.20	4.79	295.68	41.16	41.16	1.89	0.84	0.0000
2104008330	Residential Heating: free standing WS EPA certified cat	10.49	1.40	73.01	14.27	14.27	0.63	0.28	0.0000
2104008400	Residential Heating: pellet stoves	0.05	4.84	20.24	3.90	3.90	0.38	0.41	0.0000
2104008510	Residential Heating: furnace indoor	7.81	1.22	121.48	18.26	18.26	1.19	1.34	0.0000
2104008610	Residential Heating: Hydronic heater: outdoor	101.80	2.78	543.71	96.66	96.66	2.72	3.07	0.0000
2104008700	Residential Heating: Outdoor wood burning device, NEC	2.93	0.40	23.09	3.66	3.66	0.28	0.06	0.0000
2104009000	Residential Heating: Firelog	6.88	1.34	21.74	5.10	4.94	0.00	0.00	0.0000
2104011000	Residential Heating: Kerosene	0.04	1.15	0.32	0.15	0.14	0.06	2.72	0.0001
Totals For:	Residential Heating	656.92	451.55	3,448.94	525.66	520.88	52.48	787.28	0.0231

Table 1
2011 Annual Emissions (TPY) by County, Sector and SCC for Area Sources

Scc	Scc Description	Area Source Emissions (TPY)							
		VOC	NOx	CO	PM10	PM2.5	NH3	SO2	Lead
Sector:	Solvent - Consumer & Commercial Solvent Use								
2460100000	C&C: Cosmetics and Toiletries	180.43	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2460200000	C&C: Cleaning Products; Household	170.93	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2460400000	C&C: Auto Aftermarket	129.15	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2460500000	C&C: Coatings and Related Products	90.22	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2460600000	C&C: adhesives and sealants	54.13	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2460800000	C&C: FIFRA Regulated Products	169.04	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2460900000	C&C: Misc. Products (not otherwise covered)	6.65	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2461021000	Cutback Asphalt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2461022000	Emulsified Asphalt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2461850000	Ag Pesticide	13.21	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
Totals For:	Solvent - Consumer & Commercial Solvent Use	813.75	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
Sector:	Solvent - Degreasing								
2415000000	Degreasing	152.90	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
Totals For:	Solvent - Degreasing	152.90	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
Sector:	Solvent - Dry Cleaning								
2420000000	Dry Cleaning	0.53	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
Totals For:	Solvent - Dry Cleaning	0.53	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
Sector:	Solvent - Graphic Arts								
2425000000	Graphic Arts	21.31	0.00	0.00	0.00	0.00	0.00	0.00	0.0000

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Table 1
2011 Annual Emissions (TPY) by County, Sector and SCC for Area Sources

Sec	Sec Description	Area Source Emissions (TPY)							
		VOC	NOx	CO	PM10	PM2.5	NH3	SO2	Lead
Totals For: Solvent - Graphic Arts		21.31	0.00	0.00	0.00	0.00	0.00	0.00	0.0000

Table 1
2011 Annual Emissions (TPY) by County, Sector and SCC for Area Sources

Sector:	Scc	Scc Description	Area Source Emissions (TPY)							
			VOC	NOx	CO	PM10	PM2.5	NH3	SO2	Lead
		Solvent - Industrial Surface Coating & Solvent Use								
	2401005000	Auto Refinishing SIC 7532	58.66	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
	2401008000	Surface Coating - Traffic Markings	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
	2401015000	Surface Coating - Factory Finished Wood: SIC 2426 thru 242	2.36	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
	2401020000	Surface Coating - Wood Furniture	26.64	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
	2401025000	Surface Coating - Metal Furniture: SIC 25	1.48	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
	2401030000	Surface Coating - Paper, foil, and film	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
	2401040000	Surface Coating - Metal Can Coating	13.22	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
	2401045000	Surface Coating - Sheet, strip, and coil	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
	2401055000	Surface Coating - Machinery and Equipment: SIC 35	5.04	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
	2401060000	Surface Coating - Large Appliances: SIC 363	6.19	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
	2401065000	Surface Coating - Electronic and other Electric Coatings	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
	2401070000	Surface Coating - Motor Vehicles	47.66	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
	2401075000	Surface Coating - Aircraft	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
	2401080000	Surface Coating - Marine	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
	2401085000	Surface Coating - Railroad	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
	2401090000	Surface Coating - Miscellaneous Manufacturing	30.27	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
	2401100000	Industrial Maintenance Coatings	14.24	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
	2401200000	Other Special Purpose Coatings	6.08	0.00	0.00	0.00	0.00	0.00	0.00	0.0000

Table 1
2011 Annual Emissions (TPY) by County, Sector and SCC for Area Sources

Scc	Scc Description	Area Source Emissions (TPY)							
		VOC	NOx	CO	PM10	PM2.5	NH3	SO2	Lead
Totals For: Solvent - Industrial Surface Coating & Solvent		212.26	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
Sector: Solvent - Non-Industrial Surface Coating									
2401001000	Architectural Coatings	178.53	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
Totals For: Solvent - Non-Industrial Surface Coating		178.53	0.00	0.00	0.00	0.00	0.00	0.00	0.0000

Table 1
2011 Annual Emissions (TPY) by County, Sector and SCC for Area Sources

Scc	Scc Description	Area Source Emissions (TPY)							
		VOC	NOx	CO	PM10	PM2.5	NH3	SO2	Lead
Sector:	Waste Disposal								
2610000100	Open Burning - Yard Waste - Leaves	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2610000400	Open Burning - Yard Waste - Brush	3.40	0.89	25.04	3.53	2.72	0.00	0.30	0.0000
2610000500	Open Burning - Land Clearing Debris	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2610030000	Open Burning - Household Waste	33.46	23.45	332.26	148.54	136.03	0.00	3.91	0.0000
2620030001		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2630020000	Publically Owned Treatment Works (POTW)	2.63	0.00	0.00	0.00	0.00	0.52	0.00	0.0000
2650000000		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2650000002		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
Totals For: Waste Disposal		39.49	24.35	357.30	152.07	138.75	0.52	4.21	0.0000
Totals For:	Litchfield	2,431.79	652.98	4,325.90	3,704.99	1,212.81	448.61	866.76	0.0256

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Table 1
2011 Annual Emissions (TPY) by County, Sector and SCC for Area Sources

Scc	Scc Description	Area Source Emissions (TPY)							
		VOC	NOx	CO	PM10	PM2.5	NH3	SO2	Lead
Middlesex	County								
Sector:	Agriculture - Crops & Livestock Dust								
280100003	Agricultural Tilling	0.00	0.00	0.00	8.66	1.73	0.00	0.00	0.0000
Totals For:	Agriculture - Crops & Livestock Dust	0.00	0.00	0.00	8.66	1.73	0.00	0.00	0.0000
Sector:	Agriculture - Fertilizer Application								
280170001	Fertilizer Application; Anhydrous Ammonia	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
280170002	Fertilizer Application; Aqueous Ammonia	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
280170003	Fertilizer Application; Nitrogen Solutions	0.00	0.00	0.00	0.00	0.00	0.11	0.00	0.0000
280170004	Fertilizer Application; Urea	0.00	0.00	0.00	0.00	0.00	5.11	0.00	0.0000
280170005	Fertilizer Application; Ammonium Nitrate	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.0000
280170006	Fertilizer Application; Ammonium Sulfate	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
280170007	Fertilizer Application; Ammonium Thiosulfate	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
280170010	Fertilizer Application; N-P-K (mult-grade nutrient fertilizers)	0.00	0.00	0.00	0.00	0.00	2.47	0.00	0.0000
280170011	Fertilizer Application; Calcium Ammonium Nitrate	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
280170012	Fertilizer Application; Potassium Nitrate	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
280170013	Fertilizer Application; Diammonium Phosphate	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
280170014	Fertilizer Application; Monoammonium Phosphate	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
280170015	Fertilizer Application; Liquid Ammonium Polyphosphate	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
280170099	Fertilizer Application; Miscellaneous Fertilizers	0.00	0.00	0.00	0.00	0.00	10.31	0.00	0.0000
Totals For:	Agriculture - Fertilizer Application	0.00	0.00	0.00	0.00	0.00	18.02	0.00	0.0000

Table 1
2011 Annual Emissions (TPY) by County, Sector and SCC for Area Sources

Scc	Scc Description	Area Source Emissions (TPY)							
		VOC	NOx	CO	PM10	PM2.5	NH3	SO2	Lead
Sector:	Agriculture - Livestock Waste								
2805001100	Beef cattle - finishing operations on feedlots (drylots); Confinement	0.00	0.00	0.00	0.00	0.00	0.22	0.00	0.0000
2805001200	Beef cattle - finishing operations on feedlots (drylots); Manure handling and storage	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2805001300	Beef cattle - finishing operations on feedlots (drylots); Land application of manure	0.00	0.00	0.00	0.00	0.00	0.17	0.00	0.0000
2805002000	Beef cattle production composite; Not Elsewhere Classified	0.00	0.00	0.00	0.00	0.00	1.33	0.00	0.0000
2805003100	Beef cattle - finishing operations on pasture/range :Confinement	0.00	0.00	0.00	0.00	0.00	1.29	0.00	0.0000
2805007100	Poultry production - layers with dry manure management systems; Confinement	0.00	0.00	0.00	0.00	0.00	1.13	0.00	0.0000
2805007300	Poultry production - layers with dry manure management systems; Land application of manure	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.0000
2805008100	Poultry production - layers with wet manure management systems; Confinement	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.0000
2805008200	Poultry production - layers with wet manure management systems; Manure handling and storage	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.0000
2805008300	Poultry production - layers with wet manure management systems :Land application of manure	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.0000
2805009100	Poultry production - broilers; Confinement	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.0000
2805009200	Poultry production - broilers; manure handling and storage	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.0000
2805009300	Poultry production - broilers; Land Application and storage	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.0000
2805010100	Poultry production - turkeys; Confinement	0.00	0.00	0.00	0.00	0.00	0.07	0.00	0.0000
2805010200	Poultry production - turkeys; Manure handling and storage	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.0000
2805010300	Poultry production - turkeys; Land application and storage	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.0000
2805018000	Dairy cattle composite; Not Elsewhere Classified	0.00	0.00	0.00	0.00	0.00	4.30	0.00	0.0000
2805019100	Dairy cattle - flush dairy; Confinement	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.0000

Table 1
2011 Annual Emissions (TPY) by County, Sector and SCC for Area Sources

Scc	Scc Description	Area Source Emissions (TPY)							
		VOC	NOx	CO	PM10	PM2.5	NH3	SO2	Lead
2805019200	Dairy cattle - flush dairy; Manure handling and storage	0.00	0.00	0.00	0.00	0.00	0.44	0.00	0.0000
2805019300	Dairy cattle - flush dairy; Land application of manure	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.0000
2805021100	Dairy cattle - scrape dairy; Confinement	0.00	0.00	0.00	0.00	0.00	1.27	0.00	0.0000
2805021200	Dairy cattle - scrape dairy; Manure handling and storage	0.00	0.00	0.00	0.00	0.00	1.45	0.00	0.0000

Table 1
2011 Annual Emissions (TPY) by County, Sector and SCC for Area Sources

Scc	Scc Description	Area Source Emissions (TPY)							
		VOC	NOx	CO	PM10	PM2.5	NH3	SO2	Lead
2805021300	Dairy cattle - scrape dairy; Land application of manure	0.00	0.00	0.00	0.00	0.00	2.72	0.00	0.0000
2805022100	Dairy cattle - deep pit dairy; Confinement	0.00	0.00	0.00	0.00	0.00	0.13	0.00	0.0000
2805022200	Dairy cattle - deep pit dairy; Manure handling and storage	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.0000
2805022300	Dairy cattle - deep pit dairy; Land application of manure	0.00	0.00	0.00	0.00	0.00	0.07	0.00	0.0000
2805023100	Dairy cattle - drylot/pasture dairy; Confinement	0.00	0.00	0.00	0.00	0.00	1.07	0.00	0.0000
2805023200	Dairy cattle - drylot/pasture dairy; Manure handling and storage	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.0000
2805023300	Dairy cattle - drylot/pasture dairy; Land application of manure	0.00	0.00	0.00	0.00	0.00	1.35	0.00	0.0000
2805025000	Swine production composite; Not Elsewhere Classified	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2805030000	Poultry Waste Emissions; Not Elsewhere Classified	0.00	0.00	0.00	0.00	0.00	0.13	0.00	0.0000
2805030007	Poultry Waste Emissions; Ducks	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.0000
2805030008	Poultry Waste Emissions; Geese	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.0000
2805035000	Horses and Ponies Waste Emissions; Not Elsewhere Classified	0.00	0.00	0.00	0.00	0.00	17.29	0.00	0.0000
2805039100	Swine production - operations with lagoons (unspecified animal age); Confinement	0.00	0.00	0.00	0.00	0.00	0.55	0.00	0.0000
2805039200	Swine production - operations with lagoons (unspecified animal age); Manure handling and storage	0.00	0.00	0.00	0.00	0.00	1.12	0.00	0.0000
2805039300	Swine production - operations with lagoons (unspecified animal age); Land application of manure	0.00	0.00	0.00	0.00	0.00	0.09	0.00	0.0000
2805040000	Sheep and Lambs Waste Emissions; Total	0.00	0.00	0.00	0.00	0.00	1.60	0.00	0.0000
2805045000	Goats Waste Emissions; Not Elsewhere Classified	0.00	0.00	0.00	0.00	0.00	3.78	0.00	0.0000
2805047100	Swine production - deep-pit house operations (unspecified animal age); Confinement	0.00	0.00	0.00	0.00	0.00	0.77	0.00	0.0000
2805047300	Swine production - deep-pit house operations (unspecified animal age); Land application of manure	0.00	0.00	0.00	0.00	0.00	0.36	0.00	0.0000

Table 1
2011 Annual Emissions (TPY) by County, Sector and SCC for Area Sources

Scc	Scc Description	Area Source Emissions (TPY)							
		VOC	NOx	CO	PM10	PM2.5	NH3	SO2	Lead
2805053100	Swine production - outdoor operations (unspecified animal age); Confinement	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.0000
Totals For: Agriculture - Livestock Waste		0.00	0.00	0.00	0.00	0.00	43.35	0.00	0.0000
Sector: Aircraft									
2275087000	In-flight (non-Landing-Takeoff cycle) Lead Emissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000

Table 1
2011 Annual Emissions (TPY) by County, Sector and SCC for Area Sources

Scc	Scc Description	Area Source Emissions (TPY)							
		VOC	NOx	CO	PM10	PM2.5	NH3	SO2	Lead
Totals For: Aircraft		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
Sector:	Bulk Gasoline Terminals								
2501050120	Gasoline Distribution Stage I; Bulk Terminals	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2501055120	Gasoline Distribution Stage I; Bulk Plants	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2505030120	Gasoline Distribution Stage I; Tank Trucks in Transit	2.85	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2505040120	Gasoline Distribution Stage I; Bulk Terminals	71.32	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
Totals For: Bulk Gasoline Terminals		74.17	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
Sector:	Commercial Cooking								
2302002100	Commercial Cooking: Conveyorized Charbroiling	1.61	0.00	5.38	6.45	6.25	0.00	0.00	0.0000
2302002200	Commercial Cooking: Under-fired Charbroiling	4.93	0.00	16.14	41.15	39.79	0.00	0.00	0.0000
2302003000	Commercial Cooking: Deep Fat Frying	0.84	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2302003100	Commercial Cooking: Flat Griddle Frying	0.63	0.00	1.32	10.66	8.10	0.00	0.00	0.0000
2302003200	Commercial Cooking: Clamshell Griddle Frying	0.02	0.00	0.00	0.79	0.66	0.00	0.00	0.0000
Totals For: Commercial Cooking		8.03	0.00	22.85	59.05	54.80	0.00	0.00	0.0000
Sector:	Commercial/ Institutional Fuel Combustion								
2103001000	Fuel Combustion; Commercial/Institutional; Anthra Coal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2103002000	Fuel Combustion; Commercial/Institutional; Bit Coal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2103004001	Fuel Combustion; Commercial/Institutional; Distillate Oil Boiler	0.31	18.26	4.56	2.17	1.94	0.73	38.57	0.0011
2103004002	Fuel Combustion; Commercial/Institutional; Distillate Oil IC Engine	0.00	27.12	5.84	4.37	4.37	0.00	0.00	0.0000
2103005000	Fuel Combustion; Commercial/Institutional; Residual Oil	0.10	4.99	0.45	1.49	0.64	0.07	14.28	0.0001

Table 1
2011 Annual Emissions (TPY) by County, Sector and SCC for Area Sources

Scc	Scc Description	Area Source Emissions (TPY)							
		VOC	NOx	CO	PM10	PM2.5	NH3	SO2	Lead
2103006000	Fuel Combustion; Commercial/Institutional; Natural Gas	3.98	72.28	60.71	0.38	0.31	0.35	0.43	0.0004
2103007000	Fuel Combustion; Commercial/Institutional; Liquified Petroleum Gas	0.17	4.78	2.68	0.02	0.01	0.02	0.02	0.0000
2103008000	Fuel Combustion; Commercial/Institutional; Wood	0.14	1.79	4.87	4.20	3.63	0.04	0.20	0.0000
2103011000	Fuel Combustion; Commercial/Institutional; Kerosene	0.00	0.13	0.03	0.02	0.01	0.01	0.29	0.0000

Table 1
2011 Annual Emissions (TPY) by County, Sector and SCC for Area Sources

Sec	Sec Description	Area Source Emissions (TPY)							
		VOC	NOx	CO	PM10	PM2.5	NH3	SO2	Lead
Totals For: Commercial/ Institutional Fuel Combustion		4.70	129.35	79.15	12.64	10.92	1.22	53.79	0.0017
Sector:	Dust - Construction Dust								
2311010000	Construction - Residential	0.00	0.00	0.00	9.35	0.94	0.00	0.00	0.0000
2311020000	Construction - Non-Residential	0.00	0.00	0.00	119.91	11.99	0.00	0.00	0.0000
2311030000	Construction - Road	0.00	0.00	0.00	222.05	22.21	0.00	0.00	0.0000
Totals For: Dust - Construction Dust		0.00	0.00	0.00	351.31	35.13	0.00	0.00	0.0000
Sector:	Dust - Paved Road Dust								
2294000000	Roads, Paved	0.00	0.00	0.00	508.20	127.05	0.00	0.00	0.0000
Totals For: Dust - Paved Road Dust		0.00	0.00	0.00	508.20	127.05	0.00	0.00	0.0000
Sector:	Dust - Unpaved Road Dust								
2296000000	Roads, Unpaved	0.00	0.00	0.00	697.42	69.36	0.00	0.00	0.0000
Totals For: Dust - Unpaved Road Dust		0.00	0.00	0.00	697.42	69.36	0.00	0.00	0.0000
Sector:	Event								
2810001000	Forest Wildfires	2.70	0.26	11.32	1.25	1.06	0.19	0.12	0.0000
2811015000	Prescribed Forest Burning	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
Totals For: Event		2.70	0.26	11.32	1.25	1.06	0.19	0.12	0.0000
Sector:	Fires - Agricultural Field Burning								
2801500000	Agric - Crops /Field Burning - whole field set on fire /Unspecified crop type and Burn Method	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
Totals For: Fires - Agricultural Field Burning		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000

Table 1
2011 Annual Emissions (TPY) by County, Sector and SCC for Area Sources

Scc	Scc Description	Area Source Emissions (TPY)							
		VOC	NOx	CO	PM10	PM2.5	NH3	SO2	Lead
Sector: Gas Stations									
2201000062	Gasoline Distribution Stage II; Gasoline Service Stations, Stage 2	21.21	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2202000062	Gasoline Distribution Stage II; Diesel Service Stations, Stage 2	2.72	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2501060051	Gasoline Distribution Stage I; Gasoline Service Station Unloading Submerged filling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2501060052	Gasoline Distribution Stage I; Gasoline Service Station Unloading Splash filling	38.75	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2501060053	Gasoline Distribution Stage I; Gasoline Service Station Unloading Balanced Submerged filling	28.05	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2501060201	Gasoline Distribution Stage I; Underground storage tank, breathing and emptying	43.59	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2501080050	Aviation Gasoline Distribution: Stage I	4.33	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2501080100	Aviation Gasoline Distribution: Stage II	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
Totals For: Gas Stations		138.87	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
Sector: INDUSTRIAL FUEL COMBUSTION									
2102001000	Fuel Combustion; Industrial; Anthr Coal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2102002000	Fuel Combustion; Industrial; Bit Coal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2102004001	Fuel Combustion; Industrial; Distillate oil Boiler	0.06	6.35	1.59	0.73	0.49	0.25	13.42	0.0004
2102004002	Fuel Combustion; Industrial; Distillate oil IC Engine	0.00	3.99	0.86	0.64	0.62	0.00	0.00	0.0000
2102005000	Fuel Combustion; Industrial; Residual Oil	0.01	1.21	0.11	0.49	0.33	0.02	3.47	0.0000
2102006000	Fuel Combustion; Industrial; Natural Gas	0.96	17.38	14.60	0.09	0.07	0.56	0.10	0.0001
2102007000	Fuel Combustion; Industrial; Liquified Petroleum Gas (LPG)	0.24	6.66	3.73	0.02	0.01	0.14	0.03	0.0000
2102008000	Fuel Combustion; Industrial; Wood	1.43	18.56	50.62	43.61	37.71	0.59	2.11	0.0000

Table 1
2011 Annual Emissions (TPY) by County, Sector and SCC for Area Sources

Scc	Scc Description	Area Source Emissions (TPY)							
		VOC	NOx	CO	PM10	PM2.5	NH3	SO2	Lead
2102011000	Fuel Combustion; Industrial; Kerosene	0.03	2.75	0.69	0.31	0.21	0.11	6.07	0.0002
Totals For: INDUSTRIAL FUEL COMBUSTION		2.73	56.90	72.19	45.91	39.46	1.67	25.21	0.0007
Sector: Industrial Processes - Mining									
2325000000	Mining and Quarrying	0.00	0.00	0.00	23.41	2.93	0.00	0.00	0.0000
Totals For: Industrial Processes - Mining		0.00	0.00	0.00	23.41	2.93	0.00	0.00	0.0000

Table 1
2011 Annual Emissions (TPY) by County, Sector and SCC for Area Sources

Scc	Scc Description	Area Source Emissions (TPY)							
		VOC	NOx	CO	PM10	PM2.5	NH3	SO2	Lead
Sector: Industrial Processes - Storage and Transfer									
2501011011	portable fuel containers, residential, permeation	4.72	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2501011012	portable fuel containers, residential, evaporation (includes diurnal losses)	9.22	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2501011013	portable fuel containers, residential, spilling during transport	6.91	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2501011014	portable fuel containers, residential, refilling at the pump, vapor displacement	1.98	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2501011015	portable fuel containers, residential, refilling at the pump, spillage	0.23	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2501012011	portable fuel containers, commercial, permeation	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2501012012	portable fuel containers, commercial, evaporation (includes diurnal losses)	0.29	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2501012013	portable fuel containers, commercial, spilling during transport	9.43	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2501012014	portable fuel containers, commercial, refilling at the pump, vapor displacement	3.82	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2501012015	portable fuel containers, commercial, refilling at the pump, spillage	0.44	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
Totals For: Industrial Processes - Storage and Transfer		37.21	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
Sector: Miscellaneous Non-Industrial NEC									
2810060100	Cremation - Human	0.00	0.53	0.00	0.04	0.04	0.00	0.08	0.0002
2810060200		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2850001000	Dental Preparation and Use	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2851001000	General Laboratory Activities	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2861000000	Lamp Breakage (Landfill emissions)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2861000010	Lamp (Fluorescent) Recycling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000

Table 1
2011 Annual Emissions (TPY) by County, Sector and SCC for Area Sources

Sec	Sec Description	Area Source Emissions (TPY)							
		VOC	NOx	CO	PM10	PM2.5	NH3	SO2	Lead
Totals For: Miscellaneous Non-Industrial NEC		0.00	0.53	0.00	0.04	0.04	0.00	0.08	0.0002

Table 1
2011 Annual Emissions (TPY) by County, Sector and SCC for Area Sources

Scc	Scc Description	Area Source Emissions (TPY)							
		VOC	NOx	CO	PM10	PM2.5	NH3	SO2	Lead
Sector:	Residential Heating								
2104001000	Residential Heating: Anthracite Coal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2104002000	Residential Heating: Bituminous Coal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2104004000	Residential Heating: Distillate Oil	11.05	284.17	78.94	37.57	33.63	15.79	672.54	0.0200
2104006000	Residential Heating: Natural Gas	1.95	33.27	14.16	0.18	0.15	7.08	0.21	0.0000
2104007000	Residential Heating: LPG	1.12	30.54	17.10	0.11	0.09	0.10	0.12	0.0000
2104008100	Residential Heating: Fireplaces (cordwood)	21.77	2.99	171.62	27.18	27.18	2.07	0.46	0.0000
2104008210	Residential Heating: Inserts non certified	54.96	2.90	239.36	31.73	31.73	1.76	0.41	0.0000
2104008220	Residential Heating: Inserts EPA certified non-cat	4.00	0.76	46.96	6.54	6.54	0.30	0.13	0.0000
2104008230	Residential Heating: Inserts EPA certified cat	1.65	0.22	11.52	2.25	2.25	0.10	0.04	0.0000
2104008310	Residential Heating: free standing WS non certified	195.33	10.32	850.61	112.78	112.78	6.27	1.47	0.0000
2104008320	Residential Heating: free standing WS EPA certified non-cat	14.18	2.69	166.35	23.16	23.16	1.06	0.47	0.0000
2104008330	Residential Heating: free standing WS EPA certified cat	5.90	0.79	41.08	8.03	8.03	0.35	0.16	0.0000
2104008400	Residential Heating: pellet stoves	0.06	5.94	24.84	4.78	4.78	0.47	0.50	0.0000
2104008510	Residential Heating: furnace indoor	5.63	0.88	87.53	13.16	13.16	0.86	0.97	0.0000
2104008610	Residential Heating: Hydronic heater: outdoor	30.51	0.83	162.99	28.98	28.98	0.81	0.92	0.0000
2104008700	Residential Heating: Outdoor wood burning device, NEC	7.48	1.03	58.94	9.34	9.34	0.71	0.16	0.0000
2104009000	Residential Heating: Firelog	17.71	3.44	55.99	13.13	12.71	0.00	0.00	0.0000
2104011000	Residential Heating: Kerosene	0.04	1.00	0.28	0.13	0.12	0.06	2.36	0.0001
Totals For:	Residential Heating	373.35	381.77	2,028.26	319.04	314.61	37.79	680.94	0.0200

Table 1
2011 Annual Emissions (TPY) by County, Sector and SCC for Area Sources

Scc	Scc Description	Area Source Emissions (TPY)							
		VOC	NOx	CO	PM10	PM2.5	NH3	SO2	Lead
Sector:	Solvent - Consumer & Commercial Solvent Use								
2460100000	C&C: Cosmetics and Toiletries	157.39	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2460200000	C&C: Cleaning Products; Household	149.11	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2460400000	C&C: Auto Aftermarket	112.66	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2460500000	C&C: Coatings and Related Products	78.70	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2460600000	C&C: adhesives and sealants	47.22	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2460800000	C&C: FIFRA Regulated Products	147.45	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2460900000	C&C: Misc. Products (not otherwise covered)	5.80	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2461021000	Cutback Asphalt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2461022000	Emulsified Asphalt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2461850000	Ag Pesticide	1.94	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
Totals For:	Solvent - Consumer & Commercial Solvent Use	700.26	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
Sector:	Solvent - Degreasing								
2415000000	Degreasing	156.08	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
Totals For:	Solvent - Degreasing	156.08	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
Sector:	Solvent - Dry Cleaning								
2420000000	Dry Cleaning	0.41	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
Totals For:	Solvent - Dry Cleaning	0.41	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
Sector:	Solvent - Graphic Arts								
2425000000	Graphic Arts	17.67	0.00	0.00	0.00	0.00	0.00	0.00	0.0000

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Table 1
2011 Annual Emissions (TPY) by County, Sector and SCC for Area Sources

Sec	Sec Description	Area Source Emissions (TPY)							
		VOC	NOx	CO	PM10	PM2.5	NH3	SO2	Lead
Totals For: Solvent - Graphic Arts		17.67	0.00	0.00	0.00	0.00	0.00	0.00	0.0000

Table 1
2011 Annual Emissions (TPY) by County, Sector and SCC for Area Sources

Sector:	Scc	Scc Description	Area Source Emissions (TPY)							
			VOC	NOx	CO	PM10	PM2.5	NH3	SO2	Lead
		Solvent - Industrial Surface Coating & Solvent Use								
	2401005000	Auto Refinishing SIC 7532	33.71	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
	2401008000	Surface Coating - Traffic Markings	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
	2401015000	Surface Coating - Factory Finished Wood: SIC 2426 thru 242	0.94	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
	2401020000	Surface Coating - Wood Furniture	7.70	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
	2401025000	Surface Coating - Metal Furniture: SIC 25	1.48	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
	2401030000	Surface Coating - Paper, foil, and film	2.17	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
	2401040000	Surface Coating - Metal Can Coating	79.34	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
	2401045000	Surface Coating - Sheet, strip, and coil	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
	2401055000	Surface Coating - Machinery and Equipment: SIC 35	9.63	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
	2401060000	Surface Coating - Large Appliances: SIC 363	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
	2401065000	Surface Coating - Electronic and other Electric Coatings	0.68	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
	2401070000	Surface Coating - Motor Vehicles	45.05	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
	2401075000	Surface Coating - Aircraft	8.30	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
	2401080000	Surface Coating - Marine	1.27	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
	2401085000	Surface Coating - Railroad	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
	2401090000	Surface Coating - Miscellaneous Manufacturing	8.18	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
	2401100000	Industrial Maintenance Coatings	12.43	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
	2401200000	Other Special Purpose Coatings	5.30	0.00	0.00	0.00	0.00	0.00	0.00	0.0000

Table 1
2011 Annual Emissions (TPY) by County, Sector and SCC for Area Sources

Scc	Scc Description	Area Source Emissions (TPY)							
		VOC	NOx	CO	PM10	PM2.5	NH3	SO2	Lead
Totals For: Solvent - Industrial Surface Coating & Solvent		216.39	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
Sector: Solvent - Non-Industrial Surface Coating									
2401001000	Architectural Coatings	155.74	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
Totals For: Solvent - Non-Industrial Surface Coating		155.74	0.00	0.00	0.00	0.00	0.00	0.00	0.0000

Table 1
2011 Annual Emissions (TPY) by County, Sector and SCC for Area Sources

Scc	Scc Description	Area Source Emissions (TPY)							
		VOC	NOx	CO	PM10	PM2.5	NH3	SO2	Lead
Sector:	Waste Disposal								
2610000100	Open Burning - Yard Waste - Leaves	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2610000400	Open Burning - Yard Waste - Brush	1.75	0.46	12.93	1.82	1.40	0.00	0.15	0.0000
2610000500	Open Burning - Land Clearing Debris	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2610030000	Open Burning - Household Waste	17.28	12.11	171.60	76.72	70.26	0.00	2.02	0.0000
2620030001		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2630020000	Publically Owned Treatment Works (POTW)	3.13	0.00	0.00	0.00	0.00	0.62	0.00	0.0000
2650000000		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2650000002		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
Totals For: Waste Disposal		22.16	12.57	184.53	78.54	71.66	0.62	2.17	0.0000
Totals For:	Middlesex County	1,910.47	581.39	2,398.31	2,105.45	728.74	102.86	762.31	0.0227

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Table 1
2011 Annual Emissions (TPY) by County, Sector and SCC for Area Sources

Scc	Scc Description	Area Source Emissions (TPY)							
		VOC	NOx	CO	PM10	PM2.5	NH3	SO2	Lead
Multiple (portable facilities)	County								
Sector:	Aircraft								
2275087000	In-flight (non-Landing-Takeoff cycle) Lead Emissions								1.4902
Totals For:	Aircraft								1.4902
Totals For:	Multiple (portable facilities) County								1.4902

Table 1
2011 Annual Emissions (TPY) by County, Sector and SCC for Area Sources

Scc	Scc Description	Area Source Emissions (TPY)							
		VOC	NOx	CO	PM10	PM2.5	NH3	SO2	Lead
New Haven	County								
Sector:	Agriculture - Crops & Livestock Dust								
280100003	Agricultural Tilling	0.00	0.00	0.00	21.77	4.35	0.00	0.00	0.0000
Totals For:	Agriculture - Crops & Livestock Dust	0.00	0.00	0.00	21.77	4.35	0.00	0.00	0.0000
Sector:	Agriculture - Fertilizer Application								
2801700001	Fertilizer Application; Anhydrous Ammonia	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2801700002	Fertilizer Application; Aqueous Ammonia	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2801700003	Fertilizer Application; Nitrogen Solutions	0.00	0.00	0.00	0.00	0.00	0.21	0.00	0.0000
2801700004	Fertilizer Application; Urea	0.00	0.00	0.00	0.00	0.00	9.52	0.00	0.0000
2801700005	Fertilizer Application; Ammonium Nitrate	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.0000
2801700006	Fertilizer Application; Ammonium Sulfate	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.0000
2801700007	Fertilizer Application; Ammonium Thiosulfate	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2801700010	Fertilizer Application; N-P-K (mult-grade nutrient fertilizers)	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.0000
2801700011	Fertilizer Application; Calcium Ammonium Nitrate	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2801700012	Fertilizer Application; Potassium Nitrate	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2801700013	Fertilizer Application; Diammonium Phosphate	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2801700014	Fertilizer Application; Monoammonium Phosphate	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2801700015	Fertilizer Application; Liquid Ammonium Polyphosphate	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2801700099	Fertilizer Application; Miscellaneous Fertilizers	0.00	0.00	0.00	0.00	0.00	19.18	0.00	0.0000
Totals For:	Agriculture - Fertilizer Application	0.00	0.00	0.00	0.00	0.00	33.54	0.00	0.0000

Table 1
2011 Annual Emissions (TPY) by County, Sector and SCC for Area Sources

Scc	Scc Description	Area Source Emissions (TPY)							
		VOC	NOx	CO	PM10	PM2.5	NH3	SO2	Lead
Sector:	Agriculture - Livestock Waste								
2805001100	Beef cattle - finishing operations on feedlots (drylots); Confinement	0.00	0.00	0.00	0.00	0.00	1.20	0.00	0.0000
2805001200	Beef cattle - finishing operations on feedlots (drylots); Manure handling and storage	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2805001300	Beef cattle - finishing operations on feedlots (drylots); Land application of manure	0.00	0.00	0.00	0.00	0.00	0.91	0.00	0.0000
2805002000	Beef cattle production composite; Not Elsewhere Classified	0.00	0.00	0.00	0.00	0.00	2.53	0.00	0.0000
2805003100	Beef cattle - finishing operations on pasture/range :Confinement	0.00	0.00	0.00	0.00	0.00	1.43	0.00	0.0000
2805007100	Poultry production - layers with dry manure management systems; Confinement	0.00	0.00	0.00	0.00	0.00	1.89	0.00	0.0000
2805007300	Poultry production - layers with dry manure management systems; Land application of manure	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.0000
2805008100	Poultry production - layers with wet manure management systems; Confinement	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.0000
2805008200	Poultry production - layers with wet manure management systems; Manure handling and storage	0.00	0.00	0.00	0.00	0.00	0.07	0.00	0.0000
2805008300	Poultry production - layers with wet manure management systems :Land application of manure	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.0000
2805009100	Poultry production - broilers; Confinement	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.0000
2805009200	Poultry production - broilers; manure handling and storage	0.00	0.00	0.00	0.00	0.00	0.17	0.00	0.0000
2805009300	Poultry production - broilers; Land Application and storage	0.00	0.00	0.00	0.00	0.00	0.75	0.00	0.0000
2805010100	Poultry production - turkeys; Confinement	0.00	0.00	0.00	0.00	0.00	0.13	0.00	0.0000
2805010200	Poultry production - turkeys; Manure handling and storage	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.0000
2805010300	Poultry production - turkeys; Land application and storage	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.0000
2805018000	Dairy cattle composite; Not Elsewhere Classified	0.00	0.00	0.00	0.00	0.00	12.16	0.00	0.0000
2805019100	Dairy cattle - flush dairy; Confinement	0.00	0.00	0.00	0.00	0.00	0.50	0.00	0.0000

Table 1
2011 Annual Emissions (TPY) by County, Sector and SCC for Area Sources

Scc	Scc Description	Area Source Emissions (TPY)							
		VOC	NOx	CO	PM10	PM2.5	NH3	SO2	Lead
2805019200	Dairy cattle - flush dairy; Manure handling and storage	0.00	0.00	0.00	0.00	0.00	1.40	0.00	0.0000
2805019300	Dairy cattle - flush dairy; Land application of manure	0.00	0.00	0.00	0.00	0.00	0.13	0.00	0.0000
2805021100	Dairy cattle - scrape dairy; Confinement	0.00	0.00	0.00	0.00	0.00	3.92	0.00	0.0000
2805021200	Dairy cattle - scrape dairy; Manure handling and storage	0.00	0.00	0.00	0.00	0.00	4.49	0.00	0.0000

Table 1
2011 Annual Emissions (TPY) by County, Sector and SCC for Area Sources

Scc	Scc Description	Area Source Emissions (TPY)							
		VOC	NOx	CO	PM10	PM2.5	NH3	SO2	Lead
2805021300	Dairy cattle - scrape dairy; Land application of manure	0.00	0.00	0.00	0.00	0.00	8.42	0.00	0.0000
2805022100	Dairy cattle - deep pit dairy; Confinement	0.00	0.00	0.00	0.00	0.00	0.45	0.00	0.0000
2805022200	Dairy cattle - deep pit dairy; Manure handling and storage	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.0000
2805022300	Dairy cattle - deep pit dairy; Land application of manure	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.0000
2805023100	Dairy cattle - drylot/pasture dairy; Confinement	0.00	0.00	0.00	0.00	0.00	3.33	0.00	0.0000
2805023200	Dairy cattle - drylot/pasture dairy; Manure handling and storage	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.0000
2805023300	Dairy cattle - drylot/pasture dairy; Land application of manure	0.00	0.00	0.00	0.00	0.00	4.20	0.00	0.0000
2805025000	Swine production composite; Not Elsewhere Classified	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2805030000	Poultry Waste Emissions; Not Elsewhere Classified	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.0000
2805030007	Poultry Waste Emissions; Ducks	0.00	0.00	0.00	0.00	0.00	1.14	0.00	0.0000
2805030008	Poultry Waste Emissions; Geese	0.00	0.00	0.00	0.00	0.00	0.10	0.00	0.0000
2805035000	Horses and Ponies Waste Emissions; Not Elsewhere Classified	0.00	0.00	0.00	0.00	0.00	18.74	0.00	0.0000
2805039100	Swine production - operations with lagoons (unspecified animal age); Confinement	0.00	0.00	0.00	0.00	0.00	0.39	0.00	0.0000
2805039200	Swine production - operations with lagoons (unspecified animal age); Manure handling and storage	0.00	0.00	0.00	0.00	0.00	0.78	0.00	0.0000
2805039300	Swine production - operations with lagoons (unspecified animal age); Land application of manure	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.0000
2805040000	Sheep and Lambs Waste Emissions; Total	0.00	0.00	0.00	0.00	0.00	1.56	0.00	0.0000
2805045000	Goats Waste Emissions; Not Elsewhere Classified	0.00	0.00	0.00	0.00	0.00	4.70	0.00	0.0000
2805047100	Swine production - deep-pit house operations (unspecified animal age); Confinement	0.00	0.00	0.00	0.00	0.00	0.54	0.00	0.0000
2805047300	Swine production - deep-pit house operations (unspecified animal age); Land application of manure	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.0000

Table 1
2011 Annual Emissions (TPY) by County, Sector and SCC for Area Sources

Scc	Scc Description	Area Source Emissions (TPY)							
		VOC	NOx	CO	PM10	PM2.5	NH3	SO2	Lead
2805053100	Swine production - outdoor operations (unspecified animal age); Confinement	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
Totals For: Agriculture - Livestock Waste		0.00	0.00	0.00	0.00	0.00	77.93	0.00	0.0000
Sector: Aircraft									
2275087000	In-flight (non-Landing-Takeoff cycle) Lead Emissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000

Table 1
2011 Annual Emissions (TPY) by County, Sector and SCC for Area Sources

Scc	Scc Description	Area Source Emissions (TPY)							
		VOC	NOx	CO	PM10	PM2.5	NH3	SO2	Lead
Totals For: Aircraft		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
Sector:	Bulk Gasoline Terminals								
2501050120	Gasoline Distribution Stage I; Bulk Terminals	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2501055120	Gasoline Distribution Stage I; Bulk Plants	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2505030120	Gasoline Distribution Stage I; Tank Trucks in Transit	10.93	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2505040120	Gasoline Distribution Stage I; Bulk Terminals	196.86	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
Totals For: Bulk Gasoline Terminals		207.79	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
Sector:	Commercial Cooking								
2302002100	Commercial Cooking: Conveyorized Charbroiling	6.89	0.00	23.01	27.54	26.69	0.00	0.00	0.0000
2302002200	Commercial Cooking: Under-fired Charbroiling	23.29	0.00	76.19	194.18	187.72	0.00	0.00	0.0000
2302003000	Commercial Cooking: Deep Fat Frying	3.65	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2302003100	Commercial Cooking: Flat Griddle Frying	3.02	0.00	6.26	50.56	38.43	0.00	0.00	0.0000
2302003200	Commercial Cooking: Clamshell Griddle Frying	0.12	0.00	0.00	3.36	2.85	0.00	0.00	0.0000
Totals For: Commercial Cooking		36.97	0.00	105.46	275.64	255.68	0.00	0.00	0.0000
Sector:	Commercial/ Institutional Fuel Combustion								
2103001000	Fuel Combustion; Commercial/Institutional; Anthra Coal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2103002000	Fuel Combustion; Commercial/Institutional; Bit Coal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2103004001	Fuel Combustion; Commercial/Institutional; Distillate Oil Boiler	1.74	102.45	25.61	12.19	10.91	4.10	216.45	0.0064
2103004002	Fuel Combustion; Commercial/Institutional; Distillate Oil IC Engine	0.00	152.22	32.76	24.63	24.63	0.00	0.00	0.0000
2103005000	Fuel Combustion; Commercial/Institutional; Residual Oil	0.58	28.00	2.55	8.37	3.59	0.41	80.14	0.0008

Table 1
2011 Annual Emissions (TPY) by County, Sector and SCC for Area Sources

Scc	Scc Description	Area Source Emissions (TPY)							
		VOC	NOx	CO	PM10	PM2.5	NH3	SO2	Lead
2103006000	Fuel Combustion; Commercial/Institutional; Natural Gas	22.31	405.61	340.71	2.11	1.74	1.99	2.43	0.0020
2103007000	Fuel Combustion; Commercial/Institutional; Liquified Petroleum Gas	0.98	26.85	15.04	0.09	0.08	0.09	0.11	0.0001
2103008000	Fuel Combustion; Commercial/Institutional; Wood	0.77	10.02	27.34	23.56	20.37	0.23	1.14	0.0000
2103011000	Fuel Combustion; Commercial/Institutional; Kerosene	0.01	0.73	0.18	0.09	0.08	0.03	1.61	0.0000

Table 1
2011 Annual Emissions (TPY) by County, Sector and SCC for Area Sources

Sec	Sec Description	Area Source Emissions (TPY)							
		VOC	NOx	CO	PM10	PM2.5	NH3	SO2	Lead
Totals For: Commercial/ Institutional Fuel Combustion		26.39	725.88	444.19	71.04	61.40	6.85	301.88	0.0094
Sector:	Dust - Construction Dust								
2311010000	Construction - Residential	0.00	0.00	0.00	21.75	2.18	0.00	0.00	0.0000
2311020000	Construction - Non-Residential	0.00	0.00	0.00	798.99	79.90	0.00	0.00	0.0000
2311030000	Construction - Road	0.00	0.00	0.00	575.46	57.55	0.00	0.00	0.0000
Totals For: Dust - Construction Dust		0.00	0.00	0.00	1,396.20	139.62	0.00	0.00	0.0000
Sector:	Dust - Paved Road Dust								
2294000000	Roads, Paved	0.00	0.00	0.00	1,069.15	267.29	0.00	0.00	0.0000
Totals For: Dust - Paved Road Dust		0.00	0.00	0.00	1,069.15	267.29	0.00	0.00	0.0000
Sector:	Dust - Unpaved Road Dust								
2296000000	Roads, Unpaved	0.00	0.00	0.00	538.52	53.56	0.00	0.00	0.0000
Totals For: Dust - Unpaved Road Dust		0.00	0.00	0.00	538.52	53.56	0.00	0.00	0.0000
Sector:	Event								
2810001000	Forest Wildfires	10.33	0.82	43.50	4.63	3.92	0.72	0.40	0.0000
2811015000	Prescribed Forest Burning	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
Totals For: Event		10.33	0.82	43.50	4.63	3.92	0.72	0.40	0.0000
Sector:	Fires - Agricultural Field Burning								
2801500000	Agric - Crops /Field Burning - whole field set on fire /Unspecified crop type and Burn Method	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
Totals For: Fires - Agricultural Field Burning		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000

Table 1
2011 Annual Emissions (TPY) by County, Sector and SCC for Area Sources

Scc	Scc Description	Area Source Emissions (TPY)							
		VOC	NOx	CO	PM10	PM2.5	NH3	SO2	Lead
Sector: Gas Stations									
2201000062	Gasoline Distribution Stage II; Gasoline Service Stations, Stage 2	88.57	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2202000062	Gasoline Distribution Stage II; Diesel Service Stations, Stage 2	11.59	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2501060051	Gasoline Distribution Stage I; Gasoline Service Station Unloading Submerged filling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2501060052	Gasoline Distribution Stage I; Gasoline Service Station Unloading Splash filling	148.75	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2501060053	Gasoline Distribution Stage I; Gasoline Service Station Unloading Balanced Submerged filling	107.66	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2501060201	Gasoline Distribution Stage I; Underground storage tank, breathing and emptying	167.11	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2501080050	Aviation Gasoline Distribution: Stage I	14.04	0.00	0.00	0.00	0.00	0.00	0.00	0.0001
2501080100	Aviation Gasoline Distribution: Stage II	0.73	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
Totals For: Gas Stations		538.44	0.00	0.00	0.00	0.00	0.00	0.00	0.0001
Sector: INDUSTRIAL FUEL COMBUSTION									
2102001000	Fuel Combustion; Industrial; Anthr Coal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2102002000	Fuel Combustion; Industrial; Bit Coal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2102004001	Fuel Combustion; Industrial; Distillate oil Boiler	0.26	25.67	6.42	2.95	1.99	1.03	54.24	0.0016
2102004002	Fuel Combustion; Industrial; Distillate oil IC Engine	0.00	16.11	3.47	2.60	2.53	0.00	0.00	0.0000
2102005000	Fuel Combustion; Industrial; Residual Oil	0.02	4.90	0.45	1.98	1.34	0.07	14.03	0.0001
2102006000	Fuel Combustion; Industrial; Natural Gas	3.86	70.22	58.98	0.38	0.30	2.25	0.42	0.0004
2102007000	Fuel Combustion; Industrial; Liquified Petroleum Gas (LPG)	0.98	26.92	15.08	0.09	0.08	0.57	0.11	0.0000
2102008000	Fuel Combustion; Industrial; Wood	5.79	74.99	204.53	176.23	152.37	2.39	8.52	0.0000

Table 1
2011 Annual Emissions (TPY) by County, Sector and SCC for Area Sources

Scc	Scc Description	Area Source Emissions (TPY)							
		VOC	NOx	CO	PM10	PM2.5	NH3	SO2	Lead
2102011000	Fuel Combustion; Industrial; Kerosene	0.11	11.11	2.78	1.27	0.86	0.44	24.53	0.0007
Totals For: INDUSTRIAL FUEL COMBUSTION		11.03	229.92	291.69	185.51	159.46	6.74	101.85	0.0028
Sector: Industrial Processes - Mining									
2325000000	Mining and Quarrying	0.00	0.00	0.00	409.59	51.20	0.00	0.00	0.0000
Totals For: Industrial Processes - Mining		0.00	0.00	0.00	409.59	51.20	0.00	0.00	0.0000

Table 1
2011 Annual Emissions (TPY) by County, Sector and SCC for Area Sources

Scc	Scc Description	Area Source Emissions (TPY)							
		VOC	NOx	CO	PM10	PM2.5	NH3	SO2	Lead
Sector: Industrial Processes - Storage and Transfer									
2501011011	portable fuel containers, residential, permeation	20.17	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2501011012	portable fuel containers, residential, evaporation (includes diurnal losses)	39.38	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2501011013	portable fuel containers, residential, spilling during transport	29.53	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2501011014	portable fuel containers, residential, refilling at the pump, vapor displacement	8.47	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2501011015	portable fuel containers, residential, refilling at the pump, spillage	0.97	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2501012011	portable fuel containers, commercial, permeation	0.64	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2501012012	portable fuel containers, commercial, evaporation (includes diurnal losses)	1.26	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2501012013	portable fuel containers, commercial, spilling during transport	40.29	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2501012014	portable fuel containers, commercial, refilling at the pump, vapor displacement	16.33	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2501012015	portable fuel containers, commercial, refilling at the pump, spillage	1.87	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
Totals For: Industrial Processes - Storage and Transfer		158.92	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
Sector: Miscellaneous Non-Industrial NEC									
2810060100	Cremation - Human	0.01	2.74	0.01	0.18	0.18	0.00	0.42	0.0011
2810060200		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2850001000	Dental Preparation and Use	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2851001000	General Laboratory Activities	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2861000000	Lamp Breakage (Landfill emissions)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2861000010	Lamp (Fluorescent) Recycling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000

Table 1
2011 Annual Emissions (TPY) by County, Sector and SCC for Area Sources

Sec	Sec Description	Area Source Emissions (TPY)							
		VOC	NOx	CO	PM10	PM2.5	NH3	SO2	Lead
Totals For: Miscellaneous Non-Industrial NEC		0.01	2.74	0.01	0.18	0.18	0.00	0.42	0.0011

Table 1
2011 Annual Emissions (TPY) by County, Sector and SCC for Area Sources

Scc	Scc Description	Area Source Emissions (TPY)							
		VOC	NOx	CO	PM10	PM2.5	NH3	SO2	Lead
Sector:	Residential Heating								
2104001000	Residential Heating: Anthracite Coal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2104002000	Residential Heating: Bituminous Coal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2104004000	Residential Heating: Distillate Oil	43.09	1,107.99	307.77	146.50	131.11	61.55	2,622.23	0.0778
2104006000	Residential Heating: Natural Gas	33.30	569.06	242.15	3.15	2.60	121.08	3.63	0.0000
2104007000	Residential Heating: LPG	3.72	101.42	56.79	0.35	0.29	0.33	0.41	0.0000
2104008100	Residential Heating: Fireplaces (cordwood)	47.12	6.48	371.44	58.83	58.83	4.49	1.00	0.0000
2104008210	Residential Heating: Inserts non certified	501.33	26.49	2,183.15	289.45	289.45	16.08	3.78	0.0000
2104008220	Residential Heating: Inserts EPA certified non-cat	36.40	6.92	427.11	59.46	59.46	2.73	1.21	0.0000
2104008230	Residential Heating: Inserts EPA certified cat	15.17	2.02	105.60	20.63	20.63	0.91	0.40	0.0000
2104008310	Residential Heating: free standing WS non certified	1,512.38	79.90	6,586.00	873.19	873.19	48.51	11.41	0.0000
2104008320	Residential Heating: free standing WS EPA certified non-cat	109.78	20.86	1,288.13	179.31	179.31	8.23	3.66	0.0000
2104008330	Residential Heating: free standing WS EPA certified cat	45.74	6.10	318.34	62.20	62.20	2.74	1.22	0.0000
2104008400	Residential Heating: pellet stoves	0.23	21.04	88.04	16.94	16.94	1.66	1.77	0.0000
2104008510	Residential Heating: furnace indoor	17.83	2.78	277.37	41.70	41.70	2.72	3.07	0.0000
2104008610	Residential Heating: Hydronic heater: outdoor	9.92	0.27	52.96	9.42	9.42	0.26	0.30	0.0000
2104008700	Residential Heating: Outdoor wood burning device, NEC	12.76	1.75	100.56	15.93	15.93	1.21	0.27	0.0000
2104009000	Residential Heating: Firelog	29.99	5.83	94.83	22.23	21.53	0.00	0.00	0.0000
2104011000	Residential Heating: Kerosene	0.15	3.89	1.08	0.51	0.46	0.22	9.21	0.0003
Totals For:	Residential Heating	2,418.89	1,962.80	12,501.33	1,799.80	1,783.05	272.74	2,663.58	0.0781

Table 1
2011 Annual Emissions (TPY) by County, Sector and SCC for Area Sources

Scc	Scc Description	Area Source Emissions (TPY)							
		VOC	NOx	CO	PM10	PM2.5	NH3	SO2	Lead
Sector:	Solvent - Consumer & Commercial Solvent Use								
2460100000	C&C: Cosmetics and Toiletries	819.36	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2460200000	C&C: Cleaning Products; Household	776.23	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2460400000	C&C: Auto Aftermarket	586.49	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2460500000	C&C: Coatings and Related Products	409.68	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2460600000	C&C: adhesives and sealants	245.81	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2460800000	C&C: FIFRA Regulated Products	767.61	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2460900000	C&C: Misc. Products (not otherwise covered)	30.19	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2461021000	Cutback Asphalt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2461022000	Emulsified Asphalt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2461850000	Ag Pesticide	12.67	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
Totals For:	Solvent - Consumer & Commercial Solvent Use	3,648.02	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
Sector:	Solvent - Degreasing								
2415000000	Degreasing	590.58	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
Totals For:	Solvent - Degreasing	590.58	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
Sector:	Solvent - Dry Cleaning								
2420000000	Dry Cleaning	2.85	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
Totals For:	Solvent - Dry Cleaning	2.85	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
Sector:	Solvent - Graphic Arts								
2425000000	Graphic Arts	175.12	0.00	0.00	0.00	0.00	0.00	0.00	0.0000

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Table 1
2011 Annual Emissions (TPY) by County, Sector and SCC for Area Sources

Sec	Sec Description	Area Source Emissions (TPY)							
		VOC	NOx	CO	PM10	PM2.5	NH3	SO2	Lead
Totals For: Solvent - Graphic Arts		175.12	0.00	0.00	0.00	0.00	0.00	0.00	0.0000

Table 1
2011 Annual Emissions (TPY) by County, Sector and SCC for Area Sources

Sector:	Scc	Scc Description	Area Source Emissions (TPY)							
			VOC	NOx	CO	PM10	PM2.5	NH3	SO2	Lead
		Solvent - Industrial Surface Coating & Solvent Use								
	2401005000	Auto Refinishing SIC 7532	194.49	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
	2401008000	Surface Coating - Traffic Markings	0.57	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
	2401015000	Surface Coating - Factory Finished Wood: SIC 2426 thru 242	7.21	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
	2401020000	Surface Coating - Wood Furniture	64.07	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
	2401025000	Surface Coating - Metal Furniture: SIC 25	18.22	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
	2401030000	Surface Coating - Paper, foil, and film	8.66	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
	2401040000	Surface Coating - Metal Can Coating	136.58	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
	2401045000	Surface Coating - Sheet, strip, and coil	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
	2401055000	Surface Coating - Machinery and Equipment: SIC 35	10.35	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
	2401060000	Surface Coating - Large Appliances: SIC 363	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
	2401065000	Surface Coating - Electronic and other Electric Coatings	11.27	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
	2401070000	Surface Coating - Motor Vehicles	85.20	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
	2401075000	Surface Coating - Aircraft	8.16	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
	2401080000	Surface Coating - Marine	7.45	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
	2401085000	Surface Coating - Railroad	0.87	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
	2401090000	Surface Coating - Miscellaneous Manufacturing	160.25	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
	2401100000	Industrial Maintenance Coatings	64.69	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
	2401200000	Other Special Purpose Coatings	27.60	0.00	0.00	0.00	0.00	0.00	0.00	0.0000

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Table 1
2011 Annual Emissions (TPY) by County, Sector and SCC for Area Sources

Scc	Scc Description	Area Source Emissions (TPY)							
		VOC	NOx	CO	PM10	PM2.5	NH3	SO2	Lead
Totals For: Solvent - Industrial Surface Coating & Solvent		805.63	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
Sector: Solvent - Non-Industrial Surface Coating									
2401001000	Architectural Coatings	810.73	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
Totals For: Solvent - Non-Industrial Surface Coating		810.73	0.00	0.00	0.00	0.00	0.00	0.00	0.0000

Table 1
2011 Annual Emissions (TPY) by County, Sector and SCC for Area Sources

Scc	Scc Description	Area Source Emissions (TPY)							
		VOC	NOx	CO	PM10	PM2.5	NH3	SO2	Lead
Sector:	Waste Disposal								
2610000100	Open Burning - Yard Waste - Leaves	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2610000400	Open Burning - Yard Waste - Brush	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2610000500	Open Burning - Land Clearing Debris	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2610030000	Open Burning - Household Waste	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2620030001		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2630020000	Publically Owned Treatment Works (POTW)	16.05	0.00	0.00	0.00	0.00	3.19	0.00	0.0000
2650000000		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2650000002		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
Totals For: Waste Disposal		16.05	0.00	0.00	0.00	0.00	3.19	0.00	0.0000
Totals For:	New Haven County	9,457.75	2,922.15	13,386.18	5,772.04	2,779.71	401.70	3,068.13	0.0915

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Table 1
2011 Annual Emissions (TPY) by County, Sector and SCC for Area Sources

Scc	Scc Description	Area Source Emissions (TPY)							
		VOC	NOx	CO	PM10	PM2.5	NH3	SO2	Lead
New London	County								
Sector:	Agriculture - Crops & Livestock Dust								
280100003	Agricultural Tilling	0.00	0.00	0.00	133.79	26.76	0.00	0.00	0.0000
Totals For:	Agriculture - Crops & Livestock Dust	0.00	0.00	0.00	133.79	26.76	0.00	0.00	0.0000
Sector:	Agriculture - Fertilizer Application								
2801700001	Fertilizer Application; Anhydrous Ammonia	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2801700002	Fertilizer Application; Aqueous Ammonia	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2801700003	Fertilizer Application; Nitrogen Solutions	0.00	0.00	0.00	0.00	0.00	0.38	0.00	0.0000
2801700004	Fertilizer Application; Urea	0.00	0.00	0.00	0.00	0.00	17.33	0.00	0.0000
2801700005	Fertilizer Application; Ammonium Nitrate	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.0000
2801700006	Fertilizer Application; Ammonium Sulfate	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.0000
2801700007	Fertilizer Application; Ammonium Thiosulfate	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2801700010	Fertilizer Application; N-P-K (mult-grade nutrient fertilizers)	0.00	0.00	0.00	0.00	0.00	8.38	0.00	0.0000
2801700011	Fertilizer Application; Calcium Ammonium Nitrate	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2801700012	Fertilizer Application; Potassium Nitrate	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2801700013	Fertilizer Application; Diammonium Phosphate	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2801700014	Fertilizer Application; Monoammonium Phosphate	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2801700015	Fertilizer Application; Liquid Ammonium Polyphosphate	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2801700099	Fertilizer Application; Miscellaneous Fertilizers	0.00	0.00	0.00	0.00	0.00	35.01	0.00	0.0000
Totals For:	Agriculture - Fertilizer Application	0.00	0.00	0.00	0.00	0.00	61.14	0.00	0.0000

Table 1
2011 Annual Emissions (TPY) by County, Sector and SCC for Area Sources

Scc	Scc Description	Area Source Emissions (TPY)							
		VOC	NOx	CO	PM10	PM2.5	NH3	SO2	Lead
Sector:	Agriculture - Livestock Waste								
2805001100	Beef cattle - finishing operations on feedlots (drylots); Confinement	0.00	0.00	0.00	0.00	0.00	0.57	0.00	0.0000
2805001200	Beef cattle - finishing operations on feedlots (drylots); Manure handling and storage	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2805001300	Beef cattle - finishing operations on feedlots (drylots); Land application of manure	0.00	0.00	0.00	0.00	0.00	0.44	0.00	0.0000
2805002000	Beef cattle production composite; Not Elsewhere Classified	0.00	0.00	0.00	0.00	0.00	4.34	0.00	0.0000
2805003100	Beef cattle - finishing operations on pasture/range :Confinement	0.00	0.00	0.00	0.00	0.00	3.48	0.00	0.0000
2805007100	Poultry production - layers with dry manure management systems; Confinement	0.00	0.00	0.00	0.00	0.00	397.32	0.00	0.0000
2805007300	Poultry production - layers with dry manure management systems; Land application of manure	0.00	0.00	0.00	0.00	0.00	13.33	0.00	0.0000
2805008100	Poultry production - layers with wet manure management systems; Confinement	0.00	0.00	0.00	0.00	0.00	5.90	0.00	0.0000
2805008200	Poultry production - layers with wet manure management systems; Manure handling and storage	0.00	0.00	0.00	0.00	0.00	18.61	0.00	0.0000
2805008300	Poultry production - layers with wet manure management systems :Land application of manure	0.00	0.00	0.00	0.00	0.00	3.06	0.00	0.0000
2805009100	Poultry production - broilers; Confinement	0.00	0.00	0.00	0.00	0.00	1.10	0.00	0.0000
2805009200	Poultry production - broilers; manure handling and storage	0.00	0.00	0.00	0.00	0.00	0.20	0.00	0.0000
2805009300	Poultry production - broilers; Land Application and storage	0.00	0.00	0.00	0.00	0.00	0.90	0.00	0.0000
2805010100	Poultry production - turkeys; Confinement	0.00	0.00	0.00	0.00	0.00	0.20	0.00	0.0000
2805010200	Poultry production - turkeys; Manure handling and storage	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.0000
2805010300	Poultry production - turkeys; Land application and storage	0.00	0.00	0.00	0.00	0.00	0.18	0.00	0.0000
2805018000	Dairy cattle composite; Not Elsewhere Classified	0.00	0.00	0.00	0.00	0.00	90.16	0.00	0.0000
2805019100	Dairy cattle - flush dairy; Confinement	0.00	0.00	0.00	0.00	0.00	2.80	0.00	0.0000

Table 1
2011 Annual Emissions (TPY) by County, Sector and SCC for Area Sources

Scc	Scc Description	Area Source Emissions (TPY)							
		VOC	NOx	CO	PM10	PM2.5	NH3	SO2	Lead
2805019200	Dairy cattle - flush dairy; Manure handling and storage	0.00	0.00	0.00	0.00	0.00	7.83	0.00	0.0000
2805019300	Dairy cattle - flush dairy; Land application of manure	0.00	0.00	0.00	0.00	0.00	0.74	0.00	0.0000
2805021100	Dairy cattle - scrape dairy; Confinement	0.00	0.00	0.00	0.00	0.00	21.25	0.00	0.0000
2805021200	Dairy cattle - scrape dairy; Manure handling and storage	0.00	0.00	0.00	0.00	0.00	24.29	0.00	0.0000

Table 1
2011 Annual Emissions (TPY) by County, Sector and SCC for Area Sources

Scc	Scc Description	Area Source Emissions (TPY)							
		VOC	NOx	CO	PM10	PM2.5	NH3	SO2	Lead
2805021300	Dairy cattle - scrape dairy; Land application of manure	0.00	0.00	0.00	0.00	0.00	45.54	0.00	0.0000
2805022100	Dairy cattle - deep pit dairy; Confinement	0.00	0.00	0.00	0.00	0.00	2.46	0.00	0.0000
2805022200	Dairy cattle - deep pit dairy; Manure handling and storage	0.00	0.00	0.00	0.00	0.00	0.11	0.00	0.0000
2805022300	Dairy cattle - deep pit dairy; Land application of manure	0.00	0.00	0.00	0.00	0.00	1.39	0.00	0.0000
2805023100	Dairy cattle - drylot/pasture dairy; Confinement	0.00	0.00	0.00	0.00	0.00	18.08	0.00	0.0000
2805023200	Dairy cattle - drylot/pasture dairy; Manure handling and storage	0.00	0.00	0.00	0.00	0.00	0.20	0.00	0.0000
2805023300	Dairy cattle - drylot/pasture dairy; Land application of manure	0.00	0.00	0.00	0.00	0.00	22.84	0.00	0.0000
2805025000	Swine production composite; Not Elsewhere Classified	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2805030000	Poultry Waste Emissions; Not Elsewhere Classified	0.00	0.00	0.00	0.00	0.00	77.22	0.00	0.0000
2805030007	Poultry Waste Emissions; Ducks	0.00	0.00	0.00	0.00	0.00	0.54	0.00	0.0000
2805030008	Poultry Waste Emissions; Geese	0.00	0.00	0.00	0.00	0.00	0.14	0.00	0.0000
2805035000	Horses and Ponies Waste Emissions; Not Elsewhere Classified	0.00	0.00	0.00	0.00	0.00	19.54	0.00	0.0000
2805039100	Swine production - operations with lagoons (unspecified animal age); Confinement	0.00	0.00	0.00	0.00	0.00	1.37	0.00	0.0000
2805039200	Swine production - operations with lagoons (unspecified animal age); Manure handling and storage	0.00	0.00	0.00	0.00	0.00	2.77	0.00	0.0000
2805039300	Swine production - operations with lagoons (unspecified animal age); Land application of manure	0.00	0.00	0.00	0.00	0.00	0.23	0.00	0.0000
2805040000	Sheep and Lambs Waste Emissions; Total	0.00	0.00	0.00	0.00	0.00	5.17	0.00	0.0000
2805045000	Goats Waste Emissions; Not Elsewhere Classified	0.00	0.00	0.00	0.00	0.00	4.91	0.00	0.0000
2805047100	Swine production - deep-pit house operations (unspecified animal age); Confinement	0.00	0.00	0.00	0.00	0.00	1.91	0.00	0.0000
2805047300	Swine production - deep-pit house operations (unspecified animal age); Land application of manure	0.00	0.00	0.00	0.00	0.00	0.89	0.00	0.0000

Table 1
2011 Annual Emissions (TPY) by County, Sector and SCC for Area Sources

Scc	Scc Description	Area Source Emissions (TPY)							
		VOC	NOx	CO	PM10	PM2.5	NH3	SO2	Lead
2805053100	Swine production - outdoor operations (unspecified animal age); Confinement	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.0000
Totals For: Agriculture - Livestock Waste		0.00	0.00	0.00	0.00	0.00	802.07	0.00	0.0000
Sector: Aircraft									
2275087000	In-flight (non-Landing-Takeoff cycle) Lead Emissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000

Table 1
2011 Annual Emissions (TPY) by County, Sector and SCC for Area Sources

Scc	Scc Description	Area Source Emissions (TPY)							
		VOC	NOx	CO	PM10	PM2.5	NH3	SO2	Lead
Totals For: Aircraft		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
Sector:	Bulk Gasoline Terminals								
2501050120	Gasoline Distribution Stage I; Bulk Terminals	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2501055120	Gasoline Distribution Stage I; Bulk Plants	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2505030120	Gasoline Distribution Stage I; Tank Trucks in Transit	5.02	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2505040120	Gasoline Distribution Stage I; Bulk Terminals	160.87	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
Totals For: Bulk Gasoline Terminals		165.89	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
Sector:	Commercial Cooking								
2302002100	Commercial Cooking: Conveyorized Charbroiling	2.12	0.00	7.09	8.48	8.23	0.00	0.00	0.0000
2302002200	Commercial Cooking: Under-fired Charbroiling	6.41	0.00	21.00	53.55	51.76	0.00	0.00	0.0000
2302003000	Commercial Cooking: Deep Fat Frying	1.09	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2302003100	Commercial Cooking: Flat Griddle Frying	0.84	0.00	1.74	14.10	10.71	0.00	0.00	0.0000
2302003200	Commercial Cooking: Clamshell Griddle Frying	0.02	0.00	0.00	0.99	0.83	0.00	0.00	0.0000
Totals For: Commercial Cooking		10.49	0.00	29.83	77.13	71.53	0.00	0.00	0.0000
Sector:	Commercial/ Institutional Fuel Combustion								
2103001000	Fuel Combustion; Commercial/Institutional; Anthra Coal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2103002000	Fuel Combustion; Commercial/Institutional; Bit Coal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2103004001	Fuel Combustion; Commercial/Institutional; Distillate Oil Boiler	0.55	32.49	8.12	3.87	3.46	1.30	68.65	0.0020
2103004002	Fuel Combustion; Commercial/Institutional; Distillate Oil IC Engine	0.00	48.28	10.39	7.80	7.80	0.00	0.00	0.0000
2103005000	Fuel Combustion; Commercial/Institutional; Residual Oil	0.18	8.88	0.81	2.65	1.14	0.13	25.42	0.0003

Table 1
2011 Annual Emissions (TPY) by County, Sector and SCC for Area Sources

Scc	Scc Description	Area Source Emissions (TPY)							
		VOC	NOx	CO	PM10	PM2.5	NH3	SO2	Lead
2103006000	Fuel Combustion; Commercial/Institutional; Natural Gas	7.08	128.64	108.06	0.67	0.55	0.63	0.77	0.0006
2103007000	Fuel Combustion; Commercial/Institutional; Liquified Petroleum Gas	0.31	8.52	4.77	0.03	0.02	0.03	0.04	0.0000
2103008000	Fuel Combustion; Commercial/Institutional; Wood	0.25	3.18	8.67	7.47	6.46	0.07	0.36	0.0000
2103011000	Fuel Combustion; Commercial/Institutional; Kerosene	0.00	0.23	0.06	0.03	0.03	0.01	0.51	0.0000

Table 1
2011 Annual Emissions (TPY) by County, Sector and SCC for Area Sources

Scc	Scc Description	Area Source Emissions (TPY)							
		VOC	NOx	CO	PM10	PM2.5	NH3	SO2	Lead
Totals For: Commercial/ Institutional Fuel Combustion		8.37	230.22	140.88	22.52	19.46	2.17	95.74	0.0030
Sector:	Dust - Construction Dust								
2311010000	Construction - Residential	0.00	0.00	0.00	11.19	1.12	0.00	0.00	0.0000
2311020000	Construction - Non-Residential	0.00	0.00	0.00	353.10	35.31	0.00	0.00	0.0000
2311030000	Construction - Road	0.00	0.00	0.00	227.06	22.71	0.00	0.00	0.0000
Totals For: Dust - Construction Dust		0.00	0.00	0.00	591.35	59.13	0.00	0.00	0.0000
Sector:	Dust - Paved Road Dust								
2294000000	Roads, Paved	0.00	0.00	0.00	983.46	245.87	0.00	0.00	0.0000
Totals For: Dust - Paved Road Dust		0.00	0.00	0.00	983.46	245.87	0.00	0.00	0.0000
Sector:	Dust - Unpaved Road Dust								
2296000000	Roads, Unpaved	0.00	0.00	0.00	1,213.26	120.66	0.00	0.00	0.0000
Totals For: Dust - Unpaved Road Dust		0.00	0.00	0.00	1,213.26	120.66	0.00	0.00	0.0000
Sector:	Event								
2810001000	Forest Wildfires	9.42	0.76	39.68	4.23	3.58	0.66	0.36	0.0000
2811015000	Prescribed Forest Burning	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
Totals For: Event		9.42	0.76	39.68	4.23	3.58	0.66	0.36	0.0000
Sector:	Fires - Agricultural Field Burning								
2801500000	Agric - Crops /Field Burning - whole field set on fire /Unspecified crop type and Burn Method	0.84	0.59	13.53	2.72	1.27	0.00	0.30	0.0000
Totals For: Fires - Agricultural Field Burning		0.84	0.59	13.53	2.72	1.27	0.00	0.30	0.0000

Table 1
2011 Annual Emissions (TPY) by County, Sector and SCC for Area Sources

Scc	Scc Description	Area Source Emissions (TPY)							
		VOC	NOx	CO	PM10	PM2.5	NH3	SO2	Lead
Sector: Gas Stations									
2201000062	Gasoline Distribution Stage II; Gasoline Service Stations, Stage 2	31.43	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2202000062	Gasoline Distribution Stage II; Diesel Service Stations, Stage 2	4.72	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2501060051	Gasoline Distribution Stage I; Gasoline Service Station Unloading Submerged filling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2501060052	Gasoline Distribution Stage I; Gasoline Service Station Unloading Splash filling	68.27	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2501060053	Gasoline Distribution Stage I; Gasoline Service Station Unloading Balanced Submerged filling	49.41	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2501060201	Gasoline Distribution Stage I; Underground storage tank, breathing and emptying	76.69	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2501080050	Aviation Gasoline Distribution: Stage I	18.94	0.00	0.00	0.00	0.00	0.00	0.00	0.0002
2501080100	Aviation Gasoline Distribution: Stage II	0.98	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
Totals For: Gas Stations		250.44	0.00	0.00	0.00	0.00	0.00	0.00	0.0002
Sector: INDUSTRIAL FUEL COMBUSTION									
2102001000	Fuel Combustion; Industrial; Anthr Coal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2102002000	Fuel Combustion; Industrial; Bit Coal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2102004001	Fuel Combustion; Industrial; Distillate oil Boiler	0.09	8.72	2.18	1.00	0.68	0.35	18.43	0.0005
2102004002	Fuel Combustion; Industrial; Distillate oil IC Engine	0.00	5.47	1.18	0.87	0.85	0.00	0.00	0.0000
2102005000	Fuel Combustion; Industrial; Residual Oil	0.01	1.67	0.15	0.67	0.45	0.02	4.77	0.0000
2102006000	Fuel Combustion; Industrial; Natural Gas	1.31	23.86	20.04	0.13	0.10	0.76	0.14	0.0001
2102007000	Fuel Combustion; Industrial; Liquified Petroleum Gas (LPG)	0.33	9.15	5.12	0.03	0.03	0.19	0.04	0.0000
2102008000	Fuel Combustion; Industrial; Wood	1.97	25.49	69.51	59.89	51.78	0.81	2.90	0.0000

Table 1
2011 Annual Emissions (TPY) by County, Sector and SCC for Area Sources

Scc	Scc Description	Area Source Emissions (TPY)							
		VOC	NOx	CO	PM10	PM2.5	NH3	SO2	Lead
2102011000	Fuel Combustion; Industrial; Kerosene	0.04	3.77	0.94	0.43	0.29	0.15	8.34	0.0002
Totals For: INDUSTRIAL FUEL COMBUSTION		3.75	78.13	99.13	63.03	54.19	2.29	34.61	0.0010
Sector: Industrial Processes - Mining									
2325000000	Mining and Quarrying	0.00	0.00	0.00	23.41	2.93	0.00	0.00	0.0000
Totals For: Industrial Processes - Mining		0.00	0.00	0.00	23.41	2.93	0.00	0.00	0.0000

Table 1
2011 Annual Emissions (TPY) by County, Sector and SCC for Area Sources

Scc	Scc Description	Area Source Emissions (TPY)							
		VOC	NOx	CO	PM10	PM2.5	NH3	SO2	Lead
Sector:	Industrial Processes - Storage and Transfer								
2501011011	portable fuel containers, residential, permeation	5.09	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2501011012	portable fuel containers, residential, evaporation (includes diurnal losses)	9.94	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2501011013	portable fuel containers, residential, spilling during transport	7.45	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2501011014	portable fuel containers, residential, refilling at the pump, vapor displacement	2.14	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2501011015	portable fuel containers, residential, refilling at the pump, spillage	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2501012011	portable fuel containers, commercial, permeation	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2501012012	portable fuel containers, commercial, evaporation (includes diurnal losses)	0.32	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2501012013	portable fuel containers, commercial, spilling during transport	10.17	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2501012014	portable fuel containers, commercial, refilling at the pump, vapor displacement	4.12	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2501012015	portable fuel containers, commercial, refilling at the pump, spillage	0.47	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
Totals For:	Industrial Processes - Storage and Transfer	40.11	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
Sector:	Miscellaneous Non-Industrial NEC								
2810060100	Cremation - Human	0.00	0.86	0.00	0.06	0.06	0.00	0.13	0.0003
2810060200		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2850001000	Dental Preparation and Use	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2851001000	General Laboratory Activities	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2861000000	Lamp Breakage (Landfill emissions)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2861000010	Lamp (Fluorescent) Recycling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000

Table 1
2011 Annual Emissions (TPY) by County, Sector and SCC for Area Sources

Sec	Sec Description	Area Source Emissions (TPY)							
		VOC	NOx	CO	PM10	PM2.5	NH3	SO2	Lead
Totals For: Miscellaneous Non-Industrial NEC		0.00	0.86	0.00	0.06	0.06	0.00	0.13	0.0003

Table 1
2011 Annual Emissions (TPY) by County, Sector and SCC for Area Sources

Scc	Scc Description	Area Source Emissions (TPY)							
		VOC	NOx	CO	PM10	PM2.5	NH3	SO2	Lead
Sector:	Residential Heating								
2104001000	Residential Heating: Anthracite Coal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2104002000	Residential Heating: Bituminous Coal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2104004000	Residential Heating: Distillate Oil	18.02	463.45	128.74	61.28	54.84	25.75	1,096.83	0.0326
2104006000	Residential Heating: Natural Gas	3.34	57.02	24.26	0.32	0.26	12.13	0.36	0.0000
2104007000	Residential Heating: LPG	1.92	52.44	29.36	0.18	0.15	0.17	0.21	0.0000
2104008100	Residential Heating: Fireplaces (cordwood)	14.38	1.98	113.34	17.95	17.95	1.37	0.30	0.0000
2104008210	Residential Heating: Inserts non certified	153.07	8.09	666.60	88.38	88.38	4.91	1.16	0.0000
2104008220	Residential Heating: Inserts EPA certified non-cat	11.13	2.11	130.60	18.18	18.18	0.83	0.37	0.0000
2104008230	Residential Heating: Inserts EPA certified cat	4.62	0.62	32.19	6.29	6.29	0.28	0.12	0.0000
2104008310	Residential Heating: free standing WS non certified	461.94	24.40	2,011.61	266.70	266.70	14.82	3.49	0.0000
2104008320	Residential Heating: free standing WS EPA certified non-cat	33.53	6.37	393.43	54.77	54.77	2.51	1.12	0.0000
2104008330	Residential Heating: free standing WS EPA certified cat	13.97	1.86	97.21	18.99	18.99	0.84	0.37	0.0000
2104008400	Residential Heating: pellet stoves	0.07	6.78	28.38	5.46	5.46	0.54	0.57	0.0000
2104008510	Residential Heating: furnace indoor	7.96	1.24	123.84	18.62	18.62	1.21	1.37	0.0000
2104008610	Residential Heating: Hydronic heater: outdoor	73.39	2.00	391.98	69.69	69.69	1.96	2.21	0.0000
2104008700	Residential Heating: Outdoor wood burning device, NEC	3.71	0.51	29.26	4.63	4.63	0.35	0.08	0.0000
2104009000	Residential Heating: Firelog	9.60	1.86	30.36	7.12	6.89	0.00	0.00	0.0000
2104011000	Residential Heating: Kerosene	0.06	1.63	0.45	0.22	0.19	0.09	3.85	0.0001
Totals For:	Residential Heating	810.72	632.38	4,231.60	638.77	632.00	67.76	1,112.42	0.0327

Table 1
2011 Annual Emissions (TPY) by County, Sector and SCC for Area Sources

Scc	Scc Description	Area Source Emissions (TPY)							
		VOC	NOx	CO	PM10	PM2.5	NH3	SO2	Lead
Sector:	Solvent - Consumer & Commercial Solvent Use								
2460100000	C&C: Cosmetics and Toiletries	260.35	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2460200000	C&C: Cleaning Products; Household	246.65	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2460400000	C&C: Auto Aftermarket	186.36	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2460500000	C&C: Coatings and Related Products	130.18	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2460600000	C&C: adhesives and sealants	78.11	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2460800000	C&C: FIFRA Regulated Products	243.91	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2460900000	C&C: Misc. Products (not otherwise covered)	9.59	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2461021000	Cutback Asphalt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2461022000	Emulsified Asphalt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2461850000	Ag Pesticide	11.74	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
Totals For:	Solvent - Consumer & Commercial Solvent Use	1,166.89	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
Sector:	Solvent - Degreasing								
2415000000	Degreasing	245.14	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
Totals For:	Solvent - Degreasing	245.14	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
Sector:	Solvent - Dry Cleaning								
2420000000	Dry Cleaning	1.25	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
Totals For:	Solvent - Dry Cleaning	1.25	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
Sector:	Solvent - Graphic Arts								
2425000000	Graphic Arts	35.83	0.00	0.00	0.00	0.00	0.00	0.00	0.0000

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Table 1
2011 Annual Emissions (TPY) by County, Sector and SCC for Area Sources

Sec	Sec Description	Area Source Emissions (TPY)							
		VOC	NOx	CO	PM10	PM2.5	NH3	SO2	Lead
Totals For: Solvent - Graphic Arts		35.83	0.00	0.00	0.00	0.00	0.00	0.00	0.0000

Table 1
2011 Annual Emissions (TPY) by County, Sector and SCC for Area Sources

Sector:	Scc	Scc Description	Area Source Emissions (TPY)							
			VOC	NOx	CO	PM10	PM2.5	NH3	SO2	Lead
		Solvent - Industrial Surface Coating & Solvent Use								
	2401005000	Auto Refinishing SIC 7532	67.42	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
	2401008000	Surface Coating - Traffic Markings	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
	2401015000	Surface Coating - Factory Finished Wood: SIC 2426 thru 242	1.19	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
	2401020000	Surface Coating - Wood Furniture	9.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
	2401025000	Surface Coating - Metal Furniture: SIC 25	1.48	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
	2401030000	Surface Coating - Paper, foil, and film	31.69	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
	2401040000	Surface Coating - Metal Can Coating	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
	2401045000	Surface Coating - Sheet, strip, and coil	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
	2401055000	Surface Coating - Machinery and Equipment: SIC 35	8.68	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
	2401060000	Surface Coating - Large Appliances: SIC 363	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
	2401065000	Surface Coating - Electronic and other Electric Coatings	0.84	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
	2401070000	Surface Coating - Motor Vehicles	3.51	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
	2401075000	Surface Coating - Aircraft	0.86	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
	2401080000	Surface Coating - Marine	686.15	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
	2401085000	Surface Coating - Railroad	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
	2401090000	Surface Coating - Miscellaneous Manufacturing	10.06	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
	2401100000	Industrial Maintenance Coatings	20.55	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
	2401200000	Other Special Purpose Coatings	8.77	0.00	0.00	0.00	0.00	0.00	0.00	0.0000

Table 1
2011 Annual Emissions (TPY) by County, Sector and SCC for Area Sources

Scc	Scc Description	Area Source Emissions (TPY)							
		VOC	NOx	CO	PM10	PM2.5	NH3	SO2	Lead
Totals For: Solvent - Industrial Surface Coating & Solvent		850.52	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
Sector: Solvent - Non-Industrial Surface Coating									
2401001000	Architectural Coatings	257.61	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
Totals For: Solvent - Non-Industrial Surface Coating		257.61	0.00	0.00	0.00	0.00	0.00	0.00	0.0000

Table 1
2011 Annual Emissions (TPY) by County, Sector and SCC for Area Sources

Scc	Scc Description	Area Source Emissions (TPY)							
		VOC	NOx	CO	PM10	PM2.5	NH3	SO2	Lead
Sector:	Waste Disposal								
2610000100	Open Burning - Yard Waste - Leaves	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2610000400	Open Burning - Yard Waste - Brush	3.05	0.80	22.50	3.17	2.44	0.00	0.27	0.0000
2610000500	Open Burning - Land Clearing Debris	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2610030000	Open Burning - Household Waste	30.06	21.07	298.53	133.46	122.22	0.00	3.51	0.0000
2620030001		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2630020000	Publically Owned Treatment Works (POTW)	5.02	0.00	0.00	0.00	0.00	1.00	0.00	0.0000
2650000000		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2650000002		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
Totals For: Waste Disposal		38.13	21.88	321.02	136.63	124.66	1.00	3.78	0.0000
Totals For:	New London County	3,895.41	964.80	4,875.67	3,890.35	1,362.09	937.09	1,247.35	0.0371

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Table 1
2011 Annual Emissions (TPY) by County, Sector and SCC for Area Sources

Tolland	County	Scc	Scc Description	Area Source Emissions (TPY)						Lead	
				VOC	NOx	CO	PM10	PM2.5	NH3		SO2
			Sector: Agriculture - Crops & Livestock Dust								
		2801000003	Agricultural Tilling	0.00	0.00	0.00	149.53	29.90	0.00	0.00	0.0000
			Totals For: Agriculture - Crops & Livestock Dust	0.00	0.00	0.00	149.53	29.90	0.00	0.00	0.0000
			Sector: Agriculture - Fertilizer Application								
		2801700001	Fertilizer Application; Anhydrous Ammonia	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
		2801700002	Fertilizer Application; Aqueous Ammonia	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
		2801700003	Fertilizer Application; Nitrogen Solutions	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.0000
		2801700004	Fertilizer Application; Urea	0.00	0.00	0.00	0.00	0.00	11.61	0.00	0.0000
		2801700005	Fertilizer Application; Ammonium Nitrate	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.0000
		2801700006	Fertilizer Application; Ammonium Sulfate	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.0000
		2801700007	Fertilizer Application; Ammonium Thiosulfate	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
		2801700010	Fertilizer Application; N-P-K (mult-grade nutrient fertilizers)	0.00	0.00	0.00	0.00	0.00	5.61	0.00	0.0000
		2801700011	Fertilizer Application; Calcium Ammonium Nitrate	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
		2801700012	Fertilizer Application; Potassium Nitrate	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
		2801700013	Fertilizer Application; Diammonium Phosphate	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
		2801700014	Fertilizer Application; Monoammonium Phosphate	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
		2801700015	Fertilizer Application; Liquid Ammonium Polyphosphate	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
		2801700099	Fertilizer Application; Miscellaneous Fertilizers	0.00	0.00	0.00	0.00	0.00	23.40	0.00	0.0000
			Totals For: Agriculture - Fertilizer Application	0.00	0.00	0.00	0.00	0.00	40.89	0.00	0.0000

Table 1
2011 Annual Emissions (TPY) by County, Sector and SCC for Area Sources

Scc	Scc Description	Area Source Emissions (TPY)							
		VOC	NOx	CO	PM10	PM2.5	NH3	SO2	Lead
Sector:	Agriculture - Livestock Waste								
2805001100	Beef cattle - finishing operations on feedlots (drylots); Confinement	0.00	0.00	0.00	0.00	0.00	0.56	0.00	0.0000
2805001200	Beef cattle - finishing operations on feedlots (drylots); Manure handling and storage	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2805001300	Beef cattle - finishing operations on feedlots (drylots); Land application of manure	0.00	0.00	0.00	0.00	0.00	0.43	0.00	0.0000
2805002000	Beef cattle production composite; Not Elsewhere Classified	0.00	0.00	0.00	0.00	0.00	3.02	0.00	0.0000
2805003100	Beef cattle - finishing operations on pasture/range :Confinement	0.00	0.00	0.00	0.00	0.00	2.22	0.00	0.0000
2805007100	Poultry production - layers with dry manure management systems; Confinement	0.00	0.00	0.00	0.00	0.00	2.42	0.00	0.0000
2805007300	Poultry production - layers with dry manure management systems; Land application of manure	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.0000
2805008100	Poultry production - layers with wet manure management systems; Confinement	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.0000
2805008200	Poultry production - layers with wet manure management systems; Manure handling and storage	0.00	0.00	0.00	0.00	0.00	0.09	0.00	0.0000
2805008300	Poultry production - layers with wet manure management systems :Land application of manure	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.0000
2805009100	Poultry production - broilers; Confinement	0.00	0.00	0.00	0.00	0.00	0.08	0.00	0.0000
2805009200	Poultry production - broilers; manure handling and storage	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.0000
2805009300	Poultry production - broilers; Land Application and storage	0.00	0.00	0.00	0.00	0.00	0.07	0.00	0.0000
2805010100	Poultry production - turkeys; Confinement	0.00	0.00	0.00	0.00	0.00	0.18	0.00	0.0000
2805010200	Poultry production - turkeys; Manure handling and storage	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.0000
2805010300	Poultry production - turkeys; Land application and storage	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.0000
2805018000	Dairy cattle composite; Not Elsewhere Classified	0.00	0.00	0.00	0.00	0.00	99.66	0.00	0.0000
2805019100	Dairy cattle - flush dairy; Confinement	0.00	0.00	0.00	0.00	0.00	3.17	0.00	0.0000

Table 1
2011 Annual Emissions (TPY) by County, Sector and SCC for Area Sources

Scc	Scc Description	Area Source Emissions (TPY)							
		VOC	NOx	CO	PM10	PM2.5	NH3	SO2	Lead
2805019200	Dairy cattle - flush dairy; Manure handling and storage	0.00	0.00	0.00	0.00	0.00	8.86	0.00	0.0000
2805019300	Dairy cattle - flush dairy; Land application of manure	0.00	0.00	0.00	0.00	0.00	0.84	0.00	0.0000
2805021100	Dairy cattle - scrape dairy; Confinement	0.00	0.00	0.00	0.00	0.00	24.16	0.00	0.0000
2805021200	Dairy cattle - scrape dairy; Manure handling and storage	0.00	0.00	0.00	0.00	0.00	27.72	0.00	0.0000

Table 1
2011 Annual Emissions (TPY) by County, Sector and SCC for Area Sources

Scc	Scc Description	Area Source Emissions (TPY)							
		VOC	NOx	CO	PM10	PM2.5	NH3	SO2	Lead
2805021300	Dairy cattle - scrape dairy; Land application of manure	0.00	0.00	0.00	0.00	0.00	51.88	0.00	0.0000
2805022100	Dairy cattle - deep pit dairy; Confinement	0.00	0.00	0.00	0.00	0.00	2.81	0.00	0.0000
2805022200	Dairy cattle - deep pit dairy; Manure handling and storage	0.00	0.00	0.00	0.00	0.00	0.13	0.00	0.0000
2805022300	Dairy cattle - deep pit dairy; Land application of manure	0.00	0.00	0.00	0.00	0.00	1.58	0.00	0.0000
2805023100	Dairy cattle - drylot/pasture dairy; Confinement	0.00	0.00	0.00	0.00	0.00	20.46	0.00	0.0000
2805023200	Dairy cattle - drylot/pasture dairy; Manure handling and storage	0.00	0.00	0.00	0.00	0.00	0.23	0.00	0.0000
2805023300	Dairy cattle - drylot/pasture dairy; Land application of manure	0.00	0.00	0.00	0.00	0.00	25.87	0.00	0.0000
2805025000	Swine production composite; Not Elsewhere Classified	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2805030000	Poultry Waste Emissions; Not Elsewhere Classified	0.00	0.00	0.00	0.00	0.00	1.97	0.00	0.0000
2805030007	Poultry Waste Emissions; Ducks	0.00	0.00	0.00	0.00	0.00	0.39	0.00	0.0000
2805030008	Poultry Waste Emissions; Geese	0.00	0.00	0.00	0.00	0.00	0.08	0.00	0.0000
2805035000	Horses and Ponies Waste Emissions; Not Elsewhere Classified	0.00	0.00	0.00	0.00	0.00	15.44	0.00	0.0000
2805039100	Swine production - operations with lagoons (unspecified animal age); Confinement	0.00	0.00	0.00	0.00	0.00	0.47	0.00	0.0000
2805039200	Swine production - operations with lagoons (unspecified animal age); Manure handling and storage	0.00	0.00	0.00	0.00	0.00	0.95	0.00	0.0000
2805039300	Swine production - operations with lagoons (unspecified animal age); Land application of manure	0.00	0.00	0.00	0.00	0.00	0.08	0.00	0.0000
2805040000	Sheep and Lambs Waste Emissions; Total	0.00	0.00	0.00	0.00	0.00	3.23	0.00	0.0000
2805045000	Goats Waste Emissions; Not Elsewhere Classified	0.00	0.00	0.00	0.00	0.00	3.38	0.00	0.0000
2805047100	Swine production - deep-pit house operations (unspecified animal age); Confinement	0.00	0.00	0.00	0.00	0.00	0.66	0.00	0.0000
2805047300	Swine production - deep-pit house operations (unspecified animal age); Land application of manure	0.00	0.00	0.00	0.00	0.00	0.31	0.00	0.0000

Table 1
2011 Annual Emissions (TPY) by County, Sector and SCC for Area Sources

Scc	Scc Description	Area Source Emissions (TPY)							
		VOC	NOx	CO	PM10	PM2.5	NH3	SO2	Lead
2805053100	Swine production - outdoor operations (unspecified animal age); Confinement	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.0000
Totals For: Agriculture - Livestock Waste		0.00	0.00	0.00	0.00	0.00	303.70	0.00	0.0000
Sector: Aircraft									
2275087000	In-flight (non-Landing-Takeoff cycle) Lead Emissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000

Table 1
2011 Annual Emissions (TPY) by County, Sector and SCC for Area Sources

Scc	Scc Description	Area Source Emissions (TPY)							
		VOC	NOx	CO	PM10	PM2.5	NH3	SO2	Lead
Totals For: Aircraft		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
Sector:	Bulk Gasoline Terminals								
2501050120	Gasoline Distribution Stage I; Bulk Terminals	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2501055120	Gasoline Distribution Stage I; Bulk Plants	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2505030120	Gasoline Distribution Stage I; Tank Trucks in Transit	2.57	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2505040120	Gasoline Distribution Stage I; Bulk Terminals	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
Totals For: Bulk Gasoline Terminals		2.57	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
Sector:	Commercial Cooking								
2302002100	Commercial Cooking: Conveyorized Charbroiling	0.73	0.00	2.45	2.93	2.83	0.00	0.00	0.0000
2302002200	Commercial Cooking: Under-fired Charbroiling	2.64	0.00	8.65	22.05	21.31	0.00	0.00	0.0000
2302003000	Commercial Cooking: Deep Fat Frying	0.38	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2302003100	Commercial Cooking: Flat Griddle Frying	0.35	0.00	0.73	5.91	4.49	0.00	0.00	0.0000
2302003200	Commercial Cooking: Clamshell Griddle Frying	0.01	0.00	0.00	0.32	0.26	0.00	0.00	0.0000
Totals For: Commercial Cooking		4.11	0.00	11.83	31.21	28.89	0.00	0.00	0.0000
Sector:	Commercial/ Institutional Fuel Combustion								
2103001000	Fuel Combustion; Commercial/Institutional; Anthra Coal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2103002000	Fuel Combustion; Commercial/Institutional; Bit Coal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2103004001	Fuel Combustion; Commercial/Institutional; Distillate Oil Boiler	0.17	9.91	2.48	1.18	1.05	0.40	20.93	0.0006
2103004002	Fuel Combustion; Commercial/Institutional; Distillate Oil IC Engine	0.00	14.72	3.17	2.37	2.37	0.00	0.00	0.0000
2103005000	Fuel Combustion; Commercial/Institutional; Residual Oil	0.06	2.71	0.25	0.81	0.35	0.04	7.75	0.0001

Table 1
2011 Annual Emissions (TPY) by County, Sector and SCC for Area Sources

Scc	Scc Description	Area Source Emissions (TPY)							
		VOC	NOx	CO	PM10	PM2.5	NH3	SO2	Lead
2103006000	Fuel Combustion; Commercial/Institutional; Natural Gas	2.16	39.21	32.94	0.20	0.17	0.19	0.24	0.0002
2103007000	Fuel Combustion; Commercial/Institutional; Liquified Petroleum Gas	0.09	2.60	1.45	0.01	0.01	0.01	0.01	0.0000
2103008000	Fuel Combustion; Commercial/Institutional; Wood	0.07	0.97	2.64	2.28	1.97	0.02	0.11	0.0000
2103011000	Fuel Combustion; Commercial/Institutional; Kerosene	0.00	0.07	0.02	0.01	0.01	0.00	0.16	0.0000

Table 1
2011 Annual Emissions (TPY) by County, Sector and SCC for Area Sources

Scc	Scc Description	Area Source Emissions (TPY)							
		VOC	NOx	CO	PM10	PM2.5	NH3	SO2	Lead
Totals For: Commercial/ Institutional Fuel Combustion		2.55	70.18	42.95	6.86	5.92	0.66	29.19	0.0009
Sector:	Dust - Construction Dust								
2311010000	Construction - Residential	0.00	0.00	0.00	6.41	0.64	0.00	0.00	0.0000
2311020000	Construction - Non-Residential	0.00	0.00	0.00	107.86	10.79	0.00	0.00	0.0000
2311030000	Construction - Road	0.00	0.00	0.00	185.78	18.58	0.00	0.00	0.0000
Totals For: Dust - Construction Dust		0.00	0.00	0.00	300.04	30.00	0.00	0.00	0.0000
Sector:	Dust - Paved Road Dust								
2294000000	Roads, Paved	0.00	0.00	0.00	585.18	146.29	0.00	0.00	0.0000
Totals For: Dust - Paved Road Dust		0.00	0.00	0.00	585.18	146.29	0.00	0.00	0.0000
Sector:	Dust - Unpaved Road Dust								
2296000000	Roads, Unpaved	0.00	0.00	0.00	1,000.74	99.53	0.00	0.00	0.0000
Totals For: Dust - Unpaved Road Dust		0.00	0.00	0.00	1,000.74	99.53	0.00	0.00	0.0000
Sector:	Event								
2810001000	Forest Wildfires	10.47	0.93	44.01	4.77	4.04	0.73	0.43	0.0000
2811015000	Prescribed Forest Burning	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
Totals For: Event		10.47	0.93	44.01	4.77	4.04	0.73	0.43	0.0000
Sector:	Fires - Agricultural Field Burning								
2801500000	Agric - Crops /Field Burning - whole field set on fire /Unspecified crop type and Burn Method	0.63	0.41	10.19	2.01	1.01	0.00	0.20	0.0000
Totals For: Fires - Agricultural Field Burning		0.63	0.41	10.19	2.01	1.01	0.00	0.20	0.0000

Table 1
2011 Annual Emissions (TPY) by County, Sector and SCC for Area Sources

Scc	Scc Description	Area Source Emissions (TPY)							
		VOC	NOx	CO	PM10	PM2.5	NH3	SO2	Lead
Sector: Gas Stations									
2201000062	Gasoline Distribution Stage II; Gasoline Service Stations, Stage 2	17.46	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2202000062	Gasoline Distribution Stage II; Diesel Service Stations, Stage 2	2.55	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2501060051	Gasoline Distribution Stage I; Gasoline Service Station Unloading Submerged filling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2501060052	Gasoline Distribution Stage I; Gasoline Service Station Unloading Splash filling	34.91	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2501060053	Gasoline Distribution Stage I; Gasoline Service Station Unloading Balanced Submerged filling	25.27	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2501060201	Gasoline Distribution Stage I; Underground storage tank, breathing and emptying	39.27	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2501080050	Aviation Gasoline Distribution: Stage I	6.70	0.00	0.00	0.00	0.00	0.00	0.00	0.0001
2501080100	Aviation Gasoline Distribution: Stage II	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
Totals For: Gas Stations		126.51	0.00	0.00	0.00	0.00	0.00	0.00	0.0001
Sector: INDUSTRIAL FUEL COMBUSTION									
2102001000	Fuel Combustion; Industrial; Anthr Coal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2102002000	Fuel Combustion; Industrial; Bit Coal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2102004001	Fuel Combustion; Industrial; Distillate oil Boiler	0.03	2.70	0.68	0.31	0.21	0.11	5.71	0.0002
2102004002	Fuel Combustion; Industrial; Distillate oil IC Engine	0.00	1.70	0.37	0.25	0.25	0.00	0.00	0.0000
2102005000	Fuel Combustion; Industrial; Residual Oil	0.00	0.52	0.05	0.21	0.14	0.01	1.48	0.0000
2102006000	Fuel Combustion; Industrial; Natural Gas	0.41	7.39	6.21	0.04	0.03	0.24	0.04	0.0000
2102007000	Fuel Combustion; Industrial; Liquified Petroleum Gas (LPG)	0.10	2.83	1.59	0.01	0.01	0.06	0.01	0.0000
2102008000	Fuel Combustion; Industrial; Wood	0.61	7.90	21.54	18.56	16.05	0.25	0.90	0.0000

Table 1
2011 Annual Emissions (TPY) by County, Sector and SCC for Area Sources

Scc	Scc Description	Area Source Emissions (TPY)							
		VOC	NOx	CO	PM10	PM2.5	NH3	SO2	Lead
2102011000	Fuel Combustion; Industrial; Kerosene	0.01	1.17	0.29	0.13	0.09	0.05	2.58	0.0001
Totals For: INDUSTRIAL FUEL COMBUSTION		1.16	24.21	30.72	19.51	16.78	0.71	10.73	0.0003
Sector: Industrial Processes - Mining									
2325000000	Mining and Quarrying	0.00	0.00	0.00	23.41	2.93	0.00	0.00	0.0000
Totals For: Industrial Processes - Mining		0.00	0.00	0.00	23.41	2.93	0.00	0.00	0.0000

Table 1
2011 Annual Emissions (TPY) by County, Sector and SCC for Area Sources

Scc	Scc Description	Area Source Emissions (TPY)							
		VOC	NOx	CO	PM10	PM2.5	NH3	SO2	Lead
Sector:	Industrial Processes - Storage and Transfer								
2501011011	portable fuel containers, residential, permeation	2.61	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2501011012	portable fuel containers, residential, evaporation (includes diurnal losses)	5.10	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2501011013	portable fuel containers, residential, spilling during transport	3.82	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2501011014	portable fuel containers, residential, refilling at the pump, vapor displacement	1.10	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2501011015	portable fuel containers, residential, refilling at the pump, spillage	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2501012011	portable fuel containers, commercial, permeation	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2501012012	portable fuel containers, commercial, evaporation (includes diurnal losses)	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2501012013	portable fuel containers, commercial, spilling during transport	5.22	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2501012014	portable fuel containers, commercial, refilling at the pump, vapor displacement	2.11	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2501012015	portable fuel containers, commercial, refilling at the pump, spillage	0.24	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
Totals For:	Industrial Processes - Storage and Transfer	20.57	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
Sector:	Miscellaneous Non-Industrial NEC								
2810060100	Cremation - Human	0.00	0.48	0.00	0.03	0.03	0.00	0.07	0.0002
2810060200		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2850001000	Dental Preparation and Use	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2851001000	General Laboratory Activities	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2861000000	Lamp Breakage (Landfill emissions)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2861000010	Lamp (Fluorescent) Recycling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000

Table 1
2011 Annual Emissions (TPY) by County, Sector and SCC for Area Sources

Sec	Sec Description	Area Source Emissions (TPY)							
		VOC	NOx	CO	PM10	PM2.5	NH3	SO2	Lead
Totals For: Miscellaneous Non-Industrial NEC		0.00	0.48	0.00	0.03	0.03	0.00	0.07	0.0002

Table 1
2011 Annual Emissions (TPY) by County, Sector and SCC for Area Sources

Scc	Scc Description	Area Source Emissions (TPY)							
		VOC	NOx	CO	PM10	PM2.5	NH3	SO2	Lead
Sector:	Residential Heating								
2104001000	Residential Heating: Anthracite Coal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2104002000	Residential Heating: Bituminous Coal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2104004000	Residential Heating: Distillate Oil	9.58	246.25	68.40	32.56	29.14	13.68	582.80	0.0173
2104006000	Residential Heating: Natural Gas	1.20	20.55	8.75	0.11	0.09	4.37	0.13	0.0000
2104007000	Residential Heating: LPG	0.89	24.29	13.60	0.08	0.07	0.08	0.10	0.0000
2104008100	Residential Heating: Fireplaces (cordwood)	17.96	2.47	141.59	22.43	22.43	1.71	0.38	0.0000
2104008210	Residential Heating: Inserts non certified	45.41	2.40	197.76	26.22	26.22	1.46	0.34	0.0000
2104008220	Residential Heating: Inserts EPA certified non-cat	3.29	0.63	38.62	5.38	5.38	0.25	0.11	0.0000
2104008230	Residential Heating: Inserts EPA certified cat	1.37	0.18	9.52	1.86	1.86	0.08	0.04	0.0000
2104008310	Residential Heating: free standing WS non certified	161.09	8.51	701.52	93.01	93.01	5.17	1.22	0.0000
2104008320	Residential Heating: free standing WS EPA certified non-cat	11.69	2.22	137.17	19.09	19.09	0.88	0.39	0.0000
2104008330	Residential Heating: free standing WS EPA certified cat	4.86	0.65	33.80	6.61	6.61	0.29	0.13	0.0000
2104008400	Residential Heating: pellet stoves	0.05	4.85	20.29	3.91	3.91	0.38	0.41	0.0000
2104008510	Residential Heating: furnace indoor	6.26	0.98	97.42	14.64	14.64	0.96	1.08	0.0000
2104008610	Residential Heating: Hydronic heater: outdoor	48.94	1.34	261.39	46.47	46.47	1.31	1.47	0.0000
2104008700	Residential Heating: Outdoor wood burning device, NEC	6.28	0.86	49.47	7.84	7.84	0.60	0.13	0.0000
2104009000	Residential Heating: Firelog	14.36	2.79	45.41	10.64	10.31	0.00	0.00	0.0000
2104011000	Residential Heating: Kerosene	0.03	0.87	0.24	0.11	0.10	0.05	2.05	0.0001
Totals For:	Residential Heating	333.26	319.84	1,824.95	290.96	287.16	31.26	590.77	0.0174

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Table 1
2011 Annual Emissions (TPY) by County, Sector and SCC for Area Sources

Scc	Scc Description	Area Source Emissions (TPY)							
		VOC	NOx	CO	PM10	PM2.5	NH3	SO2	Lead
Sector:	Solvent - Consumer & Commercial Solvent Use								
2460100000	C&C: Cosmetics and Toiletries	145.06	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2460200000	C&C: Cleaning Products; Household	137.42	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2460400000	C&C: Auto Aftermarket	103.83	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2460500000	C&C: Coatings and Related Products	72.53	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2460600000	C&C: adhesives and sealants	43.52	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2460800000	C&C: FIFRA Regulated Products	135.90	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2460900000	C&C: Misc. Products (not otherwise covered)	5.34	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2461021000	Cutback Asphalt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2461022000	Emulsified Asphalt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2461850000	Ag Pesticide	12.10	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
Totals For:	Solvent - Consumer & Commercial Solvent Use	655.69	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
Sector:	Solvent - Degreasing								
2415000000	Degreasing	63.59	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
Totals For:	Solvent - Degreasing	63.59	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
Sector:	Solvent - Dry Cleaning								
2420000000	Dry Cleaning	0.24	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
Totals For:	Solvent - Dry Cleaning	0.24	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
Sector:	Solvent - Graphic Arts								
2425000000	Graphic Arts	41.98	0.00	0.00	0.00	0.00	0.00	0.00	0.0000

Table 1
2011 Annual Emissions (TPY) by County, Sector and SCC for Area Sources

Sec	Sec Description	Area Source Emissions (TPY)							
		VOC	NOx	CO	PM10	PM2.5	NH3	SO2	Lead
Totals For: Solvent - Graphic Arts		41.98	0.00	0.00	0.00	0.00	0.00	0.00	0.0000

Table 1
2011 Annual Emissions (TPY) by County, Sector and SCC for Area Sources

Sector:	Scc	Scc Description	Area Source Emissions (TPY)							
			VOC	NOx	CO	PM10	PM2.5	NH3	SO2	Lead
		Solvent - Industrial Surface Coating & Solvent Use								
	2401005000	Auto Refinishing SIC 7532	34.23	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
	2401008000	Surface Coating - Traffic Markings	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
	2401015000	Surface Coating - Factory Finished Wood: SIC 2426 thru 242	0.96	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
	2401020000	Surface Coating - Wood Furniture	6.86	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
	2401025000	Surface Coating - Metal Furniture: SIC 25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
	2401030000	Surface Coating - Paper, foil, and film	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
	2401040000	Surface Coating - Metal Can Coating	13.22	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
	2401045000	Surface Coating - Sheet, strip, and coil	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
	2401055000	Surface Coating - Machinery and Equipment: SIC 35	17.22	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
	2401060000	Surface Coating - Large Appliances: SIC 363	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
	2401065000	Surface Coating - Electronic and other Electric Coatings	0.84	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
	2401070000	Surface Coating - Motor Vehicles	7.21	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
	2401075000	Surface Coating - Aircraft	0.86	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
	2401080000	Surface Coating - Marine	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
	2401085000	Surface Coating - Railroad	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
	2401090000	Surface Coating - Miscellaneous Manufacturing	4.84	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
	2401100000	Industrial Maintenance Coatings	11.45	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
	2401200000	Other Special Purpose Coatings	4.89	0.00	0.00	0.00	0.00	0.00	0.00	0.0000

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Table 1
2011 Annual Emissions (TPY) by County, Sector and SCC for Area Sources

Scs	Scs Description	Area Source Emissions (TPY)							
		VOC	NOx	CO	PM10	PM2.5	NH3	SO2	Lead
Totals For: Solvent - Industrial Surface Coating & Solvent		102.78	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
Sector: Solvent - Non-Industrial Surface Coating									
2401001000	Architectural Coatings	143.53	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
Totals For: Solvent - Non-Industrial Surface Coating		143.53	0.00	0.00	0.00	0.00	0.00	0.00	0.0000

Table 1
2011 Annual Emissions (TPY) by County, Sector and SCC for Area Sources

Scc	Scc Description	Area Source Emissions (TPY)							
		VOC	NOx	CO	PM10	PM2.5	NH3	SO2	Lead
Sector:	Waste Disposal								
2610000100	Open Burning - Yard Waste - Leaves	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2610000400	Open Burning - Yard Waste - Brush	2.52	0.66	18.55	2.61	2.02	0.00	0.22	0.0000
2610000500	Open Burning - Land Clearing Debris	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2610030000	Open Burning - Household Waste	24.80	17.38	246.24	110.08	100.81	0.00	2.90	0.0000
2620030001		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2630020000	Publically Owned Treatment Works (POTW)	2.82	0.00	0.00	0.00	0.00	0.56	0.00	0.0000
2650000000		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2650000002		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
Totals For: Waste Disposal		30.13	18.04	264.79	112.70	102.83	0.56	3.12	0.0000
Totals For: Tolland County		1,539.79	434.10	2,229.42	2,526.94	755.32	378.51	634.50	0.0188

Table 1
2011 Annual Emissions (TPY) by County, Sector and SCC for Area Sources

Scc	Scc Description	Area Source Emissions (TPY)							
		VOC	NOx	CO	PM10	PM2.5	NH3	SO2	Lead
Windham	County								
Sector:	Agriculture - Crops & Livestock Dust								
2801000003	Agricultural Tilling	0.00	0.00	0.00	103.08	20.62	0.00	0.00	0.0000
Totals For:	Agriculture - Crops & Livestock Dust	0.00	0.00	0.00	103.08	20.62	0.00	0.00	0.0000
Sector:	Agriculture - Fertilizer Application								
2801700001	Fertilizer Application; Anhydrous Ammonia	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2801700002	Fertilizer Application; Aqueous Ammonia	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2801700003	Fertilizer Application; Nitrogen Solutions	0.00	0.00	0.00	0.00	0.00	0.38	0.00	0.0000
2801700004	Fertilizer Application; Urea	0.00	0.00	0.00	0.00	0.00	17.36	0.00	0.0000
2801700005	Fertilizer Application; Ammonium Nitrate	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.0000
2801700006	Fertilizer Application; Ammonium Sulfate	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.0000
2801700007	Fertilizer Application; Ammonium Thiosulfate	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2801700010	Fertilizer Application; N-P-K (mult-grade nutrient fertilizers)	0.00	0.00	0.00	0.00	0.00	8.37	0.00	0.0000
2801700011	Fertilizer Application; Calcium Ammonium Nitrate	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2801700012	Fertilizer Application; Potassium Nitrate	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2801700013	Fertilizer Application; Diammonium Phosphate	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2801700014	Fertilizer Application; Monoammonium Phosphate	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2801700015	Fertilizer Application; Liquid Ammonium Polyphosphate	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2801700099	Fertilizer Application; Miscellaneous Fertilizers	0.00	0.00	0.00	0.00	0.00	35.01	0.00	0.0000
Totals For:	Agriculture - Fertilizer Application	0.00	0.00	0.00	0.00	0.00	61.17	0.00	0.0000

Table 1
2011 Annual Emissions (TPY) by County, Sector and SCC for Area Sources

Scc	Scc Description	Area Source Emissions (TPY)							
		VOC	NOx	CO	PM10	PM2.5	NH3	SO2	Lead
Sector:	Agriculture - Livestock Waste								
2805001100	Beef cattle - finishing operations on feedlots (drylots); Confinement	0.00	0.00	0.00	0.00	0.00	0.52	0.00	0.0000
2805001200	Beef cattle - finishing operations on feedlots (drylots); Manure handling and storage	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2805001300	Beef cattle - finishing operations on feedlots (drylots); Land application of manure	0.00	0.00	0.00	0.00	0.00	0.40	0.00	0.0000
2805002000	Beef cattle production composite; Not Elsewhere Classified	0.00	0.00	0.00	0.00	0.00	3.41	0.00	0.0000
2805003100	Beef cattle - finishing operations on pasture/range :Confinement	0.00	0.00	0.00	0.00	0.00	2.96	0.00	0.0000
2805007100	Poultry production - layers with dry manure management systems; Confinement	0.00	0.00	0.00	0.00	0.00	3.46	0.00	0.0000
2805007300	Poultry production - layers with dry manure management systems; Land application of manure	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.0000
2805008100	Poultry production - layers with wet manure management systems; Confinement	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.0000
2805008200	Poultry production - layers with wet manure management systems; Manure handling and storage	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.0000
2805008300	Poultry production - layers with wet manure management systems :Land application of manure	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.0000
2805009100	Poultry production - broilers; Confinement	0.00	0.00	0.00	0.00	0.00	8.70	0.00	0.0000
2805009200	Poultry production - broilers; manure handling and storage	0.00	0.00	0.00	0.00	0.00	1.58	0.00	0.0000
2805009300	Poultry production - broilers; Land Application and storage	0.00	0.00	0.00	0.00	0.00	7.11	0.00	0.0000
2805010100	Poultry production - turkeys; Confinement	0.00	0.00	0.00	0.00	0.00	0.78	0.00	0.0000
2805010200	Poultry production - turkeys; Manure handling and storage	0.00	0.00	0.00	0.00	0.00	0.14	0.00	0.0000
2805010300	Poultry production - turkeys; Land application and storage	0.00	0.00	0.00	0.00	0.00	0.70	0.00	0.0000
2805018000	Dairy cattle composite; Not Elsewhere Classified	0.00	0.00	0.00	0.00	0.00	111.80	0.00	0.0000
2805019100	Dairy cattle - flush dairy; Confinement	0.00	0.00	0.00	0.00	0.00	3.85	0.00	0.0000

Table 1
2011 Annual Emissions (TPY) by County, Sector and SCC for Area Sources

Scc	Scc Description	Area Source Emissions (TPY)							
		VOC	NOx	CO	PM10	PM2.5	NH3	SO2	Lead
2805019200	Dairy cattle - flush dairy; Manure handling and storage	0.00	0.00	0.00	0.00	0.00	10.77	0.00	0.0000
2805019300	Dairy cattle - flush dairy; Land application of manure	0.00	0.00	0.00	0.00	0.00	1.02	0.00	0.0000
2805021100	Dairy cattle - scrape dairy; Confinement	0.00	0.00	0.00	0.00	0.00	29.17	0.00	0.0000
2805021200	Dairy cattle - scrape dairy; Manure handling and storage	0.00	0.00	0.00	0.00	0.00	33.40	0.00	0.0000

Table 1
2011 Annual Emissions (TPY) by County, Sector and SCC for Area Sources

Scc	Scc Description	Area Source Emissions (TPY)							
		VOC	NOx	CO	PM10	PM2.5	NH3	SO2	Lead
2805021300	Dairy cattle - scrape dairy; Land application of manure	0.00	0.00	0.00	0.00	0.00	62.57	0.00	0.0000
2805022100	Dairy cattle - deep pit dairy; Confinement	0.00	0.00	0.00	0.00	0.00	3.39	0.00	0.0000
2805022200	Dairy cattle - deep pit dairy; Manure handling and storage	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.0000
2805022300	Dairy cattle - deep pit dairy; Land application of manure	0.00	0.00	0.00	0.00	0.00	1.90	0.00	0.0000
2805023100	Dairy cattle - drylot/pasture dairy; Confinement	0.00	0.00	0.00	0.00	0.00	24.68	0.00	0.0000
2805023200	Dairy cattle - drylot/pasture dairy; Manure handling and storage	0.00	0.00	0.00	0.00	0.00	0.27	0.00	0.0000
2805023300	Dairy cattle - drylot/pasture dairy; Land application of manure	0.00	0.00	0.00	0.00	0.00	31.28	0.00	0.0000
2805025000	Swine production composite; Not Elsewhere Classified	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2805030000	Poultry Waste Emissions; Not Elsewhere Classified	0.00	0.00	0.00	0.00	0.00	47.12	0.00	0.0000
2805030007	Poultry Waste Emissions; Ducks	0.00	0.00	0.00	0.00	0.00	0.58	0.00	0.0000
2805030008	Poultry Waste Emissions; Geese	0.00	0.00	0.00	0.00	0.00	0.07	0.00	0.0000
2805035000	Horses and Ponies Waste Emissions; Not Elsewhere Classified	0.00	0.00	0.00	0.00	0.00	13.60	0.00	0.0000
2805039100	Swine production - operations with lagoons (unspecified animal age); Confinement	0.00	0.00	0.00	0.00	0.00	0.41	0.00	0.0000
2805039200	Swine production - operations with lagoons (unspecified animal age); Manure handling and storage	0.00	0.00	0.00	0.00	0.00	0.83	0.00	0.0000
2805039300	Swine production - operations with lagoons (unspecified animal age); Land application of manure	0.00	0.00	0.00	0.00	0.00	0.07	0.00	0.0000
2805040000	Sheep and Lambs Waste Emissions; Total	0.00	0.00	0.00	0.00	0.00	1.52	0.00	0.0000
2805045000	Goats Waste Emissions; Not Elsewhere Classified	0.00	0.00	0.00	0.00	0.00	1.66	0.00	0.0000
2805047100	Swine production - deep-pit house operations (unspecified animal age); Confinement	0.00	0.00	0.00	0.00	0.00	0.57	0.00	0.0000
2805047300	Swine production - deep-pit house operations (unspecified animal age); Land application of manure	0.00	0.00	0.00	0.00	0.00	0.27	0.00	0.0000

Table 1
2011 Annual Emissions (TPY) by County, Sector and SCC for Area Sources

Scc	Scc Description	Area Source Emissions (TPY)							
		VOC	NOx	CO	PM10	PM2.5	NH3	SO2	Lead
2805053100	Swine production - outdoor operations (unspecified animal age); Confinement	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
Totals For: Agriculture - Livestock Waste		0.00	0.00	0.00	0.00	0.00	410.98	0.00	0.0000
Sector: Aircraft									
2275087000	In-flight (non-Landing-Takeoff cycle) Lead Emissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000

Table 1
2011 Annual Emissions (TPY) by County, Sector and SCC for Area Sources

Scc	Scc Description	Area Source Emissions (TPY)							
		VOC	NOx	CO	PM10	PM2.5	NH3	SO2	Lead
Totals For: Aircraft		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
Sector:	Bulk Gasoline Terminals								
2501050120	Gasoline Distribution Stage I; Bulk Terminals	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2501055120	Gasoline Distribution Stage I; Bulk Plants	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2505030120	Gasoline Distribution Stage I; Tank Trucks in Transit	1.84	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2505040120	Gasoline Distribution Stage I; Bulk Terminals	11.89	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
Totals For: Bulk Gasoline Terminals		13.73	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
Sector:	Commercial Cooking								
2302002100	Commercial Cooking: Conveyorized Charbroiling	0.78	0.00	2.64	3.15	3.06	0.00	0.00	0.0000
2302002200	Commercial Cooking: Under-fired Charbroiling	2.65	0.00	8.69	22.17	21.42	0.00	0.00	0.0000
2302003000	Commercial Cooking: Deep Fat Frying	0.40	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2302003100	Commercial Cooking: Flat Griddle Frying	0.35	0.00	0.73	5.95	4.51	0.00	0.00	0.0000
2302003200	Commercial Cooking: Clamshell Griddle Frying	0.01	0.00	0.00	0.33	0.29	0.00	0.00	0.0000
Totals For: Commercial Cooking		4.19	0.00	12.06	31.60	29.28	0.00	0.00	0.0000
Sector:	Commercial/ Institutional Fuel Combustion								
2103001000	Fuel Combustion; Commercial/Institutional; Anthra Coal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2103002000	Fuel Combustion; Commercial/Institutional; Bit Coal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2103004001	Fuel Combustion; Commercial/Institutional; Distillate Oil Boiler	0.15	9.04	2.26	1.08	0.96	0.36	19.10	0.0006
2103004002	Fuel Combustion; Commercial/Institutional; Distillate Oil IC Engine	0.00	13.43	2.89	2.16	2.16	0.00	0.00	0.0000
2103005000	Fuel Combustion; Commercial/Institutional; Residual Oil	0.05	2.47	0.22	0.74	0.32	0.04	7.07	0.0001

Table 1
2011 Annual Emissions (TPY) by County, Sector and SCC for Area Sources

Scc	Scc Description	Area Source Emissions (TPY)							
		VOC	NOx	CO	PM10	PM2.5	NH3	SO2	Lead
2103006000	Fuel Combustion; Commercial/Institutional; Natural Gas	1.97	35.79	30.06	0.19	0.15	0.18	0.21	0.0002
2103007000	Fuel Combustion; Commercial/Institutional; Liquified Petroleum Gas	0.09	2.37	1.33	0.01	0.01	0.01	0.01	0.0000
2103008000	Fuel Combustion; Commercial/Institutional; Wood	0.07	0.88	2.41	2.08	1.80	0.02	0.10	0.0000
2103011000	Fuel Combustion; Commercial/Institutional; Kerosene	0.00	0.06	0.02	0.01	0.01	0.00	0.14	0.0000

Table 1
2011 Annual Emissions (TPY) by County, Sector and SCC for Area Sources

Scc	Scc Description	Area Source Emissions (TPY)							
		VOC	NOx	CO	PM10	PM2.5	NH3	SO2	Lead
Totals For: Commercial/ Institutional Fuel Combustion		2.33	64.05	39.19	6.26	5.41	0.60	26.64	0.0008
Sector:	Dust - Construction Dust								
2311010000	Construction - Residential	0.00	0.00	0.00	5.23	0.52	0.00	0.00	0.0000
2311020000	Construction - Non-Residential	0.00	0.00	0.00	54.83	5.48	0.00	0.00	0.0000
2311030000	Construction - Road	0.00	0.00	0.00	106.96	10.70	0.00	0.00	0.0000
Totals For: Dust - Construction Dust		0.00	0.00	0.00	167.02	16.70	0.00	0.00	0.0000
Sector:	Dust - Paved Road Dust								
2294000000	Roads, Paved	0.00	0.00	0.00	523.57	130.89	0.00	0.00	0.0000
Totals For: Dust - Paved Road Dust		0.00	0.00	0.00	523.57	130.89	0.00	0.00	0.0000
Sector:	Dust - Unpaved Road Dust								
2296000000	Roads, Unpaved	0.00	0.00	0.00	1,010.88	100.53	0.00	0.00	0.0000
Totals For: Dust - Unpaved Road Dust		0.00	0.00	0.00	1,010.88	100.53	0.00	0.00	0.0000
Sector:	Event								
2810001000	Forest Wildfires	12.23	1.21	51.22	5.67	4.80	0.85	0.54	0.0000
2811015000	Prescribed Forest Burning	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
Totals For: Event		12.23	1.21	51.22	5.67	4.80	0.85	0.54	0.0000
Sector:	Fires - Agricultural Field Burning								
2801500000	Agric - Crops /Field Burning - whole field set on fire /Unspecified crop type and Burn Method	0.24	0.17	3.83	0.77	0.36	0.00	0.09	0.0000
Totals For: Fires - Agricultural Field Burning		0.24	0.17	3.83	0.77	0.36	0.00	0.09	0.0000

Table 1
2011 Annual Emissions (TPY) by County, Sector and SCC for Area Sources

Scc	Scc Description	Area Source Emissions (TPY)							
		VOC	NOx	CO	PM10	PM2.5	NH3	SO2	Lead
Sector: Gas Stations									
2201000062	Gasoline Distribution Stage II; Gasoline Service Stations, Stage 2	12.22	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2202000062	Gasoline Distribution Stage II; Diesel Service Stations, Stage 2	1.62	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2501060051	Gasoline Distribution Stage I; Gasoline Service Station Unloading Submerged filling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2501060052	Gasoline Distribution Stage I; Gasoline Service Station Unloading Splash filling	25.09	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2501060053	Gasoline Distribution Stage I; Gasoline Service Station Unloading Balanced Submerged filling	18.16	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2501060201	Gasoline Distribution Stage I; Underground storage tank, breathing and emptying	28.19	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2501080050	Aviation Gasoline Distribution: Stage I	10.19	0.00	0.00	0.00	0.00	0.00	0.00	0.0001
2501080100	Aviation Gasoline Distribution: Stage II	0.53	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
Totals For: Gas Stations		96.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0001
Sector: INDUSTRIAL FUEL COMBUSTION									
2102001000	Fuel Combustion; Industrial; Anthr Coal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2102002000	Fuel Combustion; Industrial; Bit Coal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2102004001	Fuel Combustion; Industrial; Distillate oil Boiler	0.04	3.91	0.98	0.45	0.30	0.16	8.26	0.0002
2102004002	Fuel Combustion; Industrial; Distillate oil IC Engine	0.00	2.45	0.53	0.39	0.38	0.00	0.00	0.0000
2102005000	Fuel Combustion; Industrial; Residual Oil	0.00	0.75	0.07	0.30	0.20	0.01	2.14	0.0000
2102006000	Fuel Combustion; Industrial; Natural Gas	0.59	10.69	8.98	0.06	0.05	0.34	0.06	0.0001
2102007000	Fuel Combustion; Industrial; Liquified Petroleum Gas (LPG)	0.15	4.10	2.30	0.01	0.01	0.09	0.02	0.0000
2102008000	Fuel Combustion; Industrial; Wood	0.88	11.42	31.13	26.83	23.20	0.36	1.30	0.0000

Table 1
2011 Annual Emissions (TPY) by County, Sector and SCC for Area Sources

Scc	Scc Description	Area Source Emissions (TPY)							
		VOC	NOx	CO	PM10	PM2.5	NH3	SO2	Lead
2102011000	Fuel Combustion; Industrial; Kerosene	0.02	1.69	0.42	0.19	0.13	0.07	3.73	0.0001
Totals For: INDUSTRIAL FUEL COMBUSTION		1.68	35.00	44.40	28.24	24.27	1.03	15.50	0.0004
Sector: Industrial Processes - Mining									
2325000000	Mining and Quarrying	0.00	0.00	0.00	140.43	17.55	0.00	0.00	0.0000
Totals For: Industrial Processes - Mining		0.00	0.00	0.00	140.43	17.55	0.00	0.00	0.0000

Table 1
2011 Annual Emissions (TPY) by County, Sector and SCC for Area Sources

Scc	Scc Description	Area Source Emissions (TPY)							
		VOC	NOx	CO	PM10	PM2.5	NH3	SO2	Lead
Sector: Industrial Processes - Storage and Transfer									
2501011011	portable fuel containers, residential, permeation	2.60	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2501011012	portable fuel containers, residential, evaporation (includes diurnal losses)	5.08	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2501011013	portable fuel containers, residential, spilling during transport	3.81	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2501011014	portable fuel containers, residential, refilling at the pump, vapor displacement	1.09	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2501011015	portable fuel containers, residential, refilling at the pump, spillage	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2501012011	portable fuel containers, commercial, permeation	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2501012012	portable fuel containers, commercial, evaporation (includes diurnal losses)	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2501012013	portable fuel containers, commercial, spilling during transport	5.20	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2501012014	portable fuel containers, commercial, refilling at the pump, vapor displacement	2.11	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2501012015	portable fuel containers, commercial, refilling at the pump, spillage	0.24	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
Totals For: Industrial Processes - Storage and Transfer		20.50	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
Sector: Miscellaneous Non-Industrial NEC									
2810060100	Cremation - Human	0.00	0.38	0.00	0.03	0.03	0.00	0.06	0.0001
2810060200		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2850001000	Dental Preparation and Use	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2851001000	General Laboratory Activities	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2861000000	Lamp Breakage (Landfill emissions)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2861000010	Lamp (Fluorescent) Recycling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000

Table 1
2011 Annual Emissions (TPY) by County, Sector and SCC for Area Sources

Sec	Sec Description	Area Source Emissions (TPY)							
		VOC	NOx	CO	PM10	PM2.5	NH3	SO2	Lead
Totals For: Miscellaneous Non-Industrial NEC		0.00	0.38	0.00	0.03	0.03	0.00	0.06	0.0001

Table 1
2011 Annual Emissions (TPY) by County, Sector and SCC for Area Sources

Scc	Scc Description	Area Source Emissions (TPY)							
		VOC	NOx	CO	PM10	PM2.5	NH3	SO2	Lead
Sector:	Residential Heating								
2104001000	Residential Heating: Anthracite Coal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2104002000	Residential Heating: Bituminous Coal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2104004000	Residential Heating: Distillate Oil	7.80	200.55	55.71	26.52	23.73	11.14	474.64	0.0141
2104006000	Residential Heating: Natural Gas	1.21	20.74	8.82	0.11	0.09	4.41	0.13	0.0000
2104007000	Residential Heating: LPG	0.96	26.09	14.61	0.09	0.07	0.09	0.10	0.0000
2104008100	Residential Heating: Fireplaces (cordwood)	6.23	0.86	49.14	7.78	7.78	0.59	0.13	0.0000
2104008210	Residential Heating: Inserts non certified	66.40	3.51	289.15	38.34	38.34	2.13	0.50	0.0000
2104008220	Residential Heating: Inserts EPA certified non-cat	4.83	0.92	56.63	7.88	7.88	0.36	0.16	0.0000
2104008230	Residential Heating: Inserts EPA certified cat	2.02	0.27	14.02	2.74	2.74	0.12	0.05	0.0000
2104008310	Residential Heating: free standing WS non certified	200.14	10.57	871.57	115.55	115.55	6.42	1.51	0.0000
2104008320	Residential Heating: free standing WS EPA certified non-cat	14.54	2.76	170.57	23.74	23.74	1.09	0.48	0.0000
2104008330	Residential Heating: free standing WS EPA certified cat	6.04	0.81	42.06	8.22	8.22	0.36	0.16	0.0000
2104008400	Residential Heating: pellet stoves	0.03	2.83	11.84	2.28	2.28	0.22	0.24	0.0000
2104008510	Residential Heating: furnace indoor	6.48	1.01	100.87	15.16	15.16	0.99	1.12	0.0000
2104008610	Residential Heating: Hydronic heater: outdoor	100.34	2.74	535.91	95.27	95.27	2.68	3.02	0.0000
2104008700	Residential Heating: Outdoor wood burning device, NEC	1.67	0.23	13.17	2.09	2.09	0.16	0.04	0.0000
2104009000	Residential Heating: Firelog	4.01	0.78	12.69	2.97	2.88	0.00	0.00	0.0000
2104011000	Residential Heating: Kerosene	0.03	0.70	0.20	0.09	0.08	0.04	1.67	0.0000
Totals For: Residential Heating		422.72	275.36	2,246.94	348.85	345.92	30.81	483.96	0.0141

Table 1
2011 Annual Emissions (TPY) by County, Sector and SCC for Area Sources

Scc	Scc Description	Area Source Emissions (TPY)							
		VOC	NOx	CO	PM10	PM2.5	NH3	SO2	Lead
Sector:	Solvent - Consumer & Commercial Solvent Use								
2460100000	C&C: Cosmetics and Toiletries	112.51	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2460200000	C&C: Cleaning Products; Household	106.59	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2460400000	C&C: Auto Aftermarket	80.53	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2460500000	C&C: Coatings and Related Products	56.25	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2460600000	C&C: adhesives and sealants	33.75	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2460800000	C&C: FIFRA Regulated Products	105.40	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2460900000	C&C: Misc. Products (not otherwise covered)	4.14	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2461021000	Cutback Asphalt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2461022000	Emulsified Asphalt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2461850000	Ag Pesticide	12.57	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
Totals For:	Solvent - Consumer & Commercial Solvent Use	511.74	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
Sector:	Solvent - Degreasing								
2415000000	Degreasing	67.59	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
Totals For:	Solvent - Degreasing	67.59	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
Sector:	Solvent - Dry Cleaning								
2420000000	Dry Cleaning	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
Totals For:	Solvent - Dry Cleaning	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
Sector:	Solvent - Graphic Arts								
2425000000	Graphic Arts	26.58	0.00	0.00	0.00	0.00	0.00	0.00	0.0000

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Table 1
2011 Annual Emissions (TPY) by County, Sector and SCC for Area Sources

Sec	Sec Description	Area Source Emissions (TPY)							
		VOC	NOx	CO	PM10	PM2.5	NH3	SO2	Lead
Totals For: Solvent - Graphic Arts		26.58	0.00	0.00	0.00	0.00	0.00	0.00	0.0000

Table 1
2011 Annual Emissions (TPY) by County, Sector and SCC for Area Sources

Sector:	Scc	Scc Description	Area Source Emissions (TPY)							Lead
			VOC	NOx	CO	PM10	PM2.5	NH3	SO2	
		Solvent - Industrial Surface Coating & Solvent Use								
	2401005000	Auto Refinishing SIC 7532	22.25	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
	2401008000	Surface Coating - Traffic Markings	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
	2401015000	Surface Coating - Factory Finished Wood: SIC 2426 thru 242	1.19	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
	2401020000	Surface Coating - Wood Furniture	2.79	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
	2401025000	Surface Coating - Metal Furniture: SIC 25	1.48	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
	2401030000	Surface Coating - Paper, foil, and film	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
	2401040000	Surface Coating - Metal Can Coating	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
	2401045000	Surface Coating - Sheet, strip, and coil	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
	2401055000	Surface Coating - Machinery and Equipment: SIC 35	1.92	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
	2401060000	Surface Coating - Large Appliances: SIC 363	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
	2401065000	Surface Coating - Electronic and other Electric Coatings	5.28	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
	2401070000	Surface Coating - Motor Vehicles	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
	2401075000	Surface Coating - Aircraft	1.83	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
	2401080000	Surface Coating - Marine	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
	2401085000	Surface Coating - Railroad	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
	2401090000	Surface Coating - Miscellaneous Manufacturing	11.04	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
	2401100000	Industrial Maintenance Coatings	8.88	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
	2401200000	Other Special Purpose Coatings	3.79	0.00	0.00	0.00	0.00	0.00	0.00	0.0000

Table 1
2011 Annual Emissions (TPY) by County, Sector and SCC for Area Sources

Scc	Scc Description	Area Source Emissions (TPY)							
		VOC	NOx	CO	PM10	PM2.5	NH3	SO2	Lead
Totals For: Solvent - Industrial Surface Coating & Solvent		60.67	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
Sector: Solvent - Non-Industrial Surface Coating									
2401001000	Architectural Coatings	111.32	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
Totals For: Solvent - Non-Industrial Surface Coating		111.32	0.00	0.00	0.00	0.00	0.00	0.00	0.0000

Table 1
2011 Annual Emissions (TPY) by County, Sector and SCC for Area Sources

Scc	Scc Description	Area Source Emissions (TPY)							
		VOC	NOx	CO	PM10	PM2.5	NH3	SO2	Lead
Sector:	Waste Disposal								
2610000100	Open Burning - Yard Waste - Leaves	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2610000400	Open Burning - Yard Waste - Brush	2.54	0.67	18.74	2.64	2.04	0.00	0.22	0.0000
2610000500	Open Burning - Land Clearing Debris	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2610030000	Open Burning - Household Waste	25.05	17.56	248.73	111.20	101.83	0.00	2.93	0.0000
2620030001		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2630020000	Publically Owned Treatment Works (POTW)	2.23	0.00	0.00	0.00	0.00	0.44	0.00	0.0000
2650000000		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
2650000002		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
Totals For: Waste Disposal		29.82	18.23	267.47	113.84	103.87	0.44	3.15	0.0000
Totals For: Windham		1,381.41	394.40	2,665.12	2,480.23	800.23	505.87	529.94	0.0156
StateWide Total:		40,687.59	12,511.85	54,055.63	34,705.97	13,590.04	3,593.72	13,405.84	1.8901

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Table 2
2011 Data Used To Apportion Annual Area Source Emissions To Typical High Ozone Summer Day

Scc	Scc Description	Apportionment Method	Percent of Annual Activity That Occurs In Summer Season	Average Days of Operation Per Week	Weeks of Operation In Summer
2102001000	Fuel Combustion; Industrial; Anthr	Zero CO, NOx and VOC emissions do not need a factor.			
2102002000	Fuel Combustion; Industrial; Bit Coal	Zero CO, NOx and VOC emissions do not need a factor.			
2102004001	Fuel Combustion; Industrial; Distillate oil Boiler	Calculate Factor	25.00	6	13
2102004002	Fuel Combustion; Industrial; Distillate oil IC Engine	Calculate Factor	25.00	6	13
2102005000	Fuel Combustion; Industrial; Residual Oil	Calculate Factor	25.00	6	13
2102006000	Fuel Combustion; Industrial; Natural Gas	Calculate Factor	25.00	6	13
2102007000	Fuel Combustion; Industrial; Liquified Petroleum Gas (LPG)	Calculate Factor	25.00	6	13

Table 2
2011 Data Used To Apportion Annual Area Source Emissions To Typical High Ozone Summer Day

Scc	Scc Description	Apportionment Method	Percent of Annual Activity That Occurs In Summer Season	Average Days of Operation Per Week	Weeks of Operation In Summer
2102008000	Fuel Combustion; Industrial; Wood	Calculate Factor	0.00	6	13
2102011000	Fuel Combustion; Industrial; Kerosene	Calculate Factor	25.00	6	13
2103001000	Fuel Combustion; Commercial/Institutional; Anthra Coal	Zero CO, NOx and VOC emissions do not need a factor.			
2103002000	Fuel Combustion; Commercial/Institutional; Bit Coal	Zero CO, NOx and VOC emissions do not need a factor.			
2103004001	Fuel Combustion; Commercial/Institutional; Distillate Oil Boiler	Calculate Factor	15.00	7	13
2103004002	Fuel Combustion; Commercial/Institutional; Distillate Oil IC Engine	Calculate Factor	15.00	7	13
2103005000	Fuel Combustion; Commercial/Institutional; Residual	Calculate Factor	15.00	7	13
2103006000	Fuel Combustion; Commercial/Institutional; Natural Gas	Calculate Factor	15.00	7	13
2103007000	Fuel Combustion; Commercial/Institutional; Liquified Petroleum Gas	Calculate Factor	15.00	7	13
2103008000	Fuel Combustion; Commercial/Institutional; Wood	Calculate Factor	0.00	7	13

Table 2
2011 Data Used To Apportion Annual Area Source Emissions To Typical High Ozone Summer Day

Scc	Scc Description	Apportionment Method	Percent of Annual Activity That Occurs In Summer Season	Average Days of Operation Per Week	Weeks of Operation In Summer
2103011000	Fuel Combustion; Commercial/Institutional; Kerosene	Calculate Factor	15.00	7	13
2104001000	Residential Heating: Anthracite Coal	Zero CO, NOx and VOC emissions do not need a factor.			
2104002000	Residential Heating: Bituminous Coal	Zero CO, NOx and VOC emissions do not need a factor.			
2104004000	Residential Heating: Distillate Oil	Calculate Factor	5.50	7	13
2104006000	Residential Heating: Natural Gas	Calculate Factor	7.00	7	13
2104007000	Residential Heating: LPG	Calculate Factor	12.25	7	13
2104008100	Residential Heating: Fireplaces (cordwood)	Calculate Factor	0.00	7	13
2104008210	Residential Heating: Inserts non certified	Calculate Factor	0.00	7	13
2104008220	Residential Heating: Inserts EPA certified non-cat	Calculate Factor	0.00	7	13
2104008230	Residential Heating: Inserts EPA certified cat	Calculate Factor	0.00	7	13
2104008310	Residential Heating: free standing WS non certified	Calculate Factor	0.00	7	13

Table 2
2011 Data Used To Apportion Annual Area Source Emissions To Typical High Ozone Summer Day

Scc	Scc Description	Apportionment Method	Percent of Annual Activity That Occurs In Summer Season	Average Days of Operation Per Week	Weeks of Operation In Summer
2104008320	Residential Heating: free standing WS EPA certified non-cat	Calculate Factor	0.00	7	13
2104008330	Residential Heating: free standing WS EPA certified cat	Calculate Factor	0.00	7	13
2104008400	Residential Heating: pellet stoves	Calculate Factor	0.00	7	13
2104008510	Residential Heating: furnace indoor	Calculate Factor	0.00	7	13
2104008610	Residential Heating: Hydronic heater: outdoor	Calculate Factor	0.00	7	13
2104008700	Residential Heating: Outdoor wood burning device, NEC	Calculate Factor	19.00	7	13
2104009000	Residential Heating: Firelog	Calculate Factor	0.00	7	13
2104011000	Residential Heating: Kerosene	Calculate Factor	12.25	7	13
2201000062	Gasoline Distribution Stage II; Gasoline Service Stations, Stage 2	Data			
2202000062	Gasoline Distribution Stage II; Diesel Service Stations, Stage 2	Data			
2275087000	In-flight (non-Landing-Takeoff cycle) Lead Emissions	Zero CO, NOx and VOC emissions do not need a factor.			
2294000000	Roads, Paved	Zero CO, NOx and VOC emissions do not need a factor.			

Table 2
2011 Data Used To Apportion Annual Area Source Emissions To Typical High Ozone Summer Day

Scc	Scc Description	Apportionment Method	Percent of Annual Activity That Occurs In Summer Season	Average Days of Operation Per Week	Weeks of Operation In Summer
2296000000	Roads, Unpaved	Zero CO, NOx and VOC emissions do not need a factor.			
2302002100	Commercial Cooking: ConveyORIZED Charbroiling	Calculate Factor	25.00	7	13
2302002200	Commercial Cooking: Under-fired Charbroiling	Calculate Factor	25.00	7	13
2302003000	Commercial Cooking: Deep Fat Frying	Calculate Factor	25.00	7	13
2302003100	Commercial Cooking: Flat Griddle Frying	Calculate Factor	25.00	7	13
2302003200	Commercial Cooking: Clamshell Griddle Frying	Calculate Factor	25.00	7	13
2311010000	Construction - Residential	Zero CO, NOx and VOC emissions do not need a factor.			
2311020000	Construction - Non-Residential	Zero CO, NOx and VOC emissions do not need a factor.			
2311030000	Construction - Road	Zero CO, NOx and VOC emissions do not need a factor.			

Table 2
2011 Data Used To Apportion Annual Area Source Emissions To Typical High Ozone Summer Day

Sec	Sec Description	Apportionment Method	Percent of Annual Activity That Occurs In Summer Season	Average Days of Operation Per Week	Weeks of Operation In Summer
2325000000	Mining and Quarrying	Zero CO, NOx and VOC emissions do not need a factor.			
2401001000	Architectural Coatings	Calculate Factor	32.50	7	13
2401005000	Auto Refinishing SIC 7532	Calculate Factor	25.00	5	13
2401008000	Surface Coating - Traffic Markings	Calculate Factor	38.24	5	13
2401015000	Surface Coating - Factory Finished Wood: SIC 2426 thru 242	Calculate Factor	25.00	5	13
2401020000	Surface Coating - Wood Furniture	Calculate Factor	25.00	5	13
2401025000	Surface Coating - Metal Furniture: SIC 25	Calculate Factor	25.00	5	13
2401030000	Surface Coating - Paper, foil, and film	Calculate Factor	25.00	5	13
2401040000	Surface Coating - Metal Can Coating	Calculate Factor	25.00	5	13
2401045000	Surface Coating - Sheet, strip, and coil	Zero CO, NOx and VOC emissions do not need a factor.			
2401055000	Surface Coating - Machinery and Equipment: SIC 35	Calculate Factor	25.00	5	13
2401060000	Surface Coating - Large Appliances: SIC 363	Calculate Factor	25.00	5	13

Table 2
2011 Data Used To Apportion Annual Area Source Emissions To Typical High Ozone Summer Day

Scs	Scs Description	Apportionment Method	Percent of Annual Activity That Occurs In Summer Season	Average Days of Operation Per Week	Weeks of Operation In Summer
2401065000	Surface Coating - Electronic and other Electric Coatings	Calculate Factor	25.00	5	13
2401070000	Surface Coating - Motor Vehicles	Calculate Factor	25.00	5	13
2401075000	Surface Coating - Aircraft	Calculate Factor	25.00	5	13
2401080000	Surface Coating - Marine	Calculate Factor	25.00	5	13
2401085000	Surface Coating - Railroad	Calculate Factor	25.00	5	13
2401090000	Surface Coating - Miscellaneous Manufacturing	Calculate Factor	25.00	5	13
2401100000	Industrial Maintenance Coatings	Calculate Factor	25.00	5	13
2401200000	Other Special Purpose Coatings	Calculate Factor	25.00	5	13
2415000000	Degreasing	Calculate Factor	25.00	5	13
2420000000	Dry Cleaning	Calculate Factor	20.00	5.6	13
2425000000	Graphic Arts	Calculate Factor	25.00	5	13
2460100000	C&C: Cosmetics and Toiletries	Calculate Factor	25.00	7	13
2460200000	C&C: Cleaning Products; Household	Calculate Factor	25.00	7	13
2460400000	C&C: Auto Aftermarket	Calculate Factor	25.00	7	13
2460500000	C&C: Coatings and Related Products	Calculate Factor	25.00	7	13
2460600000	C&C: adhesives and sealants	Calculate Factor	25.00	7	13
2460800000	C&C: FIFRA Regulated Products	Calculate Factor	25.00	7	13

Table 2
2011 Data Used To Apportion Annual Area Source Emissions To Typical High Ozone Summer Day

Scc	Scc Description	Apportionment Method	Percent of Annual Activity That Occurs In Summer Season	Average Days of Operation Per Week	Weeks of Operation In Summer
2460900000	C&C: Misc. Products (not otherwise covered)	Calculate Factor	25.00	7	13
2461021000	Cutback Asphalt	Zero CO, NOx and VOC emissions do not need a factor.			
2461022000	Emulsified Asphalt	Zero CO, NOx and VOC emissions do not need a factor.			
2461850000	Ag Pesticide	Calculate Factor	50.00	6	13
2501011011	portable fuel containers, residential, permeation	Calculate Factor	50.10	7	13
2501011012	portable fuel containers, residential, evaporation (includes diurnal losses)	Calculate Factor	50.10	7	13
2501011013	portable fuel containers, residential, spilling during transport	Calculate Factor	50.10	7	13
2501011014	portable fuel containers, residential, refilling at the pump, vapor displacement	Calculate Factor	50.10	7	13
2501011015	portable fuel containers, residential, refilling at the pump, spillage	Calculate Factor	50.10	7	13
2501012011	portable fuel containers, commercial, permeation	Calculate Factor	50.10	7	13

Table 2
2011 Data Used To Apportion Annual Area Source Emissions To Typical High Ozone Summer Day

Scc	Scc Description	Apportionment Method	Percent of Annual Activity That Occurs In Summer Season	Average Days of Operation Per Week	Weeks of Operation In Summer
2501012012	portable fuel containers, commercial, evaporation (includes diurnal losses)	Calculate Factor	50.10	7	13
2501012013	portable fuel containers, commercial, spilling during transport	Calculate Factor	50.10	7	13
2501012014	portable fuel containers, commercial, refilling at the pump, vapor displacement	Calculate Factor	50.10	7	13
2501012015	portable fuel containers, commercial, refilling at the pump, spillage	Calculate Factor	50.10	7	13
2501050120	Gasoline Distribution Stage I; Bulk Terminals	Zero CO, NOx and VOC emissions do not need a factor.			
2501055120	Gasoline Distribution Stage I; Bulk Plants	Zero CO, NOx and VOC emissions do not need a factor.			
2501060051	Gasoline Distribution Stage I; Gasoline Service Station Unloading Submerged filling	Zero CO, NOx and VOC emissions do not need a factor.			
2501060052	Gasoline Distribution Stage I; Gasoline Service Station Unloading	Calculate Factor	26.24	7	13
2501060053	Gasoline Distribution Stage I; Gasoline Service Station Unloading Balanced Submerged filling	Calculate Factor	26.24	7	13

Table 2
2011 Data Used To Apportion Annual Area Source Emissions To Typical High Ozone Summer Day

Scc	Scc Description	Apportionment Method	Percent of Annual Activity That Occurs In Summer Season	Average Days of Operation Per Week	Weeks of Operation In Summer
2501060201	Gasoline Distribution Stage I; Underground storage tank, breathing and emptying	Calculate Factor	26.24	7	13
2501080050	Aviation Gasoline Distribution: Stage I	Calculate Factor	25.00	7	13
2501080100	Aviation Gasoline Distribution: Stage	Calculate Factor	25.00	7	13
2505030120	Gasoline Distribution Stage I; Tank Trucks in Transit	Calculate Factor	25.57	7	13
2505040120	Gasoline Distribution Stage I; Bulk Terminals	Calculate Factor	26.24	7	13
2610000100	Open Burning - Yard Waste - Leaves	Zero CO, NOx and VOC emissions do not need a factor.			
2610000400	Open Burning - Yard Waste - Brush	Calculate Factor	25.00	7	13
2610000500	Open Burning - Land Clearing Debris	Zero CO, NOx and VOC emissions do not need a factor.			
2610030000	Open Burning - Household Waste	Calculate Factor	25.00	7	13
2620030001		Zero CO, NOx and VOC emissions do not need a factor.			
2630020000	Publically Owned Treatment Works (POTW)	Calculate Factor	35.00	7	13

Table 2
2011 Data Used To Apportion Annual Area Source Emissions To Typical High Ozone Summer Day

Sc	Sc Description	Apportionment Method	Percent of Annual Activity That Occurs In Summer Season	Average Days of Operation Per Week	Weeks of Operation In Summer
2650000000		Zero CO, NOx and VOC emissions do not need a factor.			
2650000002		Zero CO, NOx and VOC emissions do not need a factor.			
2801000003	Agricultural Tilling	Zero CO, NOx and VOC emissions do not need a factor.			
2801500000	Agric - Crops /Field Burning - whole field set on fire /Unspecified crop type and Burn Method	Calculate Factor	0.00	7	13
2801700001	Fertilizer Application; Anhydrous Ammonia	Zero CO, NOx and VOC emissions do not need a factor.			
2801700002	Fertilizer Application; Aqueous Ammonia	Zero CO, NOx and VOC emissions do not need a factor.			
2801700003	Fertilizer Application; Nitrogen Solutions	Zero CO, NOx and VOC emissions do not need a factor.			
2801700004	Fertilizer Application; Urea	Zero CO, NOx and VOC emissions do not need a factor.			

Table 2
2011 Data Used To Apportion Annual Area Source Emissions To Typical High Ozone Summer Day

Scc	Scc Description	Apportionment Method	Percent of Annual Activity That Occurs In Summer Season	Average Days of Operation Per Week	Weeks of Operation In Summer
2801700005	Fertilizer Application; Ammonium Nitrate	Zero CO, NOx and VOC emissions do not need a factor.			
2801700006	Fertilizer Application; Ammonium Sulfate	Zero CO, NOx and VOC emissions do not need a factor.			
2801700007	Fertilizer Application; Ammonium Thiosulfate	Zero CO, NOx and VOC emissions do not need a factor.			
2801700010	Fertilizer Application; N-P-K (multi-grade nutrient fertilizers)	Zero CO, NOx and VOC emissions do not need a factor.			
2801700011	Fertilizer Application; Calcium Ammonium Nitrate	Zero CO, NOx and VOC emissions do not need a factor.			
2801700012	Fertilizer Application; Potassium Nitrate	Zero CO, NOx and VOC emissions do not need a factor.			
2801700013	Fertilizer Application; Diammonium Phosphate	Zero CO, NOx and VOC emissions do not need a factor.			
2801700014	Fertilizer Application; Monoammonium Phosphate	Zero CO, NOx and VOC emissions do not need a factor.			

Table 2
2011 Data Used To Apportion Annual Area Source Emissions To Typical High Ozone Summer Day

Scc	Scc Description	Apportionment Method	Percent of Annual Activity That Occurs In Summer Season	Average Days of Operation Per Week	Weeks of Operation In Summer
2801700015	Fertilizer Application; Liquid Ammonium Polyphosphate	Zero CO, NOx and VOC emissions do not need a factor.			
2801700099	Fertilizer Application; Miscellaneous Fertilizers	Zero CO, NOx and VOC emissions do not need a factor.			
2805001100	Beef cattle - finishing operations on feedlots (drylots); Confinement	Zero CO, NOx and VOC emissions do not need a factor.			
2805001200	Beef cattle - finishing operations on feedlots (drylots); Manure handling and storage	Zero CO, NOx and VOC emissions do not need a factor.			
2805001300	Beef cattle - finishing operations on feedlots (drylots); Land application of manure	Zero CO, NOx and VOC emissions do not need a factor.			
2805002000	Beef cattle production composite; Not Elsewhere Classified	Zero CO, NOx and VOC emissions do not need a factor.			
2805003100	Beef cattle - finishing operations on pasture/range :Confinement	Zero CO, NOx and VOC emissions do not need a factor.			
2805007100	Poultry production - layers with dry manure management systems; Confinement	Zero CO, NOx and VOC emissions do not need a factor.			

Table 2
2011 Data Used To Apportion Annual Area Source Emissions To Typical High Ozone Summer Day

Scc	Scc Description	Apportionment Method	Percent of Annual Activity That Occurs In Summer Season	Average Days of Operation Per Week	Weeks of Operation In Summer
2805007300	Poultry production - layers with dry manure management systems; Land application of manure	Zero CO, NOx and VOC emissions do not need a factor.			
2805008100	Poultry production - layers with wet manure management systems; Confinement	Zero CO, NOx and VOC emissions do not need a factor.			
2805008200	Poultry production - layers with wet manure management systems; Manure handling and storage	Zero CO, NOx and VOC emissions do not need a factor.			
2805008300	Poultry production - layers with wet manure management systems :Land application of manure	Zero CO, NOx and VOC emissions do not need a factor.			
2805009100	Poultry production - broilers; Confinement	Zero CO, NOx and VOC emissions do not need a factor.			
2805009200	Poultry production - broilers; manure handling and storage	Zero CO, NOx and VOC emissions do not need a factor.			
2805009300	Poultry production - broilers; Land Application and storage	Zero CO, NOx and VOC emissions do not need a factor.			
2805010100	Poultry production - turkeys; Confinement	Zero CO, NOx and VOC emissions do not need a factor.			

Table 2
2011 Data Used To Apportion Annual Area Source Emissions To Typical High Ozone Summer Day

Scc	Scc Description	Apportionment Method	Percent of Annual Activity That Occurs In Summer Season	Average Days of Operation Per Week	Weeks of Operation In Summer
2805010200	Poultry production - turkeys; Manure handling and storage	Zero CO, NOx and VOC emissions do not need a factor.			
2805010300	Poultry production - turkeys; Land application and storage	Zero CO, NOx and VOC emissions do not need a factor.			
2805018000	Dairy cattle composite; Not Elsewhere Classified	Zero CO, NOx and VOC emissions do not need a factor.			
2805019100	Dairy cattle - flush dairy; Confinement	Zero CO, NOx and VOC emissions do not need a factor.			
2805019200	Dairy cattle - flush dairy; Manure handling and storage	Zero CO, NOx and VOC emissions do not need a factor.			
2805019300	Dairy cattle - flush dairy; Land application of manure	Zero CO, NOx and VOC emissions do not need a factor.			
2805021100	Dairy cattle - scrape dairy; Confinement	Zero CO, NOx and VOC emissions do not need a factor.			
2805021200	Dairy cattle - scrape dairy; Manure handling and storage	Zero CO, NOx and VOC emissions do not need a factor.			

Table 2
2011 Data Used To Apportion Annual Area Source Emissions To Typical High Ozone Summer Day

Scc	Scc Description	Apportionment Method	Percent of Annual Activity That Occurs In Summer Season	Average Days of Operation Per Week	Weeks of Operation In Summer
2805021300	Dairy cattle - scrape dairy; Land application of manure	Zero CO, NOx and VOC emissions do not need a factor.			
2805022100	Dairy cattle - deep pit dairy; Confinement	Zero CO, NOx and VOC emissions do not need a factor.			
2805022200	Dairy cattle - deep pit dairy; Manure handling and storage	Zero CO, NOx and VOC emissions do not need a factor.			
2805022300	Dairy cattle - deep pit dairy; Land application of manure	Zero CO, NOx and VOC emissions do not need a factor.			
2805023100	Dairy cattle - drylot/pasture dairy; Confinement	Zero CO, NOx and VOC emissions do not need a factor.			
2805023200	Dairy cattle - drylot/pasture dairy; Manure handling and storage	Zero CO, NOx and VOC emissions do not need a factor.			
2805023300	Dairy cattle - drylot/pasture dairy; Land application of manure	Zero CO, NOx and VOC emissions do not need a factor.			
2805025000	Swine production composite; Not Elsewhere Classified	Zero CO, NOx and VOC emissions do not need a factor.			

Table 2
2011 Data Used To Apportion Annual Area Source Emissions To Typical High Ozone Summer Day

Scc	Scc Description	Apportionment Method	Percent of Annual Activity That Occurs In Summer Season	Average Days of Operation Per Week	Weeks of Operation In Summer
2805030000	Poultry Waste Emissions; Not Elsewhere Classified	Zero CO, NOx and VOC emissions do not need a factor.			
2805030007	Poultry Waste Emissions; Ducks	Zero CO, NOx and VOC emissions do not need a factor.			
2805030008	Poultry Waste Emissions; Geese	Zero CO, NOx and VOC emissions do not need a factor.			
2805035000	Horses and Ponies Waste Emissions; Not Elsewhere Classified	Zero CO, NOx and VOC emissions do not need a factor.			
2805039100	Swine production - operations with lagoons (unspecified animal age); Confinement	Zero CO, NOx and VOC emissions do not need a factor.			
2805039200	Swine production - operations with lagoons (unspecified animal age); Manure handling and storage	Zero CO, NOx and VOC emissions do not need a factor.			
2805039300	Swine production - operations with lagoons (unspecified animal age); Land application of manure	Zero CO, NOx and VOC emissions do not need a factor.			
2805040000	Sheep and Lambs Waste Emissions; Total	Zero CO, NOx and VOC emissions do not need a factor.			

Table 2
2011 Data Used To Apportion Annual Area Source Emissions To Typical High Ozone Summer Day

Scc	Scc Description	Apportionment Method	Percent of Annual Activity That Occurs In Summer Season	Average Days of Operation Per Week	Weeks of Operation In Summer
2805045000	Goats Waste Emissions; Not Elsewhere Classified	Zero CO, NOx and VOC emissions do not need a factor.			
2805047100	Swine production - deep-pit house operations (unspecified animal age); Confinement	Zero CO, NOx and VOC emissions do not need a factor.			
2805047300	Swine production - deep-pit house operations (unspecified animal age); Land application of manure	Zero CO, NOx and VOC emissions do not need a factor.			
2805053100	Swine production - outdoor operations (unspecified animal age);	Zero CO, NOx and VOC emissions do not need a factor.			
2810001000	Forest Wildfires	Calculate Factor	9.34	7	13
2810060100	Cremation - Human	Calculate Factor	25.00	7	13
2810060200		Zero CO, NOx and VOC emissions do not need a factor.			
2811015000	Prescribed Forest Burning	Calculate Factor	0.00	7	13
2850001000	Dental Preparation and Use	Zero CO, NOx and VOC emissions do not need a factor.			
2851001000	General Laboratory Activities	Zero CO, NOx and VOC emissions do not need a factor.			

Table 2
2011 Data Used To Apportion Annual Area Source Emissions To Typical High Ozone Summer Day

Scc	Scc Description	Apportionment Method	Percent of Annual Activity That Occurs In Summer Season	Average Days of Operation Per Week	Weeks of Operation In Summer
2861000000	Lamp Breakage (Landfill emissions)	Zero CO, NOx and VOC emissions do not need a factor.			
2861000010	Lamp (Fluorescent) Recycling	Zero CO, NOx and VOC emissions do not need a factor.			

**Table 3
2011 Typical High Ozone Summer Day Emissions (Lbs/Day) by County, Sector and SCC
For Area Sources**

<u>Sec</u>	<u>Sec Description</u>	<u>Area Source Daily Emissions (Lbs/Day)</u>		
		<u>VOC</u>	<u>NOx</u>	<u>CO</u>
Fairfield	County			
Sector:	Agriculture - Crops & Livestock Dust			
280100003	Agricultural Tilling	0.00	0.00	0.00
Totals For: Agriculture - Crops & Livestock Dust		0.00	0.00	0.00
Sector:	Agriculture - Fertilizer Application			
2801700001	Fertilizer Application; Anhydrous Ammonia	0.00	0.00	0.00
2801700002	Fertilizer Application; Aqueous Ammonia	0.00	0.00	0.00
2801700003	Fertilizer Application; Nitrogen Solutions	0.00	0.00	0.00
2801700004	Fertilizer Application; Urea	0.00	0.00	0.00
2801700005	Fertilizer Application; Ammonium Nitrate	0.00	0.00	0.00
2801700006	Fertilizer Application; Ammonium Sulfate	0.00	0.00	0.00
2801700007	Fertilizer Application; Ammonium Thiosulfate	0.00	0.00	0.00
2801700010	Fertilizer Application; N-P-K (mult-grade nutrient fertilizers)	0.00	0.00	0.00
2801700011	Fertilizer Application; Calcium Ammonium Nitrate	0.00	0.00	0.00
2801700012	Fertilizer Application; Potassium Nitrate	0.00	0.00	0.00
2801700013	Fertilizer Application; Diammonium Phosphate	0.00	0.00	0.00
2801700014	Fertilizer Application; Monoammonium Phosphate	0.00	0.00	0.00
2801700015	Fertilizer Application; Liquid Ammonium Polyphosphate	0.00	0.00	0.00
2801700099	Fertilizer Application; Miscellaneous Fertilizers	0.00	0.00	0.00
Totals For: Agriculture - Fertilizer Application		0.00	0.00	0.00

Table 3
2011 Typical High Ozone Summer Day Emissions (Lbs/Day) by County, Sector and SCC
For Area Sources

Sector:	Scs	Scs Description	Area Source Daily Emissions		
			VOC	NOx	CO
		Agriculture - Livestock Waste			
	2805001100	Beef cattle - finishing operations on feedlots (drylots); Confinement	0.00	0.00	0.00
	2805001200	Beef cattle - finishing operations on feedlots (drylots); Manure handling and storage	0.00	0.00	0.00
	2805001300	Beef cattle - finishing operations on feedlots (drylots); Land application of manure	0.00	0.00	0.00
	2805002000	Beef cattle production composite; Not Elsewhere Classified	0.00	0.00	0.00
	2805003100	Beef cattle - finishing operations on pasture/range :Confinement	0.00	0.00	0.00
	2805007100	Poultry production - layers with dry manure management systems; Confinement	0.00	0.00	0.00
	2805007300	Poultry production - layers with dry manure management systems; Land application of manure	0.00	0.00	0.00
	2805008100	Poultry production - layers with wet manure management systems; Confinement	0.00	0.00	0.00
	2805008200	Poultry production - layers with wet manure management systems; Manure handling and storage	0.00	0.00	0.00
	2805008300	Poultry production - layers with wet manure management systems :Land application of manure	0.00	0.00	0.00
	2805009100	Poultry production - broilers; Confinement	0.00	0.00	0.00
	2805009200	Poultry production - broilers; manure handling and storage	0.00	0.00	0.00
	2805009300	Poultry production - broilers; Land Application and storage	0.00	0.00	0.00
	2805010100	Poultry production - turkeys; Confinement	0.00	0.00	0.00
	2805010200	Poultry production - turkeys; Manure handling and storage	0.00	0.00	0.00
	2805010300	Poultry production - turkeys; Land application and storage	0.00	0.00	0.00
	2805018000	Dairy cattle composite; Not Elsewhere Classified	0.00	0.00	0.00
	2805019100	Dairy cattle - flush dairy; Confinement	0.00	0.00	0.00
	2805019200	Dairy cattle - flush dairy; Manure handling and storage	0.00	0.00	0.00
	2805019300	Dairy cattle - flush dairy; Land application of manure	0.00	0.00	0.00
	2805021100	Dairy cattle - scrape dairy; Confinement	0.00	0.00	0.00
	2805021200	Dairy cattle - scrape dairy; Manure handling and storage	0.00	0.00	0.00
	2805021300	Dairy cattle - scrape dairy; Land application of manure	0.00	0.00	0.00
	2805022100	Dairy cattle - deep pit dairy; Confinement	0.00	0.00	0.00
	2805022200	Dairy cattle - deep pit dairy; Manure handling and storage	0.00	0.00	0.00
	2805022300	Dairy cattle - deep pit dairy; Land application of manure	0.00	0.00	0.00

Table 3
2011 Typical High Ozone Summer Day Emissions (Lbs/Day) by County, Sector and SCC
For Area Sources

Sc	Sc Description	Area Source Daily Emissions		
		VOC	NO_x	CO
2805023100	Dairy cattle - drylot/pasture dairy; Confinement	0.00	0.00	0.00
2805023200	Dairy cattle - drylot/pasture dairy; Manure handling and storage	0.00	0.00	0.00
2805023300	Dairy cattle - drylot/pasture dairy; Land application of manure	0.00	0.00	0.00
2805025000	Swine production composite; Not Elsewhere Classified	0.00	0.00	0.00

Table 3
2011 Typical High Ozone Summer Day Emissions (Lbs/Day) by County, Sector and SCC
For Area Sources

<u>Sc</u>	<u>Sc Description</u>	Area Source Daily Emissions		
		(Lbs/Day)		
		VOC	NO_x	CO
2805030000	Poultry Waste Emissions; Not Elsewhere Classified	0.00	0.00	0.00
2805030007	Poultry Waste Emissions; Ducks	0.00	0.00	0.00
2805030008	Poultry Waste Emissions; Geese	0.00	0.00	0.00
2805035000	Horses and Ponies Waste Emissions; Not Elsewhere Classified	0.00	0.00	0.00
2805039100	Swine production - operations with lagoons (unspecified animal age); Confinement	0.00	0.00	0.00
2805039200	Swine production - operations with lagoons (unspecified animal age); Manure handling and storage	0.00	0.00	0.00
2805039300	Swine production - operations with lagoons (unspecified animal age); Land application of manure	0.00	0.00	0.00
2805040000	Sheep and Lambs Waste Emissions; Total	0.00	0.00	0.00
2805045000	Goats Waste Emissions; Not Elsewhere Classified	0.00	0.00	0.00
2805047100	Swine production - deep-pit house operations (unspecified animal age); Confinement	0.00	0.00	0.00
2805047300	Swine production - deep-pit house operations (unspecified animal age); Land application of manure	0.00	0.00	0.00
2805053100	Swine production - outdoor operations (unspecified animal age); Confinement	0.00	0.00	0.00
Totals For: Agriculture - Livestock Waste		0.00	0.00	0.00
Sector: Aircraft				
2275087000	In-flight (non-Landing-Takeoff cycle) Lead Emissions	0.00	0.00	0.00
Totals For: Aircraft		0.00	0.00	0.00
Sector: Bulk Gasoline Terminals				
2501050120	Gasoline Distribution Stage I; Bulk Terminals	0.00	0.00	0.00
2501055120	Gasoline Distribution Stage I; Bulk Plants	0.00	0.00	0.00
2505030120	Gasoline Distribution Stage I; Tank Trucks in Transit	68.80	0.00	0.00
2505040120	Gasoline Distribution Stage I; Bulk Terminals	1,733.46	0.00	0.00
Totals For: Bulk Gasoline Terminals		1,802.26	0.00	0.00
Sector: Commercial Cooking				
2302002100	Commercial Cooking: ConveyORIZED Charbroiling	45.59	0.00	152.29
2302002200	Commercial Cooking: Under-fired Charbroiling	165.08	0.00	540.17
2302003000	Commercial Cooking: Deep Fat Frying	24.59	0.00	0.00
2302003100	Commercial Cooking: Flat Griddle Frying	21.41	0.00	44.20

Table 3
2011 Typical High Ozone Summer Day Emissions (Lbs/Day) by County, Sector and SCC
For Area Sources

		Area Source Daily Emissions (Lbs/Day)		
<u>Sec</u>	<u>Sec Description</u>	<u>VOC</u>	<u>NOx</u>	<u>CO</u>
2302003200	Commercial Cooking: Clamshell Griddle Frying	0.80	0.00	0.00
Totals For: Commercial Cooking		257.46	0.00	736.66

Table 3
2011 Typical High Ozone Summer Day Emissions (Lbs/Day) by County, Sector and SCC
For Area Sources

		Area Source Daily Emissions (Lbs/Day)		
<u>Sc</u>	<u>Sc Description</u>	<u>VOC</u>	<u>NOx</u>	<u>CO</u>
Sector:	Commercial/ Institutional Fuel Combustion			
2103001000	Fuel Combustion; Commercial/Institutional; Anthra Coal	0.00	0.00	0.00
2103002000	Fuel Combustion; Commercial/Institutional; Bit Coal	0.00	0.00	0.00
2103004001	Fuel Combustion; Commercial/Institutional; Distillate Oil Boiler	7.32	430.45	107.61
2103004002	Fuel Combustion; Commercial/Institutional; Distillate Oil IC Engine	0.00	639.54	137.65
2103005000	Fuel Combustion; Commercial/Institutional; Residual Oil	2.42	117.64	10.69
2103006000	Fuel Combustion; Commercial/Institutional; Natural Gas	93.73	1,704.12	1,431.46
2103007000	Fuel Combustion; Commercial/Institutional; Liquified Petroleum Gas	4.12	112.80	63.18
2103008000	Fuel Combustion; Commercial/Institutional; Wood	0.00	0.00	0.00
2103011000	Fuel Combustion; Commercial/Institutional; Kerosene	0.05	3.06	0.76
Totals For:	Commercial/ Institutional Fuel Combustion	107.64	3,007.60	1,751.35
Sector:	Dust - Construction Dust			
2311010000	Construction - Residential	0.00	0.00	0.00
2311020000	Construction - Non-Residential	0.00	0.00	0.00
2311030000	Construction - Road	0.00	0.00	0.00
Totals For:	Dust - Construction Dust	0.00	0.00	0.00
Sector:	Dust - Paved Road Dust			
2294000000	Roads, Paved	0.00	0.00	0.00
Totals For:	Dust - Paved Road Dust	0.00	0.00	0.00
Sector:	Dust - Unpaved Road Dust			
2296000000	Roads, Unpaved	0.00	0.00	0.00
Totals For:	Dust - Unpaved Road Dust	0.00	0.00	0.00
Sector:	Event			
2810001000	Forest Wildfires	0.98	0.10	4.10
2811015000	Prescribed Forest Burning	0.00	0.00	0.00
Totals For:	Event	0.98	0.10	4.10
Sector:	Fires - Agricultural Field Burning			
2801500000	Agric - Crops /Field Burning - whole field set on fire /Unspecified crop type and Burn Method	0.00	0.00	0.00

Table 3
2011 Typical High Ozone Summer Day Emissions (Lbs/Day) by County, Sector and SCC
For Area Sources

<u>Sec</u>	<u>Sec Description</u>	Area Source Daily Emissions (Lbs/Day)		
		VOC	NO _x	CO
Totals For:	Fires - Agricultural Field Burning	0.00	0.00	0.00

Table 3
2011 Typical High Ozone Summer Day Emissions (Lbs/Day) by County, Sector and SCC
For Area Sources

Sec	Sec Description	Area Source Daily Emissions (Lbs/Day)		
		VOC	NOx	CO
Sector:	Gas Stations			
2201000062	Gasoline Distribution Stage II; Gasoline Service Stations, Stage 2	724.52	0.00	
2202000062	Gasoline Distribution Stage II; Diesel Service Stations, Stage 2	43.50	0.00	0.00
2501060051	Gasoline Distribution Stage I; Gasoline Service Station Unloading Submerged filling	0.00	0.00	0.00
2501060052	Gasoline Distribution Stage I; Gasoline Service Station Unloading Splash filling	960.82	0.00	0.00
2501060053	Gasoline Distribution Stage I; Gasoline Service Station Unloading Balanced Submerged filling	695.39	0.00	0.00
2501060201	Gasoline Distribution Stage I; Underground storage tank, breathing and emptying	1,079.47	0.00	0.00
2501080050	Aviation Gasoline Distribution: Stage I	114.48	0.00	0.00
2501080100	Aviation Gasoline Distribution: Stage II	5.94	0.00	0.00
Totals For:	Gas Stations	3,624.12	0.00	0.00
Sector:	INDUSTRIAL FUEL COMBUSTION			
2102001000	Fuel Combustion; Industrial; Anthr Coal	0.00	0.00	0.00
2102002000	Fuel Combustion; Industrial; Bit Coal	0.00	0.00	0.00
2102004001	Fuel Combustion; Industrial; Distillate oil Boiler	1.72	171.78	42.94
2102004002	Fuel Combustion; Industrial; Distillate oil IC Engine	0.00	107.78	23.20
2102005000	Fuel Combustion; Industrial; Residual Oil	0.17	32.79	2.98
2102006000	Fuel Combustion; Industrial; Natural Gas	25.84	469.82	394.65
2102007000	Fuel Combustion; Industrial; Liquified Petroleum Gas (LPG)	6.58	180.13	100.89
2102008000	Fuel Combustion; Industrial; Wood	0.00	0.00	0.00
2102011000	Fuel Combustion; Industrial; Kerosene	0.73	74.32	18.57
Totals For:	INDUSTRIAL FUEL COMBUSTION	35.04	1,036.61	583.23
Sector:	Industrial Processes - Mining			
2325000000	Mining and Quarrying	0.00	0.00	0.00
Totals For:	Industrial Processes - Mining	0.00	0.00	0.00

Table 3
2011 Typical High Ozone Summer Day Emissions (Lbs/Day) by County, Sector and SCC
For Area Sources

<u>Sc</u>	<u>Sc Description</u>	Area Source Daily Emissions		
		VOC	NO_x	CO
Sector:	Industrial Processes - Storage and Transfer			
2501011011	portable fuel containers, residential, permeation	415.70	0.00	0.00
2501011012	portable fuel containers, residential, evaporation (includes diurnal losses)	811.64	0.00	0.00
2501011013	portable fuel containers, residential, spilling during transport	608.61	0.00	0.00
2501011014	portable fuel containers, residential, refilling at the pump, vapor displacement	174.66	0.00	0.00
2501011015	portable fuel containers, residential, refilling at the pump, spillage	20.03	0.00	0.00
2501012011	portable fuel containers, commercial, permeation	13.28	0.00	0.00
2501012012	portable fuel containers, commercial, evaporation (includes diurnal losses)	25.92	0.00	0.00
2501012013	portable fuel containers, commercial, spilling during transport	830.24	0.00	0.00
2501012014	portable fuel containers, commercial, refilling at the pump, vapor displacement	336.60	0.00	0.00
2501012015	portable fuel containers, commercial, refilling at the pump, spillage	38.54	0.00	0.00
Totals For:	Industrial Processes - Storage and Transfer	3,275.20	0.00	0.00
Sector:	Miscellaneous Non-Industrial NEC			
2810060100	Cremation - Human	0.06	15.93	0.07
2810060200		0.00	0.00	0.00
2850001000	Dental Preparation and Use	0.00	0.00	0.00
2851001000	General Laboratory Activities	0.00	0.00	0.00
2861000000	Lamp Breakage (Landfill emissions)	0.00	0.00	0.00
2861000010	Lamp (Fluorescent) Recycling	0.00	0.00	0.00
Totals For:	Miscellaneous Non-Industrial NEC	0.06	15.93	0.07

Table 3
2011 Typical High Ozone Summer Day Emissions (Lbs/Day) by County, Sector and SCC
For Area Sources

		Area Source Daily Emissions (Lbs/Day)		
Secc	Secc Description	VOC	NOx	CO
Sector:	Residential Heating			
2104001000	Residential Heating: Anthracite Coal	0.00	0.00	0.00
2104002000	Residential Heating: Bituminous Coal	0.00	0.00	0.00
2104004000	Residential Heating: Distillate Oil	54.04	1,389.49	385.97
2104006000	Residential Heating: Natural Gas	51.75	884.44	376.36
2104007000	Residential Heating: LPG	10.46	285.21	159.69
2104008100	Residential Heating: Fireplaces (cordwood)	0.00	0.00	0.00
2104008210	Residential Heating: Inserts non certified	0.00	0.00	0.00
2104008220	Residential Heating: Inserts EPA certified non-cat	0.00	0.00	0.00
2104008230	Residential Heating: Inserts EPA certified cat	0.00	0.00	0.00
2104008310	Residential Heating: free standing WS non certified	0.00	0.00	0.00
2104008320	Residential Heating: free standing WS EPA certified non-cat	0.00	0.00	0.00
2104008330	Residential Heating: free standing WS EPA certified cat	0.00	0.00	0.00
2104008400	Residential Heating: pellet stoves	0.00	0.00	0.00
2104008510	Residential Heating: furnace indoor	0.00	0.00	0.00
2104008610	Residential Heating: Hydronic heater: outdoor	0.00	0.00	0.00
2104008700	Residential Heating: Outdoor wood burning device, NEC	55.80	7.68	439.94
2104009000	Residential Heating: Firelog	0.00	0.00	0.00
2104011000	Residential Heating: Kerosene	0.42	10.87	3.02
Totals For: Residential Heating		172.47	2,577.68	1,364.97
Sector:	Solvent - Consumer & Commercial Solvent Use			
2460100000	C&C: Cosmetics and Toiletries	4,785.66	0.00	0.00
2460200000	C&C: Cleaning Products; Household	4,533.76	0.00	0.00
2460400000	C&C: Auto Aftermarket	3,425.52	0.00	0.00
2460500000	C&C: Coatings and Related Products	2,392.82	0.00	0.00
2460600000	C&C: adhesives and sealants	1,435.69	0.00	0.00
2460800000	C&C: FIFRA Regulated Products	4,483.41	0.00	0.00

Table 3
2011 Typical High Ozone Summer Day Emissions (Lbs/Day) by County, Sector and SCC
For Area Sources

Sec	Sec Description	Area Source Daily Emissions (Lbs/Day)		
		VOC	NO_x	CO
2460900000	C&C: Misc. Products (not otherwise covered)	176.31	0.00	0.00
2461021000	Cutback Asphalt	0.00	0.00	0.00
2461022000	Emulsified Asphalt	0.00	0.00	0.00
2461850000	Ag Pesticide	36.77	0.00	0.00

Table 3
2011 Typical High Ozone Summer Day Emissions (Lbs/Day) by County, Sector and SCC
For Area Sources

		Area Source Daily Emissions (Lbs/Day)		
<u>Sec</u>	<u>Sec Description</u>	<u>VOC</u>	<u>NOx</u>	<u>CO</u>
Totals For: Solvent - Consumer & Commercial Solvent Use		21,269.95	0.00	0.00
Sector:	Solvent - Degreasing			
2415000000	Degreasing	7,009.19	0.00	0.00
Totals For: Solvent - Degreasing		7,009.19	0.00	0.00
Sector:	Solvent - Dry Cleaning			
2420000000	Dry Cleaning	22.53	0.00	0.00
Totals For: Solvent - Dry Cleaning		22.53	0.00	0.00
Sector:	Solvent - Graphic Arts			
2425000000	Graphic Arts	1,417.79	0.00	0.00
Totals For: Solvent - Graphic Arts		1,417.79	0.00	0.00
Sector:	Solvent - Industrial Surface Coating & Solvent Use			
2401005000	Auto Refinishing SIC 7532	1,519.41	0.00	0.00
2401008000	Surface Coating - Traffic Markings	7.32	0.00	0.00
2401015000	Surface Coating - Factory Finished Wood: SIC 2426 thru 242	24.04	0.00	0.00
2401020000	Surface Coating - Wood Furniture	812.39	0.00	0.00
2401025000	Surface Coating - Metal Furniture: SIC 25	11.41	0.00	0.00
2401030000	Surface Coating - Paper, foil, and film	115.58	0.00	0.00
2401040000	Surface Coating - Metal Can Coating	0.00	0.00	0.00
2401045000	Surface Coating - Sheet, strip, and coil	0.00	0.00	0.00
2401055000	Surface Coating - Machinery and Equipment: SIC 35	380.83	0.00	0.00
2401060000	Surface Coating - Large Appliances: SIC 363	0.00	0.00	0.00
2401065000	Surface Coating - Electronic and other Electric Coatings	25.54	0.00	0.00
2401070000	Surface Coating - Motor Vehicles	306.00	0.00	0.00
2401075000	Surface Coating - Aircraft	590.35	0.00	0.00
2401080000	Surface Coating - Marine	288.91	0.00	0.00
2401085000	Surface Coating - Railroad	0.00	0.00	0.00
2401090000	Surface Coating - Miscellaneous Manufacturing	546.97	0.00	0.00

Table 3
2011 Typical High Ozone Summer Day Emissions (Lbs/Day) by County, Sector and SCC
For Area Sources

<u>Sec</u>	<u>Sec Description</u>	Area Source Daily Emissions		
		VOC	NO_x	CO
2401100000	Industrial Maintenance Coatings	528.94	0.00	0.00
2401200000	Other Special Purpose Coatings	225.68	0.00	0.00
Totals For: Solvent - Industrial Surface Coating & Solvent		5,383.35	0.00	0.00

Table 3
2011 Typical High Ozone Summer Day Emissions (Lbs/Day) by County, Sector and SCC
For Area Sources

<u>Sec</u>	<u>Sec Description</u>	Area Source Daily Emissions		
		VOC	NOx	CO
Sector:	Solvent - Non-Industrial Surface Coating			
2401001000	Architectural Coatings	6,155.86	0.00	0.00
Totals For: Solvent - Non-Industrial Surface Coating		6,155.86	0.00	0.00
Sector:	Waste Disposal			
2610000100	Open Burning - Yard Waste - Leaves	0.00	0.00	0.00
2610000400	Open Burning - Yard Waste - Brush	0.00	0.00	0.00
2610000500	Open Burning - Land Clearing Debris	0.00	0.00	0.00
2610030000	Open Burning - Household Waste	0.00	0.00	0.00
2620030001		0.00	0.00	0.00
2630020000	Publically Owned Treatment Works (POTW)	130.61	0.00	0.00
2650000000		0.00	0.00	0.00
2650000002		0.00	0.00	0.00
Totals For: Waste Disposal		130.61	0.00	0.00
Totals For:	Fairfield County	50,664.51	6,637.92	4,440.39

Table 3
2011 Typical High Ozone Summer Day Emissions (Lbs/Day) by County, Sector and SCC
For Area Sources

Hartford	Scc	Scc Description	Area Source Daily Emissions (Lbs/Day)		
			VOC	NOx	CO
	County				
	Sector:	Agriculture - Crops & Livestock Dust			
	280100003	Agricultural Tilling	0.00	0.00	0.00
		Totals For: Agriculture - Crops & Livestock Dust	0.00	0.00	0.00
	Sector:	Agriculture - Fertilizer Application			
	280170001	Fertilizer Application; Anhydrous Ammonia	0.00	0.00	0.00
	280170002	Fertilizer Application; Aqueous Ammonia	0.00	0.00	0.00
	280170003	Fertilizer Application; Nitrogen Solutions	0.00	0.00	0.00
	280170004	Fertilizer Application; Urea	0.00	0.00	0.00
	280170005	Fertilizer Application; Ammonium Nitrate	0.00	0.00	0.00
	280170006	Fertilizer Application; Ammonium Sulfate	0.00	0.00	0.00
	280170007	Fertilizer Application; Ammonium Thiosulfate	0.00	0.00	0.00
	280170010	Fertilizer Application; N-P-K (mult-grade nutrient fertilizers)	0.00	0.00	0.00
	280170011	Fertilizer Application; Calcium Ammonium Nitrate	0.00	0.00	0.00
	280170012	Fertilizer Application; Potassium Nitrate	0.00	0.00	0.00
	280170013	Fertilizer Application; Diammonium Phosphate	0.00	0.00	0.00
	280170014	Fertilizer Application; Monoammonium Phosphate	0.00	0.00	0.00
	280170015	Fertilizer Application; Liquid Ammonium Polyphosphate	0.00	0.00	0.00
	280170099	Fertilizer Application; Miscellaneous Fertilizers	0.00	0.00	0.00
		Totals For: Agriculture - Fertilizer Application	0.00	0.00	0.00

Table 3
2011 Typical High Ozone Summer Day Emissions (Lbs/Day) by County, Sector and SCC
For Area Sources

Sector:	Scs	Scs Description	Area Source Daily Emissions		
			VOC	NOx	CO
		Agriculture - Livestock Waste			
	2805001100	Beef cattle - finishing operations on feedlots (drylots); Confinement	0.00	0.00	0.00
	2805001200	Beef cattle - finishing operations on feedlots (drylots); Manure handling and storage	0.00	0.00	0.00
	2805001300	Beef cattle - finishing operations on feedlots (drylots); Land application of manure	0.00	0.00	0.00
	2805002000	Beef cattle production composite; Not Elsewhere Classified	0.00	0.00	0.00
	2805003100	Beef cattle - finishing operations on pasture/range :Confinement	0.00	0.00	0.00
	2805007100	Poultry production - layers with dry manure management systems; Confinement	0.00	0.00	0.00
	2805007300	Poultry production - layers with dry manure management systems; Land application of manure	0.00	0.00	0.00
	2805008100	Poultry production - layers with wet manure management systems; Confinement	0.00	0.00	0.00
	2805008200	Poultry production - layers with wet manure management systems; Manure handling and storage	0.00	0.00	0.00
	2805008300	Poultry production - layers with wet manure management systems :Land application of manure	0.00	0.00	0.00
	2805009100	Poultry production - broilers; Confinement	0.00	0.00	0.00
	2805009200	Poultry production - broilers; manure handling and storage	0.00	0.00	0.00
	2805009300	Poultry production - broilers; Land Application and storage	0.00	0.00	0.00
	2805010100	Poultry production - turkeys; Confinement	0.00	0.00	0.00
	2805010200	Poultry production - turkeys; Manure handling and storage	0.00	0.00	0.00
	2805010300	Poultry production - turkeys; Land application and storage	0.00	0.00	0.00
	2805018000	Dairy cattle composite; Not Elsewhere Classified	0.00	0.00	0.00
	2805019100	Dairy cattle - flush dairy; Confinement	0.00	0.00	0.00
	2805019200	Dairy cattle - flush dairy; Manure handling and storage	0.00	0.00	0.00
	2805019300	Dairy cattle - flush dairy; Land application of manure	0.00	0.00	0.00
	2805021100	Dairy cattle - scrape dairy; Confinement	0.00	0.00	0.00
	2805021200	Dairy cattle - scrape dairy; Manure handling and storage	0.00	0.00	0.00
	2805021300	Dairy cattle - scrape dairy; Land application of manure	0.00	0.00	0.00
	2805022100	Dairy cattle - deep pit dairy; Confinement	0.00	0.00	0.00
	2805022200	Dairy cattle - deep pit dairy; Manure handling and storage	0.00	0.00	0.00
	2805022300	Dairy cattle - deep pit dairy; Land application of manure	0.00	0.00	0.00

Table 3
2011 Typical High Ozone Summer Day Emissions (Lbs/Day) by County, Sector and SCC
For Area Sources

Sc	Sc Description	Area Source Daily Emissions		
		VOC	NO_x	CO
2805023100	Dairy cattle - drylot/pasture dairy; Confinement	0.00	0.00	0.00
2805023200	Dairy cattle - drylot/pasture dairy; Manure handling and storage	0.00	0.00	0.00
2805023300	Dairy cattle - drylot/pasture dairy; Land application of manure	0.00	0.00	0.00
2805025000	Swine production composite; Not Elsewhere Classified	0.00	0.00	0.00

Table 3
2011 Typical High Ozone Summer Day Emissions (Lbs/Day) by County, Sector and SCC
For Area Sources

<u>Sc</u>	<u>Sc Description</u>	Area Source Daily Emissions (Lbs/Day)		
		<u>VOC</u>	<u>NO_x</u>	<u>CO</u>
2805030000	Poultry Waste Emissions; Not Elsewhere Classified	0.00	0.00	0.00
2805030007	Poultry Waste Emissions; Ducks	0.00	0.00	0.00
2805030008	Poultry Waste Emissions; Geese	0.00	0.00	0.00
2805035000	Horses and Ponies Waste Emissions; Not Elsewhere Classified	0.00	0.00	0.00
2805039100	Swine production - operations with lagoons (unspecified animal age); Confinement	0.00	0.00	0.00
2805039200	Swine production - operations with lagoons (unspecified animal age); Manure handling and storage	0.00	0.00	0.00
2805039300	Swine production - operations with lagoons (unspecified animal age); Land application of manure	0.00	0.00	0.00
2805040000	Sheep and Lambs Waste Emissions; Total	0.00	0.00	0.00
2805045000	Goats Waste Emissions; Not Elsewhere Classified	0.00	0.00	0.00
2805047100	Swine production - deep-pit house operations (unspecified animal age); Confinement	0.00	0.00	0.00
2805047300	Swine production - deep-pit house operations (unspecified animal age); Land application of manure	0.00	0.00	0.00
2805053100	Swine production - outdoor operations (unspecified animal age); Confinement	0.00	0.00	0.00
Totals For: Agriculture - Livestock Waste		0.00	0.00	0.00
Sector: Aircraft				
2275087000	In-flight (non-Landing-Takeoff cycle) Lead Emissions	0.00	0.00	0.00
Totals For: Aircraft		0.00	0.00	0.00
Sector: Bulk Gasoline Terminals				
2501050120	Gasoline Distribution Stage I; Bulk Terminals	0.00	0.00	0.00
2501055120	Gasoline Distribution Stage I; Bulk Plants	0.00	0.00	0.00
2505030120	Gasoline Distribution Stage I; Tank Trucks in Transit	69.80	0.00	0.00
2505040120	Gasoline Distribution Stage I; Bulk Terminals	1,293.99	0.00	0.00
Totals For: Bulk Gasoline Terminals		1,363.78	0.00	0.00
Sector: Commercial Cooking				
2302002100	Commercial Cooking: ConveyORIZED Charbroiling	41.50	0.00	138.63
2302002200	Commercial Cooking: Under-fired Charbroiling	141.06	0.00	461.59
2302003000	Commercial Cooking: Deep Fat Frying	21.34	0.00	0.00
2302003100	Commercial Cooking: Flat Griddle Frying	18.78	0.00	38.81

Table 3
2011 Typical High Ozone Summer Day Emissions (Lbs/Day) by County, Sector and SCC
For Area Sources

<u>Sec</u>	<u>Sec Description</u>	Area Source Daily Emissions (Lbs/Day)		
		VOC	NO_x	CO
2302003200	Commercial Cooking: Clamshell Griddle Frying	0.66	0.00	0.00
Totals For: Commercial Cooking		223.34	0.00	639.03

Table 3
2011 Typical High Ozone Summer Day Emissions (Lbs/Day) by County, Sector and SCC
For Area Sources

<u>Sec</u>	<u>Sec Description</u>	Area Source Daily Emissions		
		VOC	NOx	CO
Sector:	Commercial/ Institutional Fuel Combustion			
2103001000	Fuel Combustion; Commercial/Institutional; Anthra Coal	0.00	0.00	0.00
2103002000	Fuel Combustion; Commercial/Institutional; Bit Coal	0.00	0.00	0.00
2103004001	Fuel Combustion; Commercial/Institutional; Distillate Oil Boiler	7.75	455.94	113.98
2103004002	Fuel Combustion; Commercial/Institutional; Distillate Oil IC Engine	0.00	677.40	145.80
2103005000	Fuel Combustion; Commercial/Institutional; Residual Oil	2.56	124.60	11.33
2103006000	Fuel Combustion; Commercial/Institutional; Natural Gas	99.28	1,805.01	1,516.21
2103007000	Fuel Combustion; Commercial/Institutional; Liquified Petroleum Gas	4.37	119.48	66.92
2103008000	Fuel Combustion; Commercial/Institutional; Wood	0.00	0.00	0.00
2103011000	Fuel Combustion; Commercial/Institutional; Kerosene	0.06	3.24	0.81
Totals For:	Commercial/ Institutional Fuel Combustion	114.01	3,185.67	1,855.04
Sector:	Dust - Construction Dust			
2311010000	Construction - Residential	0.00	0.00	0.00
2311020000	Construction - Non-Residential	0.00	0.00	0.00
2311030000	Construction - Road	0.00	0.00	0.00
Totals For:	Dust - Construction Dust	0.00	0.00	0.00
Sector:	Dust - Paved Road Dust			
2294000000	Roads, Paved	0.00	0.00	0.00
Totals For:	Dust - Paved Road Dust	0.00	0.00	0.00
Sector:	Dust - Unpaved Road Dust			
2296000000	Roads, Unpaved	0.00	0.00	0.00
Totals For:	Dust - Unpaved Road Dust	0.00	0.00	0.00
Sector:	Event			
2810001000	Forest Wildfires	1.46	0.14	6.14
2811015000	Prescribed Forest Burning	0.00	0.00	0.00
Totals For:	Event	1.46	0.14	6.14
Sector:	Fires - Agricultural Field Burning			
2801500000	Agric - Crops /Field Burning - whole field set on fire /Unspecified crop type and Burn Method	0.00	0.00	0.00

Table 3
2011 Typical High Ozone Summer Day Emissions (Lbs/Day) by County, Sector and SCC
For Area Sources

		Area Source Daily Emissions (Lbs/Day)		
<u>Sec</u>	<u>Sec Description</u>	<u>VOC</u>	<u>NO_x</u>	<u>CO</u>
Totals For: Fires - Agricultural Field Burning		0.00	0.00	0.00

Table 3
2011 Typical High Ozone Summer Day Emissions (Lbs/Day) by County, Sector and SCC
For Area Sources

Sec	Sec Description	Area Source Daily Emissions (Lbs/Day)		
		VOC	NO_x	CO
Sector:	Gas Stations			
2201000062	Gasoline Distribution Stage II; Gasoline Service Stations, Stage 2	776.33	0.00	0.00
2202000062	Gasoline Distribution Stage II; Diesel Service Stations, Stage 2	46.34	0.00	0.00
2501060051	Gasoline Distribution Stage I; Gasoline Service Station Unloading Submerged filling	0.00	0.00	0.00
2501060052	Gasoline Distribution Stage I; Gasoline Service Station Unloading Splash filling	973.55	0.00	0.00
2501060053	Gasoline Distribution Stage I; Gasoline Service Station Unloading Balanced Submerged filling	704.60	0.00	0.00
2501060201	Gasoline Distribution Stage I; Underground storage tank, breathing and emptying	1,095.07	0.00	0.00
2501080050	Aviation Gasoline Distribution: Stage I	196.74	0.00	0.00
2501080100	Aviation Gasoline Distribution: Stage II	10.21	0.00	0.00
Totals For: Gas Stations		3,802.83	0.00	0.00
Sector:	INDUSTRIAL FUEL COMBUSTION			
2102001000	Fuel Combustion; Industrial; Anthr Coal	0.00	0.00	0.00
2102002000	Fuel Combustion; Industrial; Bit Coal	0.00	0.00	0.00
2102004001	Fuel Combustion; Industrial; Distillate oil Boiler	2.39	238.81	59.70
2102004002	Fuel Combustion; Industrial; Distillate oil IC Engine	0.00	149.83	32.25
2102005000	Fuel Combustion; Industrial; Residual Oil	0.23	45.59	4.14
2102006000	Fuel Combustion; Industrial; Natural Gas	35.92	653.16	548.65
2102007000	Fuel Combustion; Industrial; Liquified Petroleum Gas (LPG)	9.15	250.42	140.26
2102008000	Fuel Combustion; Industrial; Wood	0.00	0.00	0.00
2102011000	Fuel Combustion; Industrial; Kerosene	1.02	103.32	25.82
Totals For: INDUSTRIAL FUEL COMBUSTION		48.71	1,441.13	810.82
Sector:	Industrial Processes - Mining			
2325000000	Mining and Quarrying	0.00	0.00	0.00
Totals For: Industrial Processes - Mining		0.00	0.00	0.00

Table 3
2011 Typical High Ozone Summer Day Emissions (Lbs/Day) by County, Sector and SCC
For Area Sources

<u>Sc</u>	<u>Sc Description</u>	Area Source Daily Emissions		
		VOC	NO_x	CO
Sector:	Industrial Processes - Storage and Transfer			
2501011011	portable fuel containers, residential, permeation	262.94	0.00	0.00
2501011012	portable fuel containers, residential, evaporation (includes diurnal losses)	513.39	0.00	0.00
2501011013	portable fuel containers, residential, spilling during transport	384.96	0.00	0.00
2501011014	portable fuel containers, residential, refilling at the pump, vapor displacement	110.48	0.00	0.00
2501011015	portable fuel containers, residential, refilling at the pump, spillage	12.67	0.00	0.00
2501012011	portable fuel containers, commercial, permeation	8.40	0.00	0.00
2501012012	portable fuel containers, commercial, evaporation (includes diurnal losses)	16.40	0.00	0.00
2501012013	portable fuel containers, commercial, spilling during transport	525.15	0.00	0.00
2501012014	portable fuel containers, commercial, refilling at the pump, vapor displacement	212.91	0.00	0.00
2501012015	portable fuel containers, commercial, refilling at the pump, spillage	24.38	0.00	0.00
Totals For: Industrial Processes - Storage and Transfer		2,071.67	0.00	0.00
Sector:	Miscellaneous Non-Industrial NEC			
2810060100	Cremation - Human	0.05	15.61	0.07
2810060200		0.00	0.00	0.00
2850001000	Dental Preparation and Use	0.00	0.00	0.00
2851001000	General Laboratory Activities	0.00	0.00	0.00
2861000000	Lamp Breakage (Landfill emissions)	0.00	0.00	0.00
2861000010	Lamp (Fluorescent) Recycling	0.00	0.00	0.00
Totals For: Miscellaneous Non-Industrial NEC		0.05	15.61	0.07

Table 3
2011 Typical High Ozone Summer Day Emissions (Lbs/Day) by County, Sector and SCC
For Area Sources

		Area Source Daily Emissions (Lbs/Day)		
Sec	Sec Description	VOC	NOx	CO
Sector:	Residential Heating			
2104001000	Residential Heating: Anthracite Coal	0.00	0.00	0.00
2104002000	Residential Heating: Bituminous Coal	0.00	0.00	0.00
2104004000	Residential Heating: Distillate Oil	48.73	1,253.08	348.08
2104006000	Residential Heating: Natural Gas	66.93	1,143.92	486.77
2104007000	Residential Heating: LPG	11.68	318.44	178.30
2104008100	Residential Heating: Fireplaces (cordwood)	0.00	0.00	0.00
2104008210	Residential Heating: Inserts non certified	0.00	0.00	0.00
2104008220	Residential Heating: Inserts EPA certified non-cat	0.00	0.00	0.00
2104008230	Residential Heating: Inserts EPA certified cat	0.00	0.00	0.00
2104008310	Residential Heating: free standing WS non certified	0.00	0.00	0.00
2104008320	Residential Heating: free standing WS EPA certified non-cat	0.00	0.00	0.00
2104008330	Residential Heating: free standing WS EPA certified cat	0.00	0.00	0.00
2104008400	Residential Heating: pellet stoves	0.00	0.00	0.00
2104008510	Residential Heating: furnace indoor	0.00	0.00	0.00
2104008610	Residential Heating: Hydronic heater: outdoor	0.00	0.00	0.00
2104008700	Residential Heating: Outdoor wood burning device, NEC	163.99	22.56	1,292.86
2104009000	Residential Heating: Firelog	0.00	0.00	0.00
2104011000	Residential Heating: Kerosene	0.38	9.80	2.72
Totals For: Residential Heating		291.71	2,747.80	2,308.74
Sector:	Solvent - Consumer & Commercial Solvent Use			
2460100000	C&C: Cosmetics and Toiletries	4,666.57	0.00	0.00
2460200000	C&C: Cleaning Products; Household	4,420.96	0.00	0.00
2460400000	C&C: Auto Aftermarket	3,340.27	0.00	0.00
2460500000	C&C: Coatings and Related Products	2,333.27	0.00	0.00
2460600000	C&C: adhesives and sealants	1,399.97	0.00	0.00
2460800000	C&C: FIFRA Regulated Products	4,371.81	0.00	0.00

Table 3
2011 Typical High Ozone Summer Day Emissions (Lbs/Day) by County, Sector and SCC
For Area Sources

Sec	Sec Description	Area Source Daily Emissions		
		VOC	NO_x	CO
2460900000	C&C: Misc. Products (not otherwise covered)	171.93	0.00	0.00
2461021000	Cutback Asphalt	0.00	0.00	0.00
2461022000	Emulsified Asphalt	0.00	0.00	0.00
2461850000	Ag Pesticide	355.54	0.00	0.00

**Table 3
2011 Typical High Ozone Summer Day Emissions (Lbs/Day) by County, Sector and SCC
For Area Sources**

		Area Source Daily Emissions (Lbs/Day)		
<u>Sec</u>	<u>Sec Description</u>	<u>VOC</u>	<u>NOx</u>	<u>CO</u>
Totals For: Solvent - Consumer & Commercial Solvent Use		21,060.32	0.00	0.00
Sector:	Solvent - Degreasing			
2415000000	Degreasing	7,316.31	0.00	0.00
Totals For: Solvent - Degreasing		7,316.31	0.00	0.00
Sector:	Solvent - Dry Cleaning			
2420000000	Dry Cleaning	16.79	0.00	0.00
Totals For: Solvent - Dry Cleaning		16.79	0.00	0.00
Sector:	Solvent - Graphic Arts			
2425000000	Graphic Arts	2,245.57	0.00	0.00
Totals For: Solvent - Graphic Arts		2,245.57	0.00	0.00
Sector:	Solvent - Industrial Surface Coating & Solvent Use			
2401005000	Auto Refinishing SIC 7532	1,724.82	0.00	0.00
2401008000	Surface Coating - Traffic Markings	7.12	0.00	0.00
2401015000	Surface Coating - Factory Finished Wood: SIC 2426 thru 242	44.56	0.00	0.00
2401020000	Surface Coating - Wood Furniture	1,767.41	0.00	0.00
2401025000	Surface Coating - Metal Furniture: SIC 25	636.64	0.00	0.00
2401030000	Surface Coating - Paper, foil, and film	321.47	0.00	0.00
2401040000	Surface Coating - Metal Can Coating	610.33	0.00	0.00
2401045000	Surface Coating - Sheet, strip, and coil	0.00	0.00	0.00
2401055000	Surface Coating - Machinery and Equipment: SIC 35	75.18	0.00	0.00
2401060000	Surface Coating - Large Appliances: SIC 363	0.00	0.00	0.00
2401065000	Surface Coating - Electronic and other Electric Coatings	43.77	0.00	0.00
2401070000	Surface Coating - Motor Vehicles	123.63	0.00	0.00
2401075000	Surface Coating - Aircraft	584.97	0.00	0.00
2401080000	Surface Coating - Marine	0.00	0.00	0.00
2401085000	Surface Coating - Railroad	0.00	0.00	0.00
2401090000	Surface Coating - Miscellaneous Manufacturing	741.40	0.00	0.00

Table 3
2011 Typical High Ozone Summer Day Emissions (Lbs/Day) by County, Sector and SCC
For Area Sources

<u>Sec</u>	<u>Sec Description</u>	Area Source Daily Emissions		
		VOC	NO_x	CO
2401100000	Industrial Maintenance Coatings	515.78	0.00	0.00
2401200000	Other Special Purpose Coatings	220.07	0.00	0.00
Totals For: Solvent - Industrial Surface Coating & Solvent		7,417.14	0.00	0.00

Table 3
2011 Typical High Ozone Summer Day Emissions (Lbs/Day) by County, Sector and SCC
For Area Sources

<u>Sec</u>	<u>Sec Description</u>	Area Source Daily Emissions		
		VOC	NO_x	CO
Sector:	Solvent - Non-Industrial Surface Coating			
2401001000	Architectural Coatings	6,002.68	0.00	0.00
Totals For: Solvent - Non-Industrial Surface Coating		6,002.68	0.00	0.00
Sector:	Waste Disposal			
2610000100	Open Burning - Yard Waste - Leaves	0.00	0.00	0.00
2610000400	Open Burning - Yard Waste - Brush	0.00	0.00	0.00
2610000500	Open Burning - Land Clearing Debris	0.00	0.00	0.00
2610030000	Open Burning - Household Waste	0.00	0.00	0.00
2620030001		0.00	0.00	0.00
2630020000	Publically Owned Treatment Works (POTW)	39.55	0.00	0.00
2650000000		0.00	0.00	0.00
2650000002		0.00	0.00	0.00
Totals For: Waste Disposal		39.55	0.00	0.00
Totals For:	Hartford County	52,015.94	7,390.36	5,619.84

**Table 3
2011 Typical High Ozone Summer Day Emissions (Lbs/Day) by County, Sector and SCC
For Area Sources**

Litchfield	Scc	County	Scc Description	Area Source Daily Emissions (Lbs/Day)		
				VOC	NOx	CO
	Sector:		Agriculture - Crops & Livestock Dust			
	2801000003		Agricultural Tilling	0.00	0.00	0.00
	Totals For: Agriculture - Crops & Livestock Dust			0.00	0.00	0.00
	Sector:		Agriculture - Fertilizer Application			
	2801700001		Fertilizer Application; Anhydrous Ammonia	0.00	0.00	0.00
	2801700002		Fertilizer Application; Aqueous Ammonia	0.00	0.00	0.00
	2801700003		Fertilizer Application; Nitrogen Solutions	0.00	0.00	0.00
	2801700004		Fertilizer Application; Urea	0.00	0.00	0.00
	2801700005		Fertilizer Application; Ammonium Nitrate	0.00	0.00	0.00
	2801700006		Fertilizer Application; Ammonium Sulfate	0.00	0.00	0.00
	2801700007		Fertilizer Application; Ammonium Thiosulfate	0.00	0.00	0.00
	2801700010		Fertilizer Application; N-P-K (mult-grade nutrient fertilizers)	0.00	0.00	0.00
	2801700011		Fertilizer Application; Calcium Ammonium Nitrate	0.00	0.00	0.00
	2801700012		Fertilizer Application; Potassium Nitrate	0.00	0.00	0.00
	2801700013		Fertilizer Application; Diammonium Phosphate	0.00	0.00	0.00
	2801700014		Fertilizer Application; Monoammonium Phosphate	0.00	0.00	0.00
	2801700015		Fertilizer Application; Liquid Ammonium Polyphosphate	0.00	0.00	0.00
	2801700099		Fertilizer Application; Miscellaneous Fertilizers	0.00	0.00	0.00
	Totals For: Agriculture - Fertilizer Application			0.00	0.00	0.00

Table 3
2011 Typical High Ozone Summer Day Emissions (Lbs/Day) by County, Sector and SCC
For Area Sources

Sector:	Scc	Scc Description	Area Source Daily Emissions (Lbs/Day)		
			VOC	NOx	CO
		Agriculture - Livestock Waste			
	2805001100	Beef cattle - finishing operations on feedlots (drylots); Confinement	0.00	0.00	0.00
	2805001200	Beef cattle - finishing operations on feedlots (drylots); Manure handling and storage	0.00	0.00	0.00
	2805001300	Beef cattle - finishing operations on feedlots (drylots); Land application of manure	0.00	0.00	0.00
	2805002000	Beef cattle production composite; Not Elsewhere Classified	0.00	0.00	0.00
	2805003100	Beef cattle - finishing operations on pasture/range :Confinement	0.00	0.00	0.00
	2805007100	Poultry production - layers with dry manure management systems; Confinement	0.00	0.00	0.00
	2805007300	Poultry production - layers with dry manure management systems; Land application of manure	0.00	0.00	0.00
	2805008100	Poultry production - layers with wet manure management systems; Confinement	0.00	0.00	0.00
	2805008200	Poultry production - layers with wet manure management systems; Manure handling and storage	0.00	0.00	0.00
	2805008300	Poultry production - layers with wet manure management systems :Land application of manure	0.00	0.00	0.00
	2805009100	Poultry production - broilers; Confinement	0.00	0.00	0.00
	2805009200	Poultry production - broilers; manure handling and storage	0.00	0.00	0.00
	2805009300	Poultry production - broilers; Land Application and storage	0.00	0.00	0.00
	2805010100	Poultry production - turkeys; Confinement	0.00	0.00	0.00
	2805010200	Poultry production - turkeys; Manure handling and storage	0.00	0.00	0.00
	2805010300	Poultry production - turkeys; Land application and storage	0.00	0.00	0.00
	2805018000	Dairy cattle composite; Not Elsewhere Classified	0.00	0.00	0.00
	2805019100	Dairy cattle - flush dairy; Confinement	0.00	0.00	0.00
	2805019200	Dairy cattle - flush dairy; Manure handling and storage	0.00	0.00	0.00
	2805019300	Dairy cattle - flush dairy; Land application of manure	0.00	0.00	0.00
	2805021100	Dairy cattle - scrape dairy; Confinement	0.00	0.00	0.00
	2805021200	Dairy cattle - scrape dairy; Manure handling and storage	0.00	0.00	0.00
	2805021300	Dairy cattle - scrape dairy; Land application of manure	0.00	0.00	0.00
	2805022100	Dairy cattle - deep pit dairy; Confinement	0.00	0.00	0.00
	2805022200	Dairy cattle - deep pit dairy; Manure handling and storage	0.00	0.00	0.00
	2805022300	Dairy cattle - deep pit dairy; Land application of manure	0.00	0.00	0.00

Table 3
2011 Typical High Ozone Summer Day Emissions (Lbs/Day) by County, Sector and SCC
For Area Sources

Sec	Sec Description	Area Source Daily Emissions (Lbs/Day)		
		VOC	NO_x	CO
2805023100	Dairy cattle - drylot/pasture dairy; Confinement	0.00	0.00	0.00
2805023200	Dairy cattle - drylot/pasture dairy; Manure handling and storage	0.00	0.00	0.00
2805023300	Dairy cattle - drylot/pasture dairy; Land application of manure	0.00	0.00	0.00
2805025000	Swine production composite; Not Elsewhere Classified	0.00	0.00	0.00

Table 3
2011 Typical High Ozone Summer Day Emissions (Lbs/Day) by County, Sector and SCC
For Area Sources

<u>Sc</u>	<u>Sc Description</u>	Area Source Daily Emissions		
		VOC	NO_x	CO
2805030000	Poultry Waste Emissions; Not Elsewhere Classified	0.00	0.00	0.00
2805030007	Poultry Waste Emissions; Ducks	0.00	0.00	0.00
2805030008	Poultry Waste Emissions; Geese	0.00	0.00	0.00
2805035000	Horses and Ponies Waste Emissions; Not Elsewhere Classified	0.00	0.00	0.00
2805039100	Swine production - operations with lagoons (unspecified animal age); Confinement	0.00	0.00	0.00
2805039200	Swine production - operations with lagoons (unspecified animal age); Manure handling and storage	0.00	0.00	0.00
2805039300	Swine production - operations with lagoons (unspecified animal age); Land application of manure	0.00	0.00	0.00
2805040000	Sheep and Lambs Waste Emissions; Total	0.00	0.00	0.00
2805045000	Goats Waste Emissions; Not Elsewhere Classified	0.00	0.00	0.00
2805047100	Swine production - deep-pit house operations (unspecified animal age); Confinement	0.00	0.00	0.00
2805047300	Swine production - deep-pit house operations (unspecified animal age); Land application of manure	0.00	0.00	0.00
2805053100	Swine production - outdoor operations (unspecified animal age); Confinement	0.00	0.00	0.00
Totals For: Agriculture - Livestock Waste		0.00	0.00	0.00
Sector: Aircraft				
2275087000	In-flight (non-Landing-Takeoff cycle) Lead Emissions	0.00	0.00	0.00
Totals For: Aircraft		0.00	0.00	0.00
Sector: Bulk Gasoline Terminals				
2501050120	Gasoline Distribution Stage I; Bulk Terminals	0.00	0.00	0.00
2501055120	Gasoline Distribution Stage I; Bulk Plants	0.00	0.00	0.00
2505030120	Gasoline Distribution Stage I; Tank Trucks in Transit	14.36	0.00	0.00
2505040120	Gasoline Distribution Stage I; Bulk Terminals	411.30	0.00	0.00
Totals For: Bulk Gasoline Terminals		425.65	0.00	0.00
Sector: Commercial Cooking				
2302002100	Commercial Cooking: ConveyORIZED Charbroiling	8.15	0.00	27.19
2302002200	Commercial Cooking: Under-fired Charbroiling	28.20	0.00	92.39
2302003000	Commercial Cooking: Deep Fat Frying	4.10	0.00	0.00
2302003100	Commercial Cooking: Flat Griddle Frying	3.81	0.00	7.97

Table 3
2011 Typical High Ozone Summer Day Emissions (Lbs/Day) by County, Sector and SCC
For Area Sources

<u>Sec</u>	<u>Sec Description</u>	Area Source Daily Emissions		
		VOC	NO_x	CO
2302003200	Commercial Cooking: Clamshell Griddle Frying	0.12	0.00	0.00
Totals For: Commercial Cooking		44.38	0.00	127.55

Table 3
2011 Typical High Ozone Summer Day Emissions (Lbs/Day) by County, Sector and SCC
For Area Sources

		Area Source Daily Emissions (Lbs/Day)		
<u>Scs</u>	<u>Scs Description</u>	<u>VOC</u>	<u>NOx</u>	<u>CO</u>
Sector:	Commercial/ Institutional Fuel Combustion			
2103001000	Fuel Combustion; Commercial/Institutional; Anthra Coal	0.00	0.00	0.00
2103002000	Fuel Combustion; Commercial/Institutional; Bit Coal	0.00	0.00	0.00
2103004001	Fuel Combustion; Commercial/Institutional; Distillate Oil Boiler	0.86	50.86	12.71
2103004002	Fuel Combustion; Commercial/Institutional; Distillate Oil IC Engine	0.00	75.56	16.26
2103005000	Fuel Combustion; Commercial/Institutional; Residual Oil	0.29	13.90	1.26
2103006000	Fuel Combustion; Commercial/Institutional; Natural Gas	11.07	201.34	169.13
2103007000	Fuel Combustion; Commercial/Institutional; Liquified Petroleum Gas	0.49	13.33	7.46
2103008000	Fuel Combustion; Commercial/Institutional; Wood	0.00	0.00	0.00
2103011000	Fuel Combustion; Commercial/Institutional; Kerosene	0.01	0.36	0.09
Totals For:	Commercial/ Institutional Fuel Combustion	12.72	355.35	206.92
Sector:	Dust - Construction Dust			
2311010000	Construction - Residential	0.00	0.00	0.00
2311020000	Construction - Non-Residential	0.00	0.00	0.00
2311030000	Construction - Road	0.00	0.00	0.00
Totals For:	Dust - Construction Dust	0.00	0.00	0.00
Sector:	Dust - Paved Road Dust			
2294000000	Roads, Paved	0.00	0.00	0.00
Totals For:	Dust - Paved Road Dust	0.00	0.00	0.00
Sector:	Dust - Unpaved Road Dust			
2296000000	Roads, Unpaved	0.00	0.00	0.00
Totals For:	Dust - Unpaved Road Dust	0.00	0.00	0.00
Sector:	Event			
2810001000	Forest Wildfires	97.92	9.43	410.50
2811015000	Prescribed Forest Burning	0.00	0.00	0.00
Totals For:	Event	97.92	9.43	410.50
Sector:	Fires - Agricultural Field Burning			
2801500000	Agric - Crops /Field Burning - whole field set on fire /Unspecified crop type and Burn Method	0.00	0.00	0.00

Table 3
2011 Typical High Ozone Summer Day Emissions (Lbs/Day) by County, Sector and SCC
For Area Sources

<u>Sec</u>	<u>Sec Description</u>	Area Source Daily Emissions (Lbs/Day)		
		VOC	NO _x	CO
Totals For:	Fires - Agricultural Field Burning	0.00	0.00	0.00

Table 3
2011 Typical High Ozone Summer Day Emissions (Lbs/Day) by County, Sector and SCC
For Area Sources

Sec	Sec Description	Area Source Daily Emissions (Lbs/Day)		
		VOC	NO_x	CO
Sector:	Gas Stations			
2201000062	Gasoline Distribution Stage II; Gasoline Service Stations, Stage 2	134.77	0.00	0.00
2202000062	Gasoline Distribution Stage II; Diesel Service Stations, Stage 2	6.11	0.00	0.00
2501060051	Gasoline Distribution Stage I; Gasoline Service Station Unloading Submerged filling	0.00	0.00	0.00
2501060052	Gasoline Distribution Stage I; Gasoline Service Station Unloading Splash filling	200.50	0.00	0.00
2501060053	Gasoline Distribution Stage I; Gasoline Service Station Unloading Balanced Submerged filling	145.11	0.00	0.00
2501060201	Gasoline Distribution Stage I; Underground storage tank, breathing and emptying	225.26	0.00	0.00
2501080050	Aviation Gasoline Distribution: Stage I	75.17	0.00	0.00
2501080100	Aviation Gasoline Distribution: Stage II	3.90	0.00	0.00
Totals For: Gas Stations		790.83	0.00	0.00
Sector:	INDUSTRIAL FUEL COMBUSTION			
2102001000	Fuel Combustion; Industrial; Anthr Coal	0.00	0.00	0.00
2102002000	Fuel Combustion; Industrial; Bit Coal	0.00	0.00	0.00
2102004001	Fuel Combustion; Industrial; Distillate oil Boiler	0.42	42.08	10.52
2102004002	Fuel Combustion; Industrial; Distillate oil IC Engine	0.00	26.40	5.68
2102005000	Fuel Combustion; Industrial; Residual Oil	0.04	8.03	0.73
2102006000	Fuel Combustion; Industrial; Natural Gas	6.33	115.10	96.68
2102007000	Fuel Combustion; Industrial; Liquified Petroleum Gas (LPG)	1.61	44.13	24.72
2102008000	Fuel Combustion; Industrial; Wood	0.00	0.00	0.00
2102011000	Fuel Combustion; Industrial; Kerosene	0.18	18.21	4.55
Totals For: INDUSTRIAL FUEL COMBUSTION		8.58	253.95	142.88
Sector:	Industrial Processes - Mining			
2325000000	Mining and Quarrying	0.00	0.00	0.00
Totals For: Industrial Processes - Mining		0.00	0.00	0.00

Table 3
2011 Typical High Ozone Summer Day Emissions (Lbs/Day) by County, Sector and SCC
For Area Sources

		Area Source Daily Emissions (Lbs/Day)		
<u>Sc</u>	<u>Sc Description</u>	VOC	NO_x	CO
Sector:	Industrial Processes - Storage and Transfer			
2501011011	portable fuel containers, residential, permeation	75.25	0.00	0.00
2501011012	portable fuel containers, residential, evaporation (includes diurnal losses)	146.92	0.00	0.00
2501011013	portable fuel containers, residential, spilling during transport	110.17	0.00	0.00
2501011014	portable fuel containers, residential, refilling at the pump, vapor displacement	31.62	0.00	0.00
2501011015	portable fuel containers, residential, refilling at the pump, spillage	3.63	0.00	0.00
2501012011	portable fuel containers, commercial, permeation	2.40	0.00	0.00
2501012012	portable fuel containers, commercial, evaporation (includes diurnal losses)	4.69	0.00	0.00
2501012013	portable fuel containers, commercial, spilling during transport	150.29	0.00	0.00
2501012014	portable fuel containers, commercial, refilling at the pump, vapor displacement	60.93	0.00	0.00
2501012015	portable fuel containers, commercial, refilling at the pump, spillage	6.98	0.00	0.00
Totals For: Industrial Processes - Storage and Transfer		592.87	0.00	0.00
Sector:	Miscellaneous Non-Industrial NEC			
2810060100	Cremation - Human	0.01	3.34	0.02
2810060200		0.00	0.00	0.00
2850001000	Dental Preparation and Use	0.00	0.00	0.00
2851001000	General Laboratory Activities	0.00	0.00	0.00
2861000000	Lamp Breakage (Landfill emissions)	0.00	0.00	0.00
2861000010	Lamp (Fluorescent) Recycling	0.00	0.00	0.00
Totals For: Miscellaneous Non-Industrial NEC		0.01	3.34	0.02

Table 3
2011 Typical High Ozone Summer Day Emissions (Lbs/Day) by County, Sector and SCC
For Area Sources

		Area Source Daily Emissions (Lbs/Day)		
<u>Sc</u>	<u>Sc Description</u>	<u>VOC</u>	<u>NOx</u>	<u>CO</u>
Sector:	Residential Heating			
2104001000	Residential Heating: Anthracite Coal	0.00	0.00	0.00
2104002000	Residential Heating: Bituminous Coal	0.00	0.00	0.00
2104004000	Residential Heating: Distillate Oil	15.37	395.35	109.82
2104006000	Residential Heating: Natural Gas	4.38	74.92	31.88
2104007000	Residential Heating: LPG	2.95	80.52	45.08
2104008100	Residential Heating: Fireplaces (cordwood)	0.00	0.00	0.00
2104008210	Residential Heating: Inserts non certified	0.00	0.00	0.00
2104008220	Residential Heating: Inserts EPA certified non-cat	0.00	0.00	0.00
2104008230	Residential Heating: Inserts EPA certified cat	0.00	0.00	0.00
2104008310	Residential Heating: free standing WS non certified	0.00	0.00	0.00
2104008320	Residential Heating: free standing WS EPA certified non-cat	0.00	0.00	0.00
2104008330	Residential Heating: free standing WS EPA certified cat	0.00	0.00	0.00
2104008400	Residential Heating: pellet stoves	0.00	0.00	0.00
2104008510	Residential Heating: furnace indoor	0.00	0.00	0.00
2104008610	Residential Heating: Hydronic heater: outdoor	0.00	0.00	0.00
2104008700	Residential Heating: Outdoor wood burning device, NEC	12.23	1.68	96.42
2104009000	Residential Heating: Firelog	0.00	0.00	0.00
2104011000	Residential Heating: Kerosene	0.12	3.09	0.86
Totals For:	Residential Heating	35.06	555.57	284.07
Sector:	Solvent - Consumer & Commercial Solvent Use			
2460100000	C&C: Cosmetics and Toiletries	991.37	0.00	0.00
2460200000	C&C: Cleaning Products; Household	939.20	0.00	0.00
2460400000	C&C: Auto Aftermarket	709.62	0.00	0.00
2460500000	C&C: Coatings and Related Products	495.69	0.00	0.00
2460600000	C&C: adhesives and sealants	297.41	0.00	0.00
2460800000	C&C: FIFRA Regulated Products	928.76	0.00	0.00

Table 3
2011 Typical High Ozone Summer Day Emissions (Lbs/Day) by County, Sector and SCC
For Area Sources

Sec	Sec Description	Area Source Daily Emissions		
		(Lbs/Day)		
		VOC	NO_x	CO
2460900000	C&C: Misc. Products (not otherwise covered)	36.52	0.00	0.00
2461021000	Cutback Asphalt	0.00	0.00	0.00
2461022000	Emulsified Asphalt	0.00	0.00	0.00
2461850000	Ag Pesticide	169.37	0.00	0.00

Table 3
2011 Typical High Ozone Summer Day Emissions (Lbs/Day) by County, Sector and SCC
For Area Sources

		Area Source Daily Emissions (Lbs/Day)		
<u>Sec</u>	<u>Sec Description</u>	<u>VOC</u>	<u>NOx</u>	<u>CO</u>
Totals For: Solvent - Consumer & Commercial Solvent Use		4,567.95	0.00	0.00
Sector:	Solvent - Degreasing			
2415000000	Degreasing	1,176.16	0.00	0.00
Totals For: Solvent - Degreasing		1,176.16	0.00	0.00
Sector:	Solvent - Dry Cleaning			
2420000000	Dry Cleaning	2.88	0.00	0.00
Totals For: Solvent - Dry Cleaning		2.88	0.00	0.00
Sector:	Solvent - Graphic Arts			
2425000000	Graphic Arts	163.89	0.00	0.00
Totals For: Solvent - Graphic Arts		163.89	0.00	0.00
Sector:	Solvent - Industrial Surface Coating & Solvent Use			
2401005000	Auto Refinishing SIC 7532	451.23	0.00	0.00
2401008000	Surface Coating - Traffic Markings	4.33	0.00	0.00
2401015000	Surface Coating - Factory Finished Wood: SIC 2426 thru 242	18.12	0.00	0.00
2401020000	Surface Coating - Wood Furniture	204.91	0.00	0.00
2401025000	Surface Coating - Metal Furniture: SIC 25	11.41	0.00	0.00
2401030000	Surface Coating - Paper, foil, and film	0.00	0.00	0.00
2401040000	Surface Coating - Metal Can Coating	101.72	0.00	0.00
2401045000	Surface Coating - Sheet, strip, and coil	0.00	0.00	0.00
2401055000	Surface Coating - Machinery and Equipment: SIC 35	38.79	0.00	0.00
2401060000	Surface Coating - Large Appliances: SIC 363	47.59	0.00	0.00
2401065000	Surface Coating - Electronic and other Electric Coatings	0.00	0.00	0.00
2401070000	Surface Coating - Motor Vehicles	366.63	0.00	0.00
2401075000	Surface Coating - Aircraft	0.38	0.00	0.00
2401080000	Surface Coating - Marine	0.00	0.00	0.00
2401085000	Surface Coating - Railroad	0.00	0.00	0.00
2401090000	Surface Coating - Miscellaneous Manufacturing	232.83	0.00	0.00

Table 3
2011 Typical High Ozone Summer Day Emissions (Lbs/Day) by County, Sector and SCC
For Area Sources

<u>Sec</u>	<u>Sec Description</u>	Area Source Daily Emissions		
		VOC	NO_x	CO
2401100000	Industrial Maintenance Coatings	109.57	0.00	0.00
2401200000	Other Special Purpose Coatings	46.75	0.00	0.00
Totals For: Solvent - Industrial Surface Coating & Solvent		1,634.27	0.00	0.00

Table 3
2011 Typical High Ozone Summer Day Emissions (Lbs/Day) by County, Sector and SCC
For Area Sources

		Area Source Daily Emissions (Lbs/Day)		
<u>Scs</u>	<u>Scs Description</u>	<u>VOC</u>	<u>NOx</u>	<u>CO</u>
Sector:	Solvent - Non-Industrial Surface Coating			
2401001000	Architectural Coatings	1,275.23	0.00	0.00
Totals For: Solvent - Non-Industrial Surface Coating		1,275.23	0.00	0.00
Sector:	Waste Disposal			
2610000100	Open Burning - Yard Waste - Leaves	0.00	0.00	0.00
2610000400	Open Burning - Yard Waste - Brush	18.67	4.91	137.57
2610000500	Open Burning - Land Clearing Debris	0.00	0.00	0.00
2610030000	Open Burning - Household Waste	183.85	128.87	1,825.62
2620030001		0.00	0.00	0.00
2630020000	Publically Owned Treatment Works (POTW)	20.24	0.00	0.00
2650000000		0.00	0.00	0.00
2650000002		0.00	0.00	0.00
Totals For: Waste Disposal		222.76	133.78	1,963.18
Totals For:	Litchfield	11,051.17	1,311.41	3,135.12

Table 3
2011 Typical High Ozone Summer Day Emissions (Lbs/Day) by County, Sector and SCC
For Area Sources

Middlesex	Scc	Scc Description	Area Source Daily Emissions (Lbs/Day)		
			VOC	NOx	CO
	Sector:	Agriculture - Crops & Livestock Dust			
	280100003	Agricultural Tilling	0.00	0.00	0.00
		Totals For: Agriculture - Crops & Livestock Dust	0.00	0.00	0.00
	Sector:	Agriculture - Fertilizer Application			
	280170001	Fertilizer Application; Anhydrous Ammonia	0.00	0.00	0.00
	280170002	Fertilizer Application; Aqueous Ammonia	0.00	0.00	0.00
	280170003	Fertilizer Application; Nitrogen Solutions	0.00	0.00	0.00
	280170004	Fertilizer Application; Urea	0.00	0.00	0.00
	280170005	Fertilizer Application; Ammonium Nitrate	0.00	0.00	0.00
	280170006	Fertilizer Application; Ammonium Sulfate	0.00	0.00	0.00
	280170007	Fertilizer Application; Ammonium Thiosulfate	0.00	0.00	0.00
	280170010	Fertilizer Application; N-P-K (mult-grade nutrient fertilizers)	0.00	0.00	0.00
	280170011	Fertilizer Application; Calcium Ammonium Nitrate	0.00	0.00	0.00
	280170012	Fertilizer Application; Potassium Nitrate	0.00	0.00	0.00
	280170013	Fertilizer Application; Diammonium Phosphate	0.00	0.00	0.00
	280170014	Fertilizer Application; Monoammonium Phosphate	0.00	0.00	0.00
	280170015	Fertilizer Application; Liquid Ammonium Polyphosphate	0.00	0.00	0.00
	280170099	Fertilizer Application; Miscellaneous Fertilizers	0.00	0.00	0.00
		Totals For: Agriculture - Fertilizer Application	0.00	0.00	0.00

Table 3
2011 Typical High Ozone Summer Day Emissions (Lbs/Day) by County, Sector and SCC
For Area Sources

Sector:	Scs	Scs Description	Area Source Daily Emissions		
			VOC	NOx	CO
		Agriculture - Livestock Waste			
	2805001100	Beef cattle - finishing operations on feedlots (drylots); Confinement	0.00	0.00	0.00
	2805001200	Beef cattle - finishing operations on feedlots (drylots); Manure handling and storage	0.00	0.00	0.00
	2805001300	Beef cattle - finishing operations on feedlots (drylots); Land application of manure	0.00	0.00	0.00
	2805002000	Beef cattle production composite; Not Elsewhere Classified	0.00	0.00	0.00
	2805003100	Beef cattle - finishing operations on pasture/range :Confinement	0.00	0.00	0.00
	2805007100	Poultry production - layers with dry manure management systems; Confinement	0.00	0.00	0.00
	2805007300	Poultry production - layers with dry manure management systems; Land application of manure	0.00	0.00	0.00
	2805008100	Poultry production - layers with wet manure management systems; Confinement	0.00	0.00	0.00
	2805008200	Poultry production - layers with wet manure management systems; Manure handling and storage	0.00	0.00	0.00
	2805008300	Poultry production - layers with wet manure management systems :Land application of manure	0.00	0.00	0.00
	2805009100	Poultry production - broilers; Confinement	0.00	0.00	0.00
	2805009200	Poultry production - broilers; manure handling and storage	0.00	0.00	0.00
	2805009300	Poultry production - broilers; Land Application and storage	0.00	0.00	0.00
	2805010100	Poultry production - turkeys; Confinement	0.00	0.00	0.00
	2805010200	Poultry production - turkeys; Manure handling and storage	0.00	0.00	0.00
	2805010300	Poultry production - turkeys; Land application and storage	0.00	0.00	0.00
	2805018000	Dairy cattle composite; Not Elsewhere Classified	0.00	0.00	0.00
	2805019100	Dairy cattle - flush dairy; Confinement	0.00	0.00	0.00
	2805019200	Dairy cattle - flush dairy; Manure handling and storage	0.00	0.00	0.00
	2805019300	Dairy cattle - flush dairy; Land application of manure	0.00	0.00	0.00
	2805021100	Dairy cattle - scrape dairy; Confinement	0.00	0.00	0.00
	2805021200	Dairy cattle - scrape dairy; Manure handling and storage	0.00	0.00	0.00
	2805021300	Dairy cattle - scrape dairy; Land application of manure	0.00	0.00	0.00
	2805022100	Dairy cattle - deep pit dairy; Confinement	0.00	0.00	0.00
	2805022200	Dairy cattle - deep pit dairy; Manure handling and storage	0.00	0.00	0.00
	2805022300	Dairy cattle - deep pit dairy; Land application of manure	0.00	0.00	0.00

Table 3
2011 Typical High Ozone Summer Day Emissions (Lbs/Day) by County, Sector and SCC
For Area Sources

Sec	Sec Description	Area Source Daily Emissions (Lbs/Day)		
		VOC	NO_x	CO
2805023100	Dairy cattle - drylot/pasture dairy; Confinement	0.00	0.00	0.00
2805023200	Dairy cattle - drylot/pasture dairy; Manure handling and storage	0.00	0.00	0.00
2805023300	Dairy cattle - drylot/pasture dairy; Land application of manure	0.00	0.00	0.00
2805025000	Swine production composite; Not Elsewhere Classified	0.00	0.00	0.00

Table 3
2011 Typical High Ozone Summer Day Emissions (Lbs/Day) by County, Sector and SCC
For Area Sources

<u>Sc</u>	<u>Sc Description</u>	Area Source Daily Emissions		
		VOC	NO_x	CO
2805030000	Poultry Waste Emissions; Not Elsewhere Classified	0.00	0.00	0.00
2805030007	Poultry Waste Emissions; Ducks	0.00	0.00	0.00
2805030008	Poultry Waste Emissions; Geese	0.00	0.00	0.00
2805035000	Horses and Ponies Waste Emissions; Not Elsewhere Classified	0.00	0.00	0.00
2805039100	Swine production - operations with lagoons (unspecified animal age); Confinement	0.00	0.00	0.00
2805039200	Swine production - operations with lagoons (unspecified animal age); Manure handling and storage	0.00	0.00	0.00
2805039300	Swine production - operations with lagoons (unspecified animal age); Land application of manure	0.00	0.00	0.00
2805040000	Sheep and Lambs Waste Emissions; Total	0.00	0.00	0.00
2805045000	Goats Waste Emissions; Not Elsewhere Classified	0.00	0.00	0.00
2805047100	Swine production - deep-pit house operations (unspecified animal age); Confinement	0.00	0.00	0.00
2805047300	Swine production - deep-pit house operations (unspecified animal age); Land application of manure	0.00	0.00	0.00
2805053100	Swine production - outdoor operations (unspecified animal age); Confinement	0.00	0.00	0.00
Totals For: Agriculture - Livestock Waste		0.00	0.00	0.00
Sector: Aircraft				
2275087000	In-flight (non-Landing-Takeoff cycle) Lead Emissions	0.00	0.00	0.00
Totals For: Aircraft		0.00	0.00	0.00
Sector: Bulk Gasoline Terminals				
2501050120	Gasoline Distribution Stage I; Bulk Terminals	0.00	0.00	0.00
2501055120	Gasoline Distribution Stage I; Bulk Plants	0.00	0.00	0.00
2505030120	Gasoline Distribution Stage I; Tank Trucks in Transit	16.02	0.00	0.00
2505040120	Gasoline Distribution Stage I; Bulk Terminals	411.30	0.00	0.00
Totals For: Bulk Gasoline Terminals		427.32	0.00	0.00
Sector: Commercial Cooking				
2302002100	Commercial Cooking: ConveyORIZED Charbroiling	8.83	0.00	29.59
2302002200	Commercial Cooking: Under-fired Charbroiling	27.09	0.00	88.70
2302003000	Commercial Cooking: Deep Fat Frying	4.63	0.00	0.00
2302003100	Commercial Cooking: Flat Griddle Frying	3.47	0.00	7.24

Table 3
2011 Typical High Ozone Summer Day Emissions (Lbs/Day) by County, Sector and SCC
For Area Sources

<u>Sec</u>	<u>Sec Description</u>	Area Source Daily Emissions		
		VOC	NO_x	CO
2302003200	Commercial Cooking: Clamshell Griddle Frying	0.12	0.00	0.00
Totals For: Commercial Cooking		44.14	0.00	125.53

Table 3
2011 Typical High Ozone Summer Day Emissions (Lbs/Day) by County, Sector and SCC
For Area Sources

<u>Sc</u>	<u>Sc Description</u>	Area Source Daily Emissions		
		VOC	NO_x	CO
Sector:	Commercial/ Institutional Fuel Combustion			
2103001000	Fuel Combustion; Commercial/Institutional; Anthra Coal	0.00	0.00	0.00
2103002000	Fuel Combustion; Commercial/Institutional; Bit Coal	0.00	0.00	0.00
2103004001	Fuel Combustion; Commercial/Institutional; Distillate Oil Boiler	1.02	60.19	15.05
2103004002	Fuel Combustion; Commercial/Institutional; Distillate Oil IC Engine	0.00	89.42	19.25
2103005000	Fuel Combustion; Commercial/Institutional; Residual Oil	0.34	16.45	1.50
2103006000	Fuel Combustion; Commercial/Institutional; Natural Gas	13.11	238.27	200.15
2103007000	Fuel Combustion; Commercial/Institutional; Liquified Petroleum Gas	0.58	15.77	8.83
2103008000	Fuel Combustion; Commercial/Institutional; Wood	0.00	0.00	0.00
2103011000	Fuel Combustion; Commercial/Institutional; Kerosene	0.01	0.43	0.11
Totals For:	Commercial/ Institutional Fuel Combustion	15.05	420.53	244.88
Sector:	Dust - Construction Dust			
2311010000	Construction - Residential	0.00	0.00	0.00
2311020000	Construction - Non-Residential	0.00	0.00	0.00
2311030000	Construction - Road	0.00	0.00	0.00
Totals For:	Dust - Construction Dust	0.00	0.00	0.00
Sector:	Dust - Paved Road Dust			
2294000000	Roads, Paved	0.00	0.00	0.00
Totals For:	Dust - Paved Road Dust	0.00	0.00	0.00
Sector:	Dust - Unpaved Road Dust			
2296000000	Roads, Unpaved	0.00	0.00	0.00
Totals For:	Dust - Unpaved Road Dust	0.00	0.00	0.00
Sector:	Event			
2810001000	Forest Wildfires	5.54	0.54	23.23
2811015000	Prescribed Forest Burning	0.00	0.00	0.00
Totals For:	Event	5.54	0.54	23.23
Sector:	Fires - Agricultural Field Burning			
2801500000	Agric - Crops /Field Burning - whole field set on fire /Unspecified crop type and Burn Method	0.00	0.00	0.00

Table 3
2011 Typical High Ozone Summer Day Emissions (Lbs/Day) by County, Sector and SCC
For Area Sources

		Area Source Daily Emissions (Lbs/Day)		
<u>Sec</u>	<u>Sec Description</u>	<u>VOC</u>	<u>NOx</u>	<u>CO</u>
Totals For: Fires - Agricultural Field Burning		0.00	0.00	0.00

**Table 3
2011 Typical High Ozone Summer Day Emissions (Lbs/Day) by County, Sector and SCC
For Area Sources**

Sec	Sec Description	Area Source Daily Emissions (Lbs/Day)		
		VOC	NOx	CO
Sector:	Gas Stations			
2201000062	Gasoline Distribution Stage II; Gasoline Service Stations, Stage 2	160.48	0.00	0.00
2202000062	Gasoline Distribution Stage II; Diesel Service Stations, Stage 2	10.31	0.00	0.00
2501060051	Gasoline Distribution Stage I; Gasoline Service Station Unloading Submerged filling	0.00	0.00	0.00
2501060052	Gasoline Distribution Stage I; Gasoline Service Station Unloading Splash filling	223.49	0.00	0.00
2501060053	Gasoline Distribution Stage I; Gasoline Service Station Unloading Balanced Submerged filling	161.75	0.00	0.00
2501060201	Gasoline Distribution Stage I; Underground storage tank, breathing and emptying	251.39	0.00	0.00
2501080050	Aviation Gasoline Distribution: Stage I	23.77	0.00	0.00
2501080100	Aviation Gasoline Distribution: Stage II	1.23	0.00	0.00
Totals For: Gas Stations		832.42	0.00	0.00
Sector:	INDUSTRIAL FUEL COMBUSTION			
2102001000	Fuel Combustion; Industrial; Anthr Coal	0.00	0.00	0.00
2102002000	Fuel Combustion; Industrial; Bit Coal	0.00	0.00	0.00
2102004001	Fuel Combustion; Industrial; Distillate oil Boiler	0.41	40.73	10.18
2102004002	Fuel Combustion; Industrial; Distillate oil IC Engine	0.00	25.55	5.50
2102005000	Fuel Combustion; Industrial; Residual Oil	0.04	7.78	0.71
2102006000	Fuel Combustion; Industrial; Natural Gas	6.13	111.39	93.57
2102007000	Fuel Combustion; Industrial; Liquified Petroleum Gas (LPG)	1.56	42.71	23.92
2102008000	Fuel Combustion; Industrial; Wood	0.00	0.00	0.00
2102011000	Fuel Combustion; Industrial; Kerosene	0.17	17.62	4.40
Totals For: INDUSTRIAL FUEL COMBUSTION		8.31	245.77	138.28
Sector:	Industrial Processes - Mining			
2325000000	Mining and Quarrying	0.00	0.00	0.00
Totals For: Industrial Processes - Mining		0.00	0.00	0.00

Table 3
2011 Typical High Ozone Summer Day Emissions (Lbs/Day) by County, Sector and SCC
For Area Sources

		Area Source Daily Emissions (Lbs/Day)		
<u>Sc</u>	<u>Sc Description</u>	VOC	NO_x	CO
Sector:	Industrial Processes - Storage and Transfer			
2501011011	portable fuel containers, residential, permeation	52.00	0.00	0.00
2501011012	portable fuel containers, residential, evaporation (includes diurnal losses)	101.54	0.00	0.00
2501011013	portable fuel containers, residential, spilling during transport	76.14	0.00	0.00
2501011014	portable fuel containers, residential, refilling at the pump, vapor displacement	21.85	0.00	0.00
2501011015	portable fuel containers, residential, refilling at the pump, spillage	2.51	0.00	0.00
2501012011	portable fuel containers, commercial, permeation	1.66	0.00	0.00
2501012012	portable fuel containers, commercial, evaporation (includes diurnal losses)	3.24	0.00	0.00
2501012013	portable fuel containers, commercial, spilling during transport	103.86	0.00	0.00
2501012014	portable fuel containers, commercial, refilling at the pump, vapor displacement	42.11	0.00	0.00
2501012015	portable fuel containers, commercial, refilling at the pump, spillage	4.82	0.00	0.00
Totals For: Industrial Processes - Storage and Transfer		409.73	0.00	0.00
Sector:	Miscellaneous Non-Industrial NEC			
2810060100	Cremation - Human	0.01	2.93	0.01
2810060200		0.00	0.00	0.00
2850001000	Dental Preparation and Use	0.00	0.00	0.00
2851001000	General Laboratory Activities	0.00	0.00	0.00
2861000000	Lamp Breakage (Landfill emissions)	0.00	0.00	0.00
2861000010	Lamp (Fluorescent) Recycling	0.00	0.00	0.00
Totals For: Miscellaneous Non-Industrial NEC		0.01	2.93	0.01

Table 3
2011 Typical High Ozone Summer Day Emissions (Lbs/Day) by County, Sector and SCC
For Area Sources

		Area Source Daily Emissions (Lbs/Day)		
<u>Sc</u>	<u>Sc Description</u>	<u>VOC</u>	<u>NOx</u>	<u>CO</u>
Sector:	Residential Heating			
2104001000	Residential Heating: Anthracite Coal	0.00	0.00	0.00
2104002000	Residential Heating: Bituminous Coal	0.00	0.00	0.00
2104004000	Residential Heating: Distillate Oil	13.36	343.51	95.42
2104006000	Residential Heating: Natural Gas	2.99	51.18	21.78
2104007000	Residential Heating: LPG	3.01	82.21	46.03
2104008100	Residential Heating: Fireplaces (cordwood)	0.00	0.00	0.00
2104008210	Residential Heating: Inserts non certified	0.00	0.00	0.00
2104008220	Residential Heating: Inserts EPA certified non-cat	0.00	0.00	0.00
2104008230	Residential Heating: Inserts EPA certified cat	0.00	0.00	0.00
2104008310	Residential Heating: free standing WS non certified	0.00	0.00	0.00
2104008320	Residential Heating: free standing WS EPA certified non-cat	0.00	0.00	0.00
2104008330	Residential Heating: free standing WS EPA certified cat	0.00	0.00	0.00
2104008400	Residential Heating: pellet stoves	0.00	0.00	0.00
2104008510	Residential Heating: furnace indoor	0.00	0.00	0.00
2104008610	Residential Heating: Hydronic heater: outdoor	0.00	0.00	0.00
2104008700	Residential Heating: Outdoor wood burning device, NEC	31.22	4.29	246.13
2104009000	Residential Heating: Firelog	0.00	0.00	0.00
2104011000	Residential Heating: Kerosene	0.10	2.69	0.75
Totals For: Residential Heating		50.69	483.88	410.10
Sector:	Solvent - Consumer & Commercial Solvent Use			
2460100000	C&C: Cosmetics and Toiletries	864.79	0.00	0.00
2460200000	C&C: Cleaning Products; Household	819.27	0.00	0.00
2460400000	C&C: Auto Aftermarket	619.01	0.00	0.00
2460500000	C&C: Coatings and Related Products	432.40	0.00	0.00
2460600000	C&C: adhesives and sealants	259.44	0.00	0.00
2460800000	C&C: FIFRA Regulated Products	810.18	0.00	0.00

Table 3
2011 Typical High Ozone Summer Day Emissions (Lbs/Day) by County, Sector and SCC
For Area Sources

Sec	Sec Description	Area Source Daily Emissions		
		(Lbs/Day)		
		VOC	NOx	CO
2460900000	C&C: Misc. Products (not otherwise covered)	31.86	0.00	0.00
2461021000	Cutback Asphalt	0.00	0.00	0.00
2461022000	Emulsified Asphalt	0.00	0.00	0.00
2461850000	Ag Pesticide	24.84	0.00	0.00

Table 3
2011 Typical High Ozone Summer Day Emissions (Lbs/Day) by County, Sector and SCC
For Area Sources

		Area Source Daily Emissions (Lbs/Day)		
<u>Sec</u>	<u>Sec Description</u>	<u>VOC</u>	<u>NOx</u>	<u>CO</u>
Totals For: Solvent - Consumer & Commercial Solvent Use		3,861.79	0.00	0.00
Sector:	Solvent - Degreasing			
2415000000	Degreasing	1,200.60	0.00	0.00
Totals For: Solvent - Degreasing		1,200.60	0.00	0.00
Sector:	Solvent - Dry Cleaning			
2420000000	Dry Cleaning	2.23	0.00	0.00
Totals For: Solvent - Dry Cleaning		2.23	0.00	0.00
Sector:	Solvent - Graphic Arts			
2425000000	Graphic Arts	135.93	0.00	0.00
Totals For: Solvent - Graphic Arts		135.93	0.00	0.00
Sector:	Solvent - Industrial Surface Coating & Solvent Use			
2401005000	Auto Refinishing SIC 7532	259.31	0.00	0.00
2401008000	Surface Coating - Traffic Markings	2.39	0.00	0.00
2401015000	Surface Coating - Factory Finished Wood: SIC 2426 thru 242	7.21	0.00	0.00
2401020000	Surface Coating - Wood Furniture	59.26	0.00	0.00
2401025000	Surface Coating - Metal Furniture: SIC 25	11.41	0.00	0.00
2401030000	Surface Coating - Paper, foil, and film	16.66	0.00	0.00
2401040000	Surface Coating - Metal Can Coating	610.33	0.00	0.00
2401045000	Surface Coating - Sheet, strip, and coil	0.00	0.00	0.00
2401055000	Surface Coating - Machinery and Equipment: SIC 35	74.08	0.00	0.00
2401060000	Surface Coating - Large Appliances: SIC 363	0.00	0.00	0.00
2401065000	Surface Coating - Electronic and other Electric Coatings	5.23	0.00	0.00
2401070000	Surface Coating - Motor Vehicles	346.55	0.00	0.00
2401075000	Surface Coating - Aircraft	63.86	0.00	0.00
2401080000	Surface Coating - Marine	9.75	0.00	0.00
2401085000	Surface Coating - Railroad	0.00	0.00	0.00
2401090000	Surface Coating - Miscellaneous Manufacturing	62.92	0.00	0.00

Table 3
2011 Typical High Ozone Summer Day Emissions (Lbs/Day) by County, Sector and SCC
For Area Sources

<u>Sec</u>	<u>Sec Description</u>	Area Source Daily Emissions		
		VOC	NO_x	CO
2401100000	Industrial Maintenance Coatings	95.58	0.00	0.00
2401200000	Other Special Purpose Coatings	40.78	0.00	0.00
Totals For: Solvent - Industrial Surface Coating & Solvent		1,665.33	0.00	0.00

Table 3
2011 Typical High Ozone Summer Day Emissions (Lbs/Day) by County, Sector and SCC
For Area Sources

		Area Source Daily Emissions (Lbs/Day)		
Scc	Scc Description	VOC	NOx	CO
Sector:	Solvent - Non-Industrial Surface Coating			
2401001000	Architectural Coatings	1,112.40	0.00	0.00
Totals For: Solvent - Non-Industrial Surface Coating		1,112.40	0.00	0.00
Sector:	Waste Disposal			
2610000100	Open Burning - Yard Waste - Leaves	0.00	0.00	0.00
2610000400	Open Burning - Yard Waste - Brush	9.64	2.54	71.05
2610000500	Open Burning - Land Clearing Debris	0.00	0.00	0.00
2610030000	Open Burning - Household Waste	94.95	66.55	942.86
2620030001		0.00	0.00	0.00
2630020000	Publically Owned Treatment Works (POTW)	24.05	0.00	0.00
2650000000		0.00	0.00	0.00
2650000002		0.00	0.00	0.00
Totals For: Waste Disposal		128.64	69.09	1,013.91
Totals For:	Middlesex County	9,900.12	1,222.75	1,955.95

Table 3
2011 Typical High Ozone Summer Day Emissions (Lbs/Day) by County, Sector and SCC
For Area Sources

New Haven	County	Sector	SCC	SCC Description	Area Source Daily Emissions (Lbs/Day)		
					VOC	NOx	CO
		Agriculture - Crops & Livestock Dust					
			2801000003	Agricultural Tilling	0.00	0.00	0.00
		Totals For: Agriculture - Crops & Livestock Dust			0.00	0.00	0.00
		Agriculture - Fertilizer Application					
			2801700001	Fertilizer Application; Anhydrous Ammonia	0.00	0.00	0.00
			2801700002	Fertilizer Application; Aqueous Ammonia	0.00	0.00	0.00
			2801700003	Fertilizer Application; Nitrogen Solutions	0.00	0.00	0.00
			2801700004	Fertilizer Application; Urea	0.00	0.00	0.00
			2801700005	Fertilizer Application; Ammonium Nitrate	0.00	0.00	0.00
			2801700006	Fertilizer Application; Ammonium Sulfate	0.00	0.00	0.00
			2801700007	Fertilizer Application; Ammonium Thiosulfate	0.00	0.00	0.00
			2801700010	Fertilizer Application; N-P-K (mult-grade nutrient fertilizers)	0.00	0.00	0.00
			2801700011	Fertilizer Application; Calcium Ammonium Nitrate	0.00	0.00	0.00
			2801700012	Fertilizer Application; Potassium Nitrate	0.00	0.00	0.00
			2801700013	Fertilizer Application; Diammonium Phosphate	0.00	0.00	0.00
			2801700014	Fertilizer Application; Monoammonium Phosphate	0.00	0.00	0.00
			2801700015	Fertilizer Application; Liquid Ammonium Polyphosphate	0.00	0.00	0.00
			2801700099	Fertilizer Application; Miscellaneous Fertilizers	0.00	0.00	0.00
		Totals For: Agriculture - Fertilizer Application			0.00	0.00	0.00

Table 3
2011 Typical High Ozone Summer Day Emissions (Lbs/Day) by County, Sector and SCC
For Area Sources

Sector:	Scc	Scc Description	Area Source Daily Emissions (Lbs/Day)		
			VOC	NOx	CO
		Agriculture - Livestock Waste			
	2805001100	Beef cattle - finishing operations on feedlots (drylots); Confinement	0.00	0.00	0.00
	2805001200	Beef cattle - finishing operations on feedlots (drylots); Manure handling and storage	0.00	0.00	0.00
	2805001300	Beef cattle - finishing operations on feedlots (drylots); Land application of manure	0.00	0.00	0.00
	2805002000	Beef cattle production composite; Not Elsewhere Classified	0.00	0.00	0.00
	2805003100	Beef cattle - finishing operations on pasture/range :Confinement	0.00	0.00	0.00
	2805007100	Poultry production - layers with dry manure management systems; Confinement	0.00	0.00	0.00
	2805007300	Poultry production - layers with dry manure management systems; Land application of manure	0.00	0.00	0.00
	2805008100	Poultry production - layers with wet manure management systems; Confinement	0.00	0.00	0.00
	2805008200	Poultry production - layers with wet manure management systems; Manure handling and storage	0.00	0.00	0.00
	2805008300	Poultry production - layers with wet manure management systems :Land application of manure	0.00	0.00	0.00
	2805009100	Poultry production - broilers; Confinement	0.00	0.00	0.00
	2805009200	Poultry production - broilers; manure handling and storage	0.00	0.00	0.00
	2805009300	Poultry production - broilers; Land Application and storage	0.00	0.00	0.00
	2805010100	Poultry production - turkeys; Confinement	0.00	0.00	0.00
	2805010200	Poultry production - turkeys; Manure handling and storage	0.00	0.00	0.00
	2805010300	Poultry production - turkeys; Land application and storage	0.00	0.00	0.00
	2805018000	Dairy cattle composite; Not Elsewhere Classified	0.00	0.00	0.00
	2805019100	Dairy cattle - flush dairy; Confinement	0.00	0.00	0.00
	2805019200	Dairy cattle - flush dairy; Manure handling and storage	0.00	0.00	0.00
	2805019300	Dairy cattle - flush dairy; Land application of manure	0.00	0.00	0.00
	2805021100	Dairy cattle - scrape dairy; Confinement	0.00	0.00	0.00
	2805021200	Dairy cattle - scrape dairy; Manure handling and storage	0.00	0.00	0.00
	2805021300	Dairy cattle - scrape dairy; Land application of manure	0.00	0.00	0.00
	2805022100	Dairy cattle - deep pit dairy; Confinement	0.00	0.00	0.00
	2805022200	Dairy cattle - deep pit dairy; Manure handling and storage	0.00	0.00	0.00
	2805022300	Dairy cattle - deep pit dairy; Land application of manure	0.00	0.00	0.00

Table 3
2011 Typical High Ozone Summer Day Emissions (Lbs/Day) by County, Sector and SCC
For Area Sources

<u>Sc</u>	<u>Sc Description</u>	Area Source Daily Emissions (Lbs/Day)		
		<u>VOC</u>	<u>NO_x</u>	<u>CO</u>
2805023100	Dairy cattle - drylot/pasture dairy; Confinement	0.00	0.00	0.00
2805023200	Dairy cattle - drylot/pasture dairy; Manure handling and storage	0.00	0.00	0.00
2805023300	Dairy cattle - drylot/pasture dairy; Land application of manure	0.00	0.00	0.00
2805025000	Swine production composite; Not Elsewhere Classified	0.00	0.00	0.00

Table 3
2011 Typical High Ozone Summer Day Emissions (Lbs/Day) by County, Sector and SCC
For Area Sources

<u>Sc</u>	<u>Sc Description</u>	Area Source Daily Emissions		
		VOC	NO_x	CO
2805030000	Poultry Waste Emissions; Not Elsewhere Classified	0.00	0.00	0.00
2805030007	Poultry Waste Emissions; Ducks	0.00	0.00	0.00
2805030008	Poultry Waste Emissions; Geese	0.00	0.00	0.00
2805035000	Horses and Ponies Waste Emissions; Not Elsewhere Classified	0.00	0.00	0.00
2805039100	Swine production - operations with lagoons (unspecified animal age); Confinement	0.00	0.00	0.00
2805039200	Swine production - operations with lagoons (unspecified animal age); Manure handling and storage	0.00	0.00	0.00
2805039300	Swine production - operations with lagoons (unspecified animal age); Land application of manure	0.00	0.00	0.00
2805040000	Sheep and Lambs Waste Emissions; Total	0.00	0.00	0.00
2805045000	Goats Waste Emissions; Not Elsewhere Classified	0.00	0.00	0.00
2805047100	Swine production - deep-pit house operations (unspecified animal age); Confinement	0.00	0.00	0.00
2805047300	Swine production - deep-pit house operations (unspecified animal age); Land application of manure	0.00	0.00	0.00
2805053100	Swine production - outdoor operations (unspecified animal age); Confinement	0.00	0.00	0.00
Totals For: Agriculture - Livestock Waste		0.00	0.00	0.00
Sector: Aircraft				
2275087000	In-flight (non-Landing-Takeoff cycle) Lead Emissions	0.00	0.00	0.00
Totals For: Aircraft		0.00	0.00	0.00
Sector: Bulk Gasoline Terminals				
2501050120	Gasoline Distribution Stage I; Bulk Terminals	0.00	0.00	0.00
2501055120	Gasoline Distribution Stage I; Bulk Plants	0.00	0.00	0.00
2505030120	Gasoline Distribution Stage I; Tank Trucks in Transit	61.43	0.00	0.00
2505040120	Gasoline Distribution Stage I; Bulk Terminals	1,135.29	0.00	0.00
Totals For: Bulk Gasoline Terminals		1,196.72	0.00	0.00
Sector: Commercial Cooking				
2302002100	Commercial Cooking: ConveyORIZED Charbroiling	37.86	0.00	126.43
2302002200	Commercial Cooking: Under-fired Charbroiling	127.98	0.00	418.64
2302003000	Commercial Cooking: Deep Fat Frying	20.03	0.00	0.00
2302003100	Commercial Cooking: Flat Griddle Frying	16.60	0.00	34.37

Table 3
2011 Typical High Ozone Summer Day Emissions (Lbs/Day) by County, Sector and SCC
For Area Sources

<u>Sec</u>	<u>Sec Description</u>	Area Source Daily Emissions (Lbs/Day)		
		VOC	NOx	CO
2302003200	Commercial Cooking: Clamshell Griddle Frying	0.65	0.00	0.00
Totals For: Commercial Cooking		203.12	0.00	579.44

Table 3
2011 Typical High Ozone Summer Day Emissions (Lbs/Day) by County, Sector and SCC
For Area Sources

<u>Sec</u>	<u>Sec Description</u>	Area Source Daily Emissions		
		VOC	NOx	CO
Sector:	Commercial/ Institutional Fuel Combustion			
2103001000	Fuel Combustion; Commercial/Institutional; Anthra Coal	0.00	0.00	0.00
2103002000	Fuel Combustion; Commercial/Institutional; Bit Coal	0.00	0.00	0.00
2103004001	Fuel Combustion; Commercial/Institutional; Distillate Oil Boiler	5.74	337.76	84.44
2103004002	Fuel Combustion; Commercial/Institutional; Distillate Oil IC Engine	0.00	501.82	108.01
2103005000	Fuel Combustion; Commercial/Institutional; Residual Oil	1.90	92.30	8.39
2103006000	Fuel Combustion; Commercial/Institutional; Natural Gas	73.54	1,337.16	1,123.21
2103007000	Fuel Combustion; Commercial/Institutional; Liquified Petroleum Gas	3.23	88.51	49.57
2103008000	Fuel Combustion; Commercial/Institutional; Wood	0.00	0.00	0.00
2103011000	Fuel Combustion; Commercial/Institutional; Kerosene	0.04	2.40	0.60
Totals For:	Commercial/ Institutional Fuel Combustion	84.46	2,359.96	1,374.23
Sector:	Dust - Construction Dust			
2311010000	Construction - Residential	0.00	0.00	0.00
2311020000	Construction - Non-Residential	0.00	0.00	0.00
2311030000	Construction - Road	0.00	0.00	0.00
Totals For:	Dust - Construction Dust	0.00	0.00	0.00
Sector:	Dust - Paved Road Dust			
2294000000	Roads, Paved	0.00	0.00	0.00
Totals For:	Dust - Paved Road Dust	0.00	0.00	0.00
Sector:	Dust - Unpaved Road Dust			
2296000000	Roads, Unpaved	0.00	0.00	0.00
Totals For:	Dust - Unpaved Road Dust	0.00	0.00	0.00
Sector:	Event			
2810001000	Forest Wildfires	21.19	1.68	89.26
2811015000	Prescribed Forest Burning	0.00	0.00	0.00
Totals For:	Event	21.19	1.68	89.26
Sector:	Fires - Agricultural Field Burning			
2801500000	Agric - Crops /Field Burning - whole field set on fire /Unspecified crop type and Burn Method	0.00	0.00	0.00

Table 3
2011 Typical High Ozone Summer Day Emissions (Lbs/Day) by County, Sector and SCC
For Area Sources

<u>Sec</u>	<u>Sec Description</u>	Area Source Daily Emissions (Lbs/Day)		
		<u>VOC</u>	<u>NOx</u>	<u>CO</u>
Totals For:	Fires - Agricultural Field Burning	0.00	0.00	0.00

Table 3
2011 Typical High Ozone Summer Day Emissions (Lbs/Day) by County, Sector and SCC
For Area Sources

Sec	Sec Description	Area Source Daily Emissions (Lbs/Day)		
		VOC	NO_x	CO
Sector:	Gas Stations			
2201000062	Gasoline Distribution Stage II; Gasoline Service Stations, Stage 2	686.73	0.00	0.00
2202000062	Gasoline Distribution Stage II; Diesel Service Stations, Stage 2	43.77	0.00	0.00
2501060051	Gasoline Distribution Stage I; Gasoline Service Station Unloading Submerged filling	0.00	0.00	0.00
2501060052	Gasoline Distribution Stage I; Gasoline Service Station Unloading Splash filling	857.83	0.00	0.00
2501060053	Gasoline Distribution Stage I; Gasoline Service Station Unloading Balanced Submerged filling	620.85	0.00	0.00
2501060201	Gasoline Distribution Stage I; Underground storage tank, breathing and emptying	963.77	0.00	0.00
2501080050	Aviation Gasoline Distribution: Stage I	77.14	0.00	0.00
2501080100	Aviation Gasoline Distribution: Stage II	4.00	0.00	0.00
Totals For: Gas Stations		3,254.10	0.00	0.00
Sector:	INDUSTRIAL FUEL COMBUSTION			
2102001000	Fuel Combustion; Industrial; Anthr Coal	0.00	0.00	0.00
2102002000	Fuel Combustion; Industrial; Bit Coal	0.00	0.00	0.00
2102004001	Fuel Combustion; Industrial; Distillate oil Boiler	1.65	164.57	41.14
2102004002	Fuel Combustion; Industrial; Distillate oil IC Engine	0.00	103.25	22.22
2102005000	Fuel Combustion; Industrial; Residual Oil	0.16	31.42	2.86
2102006000	Fuel Combustion; Industrial; Natural Gas	24.76	450.10	378.09
2102007000	Fuel Combustion; Industrial; Liquified Petroleum Gas (LPG)	6.31	172.57	96.65
2102008000	Fuel Combustion; Industrial; Wood	0.00	0.00	0.00
2102011000	Fuel Combustion; Industrial; Kerosene	0.70	71.20	17.79
Totals For: INDUSTRIAL FUEL COMBUSTION		33.57	993.11	558.75
Sector:	Industrial Processes - Mining			
2325000000	Mining and Quarrying	0.00	0.00	0.00
Totals For: Industrial Processes - Mining		0.00	0.00	0.00

Table 3
2011 Typical High Ozone Summer Day Emissions (Lbs/Day) by County, Sector and SCC
For Area Sources

<u>Sec</u>	<u>Sec Description</u>	Area Source Daily Emissions		
		VOC	NO_x	CO
Sector:	Industrial Processes - Storage and Transfer			
2501011011	portable fuel containers, residential, permeation	222.10	0.00	0.00
2501011012	portable fuel containers, residential, evaporation (includes diurnal losses)	433.65	0.00	0.00
2501011013	portable fuel containers, residential, spilling during transport	325.17	0.00	0.00
2501011014	portable fuel containers, residential, refilling at the pump, vapor displacement	93.32	0.00	0.00
2501011015	portable fuel containers, residential, refilling at the pump, spillage	10.70	0.00	0.00
2501012011	portable fuel containers, commercial, permeation	7.09	0.00	0.00
2501012012	portable fuel containers, commercial, evaporation (includes diurnal losses)	13.85	0.00	0.00
2501012013	portable fuel containers, commercial, spilling during transport	443.59	0.00	0.00
2501012014	portable fuel containers, commercial, refilling at the pump, vapor displacement	179.84	0.00	0.00
2501012015	portable fuel containers, commercial, refilling at the pump, spillage	20.59	0.00	0.00
Totals For:	Industrial Processes - Storage and Transfer	1,749.91	0.00	0.00
Sector:	Miscellaneous Non-Industrial NEC			
2810060100	Cremation - Human	0.05	15.06	0.07
2810060200		0.00	0.00	0.00
2850001000	Dental Preparation and Use	0.00	0.00	0.00
2851001000	General Laboratory Activities	0.00	0.00	0.00
2861000000	Lamp Breakage (Landfill emissions)	0.00	0.00	0.00
2861000010	Lamp (Fluorescent) Recycling	0.00	0.00	0.00
Totals For:	Miscellaneous Non-Industrial NEC	0.05	15.06	0.07

Table 3
2011 Typical High Ozone Summer Day Emissions (Lbs/Day) by County, Sector and SCC
For Area Sources

		Area Source Daily Emissions (Lbs/Day)		
Sec	Sec Description	VOC	NOx	CO
Sector:	Residential Heating			
2104001000	Residential Heating: Anthracite Coal	0.00	0.00	0.00
2104002000	Residential Heating: Bituminous Coal	0.00	0.00	0.00
2104004000	Residential Heating: Distillate Oil	52.08	1,339.32	372.03
2104006000	Residential Heating: Natural Gas	51.22	875.48	372.54
2104007000	Residential Heating: LPG	10.01	273.06	152.89
2104008100	Residential Heating: Fireplaces (cordwood)	0.00	0.00	0.00
2104008210	Residential Heating: Inserts non certified	0.00	0.00	0.00
2104008220	Residential Heating: Inserts EPA certified non-cat	0.00	0.00	0.00
2104008230	Residential Heating: Inserts EPA certified cat	0.00	0.00	0.00
2104008310	Residential Heating: free standing WS non certified	0.00	0.00	0.00
2104008320	Residential Heating: free standing WS EPA certified non-cat	0.00	0.00	0.00
2104008330	Residential Heating: free standing WS EPA certified cat	0.00	0.00	0.00
2104008400	Residential Heating: pellet stoves	0.00	0.00	0.00
2104008510	Residential Heating: furnace indoor	0.00	0.00	0.00
2104008610	Residential Heating: Hydronic heater: outdoor	0.00	0.00	0.00
2104008700	Residential Heating: Outdoor wood burning device, NEC	53.27	7.33	419.93
2104009000	Residential Heating: Firelog	0.00	0.00	0.00
2104011000	Residential Heating: Kerosene	0.41	10.48	2.91
Totals For: Residential Heating		167.00	2,505.66	1,320.31
Sector:	Solvent - Consumer & Commercial Solvent Use			
2460100000	C&C: Cosmetics and Toiletries	4,501.95	0.00	0.00
2460200000	C&C: Cleaning Products; Household	4,265.00	0.00	0.00
2460400000	C&C: Auto Aftermarket	3,222.45	0.00	0.00
2460500000	C&C: Coatings and Related Products	2,250.97	0.00	0.00
2460600000	C&C: adhesives and sealants	1,350.58	0.00	0.00
2460800000	C&C: FIFRA Regulated Products	4,217.61	0.00	0.00

Table 3
2011 Typical High Ozone Summer Day Emissions (Lbs/Day) by County, Sector and SCC
For Area Sources

Sec	Sec Description	Area Source Daily Emissions		
		(Lbs/Day)		
		VOC	NO_x	CO
2460900000	C&C: Misc. Products (not otherwise covered)	165.86	0.00	0.00
2461021000	Cutback Asphalt	0.00	0.00	0.00
2461022000	Emulsified Asphalt	0.00	0.00	0.00
2461850000	Ag Pesticide	162.48	0.00	0.00

**Table 3
2011 Typical High Ozone Summer Day Emissions (Lbs/Day) by County, Sector and SCC
For Area Sources**

		Area Source Daily Emissions (Lbs/Day)		
<u>Sec</u>	<u>Sec Description</u>	<u>VOC</u>	<u>NOx</u>	<u>CO</u>
Totals For: Solvent - Consumer & Commercial Solvent Use		20,136.90	0.00	0.00
Sector:	Solvent - Degreasing			
2415000000	Degreasing	4,542.92	0.00	0.00
Totals For: Solvent - Degreasing		4,542.92	0.00	0.00
Sector:	Solvent - Dry Cleaning			
2420000000	Dry Cleaning	15.63	0.00	0.00
Totals For: Solvent - Dry Cleaning		15.63	0.00	0.00
Sector:	Solvent - Graphic Arts			
2425000000	Graphic Arts	1,347.08	0.00	0.00
Totals For: Solvent - Graphic Arts		1,347.08	0.00	0.00
Sector:	Solvent - Industrial Surface Coating & Solvent Use			
2401005000	Auto Refinishing SIC 7532	1,496.10	0.00	0.00
2401008000	Surface Coating - Traffic Markings	6.68	0.00	0.00
2401015000	Surface Coating - Factory Finished Wood: SIC 2426 thru 242	55.47	0.00	0.00
2401020000	Surface Coating - Wood Furniture	492.82	0.00	0.00
2401025000	Surface Coating - Metal Furniture: SIC 25	140.18	0.00	0.00
2401030000	Surface Coating - Paper, foil, and film	66.58	0.00	0.00
2401040000	Surface Coating - Metal Can Coating	1,050.58	0.00	0.00
2401045000	Surface Coating - Sheet, strip, and coil	0.00	0.00	0.00
2401055000	Surface Coating - Machinery and Equipment: SIC 35	79.61	0.00	0.00
2401060000	Surface Coating - Large Appliances: SIC 363	0.00	0.00	0.00
2401065000	Surface Coating - Electronic and other Electric Coatings	86.71	0.00	0.00
2401070000	Surface Coating - Motor Vehicles	655.38	0.00	0.00
2401075000	Surface Coating - Aircraft	62.80	0.00	0.00
2401080000	Surface Coating - Marine	57.34	0.00	0.00
2401085000	Surface Coating - Railroad	6.70	0.00	0.00
2401090000	Surface Coating - Miscellaneous Manufacturing	1,232.66	0.00	0.00

Table 3
2011 Typical High Ozone Summer Day Emissions (Lbs/Day) by County, Sector and SCC
For Area Sources

<u>Sec</u>	<u>Sec Description</u>	Area Source Daily Emissions		
		VOC	NO_x	CO
2401100000	Industrial Maintenance Coatings	497.58	0.00	0.00
2401200000	Other Special Purpose Coatings	212.30	0.00	0.00
Totals For: Solvent - Industrial Surface Coating & Solvent		6,199.47	0.00	0.00

Table 3
2011 Typical High Ozone Summer Day Emissions (Lbs/Day) by County, Sector and SCC
For Area Sources

		Area Source Daily Emissions (Lbs/Day)		
<u>Sc</u>	<u>Sc Description</u>	<u>VOC</u>	<u>NO_x</u>	<u>CO</u>
Sector:	Solvent - Non-Industrial Surface Coating			
2401001000	Architectural Coatings	5,790.93	0.00	0.00
Totals For: Solvent - Non-Industrial Surface Coating		5,790.93	0.00	0.00
Sector:	Waste Disposal			
2610000100	Open Burning - Yard Waste - Leaves	0.00	0.00	0.00
2610000400	Open Burning - Yard Waste - Brush	0.00	0.00	0.00
2610000500	Open Burning - Land Clearing Debris	0.00	0.00	0.00
2610030000	Open Burning - Household Waste	0.00	0.00	0.00
2620030001		0.00	0.00	0.00
2630020000	Publically Owned Treatment Works (POTW)	123.47	0.00	0.00
2650000000		0.00	0.00	0.00
2650000002		0.00	0.00	0.00
Totals For: Waste Disposal		123.47	0.00	0.00
Totals For:	New Haven County	44,866.51	5,875.47	3,922.06

Table 3
2011 Typical High Ozone Summer Day Emissions (Lbs/Day) by County, Sector and SCC
For Area Sources

New London	County	Sector	SCC	SCC Description	Area Source Daily Emissions (Lbs/Day)		
					VOC	NOx	CO
		Agriculture - Crops & Livestock Dust					
		2801000003		Agricultural Tilling	0.00	0.00	0.00
		Totals For: Agriculture - Crops & Livestock Dust			0.00	0.00	0.00
		Agriculture - Fertilizer Application					
		2801700001		Fertilizer Application; Anhydrous Ammonia	0.00	0.00	0.00
		2801700002		Fertilizer Application; Aqueous Ammonia	0.00	0.00	0.00
		2801700003		Fertilizer Application; Nitrogen Solutions	0.00	0.00	0.00
		2801700004		Fertilizer Application; Urea	0.00	0.00	0.00
		2801700005		Fertilizer Application; Ammonium Nitrate	0.00	0.00	0.00
		2801700006		Fertilizer Application; Ammonium Sulfate	0.00	0.00	0.00
		2801700007		Fertilizer Application; Ammonium Thiosulfate	0.00	0.00	0.00
		2801700010		Fertilizer Application; N-P-K (mult-grade nutrient fertilizers)	0.00	0.00	0.00
		2801700011		Fertilizer Application; Calcium Ammonium Nitrate	0.00	0.00	0.00
		2801700012		Fertilizer Application; Potassium Nitrate	0.00	0.00	0.00
		2801700013		Fertilizer Application; Diammonium Phosphate	0.00	0.00	0.00
		2801700014		Fertilizer Application; Monoammonium Phosphate	0.00	0.00	0.00
		2801700015		Fertilizer Application; Liquid Ammonium Polyphosphate	0.00	0.00	0.00
		2801700099		Fertilizer Application; Miscellaneous Fertilizers	0.00	0.00	0.00
		Totals For: Agriculture - Fertilizer Application			0.00	0.00	0.00

Table 3
2011 Typical High Ozone Summer Day Emissions (Lbs/Day) by County, Sector and SCC
For Area Sources

Sector:	Scs	Scs Description	Area Source Daily Emissions		
			VOC	NOx	CO
		Agriculture - Livestock Waste			
	2805001100	Beef cattle - finishing operations on feedlots (drylots); Confinement	0.00	0.00	0.00
	2805001200	Beef cattle - finishing operations on feedlots (drylots); Manure handling and storage	0.00	0.00	0.00
	2805001300	Beef cattle - finishing operations on feedlots (drylots); Land application of manure	0.00	0.00	0.00
	2805002000	Beef cattle production composite; Not Elsewhere Classified	0.00	0.00	0.00
	2805003100	Beef cattle - finishing operations on pasture/range :Confinement	0.00	0.00	0.00
	2805007100	Poultry production - layers with dry manure management systems; Confinement	0.00	0.00	0.00
	2805007300	Poultry production - layers with dry manure management systems; Land application of manure	0.00	0.00	0.00
	2805008100	Poultry production - layers with wet manure management systems; Confinement	0.00	0.00	0.00
	2805008200	Poultry production - layers with wet manure management systems; Manure handling and storage	0.00	0.00	0.00
	2805008300	Poultry production - layers with wet manure management systems :Land application of manure	0.00	0.00	0.00
	2805009100	Poultry production - broilers; Confinement	0.00	0.00	0.00
	2805009200	Poultry production - broilers; manure handling and storage	0.00	0.00	0.00
	2805009300	Poultry production - broilers; Land Application and storage	0.00	0.00	0.00
	2805010100	Poultry production - turkeys; Confinement	0.00	0.00	0.00
	2805010200	Poultry production - turkeys; Manure handling and storage	0.00	0.00	0.00
	2805010300	Poultry production - turkeys; Land application and storage	0.00	0.00	0.00
	2805018000	Dairy cattle composite; Not Elsewhere Classified	0.00	0.00	0.00
	2805019100	Dairy cattle - flush dairy; Confinement	0.00	0.00	0.00
	2805019200	Dairy cattle - flush dairy; Manure handling and storage	0.00	0.00	0.00
	2805019300	Dairy cattle - flush dairy; Land application of manure	0.00	0.00	0.00
	2805021100	Dairy cattle - scrape dairy; Confinement	0.00	0.00	0.00
	2805021200	Dairy cattle - scrape dairy; Manure handling and storage	0.00	0.00	0.00
	2805021300	Dairy cattle - scrape dairy; Land application of manure	0.00	0.00	0.00
	2805022100	Dairy cattle - deep pit dairy; Confinement	0.00	0.00	0.00
	2805022200	Dairy cattle - deep pit dairy; Manure handling and storage	0.00	0.00	0.00
	2805022300	Dairy cattle - deep pit dairy; Land application of manure	0.00	0.00	0.00

Table 3
2011 Typical High Ozone Summer Day Emissions (Lbs/Day) by County, Sector and SCC
For Area Sources

<u>Sec</u>	<u>Sec Description</u>	Area Source Daily Emissions (Lbs/Day)		
		VOC	NO_x	CO
2805023100	Dairy cattle - drylot/pasture dairy; Confinement	0.00	0.00	0.00
2805023200	Dairy cattle - drylot/pasture dairy; Manure handling and storage	0.00	0.00	0.00
2805023300	Dairy cattle - drylot/pasture dairy; Land application of manure	0.00	0.00	0.00
2805025000	Swine production composite; Not Elsewhere Classified	0.00	0.00	0.00

Table 3
2011 Typical High Ozone Summer Day Emissions (Lbs/Day) by County, Sector and SCC
For Area Sources

<u>Sc</u>	<u>Sc Description</u>	Area Source Daily Emissions		
		(Lbs/Day)		
		VOC	NO_x	CO
2805030000	Poultry Waste Emissions; Not Elsewhere Classified	0.00	0.00	0.00
2805030007	Poultry Waste Emissions; Ducks	0.00	0.00	0.00
2805030008	Poultry Waste Emissions; Geese	0.00	0.00	0.00
2805035000	Horses and Ponies Waste Emissions; Not Elsewhere Classified	0.00	0.00	0.00
2805039100	Swine production - operations with lagoons (unspecified animal age); Confinement	0.00	0.00	0.00
2805039200	Swine production - operations with lagoons (unspecified animal age); Manure handling and storage	0.00	0.00	0.00
2805039300	Swine production - operations with lagoons (unspecified animal age); Land application of manure	0.00	0.00	0.00
2805040000	Sheep and Lambs Waste Emissions; Total	0.00	0.00	0.00
2805045000	Goats Waste Emissions; Not Elsewhere Classified	0.00	0.00	0.00
2805047100	Swine production - deep-pit house operations (unspecified animal age); Confinement	0.00	0.00	0.00
2805047300	Swine production - deep-pit house operations (unspecified animal age); Land application of manure	0.00	0.00	0.00
2805053100	Swine production - outdoor operations (unspecified animal age); Confinement	0.00	0.00	0.00
Totals For: Agriculture - Livestock Waste		0.00	0.00	0.00
Sector: Aircraft				
2275087000	In-flight (non-Landing-Takeoff cycle) Lead Emissions	0.00	0.00	0.00
Totals For: Aircraft		0.00	0.00	0.00
Sector: Bulk Gasoline Terminals				
2501050120	Gasoline Distribution Stage I; Bulk Terminals	0.00	0.00	0.00
2501055120	Gasoline Distribution Stage I; Bulk Plants	0.00	0.00	0.00
2505030120	Gasoline Distribution Stage I; Tank Trucks in Transit	28.19	0.00	0.00
2505040120	Gasoline Distribution Stage I; Bulk Terminals	927.77	0.00	0.00
Totals For: Bulk Gasoline Terminals		955.96	0.00	0.00
Sector: Commercial Cooking				
2302002100	Commercial Cooking: ConveyORIZED Charbroiling	11.64	0.00	38.94
2302002200	Commercial Cooking: Under-fired Charbroiling	35.24	0.00	115.41
2302003000	Commercial Cooking: Deep Fat Frying	5.99	0.00	0.00
2302003100	Commercial Cooking: Flat Griddle Frying	4.64	0.00	9.55

Table 3
2011 Typical High Ozone Summer Day Emissions (Lbs/Day) by County, Sector and SCC
For Area Sources

<u>Sec</u>	<u>Sec Description</u>	Area Source Daily Emissions		
		VOC	NO_x	CO
2302003200	Commercial Cooking: Clamshell Griddle Frying	0.13	0.00	0.00
Totals For: Commercial Cooking		57.64	0.00	163.90

Table 3
2011 Typical High Ozone Summer Day Emissions (Lbs/Day) by County, Sector and SCC
For Area Sources

		Area Source Daily Emissions (Lbs/Day)		
<u>Sc</u>	<u>Sc Description</u>	<u>VOC</u>	<u>NOx</u>	<u>CO</u>
Sector:	Commercial/ Institutional Fuel Combustion			
2103001000	Fuel Combustion; Commercial/Institutional; Anthra Coal	0.00	0.00	0.00
2103002000	Fuel Combustion; Commercial/Institutional; Bit Coal	0.00	0.00	0.00
2103004001	Fuel Combustion; Commercial/Institutional; Distillate Oil Boiler	1.82	107.12	26.78
2103004002	Fuel Combustion; Commercial/Institutional; Distillate Oil IC Engine	0.00	159.16	34.26
2103005000	Fuel Combustion; Commercial/Institutional; Residual Oil	0.60	29.28	2.66
2103006000	Fuel Combustion; Commercial/Institutional; Natural Gas	23.33	424.09	356.24
2103007000	Fuel Combustion; Commercial/Institutional; Liquified Petroleum Gas	1.03	28.07	15.72
2103008000	Fuel Combustion; Commercial/Institutional; Wood	0.00	0.00	0.00
2103011000	Fuel Combustion; Commercial/Institutional; Kerosene	0.01	0.76	0.19
Totals For:	Commercial/ Institutional Fuel Combustion	26.79	748.48	435.85
Sector:	Dust - Construction Dust			
2311010000	Construction - Residential	0.00	0.00	0.00
2311020000	Construction - Non-Residential	0.00	0.00	0.00
2311030000	Construction - Road	0.00	0.00	0.00
Totals For:	Dust - Construction Dust	0.00	0.00	0.00
Sector:	Dust - Paved Road Dust			
2294000000	Roads, Paved	0.00	0.00	0.00
Totals For:	Dust - Paved Road Dust	0.00	0.00	0.00
Sector:	Dust - Unpaved Road Dust			
2296000000	Roads, Unpaved	0.00	0.00	0.00
Totals For:	Dust - Unpaved Road Dust	0.00	0.00	0.00
Sector:	Event			
2810001000	Forest Wildfires	19.33	1.55	81.41
2811015000	Prescribed Forest Burning	0.00	0.00	0.00
Totals For:	Event	19.33	1.55	81.41
Sector:	Fires - Agricultural Field Burning			
2801500000	Agric - Crops /Field Burning - whole field set on fire /Unspecified crop type and Burn Method	0.00	0.00	0.00

Table 3
2011 Typical High Ozone Summer Day Emissions (Lbs/Day) by County, Sector and SCC
For Area Sources

<u>Sec</u>	<u>Sec Description</u>	Area Source Daily Emissions (Lbs/Day)		
		VOC	NO _x	CO
Totals For:	Fires - Agricultural Field Burning	0.00	0.00	0.00

Table 3
2011 Typical High Ozone Summer Day Emissions (Lbs/Day) by County, Sector and SCC
For Area Sources

Sec	Sec Description	Area Source Daily Emissions (Lbs/Day)		
		VOC	NOx	CO
Sector:	Gas Stations			
2201000062	Gasoline Distribution Stage II; Gasoline Service Stations, Stage 2	260.68	0.00	0.00
2202000062	Gasoline Distribution Stage II; Diesel Service Stations, Stage 2	17.93	0.00	0.00
2501060051	Gasoline Distribution Stage I; Gasoline Service Station Unloading Submerged filling	0.00	0.00	0.00
2501060052	Gasoline Distribution Stage I; Gasoline Service Station Unloading Splash filling	393.70	0.00	0.00
2501060053	Gasoline Distribution Stage I; Gasoline Service Station Unloading Balanced Submerged filling	284.93	0.00	0.00
2501060201	Gasoline Distribution Stage I; Underground storage tank, breathing and emptying	442.31	0.00	0.00
2501080050	Aviation Gasoline Distribution: Stage I	104.09	0.00	0.00
2501080100	Aviation Gasoline Distribution: Stage II	5.40	0.00	0.00
Totals For: Gas Stations		1,509.04	0.00	0.00
Sector:	INDUSTRIAL FUEL COMBUSTION			
2102001000	Fuel Combustion; Industrial; Anthr Coal	0.00	0.00	0.00
2102002000	Fuel Combustion; Industrial; Bit Coal	0.00	0.00	0.00
2102004001	Fuel Combustion; Industrial; Distillate oil Boiler	0.56	55.93	13.98
2102004002	Fuel Combustion; Industrial; Distillate oil IC Engine	0.00	35.09	7.55
2102005000	Fuel Combustion; Industrial; Residual Oil	0.05	10.68	0.97
2102006000	Fuel Combustion; Industrial; Natural Gas	8.41	152.96	128.49
2102007000	Fuel Combustion; Industrial; Liquified Petroleum Gas (LPG)	2.14	58.64	32.85
2102008000	Fuel Combustion; Industrial; Wood	0.00	0.00	0.00
2102011000	Fuel Combustion; Industrial; Kerosene	0.24	24.20	6.05
Totals For: INDUSTRIAL FUEL COMBUSTION		11.41	337.49	189.88
Sector:	Industrial Processes - Mining			
2325000000	Mining and Quarrying	0.00	0.00	0.00
Totals For: Industrial Processes - Mining		0.00	0.00	0.00

Table 3
2011 Typical High Ozone Summer Day Emissions (Lbs/Day) by County, Sector and SCC
For Area Sources

		Area Source Daily Emissions (Lbs/Day)		
<u>Sc</u>	<u>Sc Description</u>	VOC	NO_x	CO
Sector:	Industrial Processes - Storage and Transfer			
2501011011	portable fuel containers, residential, permeation	56.06	0.00	0.00
2501011012	portable fuel containers, residential, evaporation (includes diurnal losses)	109.46	0.00	0.00
2501011013	portable fuel containers, residential, spilling during transport	82.08	0.00	0.00
2501011014	portable fuel containers, residential, refilling at the pump, vapor displacement	23.55	0.00	0.00
2501011015	portable fuel containers, residential, refilling at the pump, spillage	2.70	0.00	0.00
2501012011	portable fuel containers, commercial, permeation	1.79	0.00	0.00
2501012012	portable fuel containers, commercial, evaporation (includes diurnal losses)	3.50	0.00	0.00
2501012013	portable fuel containers, commercial, spilling during transport	111.97	0.00	0.00
2501012014	portable fuel containers, commercial, refilling at the pump, vapor displacement	45.39	0.00	0.00
2501012015	portable fuel containers, commercial, refilling at the pump, spillage	5.20	0.00	0.00
Totals For: Industrial Processes - Storage and Transfer		441.70	0.00	0.00
Sector:	Miscellaneous Non-Industrial NEC			
2810060100	Cremation - Human	0.02	4.71	0.02
2810060200		0.00	0.00	0.00
2850001000	Dental Preparation and Use	0.00	0.00	0.00
2851001000	General Laboratory Activities	0.00	0.00	0.00
2861000000	Lamp Breakage (Landfill emissions)	0.00	0.00	0.00
2861000010	Lamp (Fluorescent) Recycling	0.00	0.00	0.00
Totals For: Miscellaneous Non-Industrial NEC		0.02	4.71	0.02

Table 3
2011 Typical High Ozone Summer Day Emissions (Lbs/Day) by County, Sector and SCC
For Area Sources

		Area Source Daily Emissions (Lbs/Day)		
<u>Sc</u>	<u>Sc Description</u>	<u>VOC</u>	<u>NOx</u>	<u>CO</u>
Sector:	Residential Heating			
2104001000	Residential Heating: Anthracite Coal	0.00	0.00	0.00
2104002000	Residential Heating: Bituminous Coal	0.00	0.00	0.00
2104004000	Residential Heating: Distillate Oil	21.79	560.21	155.61
2104006000	Residential Heating: Natural Gas	5.13	87.72	37.33
2104007000	Residential Heating: LPG	5.18	141.19	79.05
2104008100	Residential Heating: Fireplaces (cordwood)	0.00	0.00	0.00
2104008210	Residential Heating: Inserts non certified	0.00	0.00	0.00
2104008220	Residential Heating: Inserts EPA certified non-cat	0.00	0.00	0.00
2104008230	Residential Heating: Inserts EPA certified cat	0.00	0.00	0.00
2104008310	Residential Heating: free standing WS non certified	0.00	0.00	0.00
2104008320	Residential Heating: free standing WS EPA certified non-cat	0.00	0.00	0.00
2104008330	Residential Heating: free standing WS EPA certified cat	0.00	0.00	0.00
2104008400	Residential Heating: pellet stoves	0.00	0.00	0.00
2104008510	Residential Heating: furnace indoor	0.00	0.00	0.00
2104008610	Residential Heating: Hydronic heater: outdoor	0.00	0.00	0.00
2104008700	Residential Heating: Outdoor wood burning device, NEC	15.50	2.13	122.20
2104009000	Residential Heating: Firelog	0.00	0.00	0.00
2104011000	Residential Heating: Kerosene	0.17	4.38	1.22
Totals For: Residential Heating		47.77	795.64	395.41
Sector:	Solvent - Consumer & Commercial Solvent Use			
2460100000	C&C: Cosmetics and Toiletries	1,430.51	0.00	0.00
2460200000	C&C: Cleaning Products; Household	1,355.22	0.00	0.00
2460400000	C&C: Auto Aftermarket	1,023.95	0.00	0.00
2460500000	C&C: Coatings and Related Products	715.25	0.00	0.00
2460600000	C&C: adhesives and sealants	429.15	0.00	0.00
2460800000	C&C: FIFRA Regulated Products	1,340.16	0.00	0.00

Table 3
2011 Typical High Ozone Summer Day Emissions (Lbs/Day) by County, Sector and SCC
For Area Sources

Sec	Sec Description	Area Source Daily Emissions		
		(Lbs/Day)		
		VOC	NO_x	CO
2460900000	C&C: Misc. Products (not otherwise covered)	52.70	0.00	0.00
2461021000	Cutback Asphalt	0.00	0.00	0.00
2461022000	Emulsified Asphalt	0.00	0.00	0.00
2461850000	Ag Pesticide	150.56	0.00	0.00

**Table 3
2011 Typical High Ozone Summer Day Emissions (Lbs/Day) by County, Sector and SCC
For Area Sources**

		Area Source Daily Emissions (Lbs/Day)		
<u>Sec</u>	<u>Sec Description</u>	<u>VOC</u>	<u>NOx</u>	<u>CO</u>
Totals For: Solvent - Consumer & Commercial Solvent Use		6,497.50	0.00	0.00
Sector:	Solvent - Degreasing			
2415000000	Degreasing	1,885.67	0.00	0.00
Totals For: Solvent - Degreasing		1,885.67	0.00	0.00
Sector:	Solvent - Dry Cleaning			
2420000000	Dry Cleaning	6.87	0.00	0.00
Totals For: Solvent - Dry Cleaning		6.87	0.00	0.00
Sector:	Solvent - Graphic Arts			
2425000000	Graphic Arts	275.63	0.00	0.00
Totals For: Solvent - Graphic Arts		275.63	0.00	0.00
Sector:	Solvent - Industrial Surface Coating & Solvent Use			
2401005000	Auto Refinishing SIC 7532	518.61	0.00	0.00
2401008000	Surface Coating - Traffic Markings	3.88	0.00	0.00
2401015000	Surface Coating - Factory Finished Wood: SIC 2426 thru 242	9.15	0.00	0.00
2401020000	Surface Coating - Wood Furniture	69.24	0.00	0.00
2401025000	Surface Coating - Metal Furniture: SIC 25	11.41	0.00	0.00
2401030000	Surface Coating - Paper, foil, and film	243.76	0.00	0.00
2401040000	Surface Coating - Metal Can Coating	0.00	0.00	0.00
2401045000	Surface Coating - Sheet, strip, and coil	0.00	0.00	0.00
2401055000	Surface Coating - Machinery and Equipment: SIC 35	66.73	0.00	0.00
2401060000	Surface Coating - Large Appliances: SIC 363	0.00	0.00	0.00
2401065000	Surface Coating - Electronic and other Electric Coatings	6.44	0.00	0.00
2401070000	Surface Coating - Motor Vehicles	27.00	0.00	0.00
2401075000	Surface Coating - Aircraft	6.58	0.00	0.00
2401080000	Surface Coating - Marine	5,278.04	0.00	0.00
2401085000	Surface Coating - Railroad	0.00	0.00	0.00
2401090000	Surface Coating - Miscellaneous Manufacturing	77.40	0.00	0.00

Table 3
2011 Typical High Ozone Summer Day Emissions (Lbs/Day) by County, Sector and SCC
For Area Sources

<u>Sec</u>	<u>Sec Description</u>	Area Source Daily Emissions		
		(Lbs/Day)		
		VOC	NO_x	CO
2401100000	Industrial Maintenance Coatings	158.11	0.00	0.00
2401200000	Other Special Purpose Coatings	67.46	0.00	0.00
Totals For: Solvent - Industrial Surface Coating & Solvent		6,543.81	0.00	0.00

Table 3
2011 Typical High Ozone Summer Day Emissions (Lbs/Day) by County, Sector and SCC
For Area Sources

		Area Source Daily Emissions (Lbs/Day)		
<u>Sec</u>	<u>Sec Description</u>	<u>VOC</u>	<u>NOx</u>	<u>CO</u>
Sector:	Solvent - Non-Industrial Surface Coating			
2401001000	Architectural Coatings	1,840.08	0.00	0.00
Totals For: Solvent - Non-Industrial Surface Coating		1,840.08	0.00	0.00
Sector:	Waste Disposal			
2610000100	Open Burning - Yard Waste - Leaves	0.00	0.00	0.00
2610000400	Open Burning - Yard Waste - Brush	16.77	4.41	123.60
2610000500	Open Burning - Land Clearing Debris	0.00	0.00	0.00
2610030000	Open Burning - Household Waste	165.18	115.78	1,640.25
2620030001		0.00	0.00	0.00
2630020000	Publically Owned Treatment Works (POTW)	38.60	0.00	0.00
2650000000		0.00	0.00	0.00
2650000002		0.00	0.00	0.00
Totals For: Waste Disposal		220.56	120.20	1,763.85
Totals For:	New London County	20,339.75	2,008.06	3,030.33

**Table 3
2011 Typical High Ozone Summer Day Emissions (Lbs/Day) by County, Sector and SCC
For Area Sources**

Tolland	Scc	Scc Description	Area Source Daily Emissions (Lbs/Day)		
			VOC	NOx	CO
		Sector: Agriculture - Crops & Livestock Dust			
	280100003	Agricultural Tilling	0.00	0.00	0.00
		Totals For: Agriculture - Crops & Livestock Dust	0.00	0.00	0.00
		Sector: Agriculture - Fertilizer Application			
	280170001	Fertilizer Application; Anhydrous Ammonia	0.00	0.00	0.00
	280170002	Fertilizer Application; Aqueous Ammonia	0.00	0.00	0.00
	280170003	Fertilizer Application; Nitrogen Solutions	0.00	0.00	0.00
	280170004	Fertilizer Application; Urea	0.00	0.00	0.00
	280170005	Fertilizer Application; Ammonium Nitrate	0.00	0.00	0.00
	280170006	Fertilizer Application; Ammonium Sulfate	0.00	0.00	0.00
	280170007	Fertilizer Application; Ammonium Thiosulfate	0.00	0.00	0.00
	280170010	Fertilizer Application; N-P-K (mult-grade nutrient fertilizers)	0.00	0.00	0.00
	280170011	Fertilizer Application; Calcium Ammonium Nitrate	0.00	0.00	0.00
	280170012	Fertilizer Application; Potassium Nitrate	0.00	0.00	0.00
	280170013	Fertilizer Application; Diammonium Phosphate	0.00	0.00	0.00
	280170014	Fertilizer Application; Monoammonium Phosphate	0.00	0.00	0.00
	280170015	Fertilizer Application; Liquid Ammonium Polyphosphate	0.00	0.00	0.00
	280170099	Fertilizer Application; Miscellaneous Fertilizers	0.00	0.00	0.00
		Totals For: Agriculture - Fertilizer Application	0.00	0.00	0.00

Table 3
2011 Typical High Ozone Summer Day Emissions (Lbs/Day) by County, Sector and SCC
For Area Sources

Sector:	Scs	Scs Description	Area Source Daily Emissions		
			VOC	NOx	CO
		Agriculture - Livestock Waste			
	2805001100	Beef cattle - finishing operations on feedlots (drylots); Confinement	0.00	0.00	0.00
	2805001200	Beef cattle - finishing operations on feedlots (drylots); Manure handling and storage	0.00	0.00	0.00
	2805001300	Beef cattle - finishing operations on feedlots (drylots); Land application of manure	0.00	0.00	0.00
	2805002000	Beef cattle production composite; Not Elsewhere Classified	0.00	0.00	0.00
	2805003100	Beef cattle - finishing operations on pasture/range :Confinement	0.00	0.00	0.00
	2805007100	Poultry production - layers with dry manure management systems; Confinement	0.00	0.00	0.00
	2805007300	Poultry production - layers with dry manure management systems; Land application of manure	0.00	0.00	0.00
	2805008100	Poultry production - layers with wet manure management systems; Confinement	0.00	0.00	0.00
	2805008200	Poultry production - layers with wet manure management systems; Manure handling and storage	0.00	0.00	0.00
	2805008300	Poultry production - layers with wet manure management systems :Land application of manure	0.00	0.00	0.00
	2805009100	Poultry production - broilers; Confinement	0.00	0.00	0.00
	2805009200	Poultry production - broilers; manure handling and storage	0.00	0.00	0.00
	2805009300	Poultry production - broilers; Land Application and storage	0.00	0.00	0.00
	2805010100	Poultry production - turkeys; Confinement	0.00	0.00	0.00
	2805010200	Poultry production - turkeys; Manure handling and storage	0.00	0.00	0.00
	2805010300	Poultry production - turkeys; Land application and storage	0.00	0.00	0.00
	2805018000	Dairy cattle composite; Not Elsewhere Classified	0.00	0.00	0.00
	2805019100	Dairy cattle - flush dairy; Confinement	0.00	0.00	0.00
	2805019200	Dairy cattle - flush dairy; Manure handling and storage	0.00	0.00	0.00
	2805019300	Dairy cattle - flush dairy; Land application of manure	0.00	0.00	0.00
	2805021100	Dairy cattle - scrape dairy; Confinement	0.00	0.00	0.00
	2805021200	Dairy cattle - scrape dairy; Manure handling and storage	0.00	0.00	0.00
	2805021300	Dairy cattle - scrape dairy; Land application of manure	0.00	0.00	0.00
	2805022100	Dairy cattle - deep pit dairy; Confinement	0.00	0.00	0.00
	2805022200	Dairy cattle - deep pit dairy; Manure handling and storage	0.00	0.00	0.00
	2805022300	Dairy cattle - deep pit dairy; Land application of manure	0.00	0.00	0.00

Table 3
2011 Typical High Ozone Summer Day Emissions (Lbs/Day) by County, Sector and SCC
For Area Sources

Sec	Sec Description	Area Source Daily Emissions (Lbs/Day)		
		VOC	NO_x	CO
2805023100	Dairy cattle - drylot/pasture dairy; Confinement	0.00	0.00	0.00
2805023200	Dairy cattle - drylot/pasture dairy; Manure handling and storage	0.00	0.00	0.00
2805023300	Dairy cattle - drylot/pasture dairy; Land application of manure	0.00	0.00	0.00
2805025000	Swine production composite; Not Elsewhere Classified	0.00	0.00	0.00

Table 3
2011 Typical High Ozone Summer Day Emissions (Lbs/Day) by County, Sector and SCC
For Area Sources

<u>Sc</u>	<u>Sc Description</u>	Area Source Daily Emissions (Lbs/Day)		
		VOC	NO _x	CO
2805030000	Poultry Waste Emissions; Not Elsewhere Classified	0.00	0.00	0.00
2805030007	Poultry Waste Emissions; Ducks	0.00	0.00	0.00
2805030008	Poultry Waste Emissions; Geese	0.00	0.00	0.00
2805035000	Horses and Ponies Waste Emissions; Not Elsewhere Classified	0.00	0.00	0.00
2805039100	Swine production - operations with lagoons (unspecified animal age); Confinement	0.00	0.00	0.00
2805039200	Swine production - operations with lagoons (unspecified animal age); Manure handling and storage	0.00	0.00	0.00
2805039300	Swine production - operations with lagoons (unspecified animal age); Land application of manure	0.00	0.00	0.00
2805040000	Sheep and Lambs Waste Emissions; Total	0.00	0.00	0.00
2805045000	Goats Waste Emissions; Not Elsewhere Classified	0.00	0.00	0.00
2805047100	Swine production - deep-pit house operations (unspecified animal age); Confinement	0.00	0.00	0.00
2805047300	Swine production - deep-pit house operations (unspecified animal age); Land application of manure	0.00	0.00	0.00
2805053100	Swine production - outdoor operations (unspecified animal age); Confinement	0.00	0.00	0.00
Totals For: Agriculture - Livestock Waste		0.00	0.00	0.00
Sector: Aircraft				
2275087000	In-flight (non-Landing-Takeoff cycle) Lead Emissions	0.00	0.00	0.00
Totals For: Aircraft		0.00	0.00	0.00
Sector: Bulk Gasoline Terminals				
2501050120	Gasoline Distribution Stage I; Bulk Terminals	0.00	0.00	0.00
2501055120	Gasoline Distribution Stage I; Bulk Plants	0.00	0.00	0.00
2505030120	Gasoline Distribution Stage I; Tank Trucks in Transit	14.44	0.00	0.00
2505040120	Gasoline Distribution Stage I; Bulk Terminals	0.00	0.00	0.00
Totals For: Bulk Gasoline Terminals		14.44	0.00	0.00
Sector: Commercial Cooking				
2302002100	Commercial Cooking: ConveyORIZED Charbroiling	4.00	0.00	13.45
2302002200	Commercial Cooking: Under-fired Charbroiling	14.51	0.00	47.54
2302003000	Commercial Cooking: Deep Fat Frying	2.06	0.00	0.00
2302003100	Commercial Cooking: Flat Griddle Frying	1.94	0.00	4.00

Table 3
2011 Typical High Ozone Summer Day Emissions (Lbs/Day) by County, Sector and SCC
For Area Sources

<u>Sec</u>	<u>Sec Description</u>	Area Source Daily Emissions (Lbs/Day)		
		VOC	NO_x	CO
2302003200	Commercial Cooking: Clamshell Griddle Frying	0.06	0.00	0.00
Totals For: Commercial Cooking		22.58	0.00	64.99

Table 3
2011 Typical High Ozone Summer Day Emissions (Lbs/Day) by County, Sector and SCC
For Area Sources

Sc	Sc Description	Area Source Daily Emissions		
		VOC	NO_x	CO
Sector: Commercial/ Institutional Fuel Combustion				
2103001000	Fuel Combustion; Commercial/Institutional; Anthra Coal	0.00	0.00	0.00
2103002000	Fuel Combustion; Commercial/Institutional; Bit Coal	0.00	0.00	0.00
2103004001	Fuel Combustion; Commercial/Institutional; Distillate Oil Boiler	0.56	32.66	8.16
2103004002	Fuel Combustion; Commercial/Institutional; Distillate Oil IC Engine	0.00	48.52	10.44
2103005000	Fuel Combustion; Commercial/Institutional; Residual Oil	0.18	8.92	0.81
2103006000	Fuel Combustion; Commercial/Institutional; Natural Gas	7.11	129.28	108.60
2103007000	Fuel Combustion; Commercial/Institutional; Liquified Petroleum Gas	0.31	8.56	4.79
2103008000	Fuel Combustion; Commercial/Institutional; Wood	0.00	0.00	0.00
2103011000	Fuel Combustion; Commercial/Institutional; Kerosene	0.00	0.23	0.06
Totals For: Commercial/ Institutional Fuel Combustion		8.17	228.17	132.86
Sector: Dust - Construction Dust				
2311010000	Construction - Residential	0.00	0.00	0.00
2311020000	Construction - Non-Residential	0.00	0.00	0.00
2311030000	Construction - Road	0.00	0.00	0.00
Totals For: Dust - Construction Dust		0.00	0.00	0.00
Sector: Dust - Paved Road Dust				
2294000000	Roads, Paved	0.00	0.00	0.00
Totals For: Dust - Paved Road Dust		0.00	0.00	0.00
Sector: Dust - Unpaved Road Dust				
2296000000	Roads, Unpaved	0.00	0.00	0.00
Totals For: Dust - Unpaved Road Dust		0.00	0.00	0.00
Sector: Event				
2810001000	Forest Wildfires	21.49	1.91	90.29
2811015000	Prescribed Forest Burning	0.00	0.00	0.00
Totals For: Event		21.49	1.91	90.29
Sector: Fires - Agricultural Field Burning				
2801500000	Agric - Crops /Field Burning - whole field set on fire /Unspecified crop type and Burn Method	0.00	0.00	0.00

Table 3
2011 Typical High Ozone Summer Day Emissions (Lbs/Day) by County, Sector and SCC
For Area Sources

		Area Source Daily Emissions (Lbs/Day)		
<u>Sec</u>	<u>Sec Description</u>	<u>VOC</u>	<u>NOx</u>	<u>CO</u>
Totals For: Fires - Agricultural Field Burning		0.00	0.00	0.00

**Table 3
2011 Typical High Ozone Summer Day Emissions (Lbs/Day) by County, Sector and SCC
For Area Sources**

Sec	Sec Description	Area Source Daily Emissions (Lbs/Day)		
		VOC	NOx	CO
Sector:	Gas Stations			
2201000062	Gasoline Distribution Stage II; Gasoline Service Stations, Stage 2	143.47	0.00	0.00
2202000062	Gasoline Distribution Stage II; Diesel Service Stations, Stage 2	9.68	0.00	0.00
2501060051	Gasoline Distribution Stage I; Gasoline Service Station Unloading Submerged filling	0.00	0.00	0.00
2501060052	Gasoline Distribution Stage I; Gasoline Service Station Unloading Splash filling	201.36	0.00	0.00
2501060053	Gasoline Distribution Stage I; Gasoline Service Station Unloading Balanced Submerged filling	145.73	0.00	0.00
2501060201	Gasoline Distribution Stage I; Underground storage tank, breathing and emptying	226.49	0.00	0.00
2501080050	Aviation Gasoline Distribution: Stage I	36.81	0.00	0.00
2501080100	Aviation Gasoline Distribution: Stage II	1.91	0.00	0.00
Totals For:	Gas Stations	765.45	0.00	0.00
Sector:	INDUSTRIAL FUEL COMBUSTION			
2102001000	Fuel Combustion; Industrial; Anthr Coal	0.00	0.00	0.00
2102002000	Fuel Combustion; Industrial; Bit Coal	0.00	0.00	0.00
2102004001	Fuel Combustion; Industrial; Distillate oil Boiler	0.17	17.33	4.33
2102004002	Fuel Combustion; Industrial; Distillate oil IC Engine	0.00	10.87	2.34
2102005000	Fuel Combustion; Industrial; Residual Oil	0.02	3.31	0.30
2102006000	Fuel Combustion; Industrial; Natural Gas	2.61	47.40	39.81
2102007000	Fuel Combustion; Industrial; Liquified Petroleum Gas (LPG)	0.66	18.17	10.18
2102008000	Fuel Combustion; Industrial; Wood	0.00	0.00	0.00
2102011000	Fuel Combustion; Industrial; Kerosene	0.07	7.50	1.87
Totals For:	INDUSTRIAL FUEL COMBUSTION	3.53	104.58	58.84
Sector:	Industrial Processes - Mining			
2325000000	Mining and Quarrying	0.00	0.00	0.00
Totals For:	Industrial Processes - Mining	0.00	0.00	0.00

Table 3
2011 Typical High Ozone Summer Day Emissions (Lbs/Day) by County, Sector and SCC
For Area Sources

<u>Sec</u>	<u>Sec Description</u>	Area Source Daily Emissions		
		VOC	NOx	CO
Sector:	Industrial Processes - Storage and Transfer			
2501011011	portable fuel containers, residential, permeation	28.75	0.00	0.00
2501011012	portable fuel containers, residential, evaporation (includes diurnal losses)	56.14	0.00	0.00
2501011013	portable fuel containers, residential, spilling during transport	42.10	0.00	0.00
2501011014	portable fuel containers, residential, refilling at the pump, vapor displacement	12.08	0.00	0.00
2501011015	portable fuel containers, residential, refilling at the pump, spillage	1.39	0.00	0.00
2501012011	portable fuel containers, commercial, permeation	0.92	0.00	0.00
2501012012	portable fuel containers, commercial, evaporation (includes diurnal losses)	1.79	0.00	0.00
2501012013	portable fuel containers, commercial, spilling during transport	57.42	0.00	0.00
2501012014	portable fuel containers, commercial, refilling at the pump, vapor displacement	23.28	0.00	0.00
2501012015	portable fuel containers, commercial, refilling at the pump, spillage	2.67	0.00	0.00
Totals For:	Industrial Processes - Storage and Transfer	226.53	0.00	0.00
Sector:	Miscellaneous Non-Industrial NEC			
2810060100	Cremation - Human	0.01	2.64	0.01
2810060200		0.00	0.00	0.00
2850001000	Dental Preparation and Use	0.00	0.00	0.00
2851001000	General Laboratory Activities	0.00	0.00	0.00
2861000000	Lamp Breakage (Landfill emissions)	0.00	0.00	0.00
2861000010	Lamp (Fluorescent) Recycling	0.00	0.00	0.00
Totals For:	Miscellaneous Non-Industrial NEC	0.01	2.64	0.01

Table 3
2011 Typical High Ozone Summer Day Emissions (Lbs/Day) by County, Sector and SCC
For Area Sources

		Area Source Daily Emissions (Lbs/Day)		
<u>Sc</u>	<u>Sc Description</u>	<u>VOC</u>	<u>NOx</u>	<u>CO</u>
Sector:	Residential Heating			
2104001000	Residential Heating: Anthracite Coal	0.00	0.00	0.00
2104002000	Residential Heating: Bituminous Coal	0.00	0.00	0.00
2104004000	Residential Heating: Distillate Oil	11.58	297.67	82.68
2104006000	Residential Heating: Natural Gas	1.85	31.62	13.46
2104007000	Residential Heating: LPG	2.40	65.41	36.62
2104008100	Residential Heating: Fireplaces (cordwood)	0.00	0.00	0.00
2104008210	Residential Heating: Inserts non certified	0.00	0.00	0.00
2104008220	Residential Heating: Inserts EPA certified non-cat	0.00	0.00	0.00
2104008230	Residential Heating: Inserts EPA certified cat	0.00	0.00	0.00
2104008310	Residential Heating: free standing WS non certified	0.00	0.00	0.00
2104008320	Residential Heating: free standing WS EPA certified non-cat	0.00	0.00	0.00
2104008330	Residential Heating: free standing WS EPA certified cat	0.00	0.00	0.00
2104008400	Residential Heating: pellet stoves	0.00	0.00	0.00
2104008510	Residential Heating: furnace indoor	0.00	0.00	0.00
2104008610	Residential Heating: Hydronic heater: outdoor	0.00	0.00	0.00
2104008700	Residential Heating: Outdoor wood burning device, NEC	26.21	3.61	206.59
2104009000	Residential Heating: Firelog	0.00	0.00	0.00
2104011000	Residential Heating: Kerosene	0.09	2.33	0.65
Totals For:	Residential Heating	42.12	400.63	340.00
Sector:	Solvent - Consumer & Commercial Solvent Use			
2460100000	C&C: Cosmetics and Toiletries	797.01	0.00	0.00
2460200000	C&C: Cleaning Products; Household	755.07	0.00	0.00
2460400000	C&C: Auto Aftermarket	570.49	0.00	0.00
2460500000	C&C: Coatings and Related Products	398.51	0.00	0.00
2460600000	C&C: adhesives and sealants	239.10	0.00	0.00
2460800000	C&C: FIFRA Regulated Products	746.68	0.00	0.00

Table 3
2011 Typical High Ozone Summer Day Emissions (Lbs/Day) by County, Sector and SCC
For Area Sources

Sec	Sec Description	Area Source Daily Emissions		
		(Lbs/Day)		
		VOC	NO_x	CO
2460900000	C&C: Misc. Products (not otherwise covered)	29.36	0.00	0.00
2461021000	Cutback Asphalt	0.00	0.00	0.00
2461022000	Emulsified Asphalt	0.00	0.00	0.00
2461850000	Ag Pesticide	155.16	0.00	0.00

Table 3
2011 Typical High Ozone Summer Day Emissions (Lbs/Day) by County, Sector and SCC
For Area Sources

		Area Source Daily Emissions (Lbs/Day)		
<u>Sec</u>	<u>Sec Description</u>	<u>VOC</u>	<u>NOx</u>	<u>CO</u>
Totals For: Solvent - Consumer & Commercial Solvent Use		3,691.38	0.00	0.00
Sector:	Solvent - Degreasing			
2415000000	Degreasing	489.12	0.00	0.00
Totals For: Solvent - Degreasing		489.12	0.00	0.00
Sector:	Solvent - Dry Cleaning			
2420000000	Dry Cleaning	1.32	0.00	0.00
Totals For: Solvent - Dry Cleaning		1.32	0.00	0.00
Sector:	Solvent - Graphic Arts			
2425000000	Graphic Arts	322.93	0.00	0.00
Totals For: Solvent - Graphic Arts		322.93	0.00	0.00
Sector:	Solvent - Industrial Surface Coating & Solvent Use			
2401005000	Auto Refinishing SIC 7532	263.31	0.00	0.00
2401008000	Surface Coating - Traffic Markings	2.35	0.00	0.00
2401015000	Surface Coating - Factory Finished Wood: SIC 2426 thru 242	7.40	0.00	0.00
2401020000	Surface Coating - Wood Furniture	52.80	0.00	0.00
2401025000	Surface Coating - Metal Furniture: SIC 25	0.00	0.00	0.00
2401030000	Surface Coating - Paper, foil, and film	0.00	0.00	0.00
2401040000	Surface Coating - Metal Can Coating	101.72	0.00	0.00
2401045000	Surface Coating - Sheet, strip, and coil	0.00	0.00	0.00
2401055000	Surface Coating - Machinery and Equipment: SIC 35	132.49	0.00	0.00
2401060000	Surface Coating - Large Appliances: SIC 363	0.00	0.00	0.00
2401065000	Surface Coating - Electronic and other Electric Coatings	6.44	0.00	0.00
2401070000	Surface Coating - Motor Vehicles	55.45	0.00	0.00
2401075000	Surface Coating - Aircraft	6.58	0.00	0.00
2401080000	Surface Coating - Marine	0.00	0.00	0.00
2401085000	Surface Coating - Railroad	0.00	0.00	0.00
2401090000	Surface Coating - Miscellaneous Manufacturing	37.23	0.00	0.00

Table 3
2011 Typical High Ozone Summer Day Emissions (Lbs/Day) by County, Sector and SCC
For Area Sources

<u>Sec</u>	<u>Sec Description</u>	Area Source Daily Emissions		
		VOC	NO_x	CO
2401100000	Industrial Maintenance Coatings	88.09	0.00	0.00
2401200000	Other Special Purpose Coatings	37.59	0.00	0.00
Totals For: Solvent - Industrial Surface Coating & Solvent		791.45	0.00	0.00

Table 3
2011 Typical High Ozone Summer Day Emissions (Lbs/Day) by County, Sector and SCC
For Area Sources

		Area Source Daily Emissions (Lbs/Day)		
Scc	Scc Description	VOC	NOx	CO
Sector:	Solvent - Non-Industrial Surface Coating			
2401001000	Architectural Coatings	1,025.21	0.00	0.00
Totals For: Solvent - Non-Industrial Surface Coating		1,025.21	0.00	0.00
Sector:	Waste Disposal			
2610000100	Open Burning - Yard Waste - Leaves	0.00	0.00	0.00
2610000400	Open Burning - Yard Waste - Brush	13.84	3.64	101.95
2610000500	Open Burning - Land Clearing Debris	0.00	0.00	0.00
2610030000	Open Burning - Household Waste	136.25	95.50	1,352.94
2620030001		0.00	0.00	0.00
2630020000	Publically Owned Treatment Works (POTW)	21.66	0.00	0.00
2650000000		0.00	0.00	0.00
2650000002		0.00	0.00	0.00
Totals For: Waste Disposal		171.74	99.14	1,454.89
Totals For:	Tolland County	7,597.48	837.07	2,141.90

**Table 3
2011 Typical High Ozone Summer Day Emissions (Lbs/Day) by County, Sector and SCC
For Area Sources**

Windham	Scc	Scc Description	Area Source Daily Emissions (Lbs/Day)		
			VOC	NOx	CO
	County				
	Sector:	Agriculture - Crops & Livestock Dust			
	2801000003	Agricultural Tilling	0.00	0.00	0.00
	Totals For:	Agriculture - Crops & Livestock Dust	0.00	0.00	0.00
	Sector:	Agriculture - Fertilizer Application			
	2801700001	Fertilizer Application; Anhydrous Ammonia	0.00	0.00	0.00
	2801700002	Fertilizer Application; Aqueous Ammonia	0.00	0.00	0.00
	2801700003	Fertilizer Application; Nitrogen Solutions	0.00	0.00	0.00
	2801700004	Fertilizer Application; Urea	0.00	0.00	0.00
	2801700005	Fertilizer Application; Ammonium Nitrate	0.00	0.00	0.00
	2801700006	Fertilizer Application; Ammonium Sulfate	0.00	0.00	0.00
	2801700007	Fertilizer Application; Ammonium Thiosulfate	0.00	0.00	0.00
	2801700010	Fertilizer Application; N-P-K (mult-grade nutrient fertilizers)	0.00	0.00	0.00
	2801700011	Fertilizer Application; Calcium Ammonium Nitrate	0.00	0.00	0.00
	2801700012	Fertilizer Application; Potassium Nitrate	0.00	0.00	0.00
	2801700013	Fertilizer Application; Diammonium Phosphate	0.00	0.00	0.00
	2801700014	Fertilizer Application; Monoammonium Phosphate	0.00	0.00	0.00
	2801700015	Fertilizer Application; Liquid Ammonium Polyphosphate	0.00	0.00	0.00
	2801700099	Fertilizer Application; Miscellaneous Fertilizers	0.00	0.00	0.00
	Totals For:	Agriculture - Fertilizer Application	0.00	0.00	0.00

Table 3
2011 Typical High Ozone Summer Day Emissions (Lbs/Day) by County, Sector and SCC
For Area Sources

Sector:	Scc	Scc Description	Area Source Daily Emissions (Lbs/Day)		
			VOC	NOx	CO
		Agriculture - Livestock Waste			
	2805001100	Beef cattle - finishing operations on feedlots (drylots); Confinement	0.00	0.00	0.00
	2805001200	Beef cattle - finishing operations on feedlots (drylots); Manure handling and storage	0.00	0.00	0.00
	2805001300	Beef cattle - finishing operations on feedlots (drylots); Land application of manure	0.00	0.00	0.00
	2805002000	Beef cattle production composite; Not Elsewhere Classified	0.00	0.00	0.00
	2805003100	Beef cattle - finishing operations on pasture/range :Confinement	0.00	0.00	0.00
	2805007100	Poultry production - layers with dry manure management systems; Confinement	0.00	0.00	0.00
	2805007300	Poultry production - layers with dry manure management systems; Land application of manure	0.00	0.00	0.00
	2805008100	Poultry production - layers with wet manure management systems; Confinement	0.00	0.00	0.00
	2805008200	Poultry production - layers with wet manure management systems; Manure handling and storage	0.00	0.00	0.00
	2805008300	Poultry production - layers with wet manure management systems :Land application of manure	0.00	0.00	0.00
	2805009100	Poultry production - broilers; Confinement	0.00	0.00	0.00
	2805009200	Poultry production - broilers; manure handling and storage	0.00	0.00	0.00
	2805009300	Poultry production - broilers; Land Application and storage	0.00	0.00	0.00
	2805010100	Poultry production - turkeys; Confinement	0.00	0.00	0.00
	2805010200	Poultry production - turkeys; Manure handling and storage	0.00	0.00	0.00
	2805010300	Poultry production - turkeys; Land application and storage	0.00	0.00	0.00
	2805018000	Dairy cattle composite; Not Elsewhere Classified	0.00	0.00	0.00
	2805019100	Dairy cattle - flush dairy; Confinement	0.00	0.00	0.00
	2805019200	Dairy cattle - flush dairy; Manure handling and storage	0.00	0.00	0.00
	2805019300	Dairy cattle - flush dairy; Land application of manure	0.00	0.00	0.00
	2805021100	Dairy cattle - scrape dairy; Confinement	0.00	0.00	0.00
	2805021200	Dairy cattle - scrape dairy; Manure handling and storage	0.00	0.00	0.00
	2805021300	Dairy cattle - scrape dairy; Land application of manure	0.00	0.00	0.00
	2805022100	Dairy cattle - deep pit dairy; Confinement	0.00	0.00	0.00
	2805022200	Dairy cattle - deep pit dairy; Manure handling and storage	0.00	0.00	0.00
	2805022300	Dairy cattle - deep pit dairy; Land application of manure	0.00	0.00	0.00

Table 3
2011 Typical High Ozone Summer Day Emissions (Lbs/Day) by County, Sector and SCC
For Area Sources

<u>Sec</u>	<u>Sec Description</u>	Area Source Daily Emissions (Lbs/Day)		
		VOC	NO_x	CO
2805023100	Dairy cattle - drylot/pasture dairy; Confinement	0.00	0.00	0.00
2805023200	Dairy cattle - drylot/pasture dairy; Manure handling and storage	0.00	0.00	0.00
2805023300	Dairy cattle - drylot/pasture dairy; Land application of manure	0.00	0.00	0.00
2805025000	Swine production composite; Not Elsewhere Classified	0.00	0.00	0.00

Table 3
2011 Typical High Ozone Summer Day Emissions (Lbs/Day) by County, Sector and SCC
For Area Sources

<u>Sc</u>	<u>Sc Description</u>	Area Source Daily Emissions		
		VOC	NO_x	CO
2805030000	Poultry Waste Emissions; Not Elsewhere Classified	0.00	0.00	0.00
2805030007	Poultry Waste Emissions; Ducks	0.00	0.00	0.00
2805030008	Poultry Waste Emissions; Geese	0.00	0.00	0.00
2805035000	Horses and Ponies Waste Emissions; Not Elsewhere Classified	0.00	0.00	0.00
2805039100	Swine production - operations with lagoons (unspecified animal age); Confinement	0.00	0.00	0.00
2805039200	Swine production - operations with lagoons (unspecified animal age); Manure handling and storage	0.00	0.00	0.00
2805039300	Swine production - operations with lagoons (unspecified animal age); Land application of manure	0.00	0.00	0.00
2805040000	Sheep and Lambs Waste Emissions; Total	0.00	0.00	0.00
2805045000	Goats Waste Emissions; Not Elsewhere Classified	0.00	0.00	0.00
2805047100	Swine production - deep-pit house operations (unspecified animal age); Confinement	0.00	0.00	0.00
2805047300	Swine production - deep-pit house operations (unspecified animal age); Land application of manure	0.00	0.00	0.00
2805053100	Swine production - outdoor operations (unspecified animal age); Confinement	0.00	0.00	0.00
Totals For: Agriculture - Livestock Waste		0.00	0.00	0.00
Sector: Aircraft				
2275087000	In-flight (non-Landing-Takeoff cycle) Lead Emissions	0.00	0.00	0.00
Totals For: Aircraft		0.00	0.00	0.00
Sector: Bulk Gasoline Terminals				
2501050120	Gasoline Distribution Stage I; Bulk Terminals	0.00	0.00	0.00
2501055120	Gasoline Distribution Stage I; Bulk Plants	0.00	0.00	0.00
2505030120	Gasoline Distribution Stage I; Tank Trucks in Transit	10.36	0.00	0.00
2505040120	Gasoline Distribution Stage I; Bulk Terminals	68.55	0.00	0.00
Totals For: Bulk Gasoline Terminals		78.91	0.00	0.00
Sector: Commercial Cooking				
2302002100	Commercial Cooking: ConveyORIZED Charbroiling	4.29	0.00	14.51
2302002200	Commercial Cooking: Under-fired Charbroiling	14.58	0.00	47.75
2302003000	Commercial Cooking: Deep Fat Frying	2.18	0.00	0.00
2302003100	Commercial Cooking: Flat Griddle Frying	1.91	0.00	4.02

Table 3
2011 Typical High Ozone Summer Day Emissions (Lbs/Day) by County, Sector and SCC
For Area Sources

		Area Source Daily Emissions (Lbs/Day)		
<u>Sec</u>	<u>Sec Description</u>	<u>VOC</u>	<u>NOx</u>	<u>CO</u>
2302003200	Commercial Cooking: Clamshell Griddle Frying	0.07	0.00	0.00
Totals For: Commercial Cooking		23.02	0.00	66.27

Table 3
2011 Typical High Ozone Summer Day Emissions (Lbs/Day) by County, Sector and SCC
For Area Sources

		Area Source Daily Emissions (Lbs/Day)		
Scc	Scc Description	VOC	NOx	CO
Sector:	Commercial/ Institutional Fuel Combustion			
2103001000	Fuel Combustion; Commercial/Institutional; Anthra Coal	0.00	0.00	0.00
2103002000	Fuel Combustion; Commercial/Institutional; Bit Coal	0.00	0.00	0.00
2103004001	Fuel Combustion; Commercial/Institutional; Distillate Oil Boiler	0.51	29.80	7.45
2103004002	Fuel Combustion; Commercial/Institutional; Distillate Oil IC Engine	0.00	44.28	9.53
2103005000	Fuel Combustion; Commercial/Institutional; Residual Oil	0.17	8.14	0.74
2103006000	Fuel Combustion; Commercial/Institutional; Natural Gas	6.49	117.99	99.11
2103007000	Fuel Combustion; Commercial/Institutional; Liquified Petroleum Gas	0.29	7.81	4.37
2103008000	Fuel Combustion; Commercial/Institutional; Wood	0.00	0.00	0.00
2103011000	Fuel Combustion; Commercial/Institutional; Kerosene	0.00	0.21	0.05
Totals For: Commercial/ Institutional Fuel Combustion		7.45	208.24	121.26
Sector:	Dust - Construction Dust			
2311010000	Construction - Residential	0.00	0.00	0.00
2311020000	Construction - Non-Residential	0.00	0.00	0.00
2311030000	Construction - Road	0.00	0.00	0.00
Totals For: Dust - Construction Dust		0.00	0.00	0.00
Sector:	Dust - Paved Road Dust			
2294000000	Roads, Paved	0.00	0.00	0.00
Totals For: Dust - Paved Road Dust		0.00	0.00	0.00
Sector:	Dust - Unpaved Road Dust			
2296000000	Roads, Unpaved	0.00	0.00	0.00
Totals For: Dust - Unpaved Road Dust		0.00	0.00	0.00
Sector:	Event			
2810001000	Forest Wildfires	25.09	2.48	105.09
2811015000	Prescribed Forest Burning	0.00	0.00	0.00
Totals For: Event		25.09	2.48	105.09
Sector:	Fires - Agricultural Field Burning			
2801500000	Agric - Crops /Field Burning - whole field set on fire /Unspecified crop type and Burn Method	0.00	0.00	0.00

Table 3
2011 Typical High Ozone Summer Day Emissions (Lbs/Day) by County, Sector and SCC
For Area Sources

<u>Sec</u>	<u>Sec Description</u>	Area Source Daily Emissions (Lbs/Day)		
		<u>VOC</u>	<u>NO_x</u>	<u>CO</u>
Totals For: Fires - Agricultural Field Burning		0.00	0.00	0.00

Table 3
2011 Typical High Ozone Summer Day Emissions (Lbs/Day) by County, Sector and SCC
For Area Sources

Sec	Sec Description	Area Source Daily Emissions (Lbs/Day)		
		VOC	NOx	CO
Sector:	Gas Stations			
2201000062	Gasoline Distribution Stage II; Gasoline Service Stations, Stage 2	99.29	0.00	0.00
2202000062	Gasoline Distribution Stage II; Diesel Service Stations, Stage 2	6.08	0.00	0.00
2501060051	Gasoline Distribution Stage I; Gasoline Service Station Unloading Submerged filling	0.00	0.00	0.00
2501060052	Gasoline Distribution Stage I; Gasoline Service Station Unloading Splash filling	144.72	0.00	0.00
2501060053	Gasoline Distribution Stage I; Gasoline Service Station Unloading Balanced Submerged filling	104.74	0.00	0.00
2501060201	Gasoline Distribution Stage I; Underground storage tank, breathing and emptying	162.58	0.00	0.00
2501080050	Aviation Gasoline Distribution: Stage I	55.98	0.00	0.00
2501080100	Aviation Gasoline Distribution: Stage II	2.90	0.00	0.00
Totals For: Gas Stations		576.28	0.00	0.00
Sector:	INDUSTRIAL FUEL COMBUSTION			
2102001000	Fuel Combustion; Industrial; Anthr Coal	0.00	0.00	0.00
2102002000	Fuel Combustion; Industrial; Bit Coal	0.00	0.00	0.00
2102004001	Fuel Combustion; Industrial; Distillate oil Boiler	0.25	25.05	6.26
2102004002	Fuel Combustion; Industrial; Distillate oil IC Engine	0.00	15.72	3.38
2102005000	Fuel Combustion; Industrial; Residual Oil	0.02	4.78	0.43
2102006000	Fuel Combustion; Industrial; Natural Gas	3.77	68.52	57.56
2102007000	Fuel Combustion; Industrial; Liquified Petroleum Gas (LPG)	0.96	26.27	14.71
2102008000	Fuel Combustion; Industrial; Wood	0.00	0.00	0.00
2102011000	Fuel Combustion; Industrial; Kerosene	0.11	10.84	2.71
Totals For: INDUSTRIAL FUEL COMBUSTION		5.11	151.18	85.06
Sector:	Industrial Processes - Mining			
2325000000	Mining and Quarrying	0.00	0.00	0.00
Totals For: Industrial Processes - Mining		0.00	0.00	0.00

Table 3
2011 Typical High Ozone Summer Day Emissions (Lbs/Day) by County, Sector and SCC
For Area Sources

<u>Sc</u>	<u>Sc Description</u>	Area Source Daily Emissions		
		VOC	NO_x	CO
Sector:	Industrial Processes - Storage and Transfer			
2501011011	portable fuel containers, residential, permeation	28.65	0.00	0.00
2501011012	portable fuel containers, residential, evaporation (includes diurnal losses)	55.93	0.00	0.00
2501011013	portable fuel containers, residential, spilling during transport	41.94	0.00	0.00
2501011014	portable fuel containers, residential, refilling at the pump, vapor displacement	12.04	0.00	0.00
2501011015	portable fuel containers, residential, refilling at the pump, spillage	1.38	0.00	0.00
2501012011	portable fuel containers, commercial, permeation	0.91	0.00	0.00
2501012012	portable fuel containers, commercial, evaporation (includes diurnal losses)	1.79	0.00	0.00
2501012013	portable fuel containers, commercial, spilling during transport	57.21	0.00	0.00
2501012014	portable fuel containers, commercial, refilling at the pump, vapor displacement	23.20	0.00	0.00
2501012015	portable fuel containers, commercial, refilling at the pump, spillage	2.66	0.00	0.00
Totals For:	Industrial Processes - Storage and Transfer	225.70	0.00	0.00
Sector:	Miscellaneous Non-Industrial NEC			
2810060100	Cremation - Human	0.01	2.09	0.01
2810060200		0.00	0.00	0.00
2850001000	Dental Preparation and Use	0.00	0.00	0.00
2851001000	General Laboratory Activities	0.00	0.00	0.00
2861000000	Lamp Breakage (Landfill emissions)	0.00	0.00	0.00
2861000010	Lamp (Fluorescent) Recycling	0.00	0.00	0.00
Totals For:	Miscellaneous Non-Industrial NEC	0.01	2.09	0.01

Table 3
2011 Typical High Ozone Summer Day Emissions (Lbs/Day) by County, Sector and SCC
For Area Sources

		Area Source Daily Emissions (Lbs/Day)		
<u>Sc</u>	<u>Sc Description</u>	<u>VOC</u>	<u>NOx</u>	<u>CO</u>
Sector:	Residential Heating			
2104001000	Residential Heating: Anthracite Coal	0.00	0.00	0.00
2104002000	Residential Heating: Bituminous Coal	0.00	0.00	0.00
2104004000	Residential Heating: Distillate Oil	9.43	242.43	67.34
2104006000	Residential Heating: Natural Gas	1.87	31.90	13.57
2104007000	Residential Heating: LPG	2.58	70.23	39.32
2104008100	Residential Heating: Fireplaces (cordwood)	0.00	0.00	0.00
2104008210	Residential Heating: Inserts non certified	0.00	0.00	0.00
2104008220	Residential Heating: Inserts EPA certified non-cat	0.00	0.00	0.00
2104008230	Residential Heating: Inserts EPA certified cat	0.00	0.00	0.00
2104008310	Residential Heating: free standing WS non certified	0.00	0.00	0.00
2104008320	Residential Heating: free standing WS EPA certified non-cat	0.00	0.00	0.00
2104008330	Residential Heating: free standing WS EPA certified cat	0.00	0.00	0.00
2104008400	Residential Heating: pellet stoves	0.00	0.00	0.00
2104008510	Residential Heating: furnace indoor	0.00	0.00	0.00
2104008610	Residential Heating: Hydronic heater: outdoor	0.00	0.00	0.00
2104008700	Residential Heating: Outdoor wood burning device, NEC	6.97	0.96	54.99
2104009000	Residential Heating: Firelog	0.00	0.00	0.00
2104011000	Residential Heating: Kerosene	0.07	1.90	0.53
Totals For: Residential Heating		20.92	347.42	175.75
Sector:	Solvent - Consumer & Commercial Solvent Use			
2460100000	C&C: Cosmetics and Toiletries	618.16	0.00	0.00
2460200000	C&C: Cleaning Products; Household	585.63	0.00	0.00
2460400000	C&C: Auto Aftermarket	442.48	0.00	0.00
2460500000	C&C: Coatings and Related Products	309.09	0.00	0.00
2460600000	C&C: adhesives and sealants	185.45	0.00	0.00
2460800000	C&C: FIFRA Regulated Products	579.13	0.00	0.00

Table 3
2011 Typical High Ozone Summer Day Emissions (Lbs/Day) by County, Sector and SCC
For Area Sources

Sec	Sec Description	Area Source Daily Emissions (Lbs/Day)		
		VOC	NO_x	CO
2460900000	C&C: Misc. Products (not otherwise covered)	22.77	0.00	0.00
2461021000	Cutback Asphalt	0.00	0.00	0.00
2461022000	Emulsified Asphalt	0.00	0.00	0.00
2461850000	Ag Pesticide	161.10	0.00	0.00

**Table 3
2011 Typical High Ozone Summer Day Emissions (Lbs/Day) by County, Sector and SCC
For Area Sources**

		Area Source Daily Emissions (Lbs/Day)		
<u>Sec</u>	<u>Sec Description</u>	<u>VOC</u>	<u>NOx</u>	<u>CO</u>
Totals For: Solvent - Consumer & Commercial Solvent Use		2,903.81	0.00	0.00
Sector:	Solvent - Degreasing			
2415000000	Degreasing	519.90	0.00	0.00
Totals For: Solvent - Degreasing		519.90	0.00	0.00
Sector:	Solvent - Dry Cleaning			
2420000000	Dry Cleaning	0.41	0.00	0.00
Totals For: Solvent - Dry Cleaning		0.41	0.00	0.00
Sector:	Solvent - Graphic Arts			
2425000000	Graphic Arts	204.44	0.00	0.00
Totals For: Solvent - Graphic Arts		204.44	0.00	0.00
Sector:	Solvent - Industrial Surface Coating & Solvent Use			
2401005000	Auto Refinishing SIC 7532	171.17	0.00	0.00
2401008000	Surface Coating - Traffic Markings	2.43	0.00	0.00
2401015000	Surface Coating - Factory Finished Wood: SIC 2426 thru 242	9.15	0.00	0.00
2401020000	Surface Coating - Wood Furniture	21.47	0.00	0.00
2401025000	Surface Coating - Metal Furniture: SIC 25	11.41	0.00	0.00
2401030000	Surface Coating - Paper, foil, and film	0.00	0.00	0.00
2401040000	Surface Coating - Metal Can Coating	0.00	0.00	0.00
2401045000	Surface Coating - Sheet, strip, and coil	0.00	0.00	0.00
2401055000	Surface Coating - Machinery and Equipment: SIC 35	14.77	0.00	0.00
2401060000	Surface Coating - Large Appliances: SIC 363	0.00	0.00	0.00
2401065000	Surface Coating - Electronic and other Electric Coatings	40.64	0.00	0.00
2401070000	Surface Coating - Motor Vehicles	0.00	0.00	0.00
2401075000	Surface Coating - Aircraft	14.09	0.00	0.00
2401080000	Surface Coating - Marine	0.00	0.00	0.00
2401085000	Surface Coating - Railroad	0.00	0.00	0.00
2401090000	Surface Coating - Miscellaneous Manufacturing	84.96	0.00	0.00

Table 3
2011 Typical High Ozone Summer Day Emissions (Lbs/Day) by County, Sector and SCC
For Area Sources

<u>Sec</u>	<u>Sec Description</u>	Area Source Daily Emissions		
		VOC	NO_x	CO
2401100000	Industrial Maintenance Coatings	68.32	0.00	0.00
2401200000	Other Special Purpose Coatings	29.15	0.00	0.00
Totals For: Solvent - Industrial Surface Coating & Solvent		467.57	0.00	0.00

Table 3
2011 Typical High Ozone Summer Day Emissions (Lbs/Day) by County, Sector and SCC
For Area Sources

		Area Source Daily Emissions (Lbs/Day)		
<u>Sc</u>	<u>Sc Description</u>	<u>VOC</u>	<u>NOx</u>	<u>CO</u>
Sector:	Solvent - Non-Industrial Surface Coating			
2401001000	Architectural Coatings	795.16	0.00	0.00
Totals For: Solvent - Non-Industrial Surface Coating		795.16	0.00	0.00
Sector:	Waste Disposal			
2610000100	Open Burning - Yard Waste - Leaves	0.00	0.00	0.00
2610000400	Open Burning - Yard Waste - Brush	13.98	3.68	102.98
2610000500	Open Burning - Land Clearing Debris	0.00	0.00	0.00
2610030000	Open Burning - Household Waste	137.63	96.47	1,366.65
2620030001		0.00	0.00	0.00
2630020000	Publically Owned Treatment Works (POTW)	17.12	0.00	0.00
2650000000		0.00	0.00	0.00
2650000002		0.00	0.00	0.00
Totals For: Waste Disposal		168.73	100.15	1,469.63
Totals For:	Windham	6,022.52	811.55	2,023.07
StateWide Total:		202,458.00	26,094.59	26,268.66

Table 4
2011 Annual Area Source Emissions (Tons/Year) by Source Category

Source Category	Area Source Emissions (TPY)							
	VOC	NOx	CO	PM10	PM2.5	NH3	SO	Lead
Ag Pesticide	94.83	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
Agric - Crops /Field Burning - whole field set on fire /Unspecified crop type and Burn Method	3.13	1.85	50.43	9.56	5.31	0.00	0.82	0.0000
Agricultural Tilling	0.00	0.00	0.00	702.83	140.56	0.00	0.00	0.0000
Architectural Coatings	3,359.66	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
Auto Refinishing SIC 7532	832.52	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
Aviation Gasoline Distribution: Stage I	124.52	0.00	0.00	0.00	0.00	0.00	0.00	0.0012
Aviation Gasoline Distribution: Stage II	6.46	0.00	0.00	0.00	0.00	0.00	0.00	0.0001
Beef cattle - finishing operations on feedlots (drylots); Confinement	0.00	0.00	0.00	0.00	0.00	9.45	0.00	0.0000
Beef cattle - finishing operations on feedlots (drylots); Land application of manure	0.00	0.00	0.00	0.00	0.00	7.18	0.00	0.0000
Beef cattle - finishing operations on feedlots (drylots); Manure handling and storage	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
Beef cattle - finishing operations on pasture/range :Confinement	0.00	0.00	0.00	0.00	0.00	19.63	0.00	0.0000
Beef cattle production composite; Not Elsewhere Classified	0.00	0.00	0.00	0.00	0.00	24.22	0.00	0.0000
C&C: Misc. Products (not otherwise covered)	125.09	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
C&C: adhesives and sealants	1,018.62	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
C&C: Auto Aftermarket	2,430.39	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
C&C: Cleaning Products; Household	3,216.69	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
C&C: Coatings and Related Products	1,697.70	0.00	0.00	0.00	0.00	0.00	0.00	0.0000

Table 4
2011 Annual Area Source Emissions (Tons/Year) by Source Category

Source Category	Area Source Emissions (TPY)							
	VOC	NOx	CO	PM10	PM2.5	NH3	SO	Lead
C&C: Cosmetics and Toiletries	3,395.40	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
C&C: FIFRA Regulated Products	3,180.95	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
Commercial Cooking: Clamshell Griddle Frying	0.47	0.00	0.00	13.92	11.76	0.00	0.00	0.0000
Commercial Cooking: Conveyorized Charbroiling	29.46	0.00	98.47	117.84	114.23	0.00	0.00	0.0000
Commercial Cooking: Deep Fat Frying	15.45	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
Commercial Cooking: Flat Griddle Frying	13.20	0.00	27.33	220.98	167.92	0.00	0.00	0.0000
Commercial Cooking: Under-fired Charbroiling	100.78	0.00	329.82	840.62	812.62	0.00	0.00	0.0000
Construction - Non-Residential	0.00	0.00	0.00	3,142.93	314.29	0.00	0.00	0.0000
Construction - Residential	0.00	0.00	0.00	113.56	11.36	0.00	0.00	0.0000
Construction - Road	0.00	0.00	0.00	3,265.13	326.51	0.00	0.00	0.0000
Cremation - Human	0.04	11.34	0.05	0.75	0.75	0.00	1.75	0.0045
Cutback Asphalt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
Dairy cattle - deep pit dairy; Confinement	0.00	0.00	0.00	0.00	0.00	12.30	0.00	0.0000
Dairy cattle - deep pit dairy; Land application of manure	0.00	0.00	0.00	0.00	0.00	6.92	0.00	0.0000
Dairy cattle - deep pit dairy; Manure handling and storage	0.00	0.00	0.00	0.00	0.00	0.57	0.00	0.0000
Dairy cattle - drylot/pasture dairy; Confinement	0.00	0.00	0.00	0.00	0.00	90.28	0.00	0.0000
Dairy cattle - drylot/pasture dairy; Land application of manure	0.00	0.00	0.00	0.00	0.00	114.21	0.00	0.0000

Table 4
2011 Annual Area Source Emissions (Tons/Year) by Source Category

Source Category	Area Source Emissions (TPY)							
	VOC	NOx	CO	PM10	PM2.5	NH3	SO	Lead
Dairy cattle - drylot/pasture dairy; Manure handling and storage	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.0000
Dairy cattle - flush dairy; Confinement	0.00	0.00	0.00	0.00	0.00	13.99	0.00	0.0000
Dairy cattle - flush dairy; Land application of manure	0.00	0.00	0.00	0.00	0.00	3.70	0.00	0.0000
Dairy cattle - flush dairy; Manure handling and storage	0.00	0.00	0.00	0.00	0.00	39.12	0.00	0.0000
Dairy cattle - scrape dairy; Confinement	0.00	0.00	0.00	0.00	0.00	106.49	0.00	0.0000
Dairy cattle - scrape dairy; Land application of manure	0.00	0.00	0.00	0.00	0.00	228.47	0.00	0.0000
Dairy cattle - scrape dairy; Manure handling and storage	0.00	0.00	0.00	0.00	0.00	121.97	0.00	0.0000
Dairy cattle composite; Not Elsewhere Classified	0.00	0.00	0.00	0.00	0.00	414.72	0.00	0.0000
Degreasing	3,138.18	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
Dental Preparation and Use	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
Dry Cleaning	12.50	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
Emulsified Asphalt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
Fertilizer Application; Ammonium Nitrate	0.00	0.00	0.00	0.00	0.00	0.20	0.00	0.0000
Fertilizer Application; Ammonium Sulfate	0.00	0.00	0.00	0.00	0.00	0.08	0.00	0.0000
Fertilizer Application; Ammonium Thiosulfate	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.0000
Fertilizer Application; Anhydrous Ammonia	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
Fertilizer Application; Aqueous Ammonia	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000

Table 4
2011 Annual Area Source Emissions (Tons/Year) by Source Category

Source Category	Area Source Emissions (TPY)							
	VOC	NO_x	CO	PM10	PM2.5	NH3	SO	Lead
Fertilizer Application; Calcium Ammonium Nitrate	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
Fertilizer Application; Diammonium Phosphate	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
Fertilizer Application; Liquid Ammonium Polyphosphate	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
Fertilizer Application; Miscellaneous Fertilizers	0.00	0.00	0.00	0.00	0.00	227.97	0.00	0.0000
Fertilizer Application; Monoammonium Phosphate	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.0000
Fertilizer Application; Nitrogen Solutions	0.00	0.00	0.00	0.00	0.00	2.47	0.00	0.0000
Fertilizer Application; N-P-K (mult-grade nutrient fertilizers)	0.00	0.00	0.00	0.00	0.00	54.57	0.00	0.0000
Fertilizer Application; Potassium Nitrate	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
Fertilizer Application; Urea	0.00	0.00	0.00	0.00	0.00	113.02	0.00	0.0000
Forest Wildfires	94.06	8.69	394.78	43.11	36.53	6.54	3.98	0.0000
Fuel Combustion; Commercial/Institutional; Anthra Coal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
Fuel Combustion; Commercial/Institutional; Bit Coal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
Fuel Combustion; Commercial/Institutional; Distillate Oil Boiler	7.76	456.45	114.11	54.32	48.61	18.26	964.32	0.0285

Table 4
2011 Annual Area Source Emissions (Tons/Year) by Source Category

Source Category	Area Source Emissions (TPY)							
	VOC	NOx	CO	PM10	PM2.5	NH3	SO	Lead
Fuel Combustion; Commercial/Institutional; Distillate Oil IC Engine	0.00	678.16	145.96	109.66	109.66	0.00	0.00	0.0000
Fuel Combustion; Commercial/Institutional; Kerosene	0.06	3.24	0.81	0.39	0.35	0.13	7.16	0.0002
Fuel Combustion; Commercial/Institutional; Liquefied Petroleum Gas	4.37	119.62	67.00	0.42	0.34	0.42	0.50	0.0004
Fuel Combustion; Commercial/Institutional; Natural Gas	99.39	1,807.04	1,517.91	9.40	7.77	8.85	10.84	0.0090
Fuel Combustion; Commercial/Institutional; Residual Oil	2.56	124.74	11.34	37.29	15.99	1.81	357.04	0.0037
Fuel Combustion; Commercial/Institutional; Wood	3.45	44.66	121.80	104.95	90.74	1.01	5.08	0.0000
Fuel Combustion; Industrial; Anthr Coal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
Fuel Combustion; Industrial; Bit Coal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
Fuel Combustion; Industrial; Distillate oil Boiler	1.18	117.98	29.50	13.57	9.14	4.72	249.25	0.0074
Fuel Combustion; Industrial; Distillate oil IC Engine	0.00	74.02	15.93	11.89	11.58	0.00	0.00	0.0000
Fuel Combustion; Industrial; Kerosene	0.50	51.04	12.75	5.85	3.94	2.04	112.72	0.0032
Fuel Combustion; Industrial; Liquefied Petroleum Gas (LPG)	4.52	123.71	69.29	0.43	0.34	2.61	0.52	0.0000
Fuel Combustion; Industrial; Natural Gas	17.75	322.68	271.05	1.74	1.39	10.33	1.94	0.0016
Fuel Combustion; Industrial; Residual Oil	0.11	22.52	2.05	9.10	6.14	0.33	64.47	0.0007
Fuel Combustion; Industrial; Wood	26.63	344.63	939.90	809.88	700.23	10.97	39.16	0.0000
Gasoline Distribution Stage I; Bulk Plants	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
Gasoline Distribution Stage I; Bulk Terminals	1,037.21	0.00	0.00	0.00	0.00	0.00	0.00	0.0000

Table 4
2011 Annual Area Source Emissions (Tons/Year) by Source Category

Source Category	Area Source Emissions (TPY)							
	VOC	NOx	CO	PM10	PM2.5	NH3	SO	Lead
Gasoline Distribution Stage I; Gasoline Service Station Unloading Balanced Submerged filling	496.46	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
Gasoline Distribution Stage I; Gasoline Service Station Unloading Splash filling	685.96	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
Gasoline Distribution Stage I; Gasoline Service Station Unloading Submerged filling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
Gasoline Distribution Stage I; Tank Trucks in Transit	50.42	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
Gasoline Distribution Stage I; Underground storage tank, breathing and emptying	770.96	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
Gasoline Distribution Stage II; Diesel Service Stations, Stage 2	48.04	0.00	0.00	0.00	0.00	0.00	0.00	0.0000

Table 4
2011 Annual Area Source Emissions (Tons/Year) by Source Category

Source Category	Area Source Emissions (TPY)							
	VOC	NOx	CO	PM10	PM2.5	NH3	SO	Lead
Gasoline Distribution Stage II; Gasoline Service Stations, Stage 2	377.62	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
General Laboratory Activities	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
Goats Waste Emissions; Not Elsewhere Classified	0.00	0.00	0.00	0.00	0.00	31.97	0.00	0.0000
Graphic Arts	794.73	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
Horses and Ponies Waste Emissions; Not Elsewhere Classified	0.00	0.00	0.00	0.00	0.00	154.70	0.00	0.0000
Industrial Maintenance Coatings	268.06	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
In-flight (non-Landing-Takeoff cycle) Lead Emissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.4902
Lamp (Fluorescent) Recycling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
Lamp Breakage (Landfill emissions)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
Mining and Quarrying	0.00	0.00	0.00	1,519.43	189.93	0.00	0.00	0.0000
Open Burning - Household Waste	130.65	91.58	1,297.35	579.99	531.15	0.00	15.26	0.0000
Open Burning - Land Clearing Debris	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
Open Burning - Yard Waste - Brush	13.27	3.49	97.76	13.78	10.62	0.00	1.16	0.0000
Open Burning - Yard Waste - Leaves	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
Other Special Purpose Coatings	114.37	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
portable fuel containers, commercial, evaporation (includes diurnal losses)	6.46	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
portable fuel containers, commercial, permeation	3.31	0.00	0.00	0.00	0.00	0.00	0.00	0.0000

Table 4
2011 Annual Area Source Emissions (Tons/Year) by Source Category

Source Category	Area Source Emissions (TPY)							
	VOC	NOx	CO	PM10	PM2.5	NH3	SO	Lead
portable fuel containers, commercial, refilling at the pump, spillage	9.61	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
portable fuel containers, commercial, refilling at the pump, vapor displacement	83.94	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
portable fuel containers, commercial, spilling during transport	207.04	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
portable fuel containers, residential, evaporation (includes diurnal losses)	202.40	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
portable fuel containers, residential, permeation	103.67	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
portable fuel containers, residential, refilling at the pump, spillage	4.99	0.00	0.00	0.00	0.00	0.00	0.00	0.0000

Table 4
2011 Annual Area Source Emissions (Tons/Year) by Source Category

Source Category	Area Source Emissions (TPY)							
	VOC	NOx	CO	PM10	PM2.5	NH3	SO	Lead
portable fuel containers, residential, refilling at the pump, vapor displacement	43.56	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
portable fuel containers, residential, spilling during transport	151.77	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
Poultry production - broilers; Confinement	0.00	0.00	0.00	0.00	0.00	11.04	0.00	0.0000
Poultry production - broilers; Land Application and storage	0.00	0.00	0.00	0.00	0.00	9.03	0.00	0.0000
Poultry production - broilers; manure handling and storage	0.00	0.00	0.00	0.00	0.00	2.01	0.00	0.0000
Poultry production - layers with dry manure management systems; Confinement	0.00	0.00	0.00	0.00	0.00	412.75	0.00	0.0000
Poultry production - layers with dry manure management systems; Land application of manure	0.00	0.00	0.00	0.00	0.00	13.54	0.00	0.0000
Poultry production - layers with wet manure management systems :Land application of manure	0.00	0.00	0.00	0.00	0.00	3.16	0.00	0.0000
Poultry production - layers with wet manure management systems; Confinement	0.00	0.00	0.00	0.00	0.00	6.13	0.00	0.0000
Poultry production - layers with wet manure management systems; Manure handling and storage	0.00	0.00	0.00	0.00	0.00	19.18	0.00	0.0000
Poultry production - turkeys; Confinement	0.00	0.00	0.00	0.00	0.00	1.78	0.00	0.0000
Poultry production - turkeys; Land application and storage	0.00	0.00	0.00	0.00	0.00	1.60	0.00	0.0000
Poultry production - turkeys; Manure handling and storage	0.00	0.00	0.00	0.00	0.00	0.32	0.00	0.0000
Poultry Waste Emissions; Ducks	0.00	0.00	0.00	0.00	0.00	3.91	0.00	0.0000
Poultry Waste Emissions; Geese	0.00	0.00	0.00	0.00	0.00	0.93	0.00	0.0000
Poultry Waste Emissions; Not Elsewhere Classified	0.00	0.00	0.00	0.00	0.00	127.21	0.00	0.0000
Prescribed Forest Burning	33.45	3.40	140.01	15.57	13.20	2.33	1.51	0.0000

Table 4
2011 Annual Area Source Emissions (Tons/Year) by Source Category

Source Category	Area Source Emissions (TPY)							
	VOC	NOx	CO	PM10	PM2.5	NH3	SO	Lead
Publically Owned Treatment Works (POTW)	53.99	0.00	0.00	0.00	0.00	10.73	0.00	0.0000
Residential Heating: Anthracite Coal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
Residential Heating: Bituminous Coal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
Residential Heating: Distillate Oil	187.27	4,815.60	1,337.67	636.73	569.85	267.53	11,396.91	0.3382
Residential Heating: Firelog	181.78	35.31	574.74	134.72	130.50	0.00	0.00	0.0000
Residential Heating: Fireplaces (cordwood)	267.02	36.73	2,105.04	333.42	333.42	25.43	5.65	0.0000

Table 4
2011 Annual Area Source Emissions (Tons/Year) by Source Category

Source Category	Area Source Emissions (TPY)							
	VOC	NOx	CO	PM10	PM2.5	NH3	SO	Lead
Residential Heating: free standing WS EPA certified cat	164.81	21.97	1,147.07	224.14	224.14	9.89	4.39	0.0000
Residential Heating: free standing WS EPA certified non-cat	395.72	75.19	4,643.06	646.34	646.34	29.68	13.19	0.0000
Residential Heating: free standing WS non certified	5,451.38	288.00	23,739.21	3,147.40	3,147.40	174.86	41.14	0.0000
Residential Heating: furnace indoor	67.07	10.47	1,043.49	156.87	156.87	10.23	11.54	0.0000
Residential Heating: Hydronic heater: outdoor	380.21	10.39	2,030.80	361.03	361.03	10.15	11.45	0.0000
Residential Heating: Inserts EPA certified cat	52.61	7.01	366.18	71.55	71.55	3.16	1.40	0.0000
Residential Heating: Inserts EPA certified non-cat	126.25	23.99	1,481.36	206.21	206.21	9.47	4.21	0.0000
Residential Heating: Inserts non certified	1,738.33	91.84	7,569.95	1,003.64	1,003.64	55.76	13.12	0.0000
Residential Heating: Kerosene	0.66	16.92	4.70	2.24	2.00	0.94	40.04	0.0012
Residential Heating: LPG	17.93	488.90	273.74	1.69	1.40	1.60	1.96	0.0000
Residential Heating: Natural Gas	120.99	2,067.76	879.90	11.44	9.46	439.95	13.20	0.0000
Residential Heating: Outdoor wood burning device, NEC	87.46	12.03	689.46	109.20	109.20	8.33	1.85	0.0000
Residential Heating: pellet stoves	1.07	98.91	413.86	79.65	79.65	7.81	8.33	0.0000
Roads, Paved	0.00	0.00	0.00	8,449.24	2,112.31	0.00	0.00	0.0000
Roads, Unpaved	0.00	0.00	0.00	7,361.57	732.12	0.00	0.00	0.0000
Sheep and Lambs Waste Emissions; Total	0.00	0.00	0.00	0.00	0.00	20.12	0.00	0.0000
Surface Coating - Aircraft	172.85	0.00	0.00	0.00	0.00	0.00	0.00	0.0000

Table 4
2011 Annual Area Source Emissions (Tons/Year) by Source Category

Source Category	Area Source Emissions (TPY)							
	VOC	NOx	CO	PM10	PM2.5	NH3	SO	Lead
Surface Coating - Electronic and other Electric Coatings	27.92	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
Surface Coating - Factory Finished Wood: SIC 2426 thru 242	22.76	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
Surface Coating - Large Appliances: SIC 363	6.19	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
Surface Coating - Machinery and Equipment: SIC 35	112.12	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
Surface Coating - Marine	732.42	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
Surface Coating - Metal Can Coating	321.71	0.00	0.00	0.00	0.00	0.00	0.00	0.0000

Table 4
2011 Annual Area Source Emissions (Tons/Year) by Source Category

Source Category	Area Source Emissions (TPY)							
	VOC	NOx	CO	PM10	PM2.5	NH3	SO	Lead
Surface Coating - Metal Furniture: SIC 25	108.40	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
Surface Coating - Miscellaneous Manufacturing	392.13	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
Surface Coating - Motor Vehicles	244.48	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
Surface Coating - Paper, foil, and film	99.33	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
Surface Coating - Railroad	0.87	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
Surface Coating - Sheet, strip, and coil	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
Surface Coating - Traffic Markings	3.10	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
Surface Coating - Wood Furniture	452.44	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
Swine production - deep-pit house operations (unspecified animal age); Confinement	0.00	0.00	0.00	0.00	0.00	6.90	0.00	0.0000
Swine production - deep-pit house operations (unspecified animal age); Land application of manure	0.00	0.00	0.00	0.00	0.00	3.22	0.00	0.0000
Swine production - operations with lagoons (unspecified animal age); Confinement	0.00	0.00	0.00	0.00	0.00	4.94	0.00	0.0000
Swine production - operations with lagoons (unspecified animal age); Land application of manure	0.00	0.00	0.00	0.00	0.00	0.82	0.00	0.0000
Swine production - operations with lagoons (unspecified animal age); Manure handling and storage	0.00	0.00	0.00	0.00	0.00	9.99	0.00	0.0000
Swine production - outdoor operations (unspecified animal age); Confinement	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.0000
Swine production composite; Not Elsewhere Classified	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
State Totals:	40,687.59	12,511.85	54,055.63	34,705.97	13,590.04	3,593.72	13,405.84	1.8901

Table 5
2011 Typical High Ozone Summer Day Emissions (Lbs/Day) by Source Category
For Area Sources

Source Category	Area Source Daily Emissions (Lbs/Day)		
	VOC	NO_x	CO
Ag Pesticide	1,215.82	0.00	0.00
Agric - Crops /Field Burning - whole field set on fire /Unspecified crop type and Burn Method	0.00	0.00	0.00
Agricultural Tilling	0.00	0.00	0.00
Architectural Coatings	23,997.54	0.00	0.00
Auto Refinishing SIC 7532	6,403.96	0.00	0.00
Aviation Gasoline Distribution: Stage I	684.17	0.00	0.00
Aviation Gasoline Distribution: Stage II	35.50	0.00	0.00
Beef cattle - finishing operations on feedlots (drylots); Confinement	0.00	0.00	0.00
Beef cattle - finishing operations on feedlots (drylots); Land application of manure	0.00	0.00	0.00
Beef cattle - finishing operations on feedlots (drylots); Manure handling and storage	0.00	0.00	0.00
Beef cattle - finishing operations on pasture/range :Confinement	0.00	0.00	0.00
Beef cattle production composite; Not Elsewhere Classified	0.00	0.00	0.00
C&C: Misc. Products (not otherwise covered)	687.33	0.00	0.00
C&C: adhesives and sealants	5,596.80	0.00	0.00
C&C: Auto Aftermarket	13,353.79	0.00	0.00
C&C: Cleaning Products; Household	17,674.12	0.00	0.00
C&C: Coatings and Related Products	9,327.99	0.00	0.00
C&C: Cosmetics and Toiletries	18,656.02	0.00	0.00
C&C: FIFRA Regulated Products	17,477.73	0.00	0.00
Commercial Cooking: Clamshell Griddle Frying	2.60	0.00	0.00
Commercial Cooking: Conveyorized Charbroiling	161.86	0.00	541.02
Commercial Cooking: Deep Fat Frying	84.92	0.00	0.00
Commercial Cooking: Flat Griddle Frying	72.55	0.00	150.17
Commercial Cooking: Under-fired Charbroiling	553.74	0.00	1,812.19
Construction - Non-Residential	0.00	0.00	0.00

Table 5
2011 Typical High Ozone Summer Day Emissions (Lbs/Day) by Source Category
For Area Sources

Source Category	Area Source Daily Emissions (Lbs/Day)		
	VOC	NOx	CO
Construction - Residential	0.00	0.00	0.00
Construction - Road	0.00	0.00	0.00
Cremation - Human	0.22	62.31	0.29
Cutback Asphalt	0.00	0.00	0.00
Dairy cattle - deep pit dairy; Confinement	0.00	0.00	0.00
Dairy cattle - deep pit dairy; Land application of manure	0.00	0.00	0.00
Dairy cattle - deep pit dairy; Manure handling and storage	0.00	0.00	0.00
Dairy cattle - drylot/pasture dairy; Confinement	0.00	0.00	0.00
Dairy cattle - drylot/pasture dairy; Land application of manure	0.00	0.00	0.00
Dairy cattle - drylot/pasture dairy; Manure handling and storage	0.00	0.00	0.00
Dairy cattle - flush dairy; Confinement	0.00	0.00	0.00
Dairy cattle - flush dairy; Land application of manure	0.00	0.00	0.00
Dairy cattle - flush dairy; Manure handling and storage	0.00	0.00	0.00
Dairy cattle - scrape dairy; Confinement	0.00	0.00	0.00
Dairy cattle - scrape dairy; Land application of manure	0.00	0.00	0.00
Dairy cattle - scrape dairy; Manure handling and storage	0.00	0.00	0.00
Dairy cattle composite; Not Elsewhere Classified	0.00	0.00	0.00
Degreasing	24,139.87	0.00	0.00
Dental Preparation and Use	0.00	0.00	0.00
Dry Cleaning	68.65	0.00	0.00
Emulsified Asphalt	0.00	0.00	0.00
Fertilizer Application; Ammonium Nitrate	0.00	0.00	0.00
Fertilizer Application; Ammonium Sulfate	0.00	0.00	0.00
Fertilizer Application; Ammonium Thiosulfate	0.00	0.00	0.00
Fertilizer Application; Anhydrous Ammonia	0.00	0.00	0.00
Fertilizer Application; Aqueous Ammonia	0.00	0.00	0.00

Table 5
2011 Typical High Ozone Summer Day Emissions (Lbs/Day) by Source Category
For Area Sources

Source Category	Area Source Daily Emissions (Lbs/Day)		
	VOC	NO_x	CO
Fertilizer Application; Calcium Ammonium Nitrate	0.00	0.00	0.00
Fertilizer Application; Diammonium Phosphate	0.00	0.00	0.00
Fertilizer Application; Liquid Ammonium Polyphosphate	0.00	0.00	0.00
Fertilizer Application; Miscellaneous Fertilizers	0.00	0.00	0.00
Fertilizer Application; Monoammonium Phosphate	0.00	0.00	0.00

Table 5
2011 Typical High Ozone Summer Day Emissions (Lbs/Day) by Source Category
For Area Sources

Source Category	Area Source Daily Emissions (Lbs/Day)		
	VOC	NOx	CO
Fertilizer Application; Nitrogen Solutions	0.00	0.00	0.00
Fertilizer Application; N-P-K (mult-grade nutrient fertilizers)	0.00	0.00	0.00
Fertilizer Application; Potassium Nitrate	0.00	0.00	0.00
Fertilizer Application; Urea	0.00	0.00	0.00
Forest Wildfires	193.00	17.83	810.03
Fuel Combustion; Commercial/Institutional; Anthra Coal	0.00	0.00	0.00
Fuel Combustion; Commercial/Institutional; Bit Coal	0.00	0.00	0.00
Fuel Combustion; Commercial/Institutional; Distillate Oil Boiler	25.58	1,504.77	376.19
Fuel Combustion; Commercial/Institutional; Distillate Oil IC Engine	0.00	2,235.70	481.19
Fuel Combustion; Commercial/Institutional; Kerosene	0.18	10.69	2.66
Fuel Combustion; Commercial/Institutional; Liquified Petroleum Gas	14.41	394.34	220.86
Fuel Combustion; Commercial/Institutional; Natural Gas	327.65	5,957.26	5,004.10
Fuel Combustion; Commercial/Institutional; Residual Oil	8.45	411.23	37.38
Fuel Combustion; Commercial/Institutional; Wood	0.00	0.00	0.00
Fuel Combustion; Industrial; Anthr Coal	0.00	0.00	0.00
Fuel Combustion; Industrial; Bit Coal	0.00	0.00	0.00
Fuel Combustion; Industrial; Distillate oil Boiler	7.56	756.28	189.07
Fuel Combustion; Industrial; Distillate oil IC Engine	0.00	474.50	102.13
Fuel Combustion; Industrial; Kerosene	3.22	327.19	81.75
Fuel Combustion; Industrial; Liquified Petroleum Gas (LPG)	28.98	793.04	444.17
Fuel Combustion; Industrial; Natural Gas	113.76	2,068.45	1,737.49
Fuel Combustion; Industrial; Residual Oil	0.73	144.37	13.13
Fuel Combustion; Industrial; Wood	0.00	0.00	0.00
Gasoline Distribution Stage I; Bulk Plants	0.00	0.00	0.00
Gasoline Distribution Stage I; Bulk Terminals	5,981.65	0.00	0.00
Gasoline Distribution Stage I; Gasoline Service Station Unloading Balanced Submerged filling	2,863.10	0.00	0.00

Table 5
2011 Typical High Ozone Summer Day Emissions (Lbs/Day) by Source Category
For Area Sources

Source Category	Area Source Daily Emissions (Lbs/Day)		
	VOC	NO_x	CO
Gasoline Distribution Stage I; Gasoline Service Station Unloading Splash filling	3,955.97	0.00	0.00
Gasoline Distribution Stage I; Gasoline Service Station Unloading Submerged filling	0.00	0.00	0.00
Gasoline Distribution Stage I; Tank Trucks in Transit	283.39	0.00	0.00
Gasoline Distribution Stage I; Underground storage tank, breathing and emptying	4,446.34	0.00	0.00
Gasoline Distribution Stage II; Diesel Service Stations, Stage 2	183.72	0.00	0.00

Table 5
2011 Typical High Ozone Summer Day Emissions (Lbs/Day) by Source Category
For Area Sources

Source Category	Area Source Daily Emissions (Lbs/Day)		
	VOC	NOx	CO
Gasoline Distribution Stage II; Gasoline Service Stations, Stage 2	2,986.27	0.00	0.00
General Laboratory Activities	0.00	0.00	0.00
Goats Waste Emissions; Not Elsewhere Classified	0.00	0.00	0.00
Graphic Arts	6,113.27	0.00	0.00
Horses and Ponies Waste Emissions; Not Elsewhere Classified	0.00	0.00	0.00
Industrial Maintenance Coatings	2,061.98	0.00	0.00
In-flight (non-Landing-Takeoff cycle) Lead Emissions	0.00	0.00	0.00
Lamp (Fluorescent) Recycling	0.00	0.00	0.00
Lamp Breakage (Landfill emissions)	0.00	0.00	0.00
Mining and Quarrying	0.00	0.00	0.00
Open Burning - Household Waste	717.86	503.18	7,128.32
Open Burning - Land Clearing Debris	0.00	0.00	0.00
Open Burning - Yard Waste - Brush	72.90	19.18	537.15
Open Burning - Yard Waste - Leaves	0.00	0.00	0.00
Other Special Purpose Coatings	879.78	0.00	0.00
portable fuel containers, commercial, evaporation (includes diurnal losses)	71.18	0.00	0.00
portable fuel containers, commercial, permeation	36.46	0.00	0.00
portable fuel containers, commercial, refilling at the pump, spillage	105.82	0.00	0.00
portable fuel containers, commercial, refilling at the pump, vapor displacement	924.26	0.00	0.00
portable fuel containers, commercial, spilling during transport	2,279.73	0.00	0.00
portable fuel containers, residential, evaporation (includes diurnal losses)	2,228.66	0.00	0.00
portable fuel containers, residential, permeation	1,141.46	0.00	0.00
portable fuel containers, residential, refilling at the pump, spillage	55.00	0.00	0.00
portable fuel containers, residential, refilling at the pump, vapor displacement	479.58	0.00	0.00
portable fuel containers, residential, spilling during transport	1,671.16	0.00	0.00
Poultry production - broilers; Confinement	0.00	0.00	0.00

Table 5
2011 Typical High Ozone Summer Day Emissions (Lbs/Day) by Source Category
For Area Sources

Source Category	Area Source Daily Emissions (Lbs/Day)		
	VOC	NOx	CO
Poultry production - broilers; Land Application and storage	0.00	0.00	0.00
Poultry production - broilers; manure handling and storage	0.00	0.00	0.00
Poultry production - layers with dry manure management systems; Confinement	0.00	0.00	0.00
Poultry production - layers with dry manure management systems; Land application of manure	0.00	0.00	0.00
Poultry production - layers with wet manure management systems :Land application of manure	0.00	0.00	0.00

Table 5
2011 Typical High Ozone Summer Day Emissions (Lbs/Day) by Source Category
For Area Sources

Source Category	Area Source Daily Emissions (Lbs/Day)		
	VOC	NOx	CO
Poultry production - layers with wet manure management systems; Confinement	0.00	0.00	0.00
Poultry production - layers with wet manure management systems; Manure handling and storage	0.00	0.00	0.00
Poultry production - turkeys; Confinement	0.00	0.00	0.00
Poultry production - turkeys; Land application and storage	0.00	0.00	0.00
Poultry production - turkeys; Manure handling and storage	0.00	0.00	0.00
Poultry Waste Emissions; Ducks	0.00	0.00	0.00
Poultry Waste Emissions; Geese	0.00	0.00	0.00
Poultry Waste Emissions; Not Elsewhere Classified	0.00	0.00	0.00
Prescribed Forest Burning	0.00	0.00	0.00
Publically Owned Treatment Works (POTW)	415.32	0.00	0.00
Residential Heating: Anthracite Coal	0.00	0.00	0.00
Residential Heating: Bituminous Coal	0.00	0.00	0.00
Residential Heating: Distillate Oil	226.37	5,821.05	1,616.96
Residential Heating: Firelog	0.00	0.00	0.00
Residential Heating: Fireplaces (cordwood)	0.00	0.00	0.00
Residential Heating: free standing WS EPA certified cat	0.00	0.00	0.00
Residential Heating: free standing WS EPA certified non-cat	0.00	0.00	0.00
Residential Heating: free standing WS non certified	0.00	0.00	0.00
Residential Heating: furnace indoor	0.00	0.00	0.00
Residential Heating: Hydronic heater: outdoor	0.00	0.00	0.00
Residential Heating: Inserts EPA certified cat	0.00	0.00	0.00
Residential Heating: Inserts EPA certified non-cat	0.00	0.00	0.00
Residential Heating: Inserts non certified	0.00	0.00	0.00
Residential Heating: Kerosene	1.77	45.55	12.65
Residential Heating: LPG	48.26	1,316.26	736.98
Residential Heating: Natural Gas	186.13	3,181.18	1,353.69

Table 5
2011 Typical High Ozone Summer Day Emissions (Lbs/Day) by Source Category
For Area Sources

Source Category	Area Source Daily Emissions (Lbs/Day)		
	VOC	NO_x	CO
Residential Heating: Outdoor wood burning device, NEC	365.20	50.24	2,879.06
Residential Heating: pellet stoves	0.00	0.00	0.00
Roads, Paved	0.00	0.00	0.00
Roads, Unpaved	0.00	0.00	0.00
Sheep and Lambs Waste Emissions; Total	0.00	0.00	0.00

Table 5
2011 Typical High Ozone Summer Day Emissions (Lbs/Day) by Source Category
For Area Sources

Source Category	Area Source Daily Emissions (Lbs/Day)		
	VOC	NOx	CO
Surface Coating - Aircraft	1,329.61	0.00	0.00
Surface Coating - Electronic and other Electric Coatings	214.76	0.00	0.00
Surface Coating - Factory Finished Wood: SIC 2426 thru 242	175.09	0.00	0.00
Surface Coating - Large Appliances: SIC 363	47.59	0.00	0.00
Surface Coating - Machinery and Equipment: SIC 35	862.49	0.00	0.00
Surface Coating - Marine	5,634.03	0.00	0.00
Surface Coating - Metal Can Coating	2,474.69	0.00	0.00
Surface Coating - Metal Furniture: SIC 25	833.87	0.00	0.00
Surface Coating - Miscellaneous Manufacturing	3,016.36	0.00	0.00
Surface Coating - Motor Vehicles	1,880.63	0.00	0.00
Surface Coating - Paper, foil, and film	764.04	0.00	0.00
Surface Coating - Railroad	6.70	0.00	0.00
Surface Coating - Sheet, strip, and coil	0.00	0.00	0.00
Surface Coating - Traffic Markings	36.49	0.00	0.00
Surface Coating - Wood Furniture	3,480.30	0.00	0.00
Swine production - deep-pit house operations (unspecified animal age); Confinement	0.00	0.00	0.00
Swine production - deep-pit house operations (unspecified animal age); Land application of manure	0.00	0.00	0.00
Swine production - operations with lagoons (unspecified animal age); Confinement	0.00	0.00	0.00
Swine production - operations with lagoons (unspecified animal age); Land application of manure	0.00	0.00	0.00
Swine production - operations with lagoons (unspecified animal age); Manure handling and storage	0.00	0.00	0.00
Swine production - outdoor operations (unspecified animal age); Confinement	0.00	0.00	0.00
Swine production composite; Not Elsewhere Classified	0.00	0.00	0.00
StateWide Total:	202,458.00	26,094.59	26,268.66

Attachment 1

Excerpts from Connecticut's 2005 Draft Periodic Emission Inventory (PEI) for Ozone and Carbon Monoxide

- **Mobile Sources:**

- **Aircraft Emissions A1-2**
(2005 PEI Section 3.4 excerpts)
- **Locomotive Emissions A1-60**
(2005 PEI Section 3.6 excerpts)
- **References A1-73**
(2005 PEI Section 3.7)

- **Area Source:**

- **Vehicle Fueling and Underground Tank Breathing A1-74**
(2005 PEI Section 4.2.2 excerpts)
- **Area Source: References A1-92**

3.4 AIRCRAFT

Aircraft emissions were calculated using diverse databases along with other sources of information. 2005 CT DOT activity reports and Federal Aviation Administration (FAA) activity reports from the largest airports (those with FAA control towers) were considered where possible. However, Connecticut survey data collected using the form shown in Attachment F-1 generally provided aircraft specific LTOs and were considered to be of higher quality than other data sources. The airports in Connecticut having control towers are as follows.

- Bradley International Airport
- Danbury Municipal Airport
- Groton-New London Airport
- Hartford-Brainard Airport
- Igor I. Sikorsky Memorial Airport
- Tweed-New Haven Airport
- Waterbury-Oxford Airport

Table 3.4-1 provides a comparison between the Federal Aviation Administration's Terminal Area Forecast (TAF) Data and available survey data. The Terminal Area Forecast System is the official forecast of aviation activity at FAA facilities, which includes historical data (years 2004 and earlier) and future forecasts for the active airports in the National Plan of Integrated Airport System (NPIAS). This includes FAA towered airports, federally contracted towered airports, non-federal towered airports, and many non-towered airports. Airports that provided survey responses that had significantly different activity than reported in TAF were contacted to confirm appropriate LTO counts were used in the emissions estimates.

The Bureau used the FAA's Emission and Dispersion Modeling System (EDMS) version 4.5 software package to estimate emissions. In many cases the EDMS assigned a default engine to each type of aircraft, and each engine carried default emission factors. For exact survey response aircraft matches, the EDMS defaults were used. In other cases, research was required to assign the appropriate engine to the survey response. It is important to note that the engine assignment and not the specific aircraft model that defines the emission factors for each operating mode, multi-engine aircraft generate pollution at a proportional rate to the number of engines.

Because of the correlation between temperature and pollution production, an effort was made to seasonally adjust the LTOs at each airport. Annual, summer (Ozone season) and winter (CO season) aircraft specific LTO data were obtained from survey results. This enabled the Bureau to calculate seasonal emissions directly for these airports. Connecticut Department of Transportation inputs were obtained for airports that did not supply seasonal LTO information. Seasonal adjustments were calculated for hospital and non-hospital helicopters and for fixed wing aircraft. Non-hospital helicopters and aircraft had increased activity during the summer and lowest activity in the winter, while hospital helicopter LTOs approximated uniform activity year round.

The emission rates for aircraft vary at different stages (or modes) of each LTO cycle. The four LTO modes are Taxi/Idle-out/in, Takeoff, Climb out, and Approach. Each mode occurs for a fixed length of time depending on the category of aircraft (i.e., jumbo jet, helicopter, turboprop, etc.). The emission estimates used default time-in-mode values provided by the EDMS model. The EPA

default assignment of 26 minutes for Taxi/Idle-out/in was applied to all airports, including Bradley International Airport.

Table 3.4-2A and 3.4-2B show how the aircraft make and model survey results reported to DEP were matched to the EDMS aircraft/engine model assignments. Table 3.4-2A shows a consolidation of survey responses into a single common aircraft make model, while Table 3.4-2B shows composite emission factors of pounds of pollutant per LTO. Table 3.4-2B also shows the reported survey LTO count for the stated aircraft makes and models. LTO's were apportioned when more than one EDMS aircraft/engine model combination was assigned to the survey aircraft make and model. Individual surveys and web-based sources, such as www.en.wikipedia.org, www.risingup.com and www.airliners.net, were used and EDMS aircraft/engine emission estimates were reviewed to ensure reasonable assignments for the subject survey data.

When available, the default EDMS engine for the aircraft was used for the survey response. Otherwise, a weighted assignment of engines was used. A good example showing this situation is the aircraft model "ERJ-135" model survey response, which was applied equally to ten engine types having similar but not identical emission factors listed for the EDMS 4.5 "Embraer ERJ 135/140" aircraft.

Reviewing the table for more extreme examples, it is possible to assess a range of emission factors assigned to the survey results. Looking at the links to the EDMS options available for the survey response of "Beechjet" in the Table 3.4-2 of the 2002 Periodic Emissions Inventory Document, it was possible to see that both the Beechjet 400 and the Beechjet 400A are two engine airplanes assigned an EDMS engine model of "JT15D-5 (A & B)" with identical emission factors. Given that both options provide identical results, the percentage of LTOs assigned to each model would have no impact on calculated emissions, therefore in the processing of 2005 data the entries were combined to a single "Beechjet 400" listing. Consolidation of these similar survey responses are shown in Table 3.4-2A. The consolidation of numerous survey response aircraft make and models into a reduced set of aircraft make and models served to limit the size of Table 3.4-2B and to clarify interpretation of some of the inputs. For example the "Christian Eagle" was interpreted to be the "Christen Eagle" as the existence of a "Christian Eagle" could not be demonstrated. In contrast to airplane makes and models having the same emissions, a single aircraft could use many different engines having very different emission factors. The survey response of "C-135" presents an example of a single aircraft having a large range of emission factors. The survey response of "C-135" presents the largest range of emission factors for linked EDMS airplane makes and models due in part to it being a four-engine airplane. The minimum CO emission factor for "C-135" is 46.451 lb CO/ LTO for the "CFM56-2A SERIES" engine, while the maximum CO emission factor for "C-135" is 281.75 lb CO/ LTO for the "TF33-P-100" engine. In this "C-135" case, the percent applied for each link has an impact to calculated emissions. 6% was applied to the largest emission factor, while the balance of the percent applied to various emission factors that were lower than the maximum emission factor yielding a composite emission factor of 143.86 lb CO/ LTO for "C-135". Clearly, the emission factor could vary from 46.451 lb CO/ LTO to 281.75 lb CO/ LTO depending upon the engines used on the "C-135" performing the LTOs. This largest range of emission factors was selected to illustrate the widest possible difference in emission factors for the purpose of

illustrating how the use of different engines on an airplane can influence the emission factor. This difference is extreme as the next widest range of emission factors was less than half the range of this “C-135” example. The two examples presented above illustrate that different EDMS assignments choices available for airplanes may or may not impact emission factors linked to a survey response. Table 3.4-2B shows the range of emission factors linked to aircraft make and model groups extracted from survey responses. Table 3.4-2A is not limited to showing aircraft survey responses having similar emissions. Some consolidations in Table 3.4-2A combine engines having different emission factors that were derived on a similar percentage population weighting system, the “Robinson R-22 Helicopter” would serve as such an example, while other entries serve to clarify the interpretation of the survey input based on EDMS 4.5 or information obtained from web searches.

Table 3.4-2B also shows that the emission factor varies with engine model and number of engines on the airplane. When the number of engines cannot explain a difference in the presented emission factors for an engine model, it is usually due to the aircraft having different time-in-mode values. This is most pronounced when the same engine is used on helicopters and fixed wing aircraft.

Survey inputs that indicated an aircraft or aircraft engine combination that were not included in EDMS 4.5 were either added as a user defined aircraft or matched to a best available EDMS 4.5 entry or weighted combination EDMS 4.5 entries. User Defined aircraft can be identified in Table 3.4-2B as starting with two asterisks (i.e. **). **LifeStar (BK-117), **Robinson R-44, **Sikorsky S76, and **UH-1H Helicopter were User Defined aircraft added to the standard EDMS 4.5 aircraft options. The number of engine(s) and the associated engine are listed in Table 3.4-2B for these user defined aircraft.

Emissions were calculated using a methodology consistent with the 1992 Procedures for Emission Inventory Preparation Document⁴. The EDMS program returned emission estimates for each mode of operation. Internally, EDMS Mode 1 corresponds to approach, Mode 2 corresponds to climb out, Mode 3 corresponds to takeoff, and Mode 4 corresponds to idle. The emissions for each mode were combined to obtain a composite emission factor for each LTO, which when multiplied by the number of LTOs for a given period yields emission results for that period. The LTO seasonal adjustments and unit conversions were factored in the following equation.

$$E_{ij} = LTO_j \times TIM_{jk} \times FF_{jk} / 1000 \times EI_{ijk} \times N_{e_j} / P / CF$$

Where:

- E_{ij} = Total emissions of pollutant i, in pounds per day or tons per year, produced by aircraft type j for all LTO cycles
- LTO_j = Annual Landing and Take-Off Cycles for aircraft type j. (If summer or winter emissions were sought, seasonal LTO Cycles for aircraft type j were used when known or seasonal LTO Cycles for aircraft type j were calculated from seasonal adjustment factors when not directly available from survey data.)

TIM_{jk}	=	Time in mode for mode k, in minutes, for aircraft type j
FF_{jk}	=	Fuel flow for mode k, in pounds of fuel per minute, for each engine used on aircraft type j.
EI_{ijk}	=	Emission index for pollutant i, in pounds of pollutant per thousand pounds of fuel, in mode k for aircraft type j
1000	=	1000 pounds of fuel per thousand pounds of fuel conversion factor to balance the units of the equation (i.e. FF_{jk} is in units of pounds of fuel per minute and E_{ijk} is in units of pounds of pollutant per thousand pounds of fuel, dividing by 1000 lbs/thousand pounds of fuel balances the units of the equation).
Ne_j	=	Number of engines used on aircraft type j
P	=	Period which is 1 year if calculating annual emissions or is the number of days in Ozone or CO season if calculating a daily emission rate.
CF	=	Conversion factor for balancing units when annual emissions are calculated, which is 2000 for annual calculations and 1 for seasonal calculations. The units for the equation are pounds per day for seasonal input, but are not tons per year for annual input. Consequently, it is necessary to divide by 2000 pounds per ton to obtain the desired annual units of tons per year.

A sample calculation for CO emissions from Gulfstream II aircraft LTOs at Igor I. Sikorsky Memorial Airport in Fairfield County during the ozone season in 2005 was selected as an example, since it is powered by two engines (engine model is a Rolls Royce series SPEY MK511-8), which was included in Table 5-4 of the procedures document. This calculation cannot be matched to an output in Table 3.4-3, since Igor I. Sikorsky Memorial Airport has numerous other aircraft traffic. However, a discussion and information comparing the 1992 Procedures Document and EDMS emission results is presented to illustrate how the EMDS methodology is consistent with the 1992 Procedures.

TIM_{jk} for a Gulfstream II jet can be obtained from Commercial Carrier Jumbo, long and medium range jet row of the 1992 Procedures for Emission Inventory Preparation Document⁴ Table 5-1 or via EDMS table AIR_CAT row XCJX and is also shown on the Engine Emissions Tab of the EDMS Aircraft Operations & Assignments Form). The Parameters needed to calculate emissions were obtained from the 1992 Procedures Document and EDMS and presented below. This exercise confirmed consistency between EDMS and the 1992 Procedures Document for the SPEY MK511-8 aircraft engine.

Mode	EDMS 4.2 Mode Number	Time in Mode (Min)	1992 Procedures Document Fuel Flow (lb/min)	EDMS 4.2 Fuel Flow converted from metric units from EDMS Table ENG_EI	1992 Procedures Document CO Emission Rate (lb/1000 lb)	EDMS 4.2 CO Emission Rate From Table ENG_EI
Takeoff	3	0.7	117.86 lb/min	117.86 lb/min	0.12	0.12
Climb out	2	2.2	96.03 lb/min	96.03 lb/min	0.63	0.63
Approach	1	4.0	36.77 lb/min	36.77 lb/min	2.65	2.65
Idle	4	26	16.80 lb/min	16.80 lb/min	31.77	31.77

A sample calculation for CO emissions from Gulfstream II LTOs at Igor I. Sikorsky Memorial Airport in Fairfield County during the ozone season in 2005 follows.

$$E_{ij} = 500 \times [(0.7 \times 117.86 / 1000 \times 0.12 \times 2) \text{ takeoff} \\ + (2.2 \times 96.03 / 1000 \times 0.63 \times 2) \text{ climb out} \\ + (4.0 \times 36.77 / 1000 \times 2.65 \times 2) \text{ approach} \\ + (26 \times 16.80 / 1000 \times 31.77 \times 2)] / 91 \text{ taxi/idle}$$

$$E_{ij} = 500 \times [28.820] / 91 \text{ All modes combined}$$

$$E_{ij} = 158.35 \frac{lbs}{day} CO$$

Table 3.4-2B presents EDMS composite LTO emission factors. The EDMS composite LTO CO emission factor for the Gulfstream II is 28.814 lb per LTO, which compares well with the 28.820 lb per LTO composite emission factor calculated above for all modes combined. EDMS was developed after 1992 and contains more engines and aircraft that contained in the 1992 Procedures Document.

TABLE 3.4-1**Comparison of TAF Database Airports Activity versus Survey Data**

(Sorted by TAF Database Activity in Descending Order)

FAA Location ID	Airport Name	TAF 2005 LTO Estimate	2005 Survey Response
BDL	Bradley INTL Airport	78,580	78,985
HFD	Hartford Brainard	54,981	45,500
DXR	Danbury Municipal Airport	39,183	36,596
BDR	Igor Sikorsky Memorial	34,741	33,712
HVN	Tweed-New Haven	34,029	34,157
GON	Groton New London	31,004	28,942
4B8	Robertson Field	29,600	29,550
OXC	Waterbury Oxford	28,145	27,823
IJD	Windham	15,345	9,025
SNC (1)	Chester	10,400	2,410
5B3	Danielson	10,232	12,170
MMK	Meriden Markham Municipal	9,014	10,024
22B (2)	Mountain Meadow Airstrip	6,530	18
4B9	Simsbury	4,726	5,795
N04	Griswold	1,568	9,914

- (1) Chester Airport was previously designated 3B9 but is now designated SNC.
- (2) Mountain Meadows Airport closed prior to 2005 and was not contained in 2005 FAA listings or web based references other than the TAF database. Mountain Meadows was not licensed for activity in 2005 and is no longer open to aircraft other than helicopters.

TABLE 3.4-2A**Grouping Modifications Made to 2005 Aircraft Survey Responses**

(Sorted by Modified Aircraft Make Model Name in Ascending Order)

Modified Aircraft Make Model Listed in Table 3.4-2	Survey Response Aircraft Make Model before Modification (Note that only modified names are listed)
Adam Jets	Jets Adam Jet
Aeronca 7AC	Aeronca Champ Mononca 7AC
AH1 Helicopter	Helicopter AH1
Avanti Jets	Jets Avanti
Aviat A1 Husky	Aviat A1A Aviat Aircraft Inc Husky A-1A Aviat Aircraft Inc Husky A-1B
B-727-200	B-727-200A B-727-200C B-727-200H B-727-2SH B-737-200
Beech B19 Sport	BEEHCRAFT BB19 MUSKETEER SPORT (1P)
Beech Bonanza	Beech 35 Beech A-36 Beech A36 IO-520 Beech BE-33A Beech BE35 Bonanza Beech Bonanza 35 Beech Bonanza U35A Beech C-33A IO-520 Beech F33A Beech V-35B BEEHCRAFT B36T BONANZA (1T) BEEHCRAFT BE33 DEBONAIR/BONANZA (1P) BEEHCRAFT BE35 BONANZA (1P) BEEHCRAFT BE36 BONANZA (1P) Beechcraft Bonanza Bonanza's
Beech King Air 100	BE-99 Beech King Air 100 (PT6A-28) BEEHCRAFT BE10 KING AIR (2T) BEEHCRAFT BE99 AIRLINER (2T) BEEHCRAFT BE9L KING AIR (2T) BEEHCRAFT BE9T KING AIR (2T) Beechcraft Kingair F-90

TABLE 3.4-2A**Grouping Modifications Made to 2005 Aircraft Survey Responses**

(Sorted by Modified Aircraft Make Model Name in Ascending Order)

Modified Aircraft Make Model Listed in Table 3.4-2	Survey Response Aircraft Make Model before Modification (Note that only modified names are listed)
Beech King Air 200	Beech King Air 200 (PT6A-41)
Beech King Air 300	Beech King Air 300 (PT6A-60, -60A, -60AG)
Beech King Air 350	BEEHCRAFT BE30 SUPER KING AIR (2T+)
Beech King Air 350	BEEHCRAFT B350 SUPER KING AIR (2T+)
Beech King Air B200	Beech B200 King Air
Beech King Air B200	BEEHCRAFT BE20 SUPER KING AIR (2T+)
Beech Queen Air	BEEHCRAFT BE65 QUEEN AIR (2P)
Beech Queen Air	BEEHCRAFT BE70 QUEEN AIR (2P)
Beech Queen Air	BEEHCRAFT BE80 QUEEN AIR (2P)
Beech Queen Air	BEEHCRAFT BE88 QUEEN AIR (2P)
Beechcraft 18	BEEHCRAFT BE18 TWIN BEECH (2P)
Beechcraft 18	Beechcraft D 18
Beechcraft 1900	Beech 1900
Beechcraft 1900	BEEHCRAFT B190 1900 (2T)
Beechcraft Baron	Barons
Beechcraft Baron	BE-58
Beechcraft Baron	Beech B-55
Beechcraft Baron	Beech Baron
Beechcraft Baron	Beech Baron BE55
Beechcraft Baron	Beech BE55
Beechcraft Baron	Beech E_55
Beechcraft Baron	BEEHCRAFT BE55 BARON (2P)
Beechcraft Baron	BEEHCRAFT BE56 TURBO BARON (2P)
Beechcraft Baron	BEEHCRAFT BE58 BARON (2P)
Beechcraft T-6 Texan	BEEHCRAFT T6 0 (1P)
Beechcraft T-6 Texan	T-6
Beechjet 400	BEEHCRAFT BE40 BEECHJET (2J+)
Beechjet 400	Beechjet
Beechjet 400	Beechjet 400 (JT15D-5 (A & B))
Bell 206 Helicopter	Bell 206 (250B17B)
Bell 206 Helicopter	Bell 206 B III
Bell 206 Helicopter	Bell 407 Helicopter
Bell 206 Helicopter	Bell Jet Ranger (Rolls-Royce C-20 Engine)
Bell 206 Helicopter	Helicopter Bell 206
Bell 206 Helicopter	HELO
Bell 206 Helicopter	Jet Ranger Helicopter
Bell 206 Helicopter	Single Engine Turbine Helicopter / Bell Jet Ranger

TABLE 3.4-2A**Grouping Modifications Made to 2005 Aircraft Survey Responses**

(Sorted by Modified Aircraft Make Model Name in Ascending Order)

Modified Aircraft Make Model Listed in Table 3.4-2	Survey Response Aircraft Make Model before Modification (Note that only modified names are listed)
Bellanca Citabria	Bellanca 17-30
Bellanca Jets	Jets Bellanca
Bombardier Global Express	Bombardier Global Ex
C 130 Military Jets	Jets C 130 Military
Cessna 150	Cessna 140A. Cessna 150 or O-200 equivalent
	Cessna 150 (O-200)
	Cessna 150H
	Cessna 150K
	Cessna C-150
	CESSNA C150 150 (1P)
	Cessna Cessna 150
	Piper Cub, Cessna 150 and other 80-125HP engines
Cessna 152	Cessna 152 O-235
	CESSNA C152 152 (1P)
	Cessna Cessna 152
Cessna 170	Cessna 170A
	Cessna 170B
	Cessna 170B 80C
	Cessna 170B 88C
	CESSNA C170 170 (1P)
	Cessna Cessna 170B
Cessna 172	C172
	Cessna C-172
	Cessna Cessna 172
Cessna 172 Skyhawk (IO-320)	Cessna 172 or Piper PA-28 (IO-320-D1AD)
	Cessna 172 Skyhawk (IO-320-D1AD)
	Cessna 172 Skyhawk or Piper PA-28 (IO-320)
Cessna 172 Skyhawk (IO-360-B)	Cessna 172 RG IO-320
	CESSNA C72R CUTLAS (1P)
Cessna 172 Skyhawk (O-320)	CESSNA 172 - 150 HP LYCOMING
	Cessna 172 H
	Cessna 172 R&P O-320
	Cessna 172, Grumman AA-5b, Piper Cherokee 140 or O-320 Eng Equivalent
	Cessna 172B
	Cessna 172I

TABLE 3.4-2A**Grouping Modifications Made to 2005 Aircraft Survey Responses**

(Sorted by Modified Aircraft Make Model Name in Ascending Order)

Modified Aircraft Make Model Listed in Table 3.4-2	Survey Response Aircraft Make Model before Modification (Note that only modified names are listed)
	Cessna 172M
	Cessna Cessna 172B
Cessna 180	Cessna 180B OBF
	Cessna 185
	CESSNA C180 SKYWAGON (1P)
	CESSNA C185 SKYWAGON (1P)
Cessna 182	Cessna 182, Lancair, RV 8 and Bonanza 200-300 HP Engines
	Cessna 182-J
	Cessna 182Q
	Cessna 182RG
	CESSNA C82R SKYLANE (1P)
	Cessna Skylane
CESSNA 188	CESSNA C188 WAGON (1P)
Cessna 195	Cessna C-195
CESSNA 205	CESSNA C205 205 (1P)
Cessna 206 Skywagon	C206
	CESSNA C206 SKYWAGON/STATION AIR (1P)
CESSNA 207	CESSNA C207 SKYWAGON/STATION AIR (1P)
Cessna 208 Caravan	C-208B
	Cesna Caravan
	CESSNA C208 CARAVAN/CARGOMASTER (1T)
	Cessna Caravan
Cessna 210	CESSNA C210 CENTURIAN (1P)
	Cessna Centurion 11 210
CESSNA 310	CESSNA C310 310 (2P)
CESSNA 335	CESSNA C335 335 (2P)
CESSNA 340	CESSNA C340 340 (2P)
CESSNA 404	CESSNA C404 TITAN (2P)
Cessna 414	Cessna 414 TISO-520
	CESSNA C414 CHANCELLOR (2P)
CESSNA 425 CORSAIR	CESSNA C425 CORSAIR/CONQUEST (2T)
CESSNA C441 CONQUEST	CESSNA C441 CONQUEST (2T)
CESSNA SKYMASTER	CESSNA C336 SKYMASTER (2P)
	CESSNA C337 SKYMASTER (2P)
Cessna T337	Cessna T337 (IO-360-B)

TABLE 3.4-2A**Grouping Modifications Made to 2005 Aircraft Survey Responses**

(Sorted by Modified Aircraft Make Model Name in Ascending Order)

Modified Aircraft Make Model Listed in Table 3.4-2	Survey Response Aircraft Make Model before Modification (Note that only modified names are listed)
CH-46 Helicopter	Helicopter CH46
CH-47 Helicopter	Helicopter CH-47
Challenger Jets	Jets Challenger
Cherokee six	Piper Saratoga
	PIPER P32R LANCE / SARATOGA (1P)
	Piper Saratoga T10-540
	Single Engine naturally aspirated similar to Piper Saratoga
Cherokee six or TIO-540 Eq	Cessna 172, Cherokee six , TIO-540-J2B2 Eq.
	Cherokee six (IO-520/IO-540)
	Cherokee Six, Comanche, Mooney M20R or TIO-540-J2B2 Eng Eq.
	Piper PA32R
	Piper Cherokee 6
	PIPER P32T TURBO LANCE (1P)
	PIPER PA32 CHEROKEE SIX / SARATOGA (1P)
Christen Eagle	Christian Eagle
Christen Eagle II	Experimental Christian Eagle II
Cirrus SR20	CIRRUS SR20 SR-20 (1P)
Cirrus SR22	CIRRUS SR22 SR-22 (1P)
Citation Jets (Various)	Jets Citation (Various)
Comanche	Comanche (IO-520/IO-540)
	Piper PA 24-250
	Piper PA-24 Commanche
	PIPER PA24 COMANCHE (1P)
CRJ 701	CRJ-701
Dash 7 / Global Express / etc. Jets	Jets Dash 7 / Global Express / etc.
DHC2 Beaver	BEAVER DHC-2 - 450 HP PRATT&WHITNEY DHC-2 Bealer 450 Hp
Dornier Jets	Jets Dornier
Embraer Jets (various)	Jets Embraer (various)
ERJ-170	ERJ 170
Falcon 10	Jets Falcon 10
Falcon 20	FA20
Falcon 50	Falcon 50 (3 engine)
Grumman AA 5-A	Grumman AA 5-A

TABLE 3.4-2A**Grouping Modifications Made to 2005 Aircraft Survey Responses**

(Sorted by Modified Aircraft Make Model Name in Ascending Order)

Modified Aircraft Make Model Listed in Table 3.4-2	Survey Response Aircraft Make Model before Modification (Note that only modified names are listed)
Grumman AA 5-B	Grumman AA 5-B
Gulfstream II	Gulf Stream G II
Gulfstream III	Gulf Stream G III
Gulfstream IV	Gulf Stream G IV
	Gulf Stream GIV
Gulfstream IV-V	Gulfstream GIV-V
Gulfstream Jets (Various)	Jets Gulfstream (Various)
Gulfstream V	Gulf Stream G V
H-60 Black Hawk	H-60
	Helicopter UH-60
	Helicopter Various Experimental
	UH-60A
	UH-60D
H-65 Helicopter	Helicopter H-65
Hawker 700 or Falcon 50 like Jets	Jet Aircraft like Hawker 700 or Falcon 50
Hawker Jets	Jets Hawker
Hughes Helicopter 500C	Hugh's Helicopter 500C
Husky Jets	Jets Husky
IO-360-B Eng. Eq.	Beech C-23, Sundowner, Cessna 172 Skyhawk, Mooney M20, Piper Cherokee 180 or IO-360-B Eng. Eq.
	Piper Archer
	Piper Archer II
	Piper 180
	Piper 181
	Piper 200R
	Piper Archer
Piper Cherokee 180	
Lear Jets (Various)	Jets Lear (Various)
Learjet 35	LR-35
Learjet 35/36	LR-35/36
Learjet 35A	LR-35A
Learjet 35B	LR-35B
Learjet 60	LR-60
LifeStar	American Eurocopter BK-117
	BK117 Eurocopter

TABLE 3.4-2A**Grouping Modifications Made to 2005 Aircraft Survey Responses**

(Sorted by Modified Aircraft Make Model Name in Ascending Order)

Modified Aircraft Make Model Listed in Table 3.4-2	Survey Response Aircraft Make Model before Modification (Note that only modified names are listed)
	BK-117 Helicopter
	Life Star Helicopter
	Lifestar Helicopter
	MBB BK-117
Maule	Cessna Maule
	Maule 180-210-225
	Maule MT-7-235
	Maule MTA
Maule Jets	Jets Maul
Mooney M-20	Mooney M20
	Mooney M-20C
	Mooney Single Engine
Mooney w Textron Engine	Textron Mooney
Not Listed	Hot Air Ballon Take-offs
Navajo (Twin Engine TIO-540-J2B2)	Navajo (IO-520/IO-540)
	Navajo (twin TIO-540-J2B2)
O-320 Eng Eq.	Cessna 172 Skyhawk, Grumman AA-5b, Piper Cherokee 140 or O-320 Eng Eq.
	Piper PA 140 Cherokee
	Piper PA140 Cherokee
	Piper Cherokee 140
P-337P Skymaster (Twin Engine TSIO-360C)	P-337P Skymaster (TSIO-360C)
Pilatus Jets	Jets Pilatus
Piper Aztec	Aztec (TIO-540-J2B2)
	Piper Aztech
	PIPER PA27 AZTEC (2P)
Piper Cheyenne	PIPER PAY1 CHEYENNE 1 (2T)
	Twin Engine Turbine Piper Cheyenne
Piper Cub	Piper J-5A Cub
	Piper J3-Cub
	Piper Cubs
	Piper J-3
	Piper J3 Cub
	Piper J-3 Cub
	PIPER PA-11 - 85 HP CONTINENTAL
	PIPER PA11 CUB SPECIAL (1P)

TABLE 3.4-2A**Grouping Modifications Made to 2005 Aircraft Survey Responses**

(Sorted by Modified Aircraft Make Model Name in Ascending Order)

Modified Aircraft Make Model Listed in Table 3.4-2	Survey Response Aircraft Make Model before Modification (Note that only modified names are listed)
	Piper PA12
	PIPER PA12 SUPER CRUISER (1P)
Piper PA 28-140	Piper PA 28-140
Piper PA 28-161	Piper PA 28-161
Piper PA-18 Supercub	PA-18 Supercub 180 Hp
	PIPER PA18 SUPER CUB (1P)
	PIPER PA-18-180 - 180 HP LYCOMING
Piper PA-25 Pawnee	Piper PA25
	PIPER PA25 PAWNEE (1P)
Piper PA-31T Cheyenne	PA-31T Cheyenne
	PA-31T Cheyenne (PT6A-28)
Piper PA-42 Cheyenne	PA-42 Cheyenne (PT6A-41)
PIPER PA46 MALIBU	PIPER PA46 NMALIBU / MIRAGE (1P)
Piper Seneca	Piper PA-34-200
	Piper Seneca
	PIPER PA34 SENECA (2P)
Piper Warrior	Piper Warrior IO-320
	Piper Warrior PA-28
Pit Special Jets	Jets Pit Special
Robinson R-22 Helicopter	Helicopter Robinson R22
	R-22 (Helicopter)
	Robinson R22
	Robinson R-22
	Robinson R22 (IO-320-D1AD)
	Robinson R22 (IO-360-B)
	Robinson R22 (O-320)
	Robinson R22 / Sikorski S52
Robinson R-22-R44 Helicopter	Robinson Helicopter R22-R44
Robinson R-44 Helicopter	Helicopter R44
	Robinson Helicopter R-44 Clipper II
	Robinson R-44
SAAB 340	SF340
Saberliner 75A	Jets Sabreliner
	Saberliner
SH-33 Helicopter	Helicopter SH-33
Sikorsky S-76 Helicopter	Helicopter Sikorsky SK 76

TABLE 3.4-2A**Grouping Modifications Made to 2005 Aircraft Survey Responses**

(Sorted by Modified Aircraft Make Model Name in Ascending Order)

Modified Aircraft Make Model Listed in Table 3.4-2	Survey Response Aircraft Make Model before Modification (Note that only modified names are listed)
	Other at JSD Heliport
	S-76
	S76 Helicopter
	Sikorski S-76C+
	Sikorsky 76B (S-76B)
	Sikorsky S76
	Sikorsky S-76
	Sikorsky S76 (PT6B-36A)
	Sikorsky S76 C+
	Sikorsky S76 Helicopter
	Sikorsky S76B
	Sikorsky S-76B N61CP/N22CP Sikorsky S-92
	Sikorsky S-76C+
Sikorsky S-92 Helicopter	S-92
	Sikorsky S-92
Socata TBM 700	Jets TBM
	TBM
Stinson Voyager	Stinson
	Stinson Vorage
Taylor Craft	Tailor craft
	Tcraft
Twin Comanche	PIPER PA30 TWIN COMANCHEE (2P)
	Twin Comanche (IO-320-D1AD)
UH-1 Helicopter	Helicopter UH-1
	Hughie Helicopter
UH-1H Helicopter	UH-1H
Ultralights	Assorted Ultralights
	Ultra Lights
	Ultralight
	Ultralights, Mixed
	Ultralites
West Wind	Jets West Wind

TABLE 3.4-2B
2005 Aircraft Survey Results Linked to EDMS 4.5 Aircraft Model and Engine
(Sorted by Aircraft Model per Survey, Percent Applied, EDMS Aircraft and EDMS Engine)

Aircraft Make Model Summary	Annual LTOs	Percent Applied	EDMS Aircraft	EDMS Engine	No of Engines	Emission Factor (pounds per 100 LTOs)		
						CO	VOC	NOx
328JET	1012	100	Dornier 328JET	PW306B	2	1.257	12.54	6.57
330 Shorts	14	100	Shorts 330	PT6A-45R	2	3.968	0.683	1.19
500 Citation (JT15D-1A & 1B)	53	100	500 Citation	JT15D-1A & 1B	2	21.87	8.598	0.573
550 Citation (JT15D-4 (B,C,D))	94	100	550 Citation	JT15D-4 (B,C,D)	2	18.32	7.76	0.926
552 Citation (JT15D-4 (B,C,D))	63	100	552 Citation	JT15D-4 (B,C,D)	2	18.32	7.76	0.926
A-10A Thunderbolt II	1433	100	A-10A Thunderbolt II	TF34-GE-100-100A	2	36.442	8.841	1.455
A-300	753	50	A300-600	CF6-80C2A5F	2	27.139	2.116	56.416
		10	A300-B4	CF6-80C2A5 (revised)	2	61.597	14.33	56.13
		10	A300-B4	JT9D-59A	2	87.964	22.00	54.586
		10	A300-B4-605R	CF6-80C2A5	2	28.065	2.469	55.711
		5	A300-600F	CF6-80E1A4 Low Emis	2	24.67	1.742	66.249
		5	A300B	CF6-80C2A5	2	28.065	2.469	55.711
		5	A300-B4-100	CF6-50C2	2	30.269	3.792	52.404
		5	A300-B4-200	CF6-50C2	2	30.269	3.792	52.404
A-300-600	557	100	A300-600	CF6-80C2A5F	2	27.139	2.116	56.416
A-300B4	277	90	A300-B4	CF6-80C2A5	2	28.065	2.469	55.711
		5	A300-600	CF6-80C2A5F	2	27.139	2.116	56.416
		5	A300-B4	JT9D-59A	2	87.964	22.00	54.586
A-310	394	100	A310	CF6-80A3	2	32.628	8.003	52.36
A319	2696	100	A319	CFM56-5B6/P	2	19.93	4.365	18.651
A319/A320	1	50	A319	CFM56-5B6/P	2	19.93	4.365	18.651
		50	A320	V2527-A5	2	12.17	0.154	23.722
A320	2587	100	A320	V2527-A5	2	12.17	0.154	23.722
A321	888	100	A321	CFM56-5B3/P	2	16.667	3.417	36.861
A5355F1 / Eurocopter	34	100	**Sikorsky S76	PT6A-36	2	0.705	0.044	1.036
Adam Jets	140	100	500 Citation	JT15D-1A & 1B	2	21.87	8.598	0.573

TABLE 3.4-2B
2005 Aircraft Survey Results Linked to EDMS 4.5 Aircraft Model and Engine
(Sorted by Aircraft Model per Survey, Percent Applied, EDMS Aircraft and EDMS Engine)

Aircraft Make Model Summary	Annual LTOs	Percent Applied	EDMS Aircraft	EDMS Engine	No of Engines	Emission Factor (pounds per 100 LTOs)		
						CO	VOC	NOx
Aeronca	90	60	Cessna 150	O-200	1	9.193	0.265	0.022
		15	Cessna 172 Skyhawk	IO-320-D1AD	1	10.737	0.198	0.044
		15	Cessna 172 Skyhawk	O-320	1	16.05	0.309	0.022
		10	Cessna 172 Skyhawk	IO-360-B	1	12.17	0.265	0.066
Aeronca 7AC	202	100	Cessna 150	O-200	1	9.193	0.265	0.022
Aeronca 7EC	91	100	Cessna 150	O-200	1	9.193	0.265	0.022
Aeronca Chief	50	100	Cessna 150	O-200	1	9.193	0.265	0.022
Aerospatial 320-B	500	100	ATR42	PW120	2	5.004	0	3.285
Agusta SPA/A109E	1	100	Galaxy (IAI) G200	PW306A	2	1.257	11.70	3.086
AHI Helicopter	70	25	AH-1J Cobra	T400-CP-400	2	0.573	0.044	1.742
		25	AH-1S Cobra	T53-L-11D	2	4.74	5.445	1.301
		25	AH-1S Cobra	T53-L-13	2	4.74	6.349	1.301
		25	AH-1W Super Cobra	T700-GE-401 -401C	2	4.365	0.243	2.006
All(Mostly Single Engine)	1500	40	Cessna 172 Skyhawk	O-320	1	16.05	0.309	0.022
		25	Cessna 172 Skyhawk	IO-320-D1AD	1	10.737	0.198	0.044
		20	Cessna 172 Skyhawk	IO-360-B	1	12.17	0.265	0.066
		13	Cessna 150	O-200	1	9.193	0.265	0.022
		2	Aztec	TIO-540-J2B2	2	106.99	2.271	0.022
American Champion Aircraft 8K CAB	155	60	Cessna 172 Skyhawk	IO-360-B	1	12.17	0.265	0.066
		20	Cessna 172 Skyhawk	O-320	1	16.05	0.309	0.022
		20	Cessna 172 Skyhawk	IO-320-D1AD	1	10.737	0.198	0.044
Avanti Jets	70	100	500 Citation	JT15D-1A & 1B	2	21.87	8.598	0.573
Aviat A1 Husky	191	100	Cessna 172 Skyhawk	IO-360-B	1	12.17	0.265	0.066
B-727	18	34	B727-100	JT8D-9A	3	21.429	5.159	23.082
B-727	18	33	B727-100C	TAY 651 (Transply)	3	44.577	5.004	19.775
		33	B727-200	JT8D-15	3	19.533	3.086	27.403
B-727-200	964	80	B727-200	JT8D-15	3	19.533	3.086	27.403

TABLE 3.4-2B

2005 Aircraft Survey Results Linked to EDMS 4.5 Aircraft Model and Engine

(Sorted by Aircraft Model per Survey, Percent Applied, EDMS Aircraft and EDMS Engine)

Aircraft Make Model Summary	Annual LTOs	Percent Applied	EDMS Aircraft	EDMS Engine	No of Engines	Emission Factor (pounds per 100 LTOs)		
						CO	VOC	NOx
		10	B727-200F	JT8D-15	3	19.533	3.086	27.403
		5	B727-200RE	JT8D-217C	3	28.065	0	27.888
		5	B727-200RF	JT8D-217C	3	28.065	0	27.888
B-737-300	5293	100	B737-300	CFM56-3-B1	2	28.748	2.006	15.873
B-737-400	919	100	B737-400	CFM56-3B-2	2	26.411	1.609	18.563
B-737-500	769	100	B737-500	CFM56-3C-1	2	24.67	1.367	21.208
B-737-700	5287	100	B737-700	CFM56-7B22	2	17.637	2.094	20.084
B-737-800	1235	100	B737-800	CFM56-7B26	2	15.587	1.742	27.095
B-757	5332	35	B757-200	PW2037	2	24.67	2.293	35.803
		35	B757-200F	RB211-535E4	2	17.791	0.529	51.632
		5	B757-300	PW2040	2	23.038	2.072	44.048
		5	B757-300	PW2043	2	22.664	1.962	47.774
		5	B757-300	RB211-535E4 PHASE 5	2	27.007	0.419	33.025
		5	B757-300	RB211-535E4B	2	25.618	0.243	39.375
		5	B757-300	RB211-535E4B old com	2	16.909	0.419	65.235
		5	B757-300	RB211-535E4B PHASE5	2	25.618	0.243	39.375
B-757-200PF	917	100	B757-200F	RB211-535E4	2	17.791	0.529	51.632
B-767	240	18	B767-200ER	CF6-80A2	2	32.628	8.003	52.36
		18	B767-300	CF6-80A2	2	32.628	8.003	52.36
		18	B767-300ER	PW4060	2	31.879	2.866	62.17
		18	B767-300F	CF6-80C2B7F	2	27.183	2.359	54.763
		18	B767-400ER	CF6-80C2B8FA	2	27.271	2.359	54.675
		5	B767-200	CF6-80C2A5 (revised)	2	61.597	14.33	56.13
		5	B767-200	CF6-80E1A4 Low Emis	2	24.67	1.742	66.249
B767-200	151	35	B767-200ER	CF6-80A2	2	32.628	8.003	52.36
		20	B767-200	CF6-80E1A4 Low Emis	2	24.67	1.742	66.249

TABLE 3.4-2B
2005 Aircraft Survey Results Linked to EDMS 4.5 Aircraft Model and Engine
(Sorted by Aircraft Model per Survey, Percent Applied, EDMS Aircraft and EDMS Engine)

Aircraft Make Model Summary	Annual LTOs	Percent Applied	EDMS Aircraft	EDMS Engine	No of Engines	Emission Factor (pounds per 100 LTOs)		
						CO	VOC	NOx
		15	B767-200	CF6-80CB42	2	62.567	14.90	49.45
		15	B767-200	CF6-80C2A5 (revised)	2	61.597	14.33	56.13
		15	B767-200	CF6-80E1A3	2	59.437	16.60	84.9
B-767-300	171	34	B767-300	CF6-80A2	2	32.628	8.003	52.36
		33	B767-300ER	PW4060	2	31.879	2.866	62.17
		33	B767-300F	CF6-80C2B7F	2	27.183	2.359	54.763
B-767-300E	45	100	B767-300ER	PW4060	2	31.879	2.866	62.17
Beech A36 Turbine	156	100	Beech King Air 100	PT6A-28	2	1.852	0.132	0.838
Beech B19 Sport	161	100	Cessna 172 Skyhawk	O-320	1	16.05	0.309	0.022
Beech Bonanza	6434	100	Cherokee six	TIO-540-J2B2	1	53.484	1.124	0.022
Beech King Air	4273	20	Beech King Air 100	PT6A-28	2	1.852	0.132	0.838
		20	Beech King Air 200	PT6A-41	2	16.336	14.81	0.772
		20	Beech King Air 300	PT6A-60, -60A, -60AG	2	9.48	1.455	0.948
		20	Beech King Air 350	PT6A-60, -60A, -60AG	2	9.48	1.455	0.948
		10	Beech King Air 90	PT6A-28	2	1.852	0.132	0.838
		10	Beech King Air B200	PT6A-41	2	16.336	14.81	0.772
Beech King Air 100	658	100	Beech King Air 100	PT6A-28	2	1.852	0.132	0.838
Beech King Air 200	293	100	Beech King Air 200	PT6A-41	2	16.336	14.81	0.772
Beech King Air 300	363	100	Beech King Air 300	PT6A-60, -60A, -60AG	2	9.48	1.455	0.948
Beech King Air 350	70	100	Beech King Air 350	PT6A-60, -60A, -60AG	2	9.48	1.455	0.948
Beech King Air B200	215	100	Beech King Air B200	PT6A-41	2	16.336	14.81	0.772
Beech Queen Air	1570	100	Aztec	TIO-540-J2B2	2	106.99	2.271	0.022
Beech Sundowner, Cessna 172, Mooney, or IO-360-B E	3982	100	Cessna 172 Skyhawk	IO-360-B	1	12.17	0.265	0.066
Beechcraft 18	144	100	Aztec	TIO-540-J2B2	2	106.99	2.271	0.022
Beechcraft 1900	2740	75	BH-1900	PT6A-67D	2	13.228	4.343	1.146

TABLE 3.4-2B

2005 Aircraft Survey Results Linked to EDMS 4.5 Aircraft Model and Engine

(Sorted by Aircraft Model per Survey, Percent Applied, EDMS Aircraft and EDMS Engine)

Aircraft Make Model Summary	Annual LTOs	Percent Applied	EDMS Aircraft	EDMS Engine	No of Engines	Emission Factor (pounds per 100 LTOs)		
						CO	VOC	NOx
		25	BH-1900C	PT6A-65B	2	11.067	3.571	1.014
Beechcraft Baron	6457	100	Navajo	TIO-540-J2B2	2	106.99	2.271	0.022
BEEHCRAFT BE17 TRAVELER/STAGGER WING (1P)	70	100	Cherokee six	TIO-540-J2B2	1	53.484	1.124	0.022
BEEHCRAFT BE23 MUSKETEER/SUNDOWNER (1P)	70	50	Cessna 172 Skyhawk	IO-360-B	1	12.17	0.265	0.066
		50	Cessna 172 Skyhawk	O-320	1	16.05	0.309	0.022
BEEHCRAFT BE24 MUSKETEER SUPER/SIERRA (1P)	70	100	Cessna 172 Skyhawk	IO-360-B	1	12.17	0.265	0.066
BEEHCRAFT BE60 DUKE (2P)	70	100	Navajo	TIO-540-J2B2	2	106.99	2.271	0.022
BEEHCRAFT BE76 DUCHESS (2P)	70	100	Cessna T337	IO-360-B	2	24.317	0.485	0.11
BEEHCRAFT BE77 SKIPPER (1P)	70	75	Cessna 150	O-200	1	9.193	0.265	0.022
		25	Cessna 172 Skyhawk	O-320	1	16.05	0.309	0.022
BEEHCRAFT BE95 TRAVEL AIR (2P)	70	100	Cessna T337	IO-360-B	2	24.317	0.485	0.11
Beechcraft Sundowner	91	100	Cessna 172 Skyhawk	O-320	1	16.05	0.309	0.022
BEEHCRAFT T34P MENTOR (1P)	70	75	Cessna 150	O-200	1	9.193	0.265	0.022
		25	Cessna 172 Skyhawk	O-320	1	16.05	0.309	0.022
BEEHCRAFT T34T TURBOMENTOR (1T)	70	100	Equator P-550 Turbo	PT6A-27	1	0.926	0.066	0.441
Beechcraft T-6 Texan	70	100	Cherokee six	TIO-540-J2B2	1	53.484	1.124	0.022
Beechjet 400	727	100	Beechjet 400	JT15D-5 (A & B)	2	25.375	26.14	0.926
Bell 206 Helicopter	5141	100	Bell 206	250B17B	1	1.367	0.198	0.198
Bellanca Citabria	141	34	Cessna 172 Skyhawk	O-320	1	16.05	0.309	0.022
		33	Cessna 150	O-200	1	9.193	0.265	0.022
		33	Cessna 172 Skyhawk	IO-360-B	1	12.17	0.265	0.066
Bellanca Jets	70	100	Cherokee six	TIO-540-J2B2	1	53.484	1.124	0.022
Boeing A75N1	91	100	Cherokee six	TIO-540-J2B2	1	53.484	1.124	0.022

TABLE 3.4-2B**2005 Aircraft Survey Results Linked to EDMS 4.5 Aircraft Model and Engine**

(Sorted by Aircraft Model per Survey, Percent Applied, EDMS Aircraft and EDMS Engine)

Aircraft Make Model Summary	Annual LTOs	Percent Applied	EDMS Aircraft	EDMS Engine	No of Engines	Emission Factor (pounds per 100 LTOs)		
						CO	VOC	NOx
Bombardier Challenger 300	265	20	CL600	CF34-3B	2	16.094	1.676	2.491
		20	CL600S	ALF 502L-2	2	15.212	2.315	2.513
		20	CL601-3A	CF34-3A	2	14.617	1.433	2.601
		20	CL601-3R	CF34-3A	2	14.617	1.433	2.601
		20	CL604	CF34-3B	2	16.094	1.676	2.491
Bombardier Challenger 600	265	20	CL600	CF34-3B	2	16.094	1.676	2.491
		20	CL600S	ALF 502L-2	2	15.212	2.315	2.513
		20	CL601-3A	CF34-3A	2	14.617	1.433	2.601
		20	CL601-3R	CF34-3A	2	14.617	1.433	2.601
		20	CL604	CF34-3B	2	16.094	1.676	2.491
Bombardier Global Express	2942	100	Bombardier Global Ex	BR700-710A2-20	2	18.695	0.75	12.28
C 130 Military Jets	70	17	C-130 HERCULES	T56 series I	4	10.296	1.698	15.961
		17	C-130 HERCULES	T56-A-15	4	7.981	3.858	20.04
		17	C-130 HERCULES	T56 series III	4	12.037	1.962	19.246
		17	C-130 HERCULES	501D22A	4	49.097	21.82	11.045
		16	C-130 HERCULES	T56-A-9	4	9.414	3.616	15.587
		16	C-130 HERCULES	T56-A-16	4	32.893	22.46	10.428
C Citation (JT15D-4 (B,C,D))	53	100	C Citation	JT15D-4 (B,C,D)	2	18.32	7.76	0.926
C-135	14	7	C-135	TF33-P-5&9	4	195.19	199.8	29.035
		7	C-135	J57-P-22	4	128.52	116.1	26.455
		7	C-135	F108-CF-100	4	60.892	2.072	31.262
		7	C-135	F103-GE-100 & 101	4	192.33	75.88	139.37
		6	C-135B	TF33-P-7	4	274.78	270.9	27.007
		6	C-135B	F108-CF-100	4	60.892	2.072	31.262
		6	C-135B	TF33-P-100	4	281.75	282.8	26.125
		6	C-135B	TF33-P-102&102A	4	194.22	198.2	25

TABLE 3.4-2B

2005 Aircraft Survey Results Linked to EDMS 4.5 Aircraft Model and Engine

(Sorted by Aircraft Model per Survey, Percent Applied, EDMS Aircraft and EDMS Engine)

Aircraft Make Model Summary	Annual LTOs	Percent Applied	EDMS Aircraft	EDMS Engine	No of Engines	Emission Factor (pounds per 100 LTOs)		
						CO	VOC	NOx
		6	C-135B	TF33-P-3/103	4	156.88	160.0	22.95
		6	C-135B	TF33-P3/5/7	4	144.91	155.7	28.351
		6	C-135B	TF33-P-5&9	4	195.19	199.8	29.035
		6	C-135FR	TF33-P-5&9	4	195.19	199.8	29.035
		6	C-135FR	F108-CF-100	4	60.892	2.072	31.262
		6	C-135FR	CFM56-2B-1	4	58.952	3.704	38.118
		6	C-135FR	CFM56-2A SERIES	4	46.451	2.381	44.577
		6	C-135FR	CFM56-2B	4	54.52	3.329	38.537
C-150-172-182 Piper 53 PA 28 Stearman PT17 Maule F	750	30	Cessna 150	O-200	1	9.193	0.265	0.022
		25	Cherokee six	TIO-540-J2B2	1	53.484	1.124	0.022
		15	Cessna 172 Skyhawk	IO-320-D1AD	1	10.737	0.198	0.044
		15	Cessna 172 Skyhawk	O-320	1	16.05	0.309	0.022
		15	Cessna 172 Skyhawk	IO-360-B	1	12.17	0.265	0.066
C-17	10	34	C-17A	PW2041	4	54.609	5.732	110.69
		33	C-17A	F117-PW-100	4	48.436	5.467	103.92
		33	C-17A	PW2040	4	46.562	4.189	97.488
Canadair Challenger	500	97	CL600	CF34-3B	2	16.094	1.676	2.491
		2	CL600S	ALF 502L-2	2	15.212	2.315	2.513
		1	CL600	ALF 502L-2	2	15.212	2.315	2.513
Canadair CL-600/CRT-200	1200	97	CL600	CF34-3B	2	16.094	1.676	2.491
		2	CL600S	ALF 502L-2	2	15.212	2.315	2.513
		1	CL600	ALF 502L-2	2	15.212	2.315	2.513
Cessna 140	20	100	Cessna 150	O-200	1	9.193	0.265	0.022
Cessna 150	12835	100	Cessna 150	O-200	1	9.193	0.265	0.022
Cessna 152	3821	75	Cessna 150	O-200	1	9.193	0.265	0.022
		25	Cessna 172 Skyhawk	O-320	1	16.05	0.309	0.022

TABLE 3.4-2B
2005 Aircraft Survey Results Linked to EDMS 4.5 Aircraft Model and Engine
(Sorted by Aircraft Model per Survey, Percent Applied, EDMS Aircraft and EDMS Engine)

Aircraft Make Model Summary	Annual LTOs	Percent Applied	EDMS Aircraft	EDMS Engine	No of Engines	Emission Factor (pounds per 100 LTOs)		
						CO	VOC	NOx
Cessna 170	819	100	Cessna 172 Skyhawk	O-320	1	16.05	0.309	0.022
Cessna 172	17432	34	Cessna 172 Skyhawk	O-320	1	16.05	0.309	0.022
		33	Cessna 172 Skyhawk	IO-320-D1AD	1	10.737	0.198	0.044
		33	Cessna 172 Skyhawk	IO-360-B	1	12.17	0.265	0.066
Cessna 172 Skyhawk (IO-320)	4087	100	Cessna 172 Skyhawk	IO-320-D1AD	1	10.737	0.198	0.044
Cessna 172 Skyhawk (IO-360-B)	6474	100	Cessna 172 Skyhawk	IO-360-B	1	12.17	0.265	0.066
Cessna 172 Skyhawk (O-320)	25961	100	Cessna 172 Skyhawk	O-320	1	16.05	0.309	0.022
Cessna 172, Piper Warrior and other 150-180HP Lyco	3650	34	Cessna 172 Skyhawk	O-320	1	16.05	0.309	0.022
		33	Cessna 172 Skyhawk	IO-360-B	1	12.17	0.265	0.066
		33	Cessna 172 Skyhawk	IO-320-D1AD	1	10.737	0.198	0.044
Cessna 180	975	100	Cherokee six	TIO-540-J2B2	1	53.484	1.124	0.022
Cessna 182	7713	100	Cherokee six	TIO-540-J2B2	1	53.484	1.124	0.022
CESSNA 188	140	100	Cherokee six	TIO-540-J2B2	1	53.484	1.124	0.022
Cessna 192Q 9HA	10	100	Cherokee six	TIO-540-J2B2	1	53.484	1.124	0.022
Cessna 195	90	100	Cherokee six	TIO-540-J2B2	1	53.484	1.124	0.022
CESSNA 205	70	100	Cherokee six	TIO-540-J2B2	1	53.484	1.124	0.022
Cessna 206 Skywagon	150	100	Cherokee six	TIO-540-J2B2	1	53.484	1.124	0.022
CESSNA 207	140	100	Cherokee six	TIO-540-J2B2	1	53.484	1.124	0.022
Cessna 208 Caravan	4297	100	Cessna 208 Caravan	PT6A-114	1	0.992	0.066	0.419
Cessna 210	785	100	Cherokee six	TIO-540-J2B2	1	53.484	1.124	0.022
CESSNA 310	70	100	Aztec	TIO-540-J2B2	2	106.99	2.271	0.022
CESSNA 335	70	100	Aztec	TIO-540-J2B2	2	106.99	2.271	0.022
CESSNA 340	70	100	Aztec	TIO-540-J2B2	2	106.99	2.271	0.022
CESSNA 404	70	100	Aztec	TIO-540-J2B2	2	106.99	2.271	0.022
Cessna 414	670	100	Aztec	TIO-540-J2B2	2	106.99	2.271	0.022
Cessna 421 GTISO-520	1900	100	Aztec	TIO-540-J2B2	2	106.99	2.271	0.022

TABLE 3.4-2B**2005 Aircraft Survey Results Linked to EDMS 4.5 Aircraft Model and Engine**

(Sorted by Aircraft Model per Survey, Percent Applied, EDMS Aircraft and EDMS Engine)

Aircraft Make Model Summary	Annual LTOs	Percent Applied	EDMS Aircraft	EDMS Engine	No of Engines	Emission Factor (pounds per 100 LTOs)		
						CO	VOC	NOx
CESSNA 425 CORSAIR	70	20	King Air B200	PT6A-41	2	16.336	14.81	0.772
		20	PA-31T Cheyenne	PT6A-28	2	1.852	0.132	0.838
		20	PA-42 Cheyenne	PT6A-41	2	16.38	14.83	0.794
		20	Shorts 360	PT6A-65AR	2	10.318	3.064	1.323
		20	Shorts 360	PT6A-65R	2	10.428	3.131	1.257
Cessna 550	1000	100	550 Citation	JT15D-4 (B,C,D)	2	18.32	7.76	0.926
CESSNA C172 SKYHAWK/CUTLASS (1P)	280	50	Cessna 172 Skyhawk	IO-360-B	1	12.17	0.265	0.066
		25	Cessna 172 Skyhawk	IO-320-D1AD	1	10.737	0.198	0.044
		25	Cessna 172 Skyhawk	O-320	1	16.05	0.309	0.022
CESSNA C175 SKYLARK (1P)	140	100	Cessna 172 Skyhawk	O-320	1	16.05	0.309	0.022
CESSNA C177 CARDINAL (1P)	140	100	Cessna 172 Skyhawk	O-320	1	16.05	0.309	0.022
Cessna C-177RG	90	100	Cessna 172 Skyhawk	IO-360-B	1	12.17	0.265	0.066
CESSNA C402 UTILILINER/BUSINESSLINER (2P)	70	100	Aztec	TIO-540-J2B2	2	106.99	2.271	0.022
CESSNA C421 GOLDEN EAGLE (2P)	70	100	Aztec	TIO-540-J2B2	2	106.99	2.271	0.022
CESSNA C441 CONQUEST	70	100	Cessna 441 Conquest2	TPE331-8	2	2.094	0.154	1.301
CESSNA C77R CARDINAL (1P)	140	100	Cessna 172 Skyhawk	IO-360-B	1	12.17	0.265	0.066
Cessna Citation	265	26	551 Citation	JT15D-4 (B,C,D)	2	18.32	7.76	0.926
		25	552 Citation	JT15D-4 (B,C,D)	2	18.32	7.76	0.926
		25	552 Citation	JT15D-5 (A & B)	2	25.375	26.14	0.926
		6	Citation Sovereign	PW308C	2	13.36	1.94	2.888
		6	Citation Ultra	JT15D-5C	2	25.243	20.01	0.816
		6	Citation VII	TFE731-3	2	9.083	1.764	1.742
		6	CITATION X	AE3007C (Type 1)	2	7.077	1.389	2.161
Cessna Citation - Bravo	265	100	Citation Bravo	JT15D-4 (B,C,D)	2	18.32	7.76	0.926
Cessna Citation 500	1000	100	500 Citation	JT15D-1A & 1B	2	21.87	8.598	0.573
Cessna Citation CJ#	265	100	CITATION X	AE3007C (Type 1)	2	7.077	1.389	2.161

TABLE 3.4-2B
2005 Aircraft Survey Results Linked to EDMS 4.5 Aircraft Model and Engine
(Sorted by Aircraft Model per Survey, Percent Applied, EDMS Aircraft and EDMS Engine)

Aircraft Make Model Summary	Annual LTOs	Percent Applied	EDMS Aircraft	EDMS Engine	No of Engines	Emission Factor (pounds per 100 LTOs)		
						CO	VOC	NOx
Cessna Citation Excel	1265	100	Citation Sovereign	PW308C	2	13.36	1.94	2.888
Cessna Citation V-X	500	100	560 Citation V	JT15D-5 (A & B)	2	25.375	26.14	0.926
Cessna Citation XL	265	50	560 Citation V	JT15D-5 (A & B)	2	25.375	26.14	0.926
		50	CITATION X	AE3007C (Type 1)	2	7.077	1.389	2.161
Cessna Skyhawk 172/182	6000	50	Cessna 172 Skyhawk	O-320	1	16.05	0.309	0.022
		50	Cherokee six	TIO-540-J2B2	1	53.484	1.124	0.022
CESSNA SKYMASTER	70	100	P-337P Skymaster	TSIO-360C	2	35.384	1.631	0.132
Cessna T337	1957	100	Cessna T337	IO-360-B	2	24.317	0.485	0.11
Cessna's 150-152-172-175-182-195	1000	20	Cessna 150	O-200	1	9.193	0.265	0.022
		20	Cessna 172 Skyhawk	O-320	1	16.05	0.309	0.022
		20	Cessna 172 Skyhawk	IO-320-D1AD	1	10.737	0.198	0.044
		20	Cessna 172 Skyhawk	IO-360-B	1	12.17	0.265	0.066
		20	Cherokee six	TIO-540-J2B2	1	53.484	1.124	0.022
Cessna's 180-206-210-Caravans	350	75	Cherokee six	TIO-540-J2B2	1	53.484	1.124	0.022
		25	Cessna 208 Caravan	PT6A-114	1	0.992	0.066	0.419
CH-46 Helicopter	70	100	H-46E SEA KNIGHT	T58-GE-16	2	13.073	3.329	1.698
CH-47 Helicopter	561	80	H-53J Pave Low	T64-GE-100	2	12.963	4.519	4.806
		20	AH-1S Cobra	T53-L-13	2	4.74	6.349	1.301
CH-47D	22	80	H-53J Pave Low	T64-GE-100	2	12.963	4.519	4.806
		20	AH-1S Cobra	T53-L-13	2	4.74	6.349	1.301
Challenger Jets	70	20	CL600	CF34-3B	2	16.094	1.676	2.491
		20	CL600S	ALF 502L-2	2	15.212	2.315	2.513
		20	CL601-3A	CF34-3A	2	14.617	1.433	2.601
		20	CL601-3R	CF34-3A	2	14.617	1.433	2.601
		20	CL604	CF34-3B	2	16.094	1.676	2.491
Challengers, Citations	324	50	CITATION X	AE3007C (Type 1)	2	7.077	1.389	2.161

TABLE 3.4-2B**2005 Aircraft Survey Results Linked to EDMS 4.5 Aircraft Model and Engine**

(Sorted by Aircraft Model per Survey, Percent Applied, EDMS Aircraft and EDMS Engine)

Aircraft Make Model Summary	Annual LTOs	Percent Applied	EDMS Aircraft	EDMS Engine	No of Engines	Emission Factor (pounds per 100 LTOs)		
						CO	VOC	NOx
		25	Citation VII	TFE731-3	2	9.083	1.764	1.742
		25	S550 Citation	JT15D-4 (B,C,D)	2	18.32	7.76	0.926
Cherokee six	1317	100	Cherokee six	TIO-540-J2B2	1	53.484	1.124	0.022
Cherokee six or TIO-540 Eq	2406	100	Cherokee six	TIO-540-J2B2	1	53.484	1.124	0.022
Chinock C-47D	184	93	H-53D Sea Stallion	T64-GE-413	2	7.54	2.734	7.165
		7	H-60 Black Hawk	T700-GE-700	2	4.63	4.277	2.227
Chinook Helicopter	4	80	H-53J Pave Low	T64-GE-100	2	12.963	4.519	4.806
		20	AH-1S Cobra	T53-L-13	2	4.74	6.349	1.301
Chipmunk	1	100	Cessna 150	O-200	1	9.193	0.265	0.022
Christen Eagle	50	50	Cessna 172 Skyhawk	O-320	1	16.05	0.309	0.022
		50	Cessna 172 Skyhawk	IO-360-B	1	12.17	0.265	0.066
Christen Eagle II	90	100	Cessna 172 Skyhawk	IO-360-B	1	12.17	0.265	0.066
Cirrus SR20	140	100	Cessna 172 Skyhawk	IO-360-B	1	12.17	0.265	0.066
Cirrus SR22	231	100	Cherokee six	TIO-540-J2B2	1	53.484	1.124	0.022
CITATION I (JT15D-1A & 1B)	132	100	CITATION I	JT15D-1A & 1B	2	21.87	8.598	0.573
Citation Jets (Various)	841	5	500 Citation	JT15D-1A & 1B	2	21.87	8.598	0.573
		5	550 Citation	JT15D-4 (B,C,D)	2	18.32	7.76	0.926
		5	551 Citation	JT15D-4 (B,C,D)	2	18.32	7.76	0.926
		5	552 Citation	JT15D-5 (A & B)	2	25.375	26.14	0.926
		5	552 Citation	JT15D-4 (B,C,D)	2	18.32	7.76	0.926
		5	560 Citation V	JT15D-5 (A & B)	2	25.375	26.14	0.926
		5	C Citation	JT15D-4 (B,C,D)	2	18.32	7.76	0.926
		5	Citation Bravo	JT15D-4 (B,C,D)	2	18.32	7.76	0.926
		5	CITATION I	JT15D-1A & 1B	2	21.87	8.598	0.573
		5	CITATION I SP	JT15D-1A & 1B	2	21.87	8.598	0.573
		5	CITATION II	JT15D-4 (B,C,D)	2	18.32	7.76	0.926

TABLE 3.4-2B**2005 Aircraft Survey Results Linked to EDMS 4.5 Aircraft Model and Engine**

(Sorted by Aircraft Model per Survey, Percent Applied, EDMS Aircraft and EDMS Engine)

Aircraft Make Model Summary	Annual LTOs	Percent Applied	EDMS Aircraft	EDMS Engine	No of Engines	Emission Factor (pounds per 100 LTOs)		
						CO	VOC	NOx
		5	CITATION II SP	JT15D-4 (B,C,D)	2	18.32	7.76	0.926
		5	CITATION SII	JT15D-4 (B,C,D)	2	18.32	7.76	0.926
		5	Citation Sovereign	PW308C	2	13.36	1.94	2.888
		5	Citation Ultra	JT15D-5C	2	25.243	20.01	0.816
		5	Citation Ultra	JT15D-5 (A & B)	2	25.375	26.14	0.926
		4	CITATION T-47A	JT15D-4 (B,C,D)	2	20.172	8.4	1.455
		4	CITATION V	JT15D-5 (A & B)	2	25.375	26.14	0.926
		4	Citation VII	TFE731-3	2	9.083	1.764	1.742
		4	CITATION X	AE3007C (Type 1)	2	7.077	1.389	2.161
		4	S550 Citation	JT15D-4 (B,C,D)	2	18.32	7.76	0.926
Citation SII JT-15-D	700	100	CITATION SII	JT15D-4 (B,C,D)	2	18.32	7.76	0.926
CITATION V (JT15D-5 (A & B))	63	100	CITATION V	JT15D-5 (A & B)	2	25.375	26.14	0.926
Comanche	2054	100	Comanche	TIO-540-J2B2	1	53.484	1.124	0.022
CRJ 200	3278	100	REG'L JET 200	CF34-3B	2	16.226	1.698	4.762
CRJ 701	785	100	Bombardier CRJ700	CF34-8C1	2	12.522	0.066	9.348
Dash 7 / Global Express / etc. Jets	1402	50	Bombardier Global Ex	BR700-710A2-20	2	18.695	0.75	12.28
		50	Dash 7	PT6A-50	4	5.908	0.794	2.91
Dash 8	867	25	Dash 8-100	PW120A	2	5.004	0	3.131
		25	Dash 8-200	PW123D	2	3.461	0	4.762
		25	Dash 8-300	PW123	2	3.439	0	5.115
		25	Dash 8-400	PW123	2	3.439	0	5.115
Dassault Falcon 200	500	50	Falcon 20	CF700-2D	2	66.624	7.694	0.816
		50	Falcon 2000EX	PW308C	2	13.36	1.94	2.888
Dassault Falcon 50, 200, 900, 2000	250	25	Falcon 100	TFE731-2	2	10.384	3.66	1.279
		25	Falcon 20	CF700-2D	2	66.624	7.694	0.816
		25	Falcon 2000EX	PW308C	2	13.36	1.94	2.888

TABLE 3.4-2B**2005 Aircraft Survey Results Linked to EDMS 4.5 Aircraft Model and Engine**

(Sorted by Aircraft Model per Survey, Percent Applied, EDMS Aircraft and EDMS Engine)

Aircraft Make Model Summary	Annual LTOs	Percent Applied	EDMS Aircraft	EDMS Engine	No of Engines	Emission Factor (pounds per 100 LTOs)		
						CO	VOC	NOx
		25	Falcon 50	TFE731-3	3	13.603	2.646	2.579
DC10-10	14	75	DC10-10	CF6-6K	3	102.47	42.15	76.787
		10	DC10-10F	CF6-6D	3	102.47	42.15	76.787
		5	DC10-10C	CF6-6K2	3	99.649	40.65	83.004
		5	DC10-10C	CF6-6K	3	102.47	42.15	76.787
		5	DC10-10C	CF6-6D	3	102.47	42.15	76.787
DC10-30	7	74	DC10-30	CF6-50C2	3	45.393	5.732	78.595
		2	DC10-30C	CF6-50C2	3	45.393	5.732	78.595
		2	DC10-30C	CF6-50C2 non-LEFN	3	142.79	55.86	94.226
		2	DC10-30C	CF6-50C2R	3	45.525	5.666	73.524
		2	DC10-30C	CF6-50C2R non-LEFN	3	142.74	57.91	88.846
		2	DC10-30C	CF6-50CA	3	45.525	5.666	73.524
		2	DC10-30C	CF6-50E1	3	45.393	5.732	78.595
		2	DC10-30C	CF6-50E2	3	45.393	5.732	78.595
		2	DC10-30C	CF6-50E2 (non-LEFN)	3	142.79	55.86	94.226
		2	DC10-30C	CF6-50E2B	3	45.129	5.688	82.563
		2	DC10-30C	CF6-50C non-LEFN	3	142.74	57.91	88.846
		2	DC10-30CF Series	CF6-50C2	3	45.393	5.732	78.595
		2	DC10-30ER	CF6-50C2B	3	45.129	5.688	82.563
		2	DC10-30F	CF6-50C2	3	45.393	5.732	78.595
DC8-71F	183	34	DC8-71F	CFM56-2B-1	4	58.004	3.66	34.436
		33	DC8-71F	CFM56-2A SERIES	4	45.636	2.337	40.323
		33	DC8-71F	CFM56-2B	4	53.638	3.263	34.701
DC8-73F	81	34	DC8-73F	CFM56-2B-1	4	58.004	3.66	34.436
		33	DC8-73F	CFM56-2A SERIES	4	45.636	2.337	40.323
		33	DC8-73F	CFM56-2B	4	53.638	3.263	34.701

TABLE 3.4-2B**2005 Aircraft Survey Results Linked to EDMS 4.5 Aircraft Model and Engine**

(Sorted by Aircraft Model per Survey, Percent Applied, EDMS Aircraft and EDMS Engine)

Aircraft Make Model Summary	Annual LTOs	Percent Applied	EDMS Aircraft	EDMS Engine	No of Engines	Emission Factor (pounds per 100 LTOs)		
						CO	VOC	NOx
DC-9	221	20	DC9-15F	JT8D-7B	2	14.043	4.012	14.484
		20	DC9-20	JT8D-11	2	39.617	11.86	16.491
		5	DC9-10	JT8D-7	2	14.043	4.012	14.484
		5	DC9-10	JT8D-7A	2	14.043	4.012	14.484
		5	DC9-10	JT8D-7B	2	14.043	4.012	14.484
		5	DC9-10	JT8D-7series OldCom	2	35.913	11.17	13.58
		5	DC9-10C	JT8D-7	2	14.043	4.012	14.484
		5	DC9-10C	JT8D-7B	2	14.043	4.012	14.484
		5	DC9-10C	JT8D-7A	2	14.043	4.012	14.484
		5	DC9-10C	JT8D-7series OldCom	2	35.913	11.17	13.58
		4	DC9-10F	JT8D-7series OldCom	2	35.913	11.17	13.58
		4	DC9-10F	JT8D-7B	2	14.043	4.012	14.484
		4	DC9-10F	JT8D-7A	2	14.043	4.012	14.484
		4	DC9-10F	JT8D-7	2	14.043	4.012	14.484
4	DC9-10F	JT8D-9series OldCom	2	35.362	10.86	14.859		
DC9-31	3	50	DC9-30	JT8D-7B	2	14.043	4.012	14.484
		50	DC9-30F	JT8D-9A	2	14.308	3.417	15.41
DC9-31A	6	50	DC9-30	JT8D-7B	2	14.043	4.012	14.484
		50	DC9-30F	JT8D-9A	2	14.308	3.417	15.41
DC9-32	209	50	DC9-30	JT8D-7B	2	14.043	4.012	14.484
		50	DC9-30F	JT8D-9A	2	14.308	3.417	15.41
DC9-33	34	50	DC9-30	JT8D-7B	2	14.043	4.012	14.484
		50	DC9-30F	JT8D-9A	2	14.308	3.417	15.41
DeHavilland Dash 8-100	2190	100	Dash 8-100	PW120A	2	5.004	0	3.131
DHC2 Beaver	212	100	Comanche	TIO-540-J2B2	1	53.484	1.124	0.022
DIAMOND DA42 TWINSTAR (1P)	140	100	Cessna T337	IO-360-B	2	24.317	0.485	0.11
DIAMOND DV10 DIAMONDSTAR (1P)	140	100	Cessna 172 Skyhawk	IO-360-B	1	12.17	0.265	0.066

TABLE 3.4-2B

2005 Aircraft Survey Results Linked to EDMS 4.5 Aircraft Model and Engine

(Sorted by Aircraft Model per Survey, Percent Applied, EDMS Aircraft and EDMS Engine)

Aircraft Make Model Summary	Annual LTOs	Percent Applied	EDMS Aircraft	EDMS Engine	No of Engines	Emission Factor (pounds per 100 LTOs)		
						CO	VOC	NOx
DIAMOND DV20 KATANA (1P)	140	100	Cessna 150	O-200	1	9.193	0.265	0.022
DIAMOND GA7 COUGAR (2P)	70	100	Twin Comanche	IO-320-D1AD	2	21.517	0.419	0.088
Dornier Jets	70	80	Dornier 328JET	PW306B	2	1.257	12.54	6.57
		20	Canadair Reg-700	CF34-8C1	2	12.522	0.066	9.348
EMB-145	83	50	Embraer ERJ 145LR	AE3007A1/3 (Type 1)	2	8.62	1.676	5.798
		25	Embraer ERJ 145	AE3007A	2	6.46	1.08	6.9
		25	Embraer ERJ 145	AE3007A1E	2	13.316	1.213	6.614
Embraer Jets (various)	280	8	Embraer ERJ 145	AE3007A1E	2	13.316	1.213	6.614
		8	Embraer ERJ 145	AE3007A	2	6.46	1.08	6.9
		8	Embraer ERJ 145LR	AE3007A1/3 (Type 1)	2	8.62	1.676	5.798
		7	Embraer ERJ 135/140	AE3007A1/3 (Type 2)	2	10.207	1.742	6.437
		7	Embraer ERJ 135/140	AE3007A1/3	2	8.135	1.455	6.019
		7	Embraer ERJ 135/140	AE3007A1/3 (Type 3)	2	12.875	1.257	5.49
		7	Embraer ERJ 135/140	AE3007A1P (Type 1)	2	8.223	1.455	6.371
		7	Embraer ERJ 135/140	AE3007A1P (Type 2)	2	10.516	1.72	6.9
		7	Embraer ERJ 135/140	AE3007A1P (Type 3)	2	13.625	1.301	5.864
		7	Embraer ERJ 135/140	AE3007A1/3 (Type 1)	2	8.62	1.676	5.798
		6	Embraer ERJ 135/140	AE3007A3 (Type 3)	2	13.735	1.345	5.445
		6	Embraer ERJ 135/140	AE3007A3 (Type 2)	2	10.957	1.874	6.283
		6	Embraer ERJ 135/140	AE3007A3 (Type 1)	2	8.642	1.698	5.798
ERJ-135	1018	5	Embraer ERJ 170	CF34-8E5A1	2	8.907	0.088	10.692
		4	Embraer ERJ 170	CF34-8E5	2	9.127	0.088	9.811
		10	Embraer ERJ 135/140	AE3007A1/3 (Type 2)	2	10.207	1.742	6.437
		10	Embraer ERJ 135/140	AE3007A3 (Type 3)	2	13.735	1.345	5.445
		10	Embraer ERJ 135/140	AE3007A3 (Type 2)	2	10.957	1.874	6.283
		10	Embraer ERJ 135/140	AE3007A3 (Type 1)	2	8.642	1.698	5.798
		10	Embraer ERJ 135/140	AE3007A1P (Type 3)	2	13.625	1.301	5.864

TABLE 3.4-2B
2005 Aircraft Survey Results Linked to EDMS 4.5 Aircraft Model and Engine
(Sorted by Aircraft Model per Survey, Percent Applied, EDMS Aircraft and EDMS Engine)

Aircraft Make Model Summary	Annual LTOs	Percent Applied	EDMS Aircraft	EDMS Engine	No of Engines	Emission Factor (pounds per 100 LTOs)		
						CO	VOC	NOx
		10	Embraer ERJ 135/140	AE3007A1P (Type 2)	2	10.516	1.72	6.9
		10	Embraer ERJ 135/140	AE3007A1/3 (Type 3)	2	12.875	1.257	5.49
		10	Embraer ERJ 135/140	AE3007A1/3 (Type 1)	2	8.62	1.676	5.798
		10	Embraer ERJ 135/140	AE3007A1/3	2	8.135	1.455	6.019
		10	Embraer ERJ 135/140	AE3007A1P (Type 1)	2	8.223	1.455	6.371
ERJ-140	345	10	Embraer ERJ 135/140	AE3007A1/3 (Type 3)	2	12.875	1.257	5.49
		10	Embraer ERJ 135/140	AE3007A3 (Type 3)	2	13.735	1.345	5.445
		10	Embraer ERJ 135/140	AE3007A3 (Type 2)	2	10.957	1.874	6.283
		10	Embraer ERJ 135/140	AE3007A3 (Type 1)	2	8.642	1.698	5.798
		10	Embraer ERJ 135/140	AE3007A1P (Type 3)	2	13.625	1.301	5.864
		10	Embraer ERJ 135/140	AE3007A1P (Type 2)	2	10.516	1.72	6.9
		10	Embraer ERJ 135/140	AE3007A1/3 (Type 2)	2	10.207	1.742	6.437
		10	Embraer ERJ 135/140	AE3007A1/3 (Type 1)	2	8.62	1.676	5.798
		10	Embraer ERJ 135/140	AE3007A1/3	2	8.135	1.455	6.019
		10	Embraer ERJ 135/140	AE3007A1P (Type 1)	2	8.223	1.455	6.371
ERJ-145	6982	34	Embraer ERJ 145	AE3007A	2	6.46	1.08	6.9
		33	Embraer ERJ 145	AE3007A1E	2	13.316	1.213	6.614
		33	Embraer ERJ 145LR	AE3007A1/3 (Type 1)	2	8.62	1.676	5.798
ERJ-170	1616	50	Embraer ERJ 170	CF34-8E5	2	9.127	0.088	9.811
		50	Embraer ERJ 170	CF34-8E5A1	2	8.907	0.088	10.692
Experimental Exp. Zodiac	91	100	Cessna 150	O-200	1	9.193	0.265	0.022
Experimental Glassair III	90	100	Cherokee six	TIO-540-J2B2	1	53.484	1.124	0.022
Experimental GlassAir RG	180	100	Cessna 172 Skyhawk	IO-360-B	1	12.17	0.265	0.066
Experimental RV 6	90	50	Cessna 172 Skyhawk	IO-360-B	1	12.17	0.265	0.066
		50	Cessna 172 Skyhawk	O-320	1	16.05	0.309	0.022
Experimental Sonerai II	90	100	Cessna 172 Skyhawk	O-320	1	16.05	0.309	0.022

TABLE 3.4-2B**2005 Aircraft Survey Results Linked to EDMS 4.5 Aircraft Model and Engine**

(Sorted by Aircraft Model per Survey, Percent Applied, EDMS Aircraft and EDMS Engine)

Aircraft Make Model Summary	Annual LTOs	Percent Applied	EDMS Aircraft	EDMS Engine	No of Engines	Emission Factor (pounds per 100 LTOs)		
						CO	VOC	NOx
Extra EA - 300	45	100	Cherokee six	TIO-540-J2B2	1	53.484	1.124	0.022
F15/16	4	25	F-15	F100-PW-100	2	34.965	9.149	19.709
		25	F-15	F100-PW-100 (w/AB)	2	41.756	9.149	19.158
		25	F-16	F100-PW-100	1	17.483	4.586	9.833
		25	F-16	F100-PW-100 (w/AB)	1	20.856	4.586	9.568
Fairchild 24	20	100	Cessna 172 Skyhawk	IO-360-B	1	12.17	0.265	0.066
Falcon 10	335	100	Falcon 100	TFE731-2	2	10.384	3.66	1.279
Falcon 20	269	100	Falcon 20	CF700-2D	2	66.624	7.694	0.816
Falcon 2000	1056	100	Falcon 2000EX	PW308C	2	13.36	1.94	2.888
Falcon 50	2103	100	Falcon 50	TFE731-3	3	13.603	2.646	2.579
Falcon 900	927	100	Falcon 2000EX	PW308C	2	13.36	1.94	2.888
Fleet 1	15	100	Cessna 150	O-200	1	9.193	0.265	0.022
Grumman A-5A	91	100	Cessna 172 Skyhawk	O-320	1	16.05	0.309	0.022
Grumman AA 5-A	91	100	Cessna 172 Skyhawk	O-320	1	16.05	0.309	0.022
Grumman AA 5-B	91	100	Cessna 172 Skyhawk	IO-360-B	1	12.17	0.265	0.066
Grumman AA-5	91	100	Cessna 172 Skyhawk	O-320	1	16.05	0.309	0.022
Grumman Tiger	2891	100	Rockwell Commander	IO-360-B	1	12.17	0.265	0.066
Gulfstream II	765	100	Gulfstream II	SPEY MK511-8	2	28.814	3.549	16.336
Gulfstream II or III	3239	50	Gulfstream II	SPEY MK511-8	2	28.814	3.549	16.336
		50	Gulfstream III	SPEY MK511-8	2	28.814	3.549	16.336
Gulfstream III	965	100	Gulfstream III	SPEY MK511-8	2	28.814	3.549	16.336
Gulfstream IV	6212	100	Gulfstream IV	TAY Mk611-8	2	19.555	3.197	12.412
Gulfstream IV-V	500	50	Gulfstream IV	TAY Mk611-8	2	19.555	3.197	12.412
		50	Gulfstream V	BR700-710A1-10 GulfV	2	18.585	0.728	12.302
Gulfstream Jets (Various)	140	16	Gulfstream I	RDa7	2	36.112	9.48	0.882
		16	Gulfstream II	SPEY MK511-8	2	28.814	3.549	16.336

TABLE 3.4-2B
2005 Aircraft Survey Results Linked to EDMS 4.5 Aircraft Model and Engine
(Sorted by Aircraft Model per Survey, Percent Applied, EDMS Aircraft and EDMS Engine)

Aircraft Make Model Summary	Annual LTOs	Percent Applied	EDMS Aircraft	EDMS Engine	No of Engines	Emission Factor (pounds per 100 LTOs)		
						CO	VOC	NOx
		16	Gulfstream III	SPEY MK511-8	2	28.814	3.549	16.336
		16	Gulfstream IV	TAY Mk611-8	2	19.555	3.197	12.412
		16	Gulfstream V	BR700-710A1-10 GulfV	2	18.585	0.728	12.302
		10	Gulfstream G350/G450	TAY 611-8C	2	21.319	0.86	5.225
		10	Gulfstream G550	BR700-710C4-11	2	18.629	1.389	6.085
Gulfstream V	3497	100	Gulfstream V	BR700-710A1-10 GulfV	2	18.585	0.728	12.302
H-3	52	100	H-3 SEA KING	T58-GE-8F	2	15.895	9.744	1.455
H53	12	20	H-53D Sea Stallion	T64-GE-413	2	7.54	2.734	7.165
		20	H-53D Sea Stallion	T64-GE-415	2	11.31	3.77	7.562
		20	H-53D Sea Stallion	T64-GE-6B	2	10.759	2.624	5.445
		20	H-53E Stallion	T64-GE-100	3	19.445	6.746	7.231
		20	H-53J Pave Low	T64-GE-100	2	12.963	4.519	4.806
H-60 Black Hawk	2954	100	H-60 Black Hawk	T700-GE-700	2	4.63	4.277	2.227
H-65 Helicopter	70	100	SH-60B Seahawk	T700-GE-401 -401C	2	4.365	0.243	2.006
Hawker 400	265	100	Hawker Horizon	PW308A	2	11.993	2.161	2.734
Hawker 700	793	100	Citation VII	TFE731-3	2	9.083	1.764	1.742
Hawker 700 or Falcon 50 like Jets	25	100	Falcon 50	TFE731-3	3	13.603	2.646	2.579
Hawker 800	1322	100	Hawker Horizon	PW308A	2	11.993	2.161	2.734
Hawker 800XP	265	100	Hawker Horizon	PW308A	2	11.993	2.161	2.734
Hawker Jets	140	60	Citation VII	TFE731-3	2	9.083	1.764	1.742
		40	Hawker Horizon	PW308A	2	11.993	2.161	2.734
Hawker XP	265	100	Hawker Horizon	PW308A	2	11.993	2.161	2.734
Hawkers, Navajos	324	50	Citation VII	TFE731-3	2	9.083	1.764	1.742
		25	Hawker Horizon	PW308A	2	11.993	2.161	2.734
		25	Navajo	TIO-540-J2B2	2	106.99	2.271	0.022
Hughes Helicopter 500C	150	50	Bell 206	250B17B	1	1.367	0.198	0.198

TABLE 3.4-2B
2005 Aircraft Survey Results Linked to EDMS 4.5 Aircraft Model and Engine
(Sorted by Aircraft Model per Survey, Percent Applied, EDMS Aircraft and EDMS Engine)

Aircraft Make Model Summary	Annual LTOs	Percent Applied	EDMS Aircraft	EDMS Engine	No of Engines	Emission Factor (pounds per 100 LTOs)		
						CO	VOC	NOx
		50	OH-6 Cayuse	250B17B	1	2.249	0.419	0.22
Husky Jets	70	100	KC-135B	JT3D-7 SERIES	4	268.63	242.5	28.528
IAI Westwind	486	100	IAI Westwind	TFE731-3	2	9.083	1.764	1.742
IAI WW 24	300	100	IAI Westwind	TFE731-3	2	9.083	1.764	1.742
IO-360-B Eng. Eq.	12391	100	Cessna 172 Skyhawk	IO-360-B	1	12.17	0.265	0.066
Kaman H-43 Helicopter	72	100	UH-1N Iroquois	T400-CP-400	1	0.309	0.022	0.882
Kaman K-1200 Helicopter	120	100	AH-1S Cobra	T53-L-13	2	4.74	6.349	1.301
Kaman SH-2 Helicopter	200	50	H-2 SEASPRITE	T58-GE-8F	2	15.895	9.744	1.455
		50	H-2 Super Seasprite	T700-GE-401 -401C	2	4.365	0.243	2.006
Lear 45	265	100	Learjet 35/36	TFE 731-2-2B	2	10.384	3.66	1.279
Lear Jets (Various)	561	70	Learjet 35/36	TFE 731-2-2B	2	10.384	3.66	1.279
		15	Dornier 328JET	PW306B	2	1.257	12.54	6.57
		15	Learjet 24D	CJ610-6	2	75.089	8.422	0.772
Learjet 24, 31, 45, 55, 60	1800	70	Learjet 35/36	TFE 731-2-2B	2	10.384	3.66	1.279
		15	Dornier 328JET	PW306B	2	1.257	12.54	6.57
		15	Learjet 24D	CJ610-6	2	75.089	8.422	0.772
Learjet 35	90	100	Learjet 35/36	TFE 731-2-2B	2	10.384	3.66	1.279
Learjet 35/36	5466	100	Learjet 35/36	TFE 731-2-2B	2	10.384	3.66	1.279
Learjet 35/36 (TFE 731-2-2B)	287	100	Learjet 35/36	TFE 731-2-2B	2	10.384	3.66	1.279
Learjet 35A	46	100	Learjet 35/36	TFE 731-2-2B	2	10.384	3.66	1.279
Learjet 35B	198	100	Learjet 35/36	TFE 731-2-2B	2	10.384	3.66	1.279
Learjet 60	102	100	Dornier 328JET	PW306B	2	1.257	12.54	6.57
Learjet Lear 35-60	100	75	Learjet 35/36	TFE 731-2-2B	2	10.384	3.66	1.279
		25	Dornier 328JET	PW306B	2	1.257	12.54	6.57
LifeStar	3224	100	**LifeStar (BK-117)	PT6A-36	2	0.705	0.044	1.036
LUSCOMB 8A - 65 HP CONTINENTAL	64	100	Cessna 150	O-200	1	9.193	0.265	0.022

TABLE 3.4-2B

2005 Aircraft Survey Results Linked to EDMS 4.5 Aircraft Model and Engine

(Sorted by Aircraft Model per Survey, Percent Applied, EDMS Aircraft and EDMS Engine)

Aircraft Make Model Summary	Annual LTOs	Percent Applied	EDMS Aircraft	EDMS Engine	No of Engines	Emission Factor (pounds per 100 LTOs)		
						CO	VOC	NOx
Maule	391	80	Cherokee six	TIO-540-J2B2	1	53.484	1.124	0.022
		10	Cessna 172 Skyhawk	IO-360-B	1	12.17	0.265	0.066
		10	Cessna 172 Skyhawk	IO-320-D1AD	1	10.737	0.198	0.044
Maule Jets	70	100	Air Tractor AT602	PT6A-60, -60A, -60AG	1	4.74	0.728	0.485
Maule M-4-220C	91	100	Cherokee six	TIO-540-J2B2	1	53.484	1.124	0.022
Maule M7 Turbine (Jet A)	30	100	Air Tractor AT602	PT6A-60, -60A, -60AG	1	4.74	0.728	0.485
MD-80	4834	15	MD-80	JT8D-209	2	15.3	5.049	22.377
		15	MD-80	JT8D-219	2	17.725	0	20.283
		14	MD-80	JT8D-217C	2	18.739	0	18.585
		14	MD-80	JT8D-219 old comb	2	14.264	4.586	26.918
		14	MD-80	JT8D-217 (old comb)	2	14.242	4.497	26.367
		14	MD-80	JT8D-217	2	16.27	0	20.194
		14	MD-80	JT8D-217A	2	16.27	0	20.194
Military Helicopters	150	36	H-60 Black Hawk	T700-GE-700	2	4.63	4.277	2.227
		13	H-3 SEA KING	T58-GE-8F	2	15.895	9.744	1.455
		13	SH-3E Sea King	T58-GE-5	2	15.3	6.967	2.227
		12	H-53J Pave Low	T64-GE-100	2	12.963	4.519	4.806
		7	AH-1J Cobra	T400-CP-400	2	0.573	0.044	1.742
		7	AH-1S Cobra	T53-L-11D	2	4.74	5.445	1.301
		6	UH-1N Iroquois	T400-CP-400	1	0.309	0.022	0.882
		3	H-2 SEASPRITE	T58-GE-8F	2	15.895	9.744	1.455
		3	H-2 Super Seasprite	T700-GE-401 -401C	2	4.365	0.243	2.006
Misc	250	20	Cessna 150	O-200	1	9.193	0.265	0.022
		20	Cessna 172 Skyhawk	IO-320-D1AD	1	10.737	0.198	0.044
		20	Cessna 172 Skyhawk	O-320	1	16.05	0.309	0.022
		20	Cessna 172 Skyhawk	IO-360-B	1	12.17	0.265	0.066

TABLE 3.4-2B**2005 Aircraft Survey Results Linked to EDMS 4.5 Aircraft Model and Engine**

(Sorted by Aircraft Model per Survey, Percent Applied, EDMS Aircraft and EDMS Engine)

Aircraft Make Model Summary	Annual LTOs	Percent Applied	EDMS Aircraft	EDMS Engine	No of Engines	Emission Factor (pounds per 100 LTOs)		
						CO	VOC	NOx
		20	Cherokee six	TIO-540-J2B2	1	53.484	1.124	0.022
MOONEY ERCO AIRCOUPE (1P)	70	100	Cessna 150	O-200	1	9.193	0.265	0.022
Mooney Exec.	91	100	Cessna 172 Skyhawk	IO-360-B	1	12.17	0.265	0.066
MOONEY M10 CADET (1P)	140	100	Cessna 150	O-200	1	9.193	0.265	0.022
Mooney M-20	3362	60	Cessna 172 Skyhawk	IO-360-B	1	12.17	0.265	0.066
		20	Cessna 172 Skyhawk	O-320	1	16.05	0.309	0.022
		20	Cherokee six	TIO-540-J2B2	1	53.484	1.124	0.022
MOONEY M20P ALLEGRO/EAGLE/RANGER (1P)	140	50	Cessna 172 Skyhawk	IO-360-B	1	12.17	0.265	0.066
		50	Cherokee six	TIO-540-J2B2	1	53.484	1.124	0.022
Mooney M20R	91	100	Cherokee six	TIO-540-J2B2	1	53.484	1.124	0.022
MOONEY M20T ENCORE/BRAVO (1P)	140	50	Cessna 172 Skyhawk	TSIO-360C	1	17.681	0.794	0.066
		50	Cherokee six	TIO-540-J2B2	1	53.484	1.124	0.022
Mooney w Textron Engine	2400	34	Cessna 172 Skyhawk	IO-360-B	1	12.17	0.265	0.066
		33	Cessna 172 Skyhawk	TSIO-360C	1	17.681	0.794	0.066
		33	Comanche	TIO-540-J2B2	1	53.484	1.124	0.022
MU-300 (JT15D-4 (B,C,D))	94	100	MU-300	JT15D-4 (B,C,D)	2	18.32	7.76	0.926
Multi Engine Piston	938	20	Aztec	TIO-540-J2B2	2	106.99	2.271	0.022
		20	Cessna T337	IO-360-B	2	24.317	0.485	0.11
		20	Navajo	TIO-540-J2B2	2	106.99	2.271	0.022
		20	Twin Comanche	IO-320-D1AD	2	21.517	0.419	0.088
		8	FT337P	TSIO-360C	2	35.384	1.631	0.132
		6	337H Skymaster	TSIO-360C	2	35.384	1.631	0.132
		6	P-337P Skymaster	TSIO-360C	2	35.384	1.631	0.132
Multi Engine Turbine	330	10	ATR42	PW120	2	5.004	0	3.285
		10	ATR42-500	PW127E	2	3.638	0	5.027
		10	Beech King Air 200	PT6A-41	2	16.336	14.81	0.772
		10	Beech King Air 300	PT6A-60, -60A, -60AG	2	9.48	1.455	0.948

TABLE 3.4-2B
2005 Aircraft Survey Results Linked to EDMS 4.5 Aircraft Model and Engine
(Sorted by Aircraft Model per Survey, Percent Applied, EDMS Aircraft and EDMS Engine)

Aircraft Make Model Summary	Annual LTOs	Percent Applied	EDMS Aircraft	EDMS Engine	No of Engines	Emission Factor (pounds per 100 LTOs)		
						CO	VOC	NOx
		10	Beech King Air 350	PT6A-60, -60A, -60AG	2	9.48	1.455	0.948
		10	DHC-8-300	PW123	2	3.439	0	5.115
		8	Dash 7	PT6A-50	4	5.908	0.794	2.91
		5	BH-1900	PT6A-67D	2	13.228	4.343	1.146
		5	Cessna 441 Conquest2	TPE331-8	2	2.094	0.154	1.301
		5	Fokker 50	PW125-B	2	3.682	0	4.938
		5	PA-31T Cheyenne	PT6A-28	2	1.852	0.132	0.838
		5	PA-42 Cheyenne	PT6A-41	2	16.38	14.83	0.794
		5	Shorts 330	PT6A-45R	2	3.968	0.683	1.19
		2	Vickers 953 Vanguard	TYNE	4	74.34	13.97	8.157
N2S3 Stearman 220 Hp	500	76	Cessna 172 Skyhawk	IO-360-B	1	12.17	0.265	0.066
		24	Cherokee six	TIO-540-J2B2	1	53.484	1.124	0.022
Navajo (Twin Engine TIO-540-J2B2)	2081	100	Navajo	TIO-540-J2B2	2	106.99	2.271	0.022
NAVY N-3-N - 220 HP WRIGHT	64	76	Cessna 172 Skyhawk	IO-360-B	1	12.17	0.265	0.066
		24	Cherokee six	TIO-540-J2B2	1	53.484	1.124	0.022
O-320 Eng Eq.	832	100	Piper PA-28	O-320	1	16.05	0.309	0.022
Other M&M (SEL-Piston)	1725	26	Cessna 172 Skyhawk	O-320	1	16.05	0.309	0.022
		22	Cessna 172 Skyhawk	IO-360-B	1	12.17	0.265	0.066
		20	Cessna 172 Skyhawk	IO-320-D1AD	1	10.737	0.198	0.044
		20	Cherokee six	TIO-540-J2B2	1	53.484	1.124	0.022
		10	Cessna 150	O-200	1	9.193	0.265	0.022
		2	Cessna 172 Skyhawk	TSIO-360C	1	17.681	0.794	0.066
Other Small BDR Aircraft (assume O-320)	862	15	Cessna 172 Skyhawk	IO-360-B	1	12.17	0.265	0.066
		15	Cessna 172 Skyhawk	O-320	1	16.05	0.309	0.022
		10	337H Skymaster	TSIO-360C	2	35.384	1.631	0.132
		10	ATR42-500	PW127E	2	3.638	0	5.027

TABLE 3.4-2B
2005 Aircraft Survey Results Linked to EDMS 4.5 Aircraft Model and Engine
(Sorted by Aircraft Model per Survey, Percent Applied, EDMS Aircraft and EDMS Engine)

Aircraft Make Model Summary	Annual LTOs	Percent Applied	EDMS Aircraft	EDMS Engine	No of Engines	Emission Factor (pounds per 100 LTOs)		
						CO	VOC	NOx
		10	Aztec	TIO-540-J2B2	2	106.99	2.271	0.022
		10	Beech King Air 300	PT6A-60, -60A, -60AG	2	9.48	1.455	0.948
		10	Cessna 208 Caravan	PT6A-114	1	0.992	0.066	0.419
		10	Cessna T337	IO-360-B	2	24.317	0.485	0.11
		10	Cherokee six	TIO-540-J2B2	1	53.484	1.124	0.022
P-337P Skymaster (Twin Engine TSIO-360C)	86	100	P-337P Skymaster	TSIO-360C	2	35.384	1.631	0.132
Piaggio	300	66	BH-1900	PT6A-67D	2	13.228	4.343	1.146
		34	Aztec	TIO-540-J2B2	2	106.99	2.271	0.022
Pilatus Jets	140	100	Air Tractor AT602	PT6A-60, -60A, -60AG	1	4.74	0.728	0.485
Pilatus PC-12	300	100	Air Tractor AT602	PT6A-60, -60A, -60AG	1	4.74	0.728	0.485
Pilatus PC-12/45	727	100	Air Tractor AT602	PT6A-60, -60A, -60AG	1	4.74	0.728	0.485
Piper	91	50	Piper PA-28	IO-320-D1AD	1	10.737	0.198	0.044
		50	Piper PA-28	O-320	1	16.05	0.309	0.022
Piper 140	1000	100	Piper PA-28	O-320	1	16.05	0.309	0.022
PIPER AEST AEROSTAR (2P)	70	100	Aztec	TIO-540-J2B2	2	106.99	2.271	0.022
Piper Arrow	5091	90	Cessna 172 Skyhawk	IO-360-B	1	12.17	0.265	0.066
		5	Piper PA-28	O-320	1	16.05	0.309	0.022
		5	Piper PA-28	IO-320-D1AD	1	10.737	0.198	0.044
Piper Aztec	2273	100	Aztec	TIO-540-J2B2	2	106.99	2.271	0.022
Piper Cherokee	7592	34	Cherokee six	TIO-540-J2B2	1	53.484	1.124	0.022
		33	Piper PA-28	IO-320-D1AD	1	10.737	0.198	0.044
		33	Piper PA-28	O-320	1	16.05	0.309	0.022
Piper Cheyenne	440	50	PA-31T Cheyenne	PT6A-28	2	1.852	0.132	0.838
		50	PA-42 Cheyenne	PT6A-41	2	16.38	14.83	0.794
Piper Chieftain	91	100	Cherokee six	TIO-540-J2B2	1	53.484	1.124	0.022
Piper Cub	708	100	Cessna 150	O-200	1	9.193	0.265	0.022

TABLE 3.4-2B
2005 Aircraft Survey Results Linked to EDMS 4.5 Aircraft Model and Engine
(Sorted by Aircraft Model per Survey, Percent Applied, EDMS Aircraft and EDMS Engine)

Aircraft Make Model Summary	Annual LTOs	Percent Applied	EDMS Aircraft	EDMS Engine	No of Engines	Emission Factor (pounds per 100 LTOs)		
						CO	VOC	NOx
Piper Dakota	91	100	Cherokee six	TIO-540-J2B2	1	53.484	1.124	0.022
Piper J3C-65	60	100	Cessna 150	O-200	1	9.193	0.265	0.022
Piper Mojave	300	100	Cherokee six	TIO-540-J2B2	1	53.484	1.124	0.022
Piper Navajo	500	100	Navajo	TIO-540-J2B2	2	106.99	2.271	0.022
PIPER P28A ARCHER / CADET / CHEROKEE / WARRIOR (1P)	2242	50	Cessna 172 Skyhawk	IO-360-B	1	12.17	0.265	0.066
		50	Piper PA-28	O-320	1	16.05	0.309	0.022
PIPER P28B CHEROKEE / CHARGER / PATHFINDER / DAKOTA (1P)	2249	50	Cessna 172 Skyhawk	IO-360-B	1	12.17	0.265	0.066
		24	Piper PA-28	IO-320-D1AD	1	10.737	0.198	0.044
		24	Piper PA-28	O-320	1	16.05	0.309	0.022
		2	Cherokee six	TIO-540-J2B2	1	53.484	1.124	0.022
PIPER P28R ARROW (1P)	561	100	Cessna 172 Skyhawk	IO-360-B	1	12.17	0.265	0.066
PIPER P28T TURBO ARROW (1P)	280	100	Cessna 172 Skyhawk	TSIO-360C	1	17.681	0.794	0.066
PIPER P46T MALIBU / MERIDIAN (1T)	140	100	400A Hustler	PT6A-41	1	8.179	7.385	0.419
Piper PA 28-140	91	50	Piper PA-28	IO-320-D1AD	1	10.737	0.198	0.044
		50	Piper PA-28	O-320	1	16.05	0.309	0.022
Piper PA 28-161	91	100	Piper PA-28	O-320	1	16.05	0.309	0.022
PIPER PA16 CLIPPER (1P)	70	58	Cessna 150	O-200	1	9.193	0.265	0.022
		42	Cessna 172 Skyhawk	O-320	1	16.05	0.309	0.022
Piper PA18	6	100	Piper PA-28	O-320	1	16.05	0.309	0.022
PIPER PA-18 - 150 HP LYCOMING	64	100	Piper PA-28	O-320	1	16.05	0.309	0.022
Piper PA-18 Supercub	342	57	Cessna 172 Skyhawk	IO-360-B	1	12.17	0.265	0.066
		43	Cessna 172 Skyhawk	O-320	1	16.05	0.309	0.022
Piper PA-18-150	900	100	Piper PA-28	O-320	1	16.05	0.309	0.022
PIPER PA20 PACER (1P)	70	60	Cessna 172 Skyhawk	O-320	1	16.05	0.309	0.022
		40	Cessna 150	O-200	1	9.193	0.265	0.022

TABLE 3.4-2B
2005 Aircraft Survey Results Linked to EDMS 4.5 Aircraft Model and Engine
(Sorted by Aircraft Model per Survey, Percent Applied, EDMS Aircraft and EDMS Engine)

Aircraft Make Model Summary	Annual LTOs	Percent Applied	EDMS Aircraft	EDMS Engine	No of Engines	Emission Factor (pounds per 100 LTOs)		
						CO	VOC	NOx
PIPER PA22 TRI-PACER/CARRIBBEAN/COLT (1P)	70	100	Piper PA-28	O-320	1	16.05	0.309	0.022
PIPER PA23 APACHE (2P)	70	100	Aztec	TIO-540-J2B2	2	106.99	2.271	0.022
Piper PA-25 Pawnee	320	100	Comanche	TIO-540-J2B2	1	53.484	1.124	0.022
Piper PA-28	301	50	Piper PA-28	IO-320-D1AD	1	10.737	0.198	0.044
		50	Piper PA-28	O-320	1	16.05	0.309	0.022
Piper PA-28 (IO-320-D1AD)	3063	100	Piper PA-28	IO-320-D1AD	1	10.737	0.198	0.044
Piper PA-28 (O-320)	3063	100	Piper PA-28	O-320	1	16.05	0.309	0.022
Piper PA-28 Warrior	91	50	Piper PA-28	IO-320-D1AD	1	10.737	0.198	0.044
		50	Piper PA-28	O-320	1	16.05	0.309	0.022
Piper PA-28-151	91	100	Piper PA-28	O-320	1	16.05	0.309	0.022
Piper PA-28R200	91	100	Cessna 172 Skyhawk	IO-360-B	1	12.17	0.265	0.066
PIPER PA31 NAVAJO / CHEIFTAN / MOHAVE (2P)	140	100	Navajo	TIO-540-J2B2	2	106.99	2.271	0.022
Piper PA-31-350	930	100	Navajo	TIO-540-J2B2	2	106.99	2.271	0.022
Piper PA-31T Cheyenne	300	100	PA-31T Cheyenne	PT6A-28	2	1.852	0.132	0.838
Piper PA-32R	180	100	Cherokee six	TIO-540-J2B2	1	53.484	1.124	0.022
PIPER PA38 TOMAHAWK (1P)	140	80	Cessna 150	O-200	1	9.193	0.265	0.022
		20	Cessna 172 Skyhawk	O-320	1	16.05	0.309	0.022
Piper PA-42 Cheyenne	300	100	PA-42 Cheyenne	PT6A-41	2	16.38	14.83	0.794
PIPER PA44 SEMINOLE (2P)	140	100	Cessna 172 Skyhawk	IO-360-B	1	12.17	0.265	0.066
PIPER PA46 MALIBU	140	100	Cherokee six	TIO-540-J2B2	1	53.484	1.124	0.022
Piper Seneca	2340	100	Cessna T337	IO-360-B	2	24.317	0.485	0.11
Piper Warrior	14000	50	Piper PA-28	IO-320-D1AD	1	10.737	0.198	0.044
		50	Piper PA-28	O-320	1	16.05	0.309	0.022
Piper's Cherokee-Arrow-Clipper	1000	30	Cessna 150	O-200	1	9.193	0.265	0.022
		30	Cessna 172 Skyhawk	IO-360-B	1	12.17	0.265	0.066

TABLE 3.4-2B
2005 Aircraft Survey Results Linked to EDMS 4.5 Aircraft Model and Engine
(Sorted by Aircraft Model per Survey, Percent Applied, EDMS Aircraft and EDMS Engine)

Aircraft Make Model Summary	Annual LTOs	Percent Applied	EDMS Aircraft	EDMS Engine	No of Engines	Emission Factor (pounds per 100 LTOs)		
						CO	VOC	NOx
		20	Piper PA-28	IO-320-D1AD	1	10.737	0.198	0.044
		20	Piper PA-28	O-320	1	16.05	0.309	0.022
Pit Special Jets	70	25	Cessna 150	O-200	1	9.193	0.265	0.022
		25	Cessna 172 Skyhawk	IO-360-B	1	12.17	0.265	0.066
		25	Cessna 172 Skyhawk	O-320	1	16.05	0.309	0.022
		25	Cherokee six	TIO-540-J2B2	1	53.484	1.124	0.022
Powered Para Gliders	3000	100	Cessna 150	O-200	1	9.193	0.265	0.022
Raytheon Hawker	800	100	Hawker Horizon	PW308A	2	11.993	2.161	2.734
Raytheon Hawker 125-800A/XP-1000A	250	100	Hawker Horizon	PW308A	2	11.993	2.161	2.734
Robinson R-22 Helicopter	37115	34	Robinson R22	IO-360-B	1	13.14	0.176	0.066
		33	Robinson R22	O-320	1	15.565	0.243	0.022
		33	Robinson R22	IO-320-D1AD	1	12.324	0.154	0.044
Robinson R-22-R44 Helicopter	150	50	**Robinson R-44	TIO-540-J2B2	1	52.58	0.772	0.022
		50	Robinson R22	IO-320-D1AD	1	12.324	0.154	0.044
Robinson R-44 Helicopter	167	100	**Robinson R-44	TIO-540-J2B2	1	52.58	0.772	0.022
Rockwell Commander (O-320)	2256	100	Rockwell Commander	O-320	1	16.05	0.309	0.022
RV4-6	250	50	Cessna 172 Skyhawk	IO-360-B	1	12.17	0.265	0.066
		50	Cessna 172 Skyhawk	O-320	1	16.05	0.309	0.022
SAAB 340	1527	100	SF-340-A	CT7-5	2	4.145	0.617	1.499
Saberliner 75A	1070	100	Saberliner 75A	CF700-2D	2	66.624	7.694	0.816
Schweizer Aircraft Corp Rotor Craft	12	34	Robinson R22	IO-360-B	1	13.14	0.176	0.066
		33	Bell 206	250B17B	1	1.367	0.198	0.198
		33	Robinson R22	O-320	1	15.565	0.243	0.022
Searay Experimental	250	100	Cessna 150	O-200	1	9.193	0.265	0.022
SH-33 Helicopter	70	100	H-53D Sea Stallion	T64-GE-415	2	11.31	3.77	7.562
Sikorsky S-61 Helicopter	1000	50	H-3 SEA KING	T58-GE-8F	2	15.895	9.744	1.455
		50	SH-3E Sea King	T58-GE-5	2	15.3	6.967	2.227

TABLE 3.4-2B
2005 Aircraft Survey Results Linked to EDMS 4.5 Aircraft Model and Engine
(Sorted by Aircraft Model per Survey, Percent Applied, EDMS Aircraft and EDMS Engine)

Aircraft Make Model Summary	Annual LTOs	Percent Applied	EDMS Aircraft	EDMS Engine	No of Engines	Emission Factor (pounds per 100 LTOs)		
						CO	VOC	NOx
Sikorsky S-76 Helicopter	7160	100	**Sikorsky S76	PT6A-36	2	0.705	0.044	1.036
Sikorsky S-92 Helicopter	721	100	H-53D Sea Stallion	T64-GE-415	2	11.31	3.77	7.562
Silvaire Luscombe 8F	91	100	Cessna 150	O-200	1	9.193	0.265	0.022
Single Engine	9194	40	Cessna 172 Skyhawk	O-320	1	16.05	0.309	0.022
		20	Cessna 172 Skyhawk	IO-360-B	1	12.17	0.265	0.066
		20	Cessna 172 Skyhawk	IO-320-D1AD	1	10.737	0.198	0.044
		10	Cherokee six	TIO-540-J2B2	1	53.484	1.124	0.022
		5	Cessna 208 Caravan	PT6A-114	1	0.992	0.066	0.419
		5	Equator P-550 Turbo	PT6A-27	1	0.926	0.066	0.441
Single Engine Beechcraft Bonanza/Sierra/Musketeer	500	30	Cessna 172 Skyhawk	IO-320-D1AD	1	10.737	0.198	0.044
		30	Cessna 172 Skyhawk	IO-360-B	1	12.17	0.265	0.066
		30	Cessna 172 Skyhawk	O-320	1	16.05	0.309	0.022
		10	Cessna 172 Skyhawk	TSIO-360C	1	17.681	0.794	0.066
Single Engine Cessna 152/172/182	600	20	Cessna 150	O-200	1	9.193	0.265	0.022
		20	Cessna 172 Skyhawk	O-320	1	16.05	0.309	0.022
		20	Cessna 172 Skyhawk	IO-320-D1AD	1	10.737	0.198	0.044
		20	Cessna 172 Skyhawk	IO-360-B	1	12.17	0.265	0.066
		20	Cherokee six	TIO-540-J2B2	1	53.484	1.124	0.022
Single Engine Helicopters	500	30	Bell 206	250B17B	1	1.367	0.198	0.198
		15	Robinson R22	IO-320-D1AD	1	12.324	0.154	0.044
		15	Robinson R22	IO-360-B	1	13.14	0.176	0.066
		15	Robinson R22	O-320	1	15.565	0.243	0.022
		15	Robinson R22	TSIO-360C	1	19.445	0.353	0.066
		10	**Robinson R-44	TIO-540-J2B2	1	52.58	0.772	0.022
Single Engine Piper Cherokee Series	475	34	Cherokee six	TIO-540-J2B2	1	53.484	1.124	0.022
		33	Piper PA-28	IO-320-D1AD	1	10.737	0.198	0.044
		33	Piper PA-28	O-320	1	16.05	0.309	0.022

TABLE 3.4-2B
2005 Aircraft Survey Results Linked to EDMS 4.5 Aircraft Model and Engine
(Sorted by Aircraft Model per Survey, Percent Applied, EDMS Aircraft and EDMS Engine)

Aircraft Make Model Summary	Annual LTOs	Percent Applied	EDMS Aircraft	EDMS Engine	No of Engines	Emission Factor (pounds per 100 LTOs)		
						CO	VOC	NOx
Single Engine Piston	292	28	Cherokee six	TIO-540-J2B2	1	53.484	1.124	0.022
		25	Cessna 172 Skyhawk	IO-360-B	1	12.17	0.265	0.066
		20	Cessna 172 Skyhawk	O-320	1	16.05	0.309	0.022
		20	Cessna 172 Skyhawk	IO-320-D1AD	1	10.737	0.198	0.044
		5	Cessna 150	O-200	1	9.193	0.265	0.022
		2	Cessna 172 Skyhawk	TSIO-360C	1	17.681	0.794	0.066
Small Twin Engine Aircraft	100	60	Aztec	TIO-540-J2B2	2	106.99	2.271	0.022
		38	Cessna T337	IO-360-B	2	24.317	0.485	0.11
		2	337H Skymaster	TSIO-360C	2	35.384	1.631	0.132
SN601 Corvette (JT15D-4 (B,C,D))	26	100	SN601 Corvette	JT15D-4 (B,C,D)	2	18.32	7.76	0.926
Socata TBM 700	2353	100	Air Tractor AT602	PT6A-60, -60A, -60AG	1	4.74	0.728	0.485
Socata Tobago (IO-360-B)	2256	100	Cessna 172 Skyhawk	IO-360-B	1	12.17	0.265	0.066
SPARTAN 7W - 450 HP PRATT&WHITNEY	64	100	Cherokee six	TIO-540-J2B2	1	53.484	1.124	0.022
Stinson Voyager	12	70	Cessna 172 Skyhawk	IO-360-B	1	12.17	0.265	0.066
		30	Cherokee six	TIO-540-J2B2	1	53.484	1.124	0.022
Taylor Craft	275	100	Cessna 150	O-200	1	9.193	0.265	0.022
Turbine powered helicopters mostly Black Hawks	125	100	H-60 Black Hawk	T700-GE-700	2	4.63	4.277	2.227
Turboprops like Beech King Air	100	10	ATR42	PW120	2	5.004	0	3.285
		10	Beech King Air 100	PT6A-28	2	1.852	0.132	0.838
		10	Beech King Air 200	PT6A-41	2	16.336	14.81	0.772
		10	Beech King Air 300	PT6A-60, -60A, -60AG	2	9.48	1.455	0.948
		10	Beech King Air 350	PT6A-60, -60A, -60AG	2	9.48	1.455	0.948
		10	Beech King Air 90	PT6A-28	2	1.852	0.132	0.838
		10	Beech King Air B200	PT6A-41	2	16.336	14.81	0.772
		10	Cessna 208 Caravan	PT6A-114	1	0.992	0.066	0.419
		10	King Air 200	PT6A-41	2	16.336	14.81	0.772
		10	King Air B200	PT6A-41	2	16.336	14.81	0.772

TABLE 3.4-2B

2005 Aircraft Survey Results Linked to EDMS 4.5 Aircraft Model and Engine

(Sorted by Aircraft Model per Survey, Percent Applied, EDMS Aircraft and EDMS Engine)

Aircraft Make Model Summary	Annual LTOs	Percent Applied	EDMS Aircraft	EDMS Engine	No of Engines	Emission Factor (pounds per 100 LTOs)		
						CO	VOC	NOx
Twin Comanche	1013	100	Twin Comanche	IO-320-D1AD	2	21.517	0.419	0.088
Twin engine aircraft Beech Baron and Piper Aztec	150	100	Aztec	TIO-540-J2B2	2	106.99	2.271	0.022
Twin Engine Piper Aztec / Seneca / Navajo	375	34	Navajo	TIO-540-J2B2	2	106.99	2.271	0.022
		33	Aztec	TIO-540-J2B2	2	106.99	2.271	0.022
		33	Cessna T337	IO-360-B	2	24.317	0.485	0.11
UH-1 Helicopter	150	100	UH-1N Iroquois	T400-CP-400	1	0.309	0.022	0.882
UH-1H Helicopter	6	100	**UH-1H Helicopter	T53-L-13	1	2.381	3.175	0.661
Ultralights	3245	100	Cessna 150	O-200	1	9.193	0.265	0.022
Unassigned Itinerant AC/AT Flights BDL	1050	30	B757-200	PW2037	2	24.67	2.293	35.803
		30	Learjet 35/36	TFE 731-2-2B	2	10.384	3.66	1.279
		14	Embraer ERJ 145	AE3007A	2	6.46	1.08	6.9
		13	Embraer ERJ 145	AE3007A1E	2	13.316	1.213	6.614
		13	Embraer ERJ 145LR	AE3007A1/3 (Type 1)	2	8.62	1.676	5.798
Various Experimental Jets GON	280	100	A-10A Thunderbolt II	TF34-GE-100-100A	2	36.442	8.841	1.455
Various other single engine aircraft N41 Waterbury	2000	20	Cessna 150	O-200	1	9.193	0.265	0.022
		20	Cessna 172 Skyhawk	IO-320-D1AD	1	10.737	0.198	0.044
		20	Cessna 172 Skyhawk	IO-360-B	1	12.17	0.265	0.066
		20	Cessna 172 Skyhawk	O-320	1	16.05	0.309	0.022
		20	Cherokee six	TIO-540-J2B2	1	53.484	1.124	0.022
WACO CTO - 350 HP WRIGHT	64	100	Cherokee six	TIO-540-J2B2	1	53.484	1.124	0.022
WACO YKC-S - 300 HP JACOBS	64	100	Cherokee six	TIO-540-J2B2	1	53.484	1.124	0.022
West Wind	70	34	IAI Westwind	TFE731-3	2	9.083	1.764	1.742
		33	Westwind 1	TFE731-3	2	9.083	1.764	1.742
		33	Westwind 2	TFE731-3	2	9.083	1.764	1.742
Whelan RV-8 SP	300	100	Cessna 172 Skyhawk	IO-360-B	1	12.17	0.265	0.066

TABLE 3.4-2B

2005 Aircraft Survey Results Linked to EDMS 4.5 Aircraft Model and Engine

(Sorted by Aircraft Model per Survey, Percent Applied, EDMS Aircraft and EDMS Engine)

County / Airport Name	Annual LTO	SUMMER DAILY EMISSIONS (LBS/DAY)			WINTER DAILY CO EMISSIONS (LBS/DAY)	ANNUAL EMISSIONS (TONS/YEAR)		
		VOC (LBS/DAY)	CO (LBS/DAY)	NOx (LBS/DAY)		VOC (TONS/YR)	CO (TONS/YR)	NOx (TONS/YR)
Fairfield County								
Bridgeport Hospital Heliport	32	0.0	0.0	0.1	0.1	0.0	0.0	0.0
Canal Street Heliport	34	0.0	0.1	0.2	0.0	0.0	0.0	0.0
Capt. Cove Sea/Heliport	5	0.0	0.0	0.1	0.0	0.0	0.0	0.0
Danbury Hospital Heliport	31	0.0	0.0	0.0	0.1	0.0	0.0	0.0
Danbury Municipal Airport	36,596	135.4	3,043.8	12.2	2,078.4	21.8	494.3	2.0
Flying Ridge Airstrip	12	0.0	1.6	0.0	1.6	0.0	0.1	0.0
General Electric Co. Heliport	522	0.1	0.8	1.2	0.8	0.0	0.2	0.3
Greenwich Hospital	9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Igor I. Sikorsky Memorial	33,712	176.8	2,802.3	127.4	1,906.1	32.0	444.6	23.3
Norwalk Hospital Heliport	11	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sikorsky Bridgeport Heliport	10	0.0	0.1	0.1	0.0	0.0	0.0	0.0
Sikorsky Helipad	2,893	34.1	53.9	29.6	43.8	5.4	8.7	4.9
St Vincent's Medical Center	12	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Stamford Hospital	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
USSC Heliport	1	0.1	0.0	0.0	0.0	0.0	0.0	0.0
Fairfield County Total	73,883	346.5	5,902.9	171.0	4,031.0	59.2	948.1	30.6
Hartford County								
Avon LifeStar Emergency Site	9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bancroft Airport	50	0.3	14.7	0.0	14.7	0.0	1.3	0.0
Berlin LifeStar Emergency Site	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0

County / Airport Name	Annual LTO	SUMMER DAILY EMISSIONS (LBS/DAY)			WINTER DAILY CO EMISSIONS (LBS/DAY)	ANNUAL EMISSIONS (TONS/YEAR)		
		VOC (LBS/DAY)	CO (LBS/DAY)	NOx (LBS/DAY)		VOC (TONS/YR)	CO (TONS/YR)	NOx (TONS/YR)
Blanchette Heliport	16	0.1	6.9	0.0	2.3	0.0	0.4	0.0
Bradley International Airport	78,985	555.1	4,674.7	3,494.9	4,233.3	97.8	819.5	622.2
Bristol Hospital Heliport	12	0.0	0.0	0.1	0.0	0.0	0.0	0.0
Bristol LifeStar Emergency Site	7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Burlington LifeStar Emergency	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Canton LifeStar Emergency Site	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Clark Hill Heliport	45	0.1	6.8	0.0	0.0	0.0	0.3	0.0
East Granby LifeStar Emergency	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
East Windsor LifeStar	7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Enfield LifeStar Emergency Site	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Farmington LifeStar Emergency	8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Glastonbury LifeStar Emergency	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Granby LifeStar Emergency Site	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Green Acres Airstrip	156	0.1	0.7	0.3	0.7	0.0	0.1	0.1
Hartford Hospital Helipad	1,646	0.2	3.7	5.4	2.8	0.0	0.6	0.9
Hartford LifeStar Emergency Site	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hartford-Brainard Airport	45,500	250.0	5,001.3	68.6	1,594.4	28.0	552.3	6.6

County / Airport Name	Annual LTO	SUMMER DAILY EMISSIONS (LBS/DAY)			WINTER DAILY CO EMISSIONS (LBS/DAY)	ANNUAL EMISSIONS (TONS/YEAR)		
		VOC (LBS/DAY)	CO (LBS/DAY)	NOx (LBS/DAY)		VOC (TONS/YR)	CO (TONS/YR)	NOx (TONS/YR)
Hartland LifeStar Emergency Site	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Kaman Heliport	392	4.1	5.7	1.3	3.6	0.9	1.3	0.3
Laurie Field	20	0.1	3.8	0.0	1.3	0.0	0.3	0.0
Manchester LifeStar Emergency	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Marlborough LifeStar Emergency	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Middlesex Marlborough Clinic	16	0.0	0.0	0.1	0.0	0.0	0.0	0.0
Mountain Meadows Airport	18	0.0	2.9	0.0	1.4	0.0	0.3	0.0
N B G H Heliport	7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Newington LifeStar Emergency	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Otis Elevator Co. Heliport	232	0.0	0.4	0.5	0.4	0.0	0.1	0.1
Plainville LifeStar Emergency	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Rentschler Heliport	112	0.0	0.2	0.3	0.2	0.0	0.0	0.1
Roberts Farm Airport	50	0.1	4.3	0.0	2.9	0.0	0.3	0.0
Robertson Field	29,550	86.7	2,487.1	13.7	1,338.5	14.0	364.4	2.4
Salmon River Airfield	555	3.2	151.4	0.1	103.3	0.2	11.6	0.0
Simsbury LifeStar Emergency	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Simsbury Tri-Town Airport	5,795	10.0	471.3	0.8	212.4	1.3	60.9	0.1
Skylark's Air Park	15,150	46.9	2,207.1	2.9	441.4	4.3	200.8	0.3
South Meadows Heliport	50	0.0	1.4	0.0	0.8	0.0	0.3	0.0

County / Airport Name	Annual LTO	SUMMER DAILY EMISSIONS (LBS/DAY)			WINTER DAILY CO EMISSIONS (LBS/DAY)	ANNUAL EMISSIONS (TONS/YEAR)		
		VOC (LBS/DAY)	CO (LBS/DAY)	NOx (LBS/DAY)		VOC (TONS/YR)	CO (TONS/YR)	NOx (TONS/YR)
South Windsor LifeStar	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Southington LifeStar Emergency	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
St. Francis Hospital Heliport	86	0.0	0.1	0.2	0.2	0.0	0.0	0.0
Stones Ranch	20	0.5	0.9	0.3	0.9	0.0	0.1	0.0
Suffield LifeStar Emergency Site	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
UCONN Med Hurlbrink Heliport	19	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ultimate Heliport	2	0.0	0.6	0.0	0.6	0.0	0.1	0.0
Veterans Home & Hospital	4	0.1	0.1	0.0	0.1	0.0	0.0	0.0
West Hartford LifeStar	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hartford County Total	178,551	957.8	15,046.3	3,590.2	7,956.2	146.6	2,015.3	633.1
Litchfield County								
Barkhamsted LifeStar Emergency	7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Candlelight Farms Airport	1,035	3.6	167.0	0.4	16.6	0.2	10.4	0.0
Candlelight Farms Heliport	40	0.0	0.2	0.3	0.1	0.0	0.0	0.0
Charlotte Hungerford	77	0.0	0.2	0.3	0.1	0.0	0.0	0.0
Docktors Field	1	0.0	0.3	0.0	0.0	0.0	0.0	0.0
Good Hill Farm	70	0.3	13.2	0.0	6.5	0.0	1.2	0.0
Goshen LifeStar Emergency Site	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Harwinton LifeStar	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0

County / Airport Name	Annual LTO	SUMMER DAILY EMISSIONS (LBS/DAY)			WINTER DAILY CO EMISSIONS (LBS/DAY)	ANNUAL EMISSIONS (TONS/YEAR)		
		VOC (LBS/DAY)	CO (LBS/DAY)	NOx (LBS/DAY)		VOC (TONS/YR)	CO (TONS/YR)	NOx (TONS/YR)
Emergency Kent LifeStar Emergency Site	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Litchfield LifeStar Emergency	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Long View Landing Airport	204	0.4	15.2	0.1	14.9	0.1	2.7	0.0
New Hartford LifeStar	9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
New Milford Hospital	44	0.0	0.1	0.1	0.1	0.0	0.0	0.0
New Milford LifeStar Emergency	6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
North Canaan Airport	1,800	4.5	219.1	0.3	3.2	0.4	19.9	0.0
North Canaan LifeStar	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Plymouth LifeStar Emergency	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Roxbury LifeStar Emergency Site	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Salisbury LifeStar Emergency Site	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Seavair's Landing Airport	150	0.3	14.0	0.0	3.4	0.0	1.2	0.0
Sharon Hospital Heliport	28	0.0	0.1	0.1	0.1	0.0	0.0	0.0
Sharon LifeStar Emergency Site	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Shingle Mill Heliport	20	0.0	0.9	0.0	2.1	0.0	0.1	0.0
Thomaston LifeStar Emergency	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Torrington LifeStar	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0

County / Airport Name	Annual LTO	SUMMER DAILY EMISSIONS (LBS/DAY)			WINTER DAILY CO EMISSIONS (LBS/DAY)	ANNUAL EMISSIONS (TONS/YEAR)		
		VOC (LBS/DAY)	CO (LBS/DAY)	NOx (LBS/DAY)		VOC (TONS/YR)	CO (TONS/YR)	NOx (TONS/YR)
Emergency								
Warren LifeStar Emergency Site	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Washington LifeStar Emergency	4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Waterbury-Plymouth Airport	2,980	6.8	323.3	0.6	51.9	0.7	34.1	0.1
Whelan Farms Airport	900	1.5	67.9	0.1	14.4	0.2	7.8	0.0
Winchester LifeStar Emergency	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Wings Ago Airstrip	3	0.0	1.3	0.0	0.0	0.0	0.1	0.0
Winsted Medical Center	9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Litchfield County Total	7,412	17.4	823.0	2.5	113.4	1.6	77.6	0.3
Middlesex County								
Aetna @ Middletown Heliport	10	0.0	0.1	0.1	0.0	0.0	0.0	0.0
Bemer Heliport	12	0.0	0.2	0.0	0.0	0.0	0.0	0.0
Chester Airport	2,410	9.5	250.8	1.0	97.1	1.3	31.8	0.1
Chester LifeStar Emergency Site	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Clinton LifeStar Emergency Site	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cromwell LifeStar Emergency	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Deep River LifeStar	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0

County / Airport Name	Annual LTO	SUMMER DAILY EMISSIONS (LBS/DAY)			WINTER DAILY CO EMISSIONS (LBS/DAY)	ANNUAL EMISSIONS (TONS/YEAR)		
		VOC (LBS/DAY)	CO (LBS/DAY)	NOx (LBS/DAY)		VOC (TONS/YR)	CO (TONS/YR)	NOx (TONS/YR)
Emergency								
Devil's Hopyard Field	250	1.5	66.6	0.0	31.6	0.1	4.5	0.0
Durham LifeStar Emergency Site	8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
East Haddam LifeStar Emergency	4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
East Hampton LifeStar	8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Essex LifeStar Emergency Site	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fetske Water Strip	3	0.0	0.3	0.0	0.0	0.0	0.0	0.0
Goodspeed Airport & Seaplane	1,500	2.0	98.1	0.2	24.5	0.2	11.2	0.0
Haddam LifeStar Emergency Site	7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Killingworth LifeStar Emergency	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Maplewood Farm Airport	60	0.1	3.0	0.0	1.0	0.0	0.3	0.0
Middlefield LifeStar Emergency	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Middlesex Hospital	30	0.0	0.1	0.1	0.0	0.0	0.0	0.0
Middlesex Medical Center	37	0.0	0.1	0.1	0.1	0.0	0.0	0.0
Middletown LifeStar Emergency	14	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Old Saybrook LifeStar	7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Portland LifeStar Emergency Site	5	0.0	0.0	0.0	0.0	0.0	0.0	0.0

County / Airport Name	Annual LTO	SUMMER DAILY EMISSIONS (LBS/DAY)			WINTER DAILY CO EMISSIONS (LBS/DAY)	ANNUAL EMISSIONS (TONS/YEAR)		
		VOC (LBS/DAY)	CO (LBS/DAY)	NOx (LBS/DAY)		VOC (TONS/YR)	CO (TONS/YR)	NOx (TONS/YR)
Westbrook LifeStar Emergency	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Middlesex County Total	4,378	13.1	419.4	1.8	154.5	1.6	47.7	0.2
New Haven County								
Bristol-Myers Squibb Co.	309	0.1	0.9	1.4	0.5	0.0	0.1	0.2
Griswold Airport	9,914	14.9	596.1	1.5	155.2	1.7	68.4	0.2
Hummingbird Heliport	1,000	0.4	3.2	1.9	1.0	0.1	0.5	0.3
Meriden - Wallingford Hospital	22	0.0	0.1	0.1	0.0	0.0	0.0	0.0
Meriden LifeStar Emergency Site	5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Meriden-Markham Municipal	10,024	13.8	524.6	4.5	363.2	2.4	91.8	0.8
Middlebury LifeStar Emergency	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Milford Hospital	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Oxford LifeStar Emergency Site	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Southbury LifeStar Emergency	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
St. Mary's Hospital Heliport	19	0.0	0.1	0.1	0.0	0.0	0.0	0.0
St. Raphael Heliport	6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Tweed-New Haven Airport	34,157	103.9	2,312.8	69.8	1,590.1	15.4	339.9	10.3
U.S. Surgical Rooftop Heliport	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0

County / Airport Name	Annual LTO	SUMMER DAILY EMISSIONS (LBS/DAY)			WINTER DAILY CO EMISSIONS (LBS/DAY)	ANNUAL EMISSIONS (TONS/YEAR)		
		VOC (LBS/DAY)	CO (LBS/DAY)	NOx (LBS/DAY)		VOC (TONS/YR)	CO (TONS/YR)	NOx (TONS/YR)
Wallingford LifeStar Emergency	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Waterbury Hospital Center	14	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Waterbury-Oxford Airport	27,823	138.5	1,802.5	301.7	1,188.6	23.2	294.4	51.9
Yale New Haven Shoreline	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Yale-New Haven Hospital	248	0.0	0.5	0.7	0.5	0.0	0.1	0.1
New Haven County Total	83,552	271.5	5,240.8	381.9	3,299.2	42.8	795.3	63.8
New London County								
Backus Hospital Heliport	503	0.1	1.1	1.5	0.8	0.0	0.2	0.3
Camp Rell	30	0.7	1.1	0.4	1.1	0.1	0.1	0.0
Colchester Heliport	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Colchester LifeStar Emergency	6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
East Lyme LifeStar Emergency	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Gallup Farm Airport	21	0.1	3.4	0.0	0.1	0.0	0.2	0.0
Global Development Facility	276	0.0	0.3	0.5	0.5	0.0	0.1	0.1
Griswold LifeStar Emergency Site	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Groton LifeStar Emergency Site	7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Groton-New London Airport	28,942	240.1	2,505.9	103.8	1,565.3	35.3	369.2	15.2
Lawrence & Memorial Hospital	47	0.0	0.0	0.0	0.1	0.0	0.0	0.0

County / Airport Name	Annual LTO	SUMMER DAILY EMISSIONS (LBS/DAY)			WINTER DAILY CO EMISSIONS (LBS/DAY)	ANNUAL EMISSIONS (TONS/YEAR)		
		VOC (LBS/DAY)	CO (LBS/DAY)	NOx (LBS/DAY)		VOC (TONS/YR)	CO (TONS/YR)	NOx (TONS/YR)
Lebanon LifeStar Emergency Site	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ledyard LifeStar Emergency Site	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Lyme LifeStar Emergency Site	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Mile Creek Airport	60	0.4	17.6	0.0	11.6	0.0	1.6	0.0
MPTN Heliport	50	0.0	0.1	0.2	0.1	0.0	0.0	0.0
New London LifeStar Emergency	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Old Lyme LifeStar Emergency	4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Salem LifeStar Emergency Site	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ski's Landing Area	6	0.0	1.8	0.0	1.8	0.0	0.2	0.0
Spruce Airport	35	0.1	3.7	0.0	0.8	0.0	0.2	0.0
Stonington LifeStar Emergency	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Waterford LifeStar Emergency	4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
New London County Total	30,009	241.5	2,535.2	106.6	1,582.2	35.4	371.7	15.8
Tolland County								
Andover LifeStar Emergency Site	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0

County / Airport Name	Annual LTO	SUMMER DAILY EMISSIONS (LBS/DAY)			WINTER DAILY CO EMISSIONS (LBS/DAY)	ANNUAL EMISSIONS (TONS/YEAR)		
		VOC (LBS/DAY)	CO (LBS/DAY)	NOx (LBS/DAY)		VOC (TONS/YR)	CO (TONS/YR)	NOx (TONS/YR)
Bolton LifeStar Emergency Site	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Columbia LifeStar Emergency	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Coventry LifeStar Emergency	4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ellington Airport	38,225	27.3	1,792.8	6.9	1,209.9	4.0	270.4	0.9
Ellington LifeStar Emergency	9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hebron LifeStar Emergency Site	4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Heckler Field	124	0.1	5.0	0.0	0.0	0.0	0.6	0.0
Johnson Memorial Hospital	26	0.0	0.0	0.1	0.1	0.0	0.0	0.0
Mansfield LifeStar Emergency	8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Rockville General Hospital	16	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Somers LifeStar Emergency Site	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Stafford LifeStar Emergency Site	9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Tolland LifeStar Emergency Site	11	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Valley Farms Airport	30	0.0	2.2	0.0	0.0	0.0	0.2	0.0
Vernon LifeStar Emergency Site	5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Willington LifeStar	4	0.0	0.0	0.0	0.0	0.0	0.0	0.0

County / Airport Name	Annual LTO	SUMMER DAILY EMISSIONS (LBS/DAY)			WINTER DAILY CO EMISSIONS (LBS/DAY)	ANNUAL EMISSIONS (TONS/YEAR)		
		VOC (LBS/DAY)	CO (LBS/DAY)	NOx (LBS/DAY)		VOC (TONS/YR)	CO (TONS/YR)	NOx (TONS/YR)
Emergency								
Windward Heights Airstrip	5	0.0	0.5	0.0	0.0	0.0	0.0	0.0
Wysocki Airport	11	0.0	0.0	0.0	1.2	0.0	0.3	0.0
Tolland County Total	38,500	27.5	1,800.7	7.1	1,211.3	4.0	271.5	1.0
Windham County								
Ashford LifeStar Emergency Site	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Brooklyn LifeStar Emergency	4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BUELL FARM	120	0.2	8.1	0.0	0.0	0.0	0.6	0.0
Canterbury LifeStar Emergency	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Chaplin LifeStar Emergency Site	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Danielson Airport	12,170	29.6	1,421.0	4.0	91.0	2.1	97.2	0.2
Day Kimball Hospital	47	0.0	0.1	0.2	0.1	0.0	0.0	0.0
Eastford LifeStar Emergency Site	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hampton LifeStar Emergency	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Killingly LifeStar Emergency Site	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Plainfield LifeStar Emergency	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0

County / Airport Name	Annual LTO	SUMMER DAILY EMISSIONS (LBS/DAY)			WINTER DAILY CO EMISSIONS (LBS/DAY)	ANNUAL EMISSIONS (TONS/YEAR)		
		VOC (LBS/DAY)	CO (LBS/DAY)	NOx (LBS/DAY)		VOC (TONS/YR)	CO (TONS/YR)	NOx (TONS/YR)
Putnam LifeStar Emergency Site	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Scotland LifeStar Emergency Site	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Thompson LifeStar Emergency	4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Toutant Airport	5	0.0	1.2	0.0	0.0	0.0	0.1	0.0
Westford Airstrip	3	0.0	0.3	0.0	0.0	0.0	0.0	0.0
Windham Airport	9,025	13.8	449.4	3.0	133.8	1.8	53.0	0.4
Windham Community Memorial	62	0.0	0.1	0.2	0.0	0.0	0.0	0.0
Windham LifeStar Emergency	5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Woodstock Airport	750	1.6	72.4	0.1	36.2	0.2	8.2	0.0
Woodstock LifeStar Emergency	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Windham County Total	22,216	45.3	1,952.8	7.7	261.1	4.1	159.2	0.8
State Total	438,501	1,920.6	33,721.1	4,268.7	18,609.0	295.3	4,686.3	745.5

3.6 LOCOMOTIVES

Locomotive emissions were determined following guidance contained in the Procedures Document. Table 3.6-7 presents an estimate for the VOC, NO_x, and CO produced by locomotives activities for a typical ozone season day and annually. Table 3.6-7 also presents an estimate for the CO produced by locomotives activities for a winter day.

thirteen companies operated locomotives in 2005:

- Amtrak
- Branford Steam Railroad
- Central New England Railroad
- Connecticut Southern Railroad
- CSX Transportation, Inc.
- Housatonic Railroad Company
- Metro-North Commuter Railroad Company
- Naugatuck Railroad Company
- New England Central Railroad, Inc.
- Providence and Worcester Railroad Company
- Shoreline East Railway
- Springfield Terminal Railway Company (now called Pan Am Railway)
- Valley Railroad Company

CSX Transportation, Inc. is the only Class I company providing freight service within Connecticut.

Branford Steam Railroad, Central New England Railroad, Connecticut Southern Railroad, Housatonic Railroad Company, New England Central Railroad, Inc., Providence and Worcester Railroad Company, and Springfield Terminal Railway (aka Pan Am Railway) Company are Class II and III companies that provide freight service within Connecticut. Naugatuck Railroad Company and Valley Railroad Company are tourist attractions that were classified with the same designations as these Class II and III companies. These two tourist attractions only account for 0.4% of the locomotive diesel fuel usage and are not a significant influence in emissions or in the seasonal distribution of emissions.

Amtrak, Shoreline East Railway and the Metro-North Commuter Railroad Company provide commuter and passenger service for Connecticut. Amtrak Line Haul Locomotives are classified under SCC 22-85-002-008 “Line Haul Locomotives Passenger (Diesel)”, while Shoreline East Railway and the Metro-North Commuter Railroad Company are classified under 22-85-002-009 “Line Haul Locomotives Commuter Lines (Diesel)”. While Shoreline East Railway is a subsidiary of Amtrak, the Shoreline East Railway functions primarily as a commuter line.

Table 3.6-1 provides a tabulation of track mileage usage by diesel line haul locomotives.

The track mileage assignments previously used in apportioning the locomotive emissions in 1999 and 2002 Ozone and Carbon Monoxide Periodic Emissions Inventories were used with one exception. Hartford County track mileage for CSX Transportation, Inc was changed from 33.75 to 0 miles. Amtrak’s Track 10 listed on Reference 15 was interpreted as showing track rights for both Connecticut Southern Railroad and CSX Transportation, Inc; consequently CSX Transportation, Inc had track miles in Hartford County. Reference 16 indicated that CSX Transportation, Inc did not have track rights in Hartford County. CSX Transportation, Inc confirmed that track mileage should only be applied to Fairfield and New Haven Counties.

Each company that operates locomotives in Connecticut provided an estimate for the amount of fuel consumed in 2005 in the state. Amtrak, Branford Steam Railroad, Connecticut Southern Railroad, CSX Railroad, Metro-North Railroad, Springfield Terminal Railway (aka Pan Am Railway) Company and Valley Railroad were the only railroad companies that reported switchyard activity. Naugatuck Railroad Company data was not available at the time of this draft, so 2002 activity data was used calculate emissions. Total locomotive diesel fuel usage for 2005 was estimated at 4,878,977 gallons based on Connecticut DEP survey results. The [Energy Information Administration](#) (EIA) Fuel Oil and Kerosene Sales⁸ [Table 23](#) estimates total railroad distillate fuel use for transportation and heating at 3,715,000 gallons. While these numbers are differ (i.e. energy information numbers are 24% lower than the survey data), locomotive fuel usage survey results are considered to provide a better estimate of locomotive diesel fuel usage, especially considering Connecticut’s size and the ability for out of state railroads to refuel outside of Connecticut (i.e. Providence and Worcester Railroad Company, CSX Transportation, Inc, and Springfield Terminal Railway Company). See Table 23 of Reference 8 for further information related to transportation related distillate diesel fuel sales.

The Valley Railroad Company is the only locomotive company in Connecticut that reported using a coal fired locomotive. In 2005, Valley Railroad Company used 303 tons of Pocahontas brand anthracite coal, and 3,056 gallons of diesel fuel, all in Middlesex County.

The amount of fuel consumed by line haul locomotives in each county annually was apportioned by track mileage by the following equation (see Tables 3.6-1 and 3.6-2):

$$Q = \frac{QCT \times TMZ}{TMCT}$$

Where:

- Q = amount of fuel consumed by line haul or switchyard locomotives by company in each county (gal)
- QCT = amount of fuel consumed by line haul or switchyard locomotives by company in Connecticut (gal)
- TMZ = miles of track used by each company in each county (miles)

TMCT = miles of track used by each company in Connecticut (miles)

A sample calculation for the quantity of diesel fuel consumed for line haul use by Metro-North Railroad in New Haven County is:

$$Q = \frac{1,075,446 \times 27.06}{51.26}$$

$Q = 567,725$ gallons of diesel fuel consumed in New Haven County

The emission factors for both diesel-powered line haul locomotives and diesel-powered switchyard locomotives were taken from Table 3 of the Technical Highlights Document¹². Since the Technical Highlights document presented an emission factor for total hydrocarbons (THC or HC), the value for the Diesel Engine Type was presented in that Table for Conversion Factors for Hydrocarbon Emission Results in EPA's Conversion Factors for Hydrocarbon Emission Components¹³ was used to convert the emission factor to provide a VOC emission factor (i.e. 1.053 VOC/THC times the THC based emission factor yields a VOC emission factor). The emission factors for coal powered locomotives were obtained from Table 1.2-1 in Compilation of Air Pollution Emission Factors (AP-42)¹⁰.

Locomotives were assumed to operate 5 days per week 52 weeks of the year, with uniform activity throughout the year (i.e. typical summer and winter daily emissions are identical). The seasonal adjustment factor for uniform activity is 0.25 for all four seasons. The equation used to calculate daily emissions for this category is as follows:

$$E = \frac{Q \times EF \times SF}{DAYS \times 13}$$

Where:

E	=	county daily emissions from locomotives (lbs./day)
Q	=	amount of fuel consumed by locomotives by county
EF	=	emission factor (lbs./gal)
SF	=	seasonal adjustment factor (%/100)
DAYS	=	activity days per week (5 days)
13	=	52 weeks per year divided by 4 seasons is 13 weeks per season

A sample calculation for the VOC emissions from Metro-North line haul locomotives in New Haven County is:

$$E = \frac{567,725 \times 0.022 \times 0.25}{5 \times 13}$$

E = 48.0 lb. VOC per day

Calculated emissions are presented in Tables 3.6-4, 3.6-5, 3.6-6, 3.6-7 and 3.6-8.

**Table 3.6-1
2005 DIESEL LINE HAUL LOCOMOTIVES TRACK MILEAGE
IN EACH COUNTY BY COMPANY**

Railroad Company Name	Track Rights for Each Connecticut County								Railroad Total for State
	Fairfield	Hartford	Litchfield	Middlesex	New Haven	New London	Tolland	Windham	
Amtrak	0.00	33.90	0.00	11.60	38.90	33.90	0.00	0.00	118.30
Branford Steam Railroad	0	0	0	0	5	0	0	0	5.00
Central New England Railroad	0	3.75	0	0	0	0	0	0	3.75
Connecticut Southern Railroad	0	39	0	0	19	0	0	0	58.00
CSX Railroad	39.38	0	0	0	30	0	0	0	69.38
Housatonic Railroad Company	36	0	46	0	0	0	0	0	82.00
Metro-North Commuter Railroad Company	24.2	0	0	0	27.06	0	0	0	51.26
Naugatuck Railroad Company	0	0	15.5	0	4.1	0	0	0	19.60
New England Central Railroad, Inc	0	0	0	0	0	23	23.2	7	53.20
Providence and Worcester Railroad Company	72.4	0	0	17.1	58.2	73.5	0	46.2	267.40
Shoreline East Railway	0	0	0	10	21.8	0	0	0	31.80

Table 3.6-1
2005 DIESEL LINE HAUL LOCOMOTIVES TRACK MILEAGE
IN EACH COUNTY BY COMPANY

Springfield Terminal Railway Company	0	18.4	24.1	0	28.5	0	0	0	71.00
Valley Railroad Company	0	0	0	13	0	0	0	0	13.00
All Railroads	171.98	95.05	85.60	51.70	232.56	130.40	23.20	53.20	843.69

**Table 3.6-2
2005 GALLONS OF DIESEL FUEL USE FOR LINE HAUL
LOCOMOTIVES BY COMPANY AND COUNTY APPORTIONED
BASED ON TRACK RIGHT MILAGE IN EACH COUNTY**

Railroad Company	Fairfield	Hartford	Litchfield	Middlesex	New Haven	New London	Tolland	Windham	Railroad State Total
Amtrak		362,776		124,136	416,283	362,776			1,265,971
Branford Steam Railroad					29,358				29,358
Central New England Railroad		28,214							28,214
Connecticut Southern Railroad		174,478			85,002				259,480
CSX Railroad	146,415				111,555				257,970
Housatonic Railroad Company	62,512		79,876						142,387
Metro-North Commuter Railroad Company	507,721				567,725				1,075,446
Naugatuck Railroad Company			11,307		2,991				14,298
New England Central Railroad, Inc						74,007	74,650	22,524	171,181
Providence and Worcester Railroad Company	130,608			30,848	104,991	132,592		83,344	482,382
Shoreline East Railway				252,229	549,858				802,087

Table 3.6-2
2005 GALLONS OF DIESEL FUEL USE FOR LINE HAUL
LOCOMOTIVES BY COMPANY AND COUNTY APPORTIONED
BASED ON TRACK RIGHT MILAGE IN EACH COUNTY

Springfield Terminal Railway Company		3,537	4,633		5,479				13,650
Valley Railroad Company				2,636					2,636
Line Haul Total	847,256	569,005	95,816	409,848	1,873,242	569,375	74,650	105,867	4,545,060

**Table 3.6-3
2005 GALLONS OF DIESEL FUEL USED BE EACH COMPANY
FOR SWITCHYARD LOCOMOTIVES IN EACH COUNTY**

County	Fairfield	Hartford	Middlesex	New Haven	Railroad State Total
Amtrak	0	0	0	75,679	75,679
Branford Steam Railroad	0	0	0	16,148	16,148
Connecticut Southern Railroad	0	93,027	0	0	93,027
CSX Railroad	14,032	0	0	14,032	28,065
Metro-North Commuter Railroad Company	97,179	0	0	0	97,179
Springfield Terminal Railway Company	0	11,700	0	11,700	23,400
Valley Railroad Company	0	0	420	0	420
Total Switchyard	111,211	104,727	420	117,559	333,917

**TABLE 3.6-4
2005 SUMMARY OF DIESEL LINE HAUL LOCOMOTIVES EMISSIONS
BY COUNTY**

(OZONE SEASON DAY CO EMISSIONS ARE IDENTICAL TO CO WINTER DAY EMISSIONS)

County	CO (lbs/day)	VOC (lbs/day)	NOx (lbs/day)
Fairfield	191.10	75.65	1,939.69
Hartford	128.34	50.80	1,302.67
Litchfield	21.61	8.56	219.36
Middlesex	92.44	36.59	938.30
New Haven	422.50	167.25	4,288.56
New London	128.42	50.84	1,303.51
Tolland	16.84	6.67	170.90
Windham	23.88	9.45	242.37
State Total	1,025.12	405.81	10,405.36

TABLE 3.6-5
2005 SUMMARY OF DIESEL POWERED SWITCHYARD
LOCOMOTIVE EMISSIONS BY COUNTY

(OZONE SEASON DAY CO EMISSIONS ARE IDENTICAL TO CO WINTER DAY EMISSIONS)

County	CO (lbs/day)	VOC (lbs/day)	NOx (lbs/day)
Fairfield	35.93	20.85	341.36
Hartford	33.83	19.64	321.45
Middlesex	0.14	0.08	1.29
New Haven	37.98	22.04	360.84
STATE TOTAL	107.87	62.61	1,024.95

TABLE 3.6-6
2005 SUMMARY OF COAL POWERED LOCOMOTIVE EMISSIONS

(OZONE SEASON DAY CO EMISSIONS ARE IDENTICAL TO CO WINTER DAY EMISSIONS)

County	CO (lbs/day)	VOC (lbs/day)	NOx (lbs/day)
Middlesex	104.89	20.98	3.50
STATE TOTAL	104.89	20.98	3.50

TABLE 3.6-7
2005 SUMMARY OF ANNUAL AND DAILY EMISSIONS
FROM LOCOMOTIVES

(OZONE SEASON DAY CO EMISSIONS ARE IDENTICAL TO CO WINTER DAY EMISSIONS)

County	Daily CO (lbs/day)	Daily VOC (lbs/day)	Daily NOx (lbs/day)	Annual CO (tons/year)	Annual VOC (tons/year)	Annual NOx (tons/year)
Fairfield	227.02	96.50	2,281.05	29.51	12.54	296.54
Hartford	162.17	70.44	1,624.12	21.08	9.16	211.14
Litchfield	21.61	8.56	219.36	2.81	1.11	28.52
Middlesex	197.46	57.65	943.08	25.67	7.49	122.60
New Haven	460.48	189.30	4,649.40	59.86	24.61	604.42
New London	128.42	50.84	1,303.51	16.69	6.61	169.46
Tolland	16.84	6.67	170.90	2.19	0.87	22.22
Windham	23.88	9.45	242.37	3.10	1.23	31.51
TOTAL	1,237.88	489.40	11,433.80	160.92	63.62	1,486.39

TABLE 3.6-8
2005 SUMMARY OF ANNUAL AND DAILY EMISSIONS
FROM LOCOMOTIVES BY USE AND COUNTY

(OZONE SEASON DAY CO EMISSIONS ARE IDENTICAL TO CO WINTER DAY EMISSIONS)

Locomotive Use / County	Daily CO (lbs/day)	Daily VOC (lbs/day)	Daily NO _x (lbs/day)	Annual CO (tons/year)	Annual VOC (tons/year)	Annual NO _x (tons/year)
Commuter Rail						
Fairfield	146	64	1,461	19	8.3	190
Hartford	0	0	0	0	0.0	0
Litchfield	0	0	0	0	0.0	0
Middlesex	57	23	577	7	2.9	75
New Haven	252	100	2,559	33	13.0	333
New London	0	0	0	0	0.0	0
Tolland	0	0	0	0	0.0	0
Windham	0	0	0	0	0.0	0
Commuter Rail Total:	455	186	4,597	59	24.2	598
Passenger Rail						
Fairfield	0	0	0	0	0.0	0
Hartford	82	32	831	11	4.2	108
Litchfield	0	0	0	0	0.0	0
Middlesex	28	11	284	4	1.4	37
New Haven	118	51	1,185	15	6.7	154
New London	82	32	831	11	4.2	108
Tolland	0	0	0	0	0.0	0
Windham	0	0	0	0	0.0	0
Passenger Rail Total:	310	127	3,131	40	16.5	407
Entertainment Rail						
Fairfield	0	0	0	0	0.0	0
Hartford	0	0	0	0	0.0	0
Litchfield	(*) 3	(*) 1	(*) 26	0	0.1	3
Middlesex	(*) 106	(*) 21	(*) 11	14	2.8	1
New Haven	(*) 1	(*) 0	(*) 7	0	0.0	1
New London	0	0	0	0	0.0	0
Tolland	0	0	0	0	0.0	0
Windham	0	0	0	0	0.0	0
Entertainment Rail Total:	(*) 109	(*) 23	(*) 44	14	2.9	6

TABLE 3.6-8 (Continued)
2005 SUMMARY OF ANNUAL AND DAILY EMISSIONS
FROM LOCOMOTIVES BY USE AND COUNTY
(OZONE SEASON DAY CO EMISSIONS ARE IDENTICAL TO CO WINTER DAY EMISSIONS)

Locomotive Use / County	Daily CO (lbs/day)	Daily VOC (lbs/day)	Daily NO _x (lbs/day)	Annual CO (tons/year)	Annual VOC (tons/year)	Annual NO _x (tons/year)
Freight Class I						
Fairfield	38	16	378	5	2.0	49
Hartford	0	0	0	0	0.0	0
Litchfield	0	0	0	0	0.0	0
Middlesex	0	0	0	0	0.0	0
New Haven	30	13	298	4	1.6	39
New London	0	0	0	0	0.0	0
Tolland	0	0	0	0	0.0	0
Windham	0	0	0	0	0.0	0
Freight Class I Total:	67	28	677	9	3.7	88
Freight Class II / III						
Fairfield	44	17	442	6	2.2	57
Hartford	80	38	794	10	4.9	103
Litchfield	19	8	193	2	1.0	25
Middlesex	7	3	71	1	0.4	9
New Haven	60	25	600	8	3.3	78
New London	47	18	473	6	2.4	61
Tolland	17	7	171	2	0.9	22
Windham	24	9	242	3	1.2	32
Freight Class II / III Total	297	125	2,986	39	16.3	388
STATE TOTAL	1,238	489	11,434	161	63.6	1,486

(*) Daily estimates for Entertainment contribution are based on the uniform activity assumption stated in the analytic method description. The activity of the Entertainment Rail does not conform to this assumption, but is a very small contributor to railroad emissions. Annual estimates for the Entertainment Rail contribution reflect activity and usage; however accurate daily estimates for Entertainment Rail contribution would require additional efforts that are not required to support a periodic emissions inventory. Daily summer and daily winter CO are essentially equal due to similar activity and emission factors for locomotives.

3.7 REFERENCES FOR SECTION 3

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5. 1999 RFG Survey, Fuels & Energy Division, US EPA, April 1997
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7. Part 1 Waterborne Commerce of the United States - 2005, Document Number IWR-WCUS-05-1, U.S. Department of Army Corps of Engineers, Alexandria, Virginia. For sale by: District Engineer, U.S. Army Engineer District, New Orleans, P.O. Box 60267, New Orleans, Louisiana 70160 available on the web at <http://www.iwr.usace.army.mil/ndc/wcsc/pdf/wcusat105.pdf>
8. Energy Information Administration http://www.eia.doe.gov/emeu/states/main_ct.html or http://www.eia.doe.gov/oil_gas/petroleum/data_publications/fuel_oil_and_kerosene_sales/foks_historical.html (for multiple years) or for 2005 go to http://www.eia.doe.gov/pub/oil_gas/petroleum/data_publications/fuel_oil_and_kerosene_sales/historical/2005/foks_2005.html
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11. Fuels & Energy Division, US EPA: RFG Property and Performance Averages for Hartford, CT <http://www.epa.gov/otaq/regs/fuels/rfg/properf/hart-ct.htm> ; RFG Property and Performance Averages for CT – remainder <http://www.epa.gov/otaq/regs/fuels/rfg/properf/ct-remain.htm> ; and RFG Property and Performance Averages for NY-NJ-Long Is.-CT <http://www.epa.gov/otaq/regs/fuels/rfg/properf/ny-nj-ct.htm> (2005 Values presented on the page as of January 3, 2008)
12. Technical Highlights Emission Factors for Locomotives, US EPA, OMS, December 1997, Document Number EPA420-F-97-051
13. Conversion Factors for Hydrocarbon Emission Components, US EPA, OTAQ, May 2003, Document Number EPA420-P-03-002
14. Diesel Fuel Sulfur Inputs for the Model used in the 2004 Nonroad diesel Engine Final Rule, <http://www.epa.gov/otaq/models/nonrdmdl/nonrdmdl2004/sulfur.txt>
15. 2007 Connecticut Rail Transportation Ownership and Service, Connecticut Dept. of Transportation Bureau of Public Transportation Office of Rail as of October 2006.
16. Federal Railroad Administration Geographic Link off <http://www.fra.dot.gov/us/content/23> website obtaining <http://fragis.frasafety.net/GISFRASafety/default.aspx> then zoomed to Connecticut

4.2.2 Vehicle Fueling and Underground Tank Breathing

Table 4.2.2-1 contains the VOC annual and typical ozone season day emissions from vehicle fueling and the data used to calculate these emissions. Table 4.2.2-2 contains the VOC annual and typical ozone season day emissions from underground tank breathing and the data used to calculate these emissions.

The VOC emissions resulting from vehicle fueling are determined by applying an emission factor to the amount of gasoline sold per day. MOBILE6.2⁶ was used to estimate an emission factor for evaporative losses from vehicle fueling and spillage at Stage II and non-Stage II vehicle fueling stations in 2005. The 2005 Reid Vapor Pressure Sampling Program showed that the average Reid Vapor Pressure (RVP) in Connecticut during June, July and August of 2005 was 6.94 psia, however the Mobile 6.2 Model used a RVP of 6.8 psia based on EPA projections for northern reformulated gasoline mixes (Reference 6 page 151). Stage II and non-Stage II emission factors were calculated using 2002 typical 8-hour ozone day temperatures.

The basic input file supplied to the MOBILE6 computer program is presented in Table 4.2.2-3. Additional inputs, such as the inspection and maintenance program and registration age distribution input files used in this section are consistent with and are further described in Section 3 of this emissions inventory report.

Unlike the previous EPA MOBILE models, MOBILE6 does not provide a composite refueling emission factor in grams of VOC per gallon of gasoline sold for all vehicles. It does, however, provide a refueling emission factor in grams per vehicle mile traveled (VMT) for each vehicle class and model year, the fuel efficiency in miles per gallon by each vehicle class and model year, and adjustment factors that can be used to weight the emission factors and fuel efficiency with respect to vehicle age. The information garnered from MOBILE6 was used to develop VOC emission factors in grams per gallon of gasoline sold by vehicle class using the registration distribution file to weight averages calculated from vehicle age specific refueling emission factors and fuel efficiencies. A composite weighted average emission factor in units of grams per gallons of gasoline sold was developed for all vehicles using the weighted average VOC emission factors in grams per gallon of gasoline calculated for each vehicle class and using the relative fraction of VMT by vehicle class. In addition to providing the inputs used in the Mobile 6.2 model, Table 4.2.2-3 also provides the detailed output data developed by the Mobile 6.2 model. Since the bulk of the information used to develop the refueling emission factors came from Mobile 6.2, the composite refueling emission factors are described as coming from MOBILE6.2.

For the non-Stage II stations, an emission factor of 3.01 grams per gallon of gasoline was calculated using a minimum ambient temperature of 67.7°F and a maximum ambient temperature of 95.5°F in the Greater Connecticut non-attainment status area. An emission factor of 2.84 grams per gallon of gasoline was calculated with a minimum ambient temperature of 66.5°F and a maximum ambient temperature of 91.6°F in the CT portion of the NY-NJ-CT CMSA non-attainment status area. Both MOBILE6 refueling emission factors were divided by 453.59 grams/lb. and multiplied by 1,000 to give an emission factor of 6.64 lbs/1,000 gallons for the Greater Connecticut status area and 6.26 lbs/1,000 gallons for the CT portion of the NY-NJ-CT CMSA status area. These emission factors only apply when Stage II is not implemented.

There were 431 stations in Connecticut that were not required to implement Stage II controls because their throughputs were less than 10,000 gallons per month. It was conservatively assumed that each of these

4.2.2 Vehicle Fueling and Underground Tank Breathing

stations sold 10,000 gallons of gasoline per month, for every month in 2005. The amount of gasoline sold at these stations was estimated to be 51,720 thousand gallons (431 * 10 * 12).

There were 1,606 stations in Connecticut that were required to install Stage II controls in Connecticut in 2005. However, there were no data on the number of these facilities that were out of compliance. The DEP inspector most knowledgeable of the Stage II inspection program recommended using the 2002 level of non-compliance. For these reasons it was assumed that 64 stations were out of compliance in 2005. Stations are considered out of compliance if they have not installed stage II or if they have installed Stage II controls but failed to pass the DEP approved test. Control efficiencies for all 64 stations were conservatively assumed to be zero. The amount of gasoline sold at these 64 stations were determined using the following equation:

$$Q_{nc} = \frac{(Q - Q_{nr}) \times NC}{REQ}$$

Where:

- Q_{nc} = thousands of gallons of gasoline sold at stations not in compliance
- Q = thousands of gallons of gasoline sold in state
- Q_{nr} = thousands gallons of gasoline sold at stations not required to install Stage II controls
- NC = number of stations out of compliance
- REQ = number of stations required to install Stage II controls

A sample calculation of the thousands of gallons of gasoline sold at stations not in compliance is presented below:

$$Q_{nc} = \frac{(1,638,667.89 - 51,720) \times 64}{1,606}$$

$$Q_{nc} = 63,240.76 \times 1000 \text{ gallons}$$

The total amount of gasoline sold in Connecticut in 2005 without Stage II controls is 114,960.76 thousand gallons (51,720 + 63,240.76). The total amount of gasoline sold with Stage II controls is 1,523,707.13 thousand gallons (1,638,667.89 - 114,960.76). Table 4.2.2-1 summarizes the quantity of gasoline sold with and without Stage II by county.

The daily non-Stage II VOC emissions are calculated using the following equation:

$$E_{ns} = \frac{Q_{ns} \times POT \times EF}{DAYS}$$

4.2.2 Vehicle Fueling and Underground Tank Breathing

Where:

- E_{ns} = daily county non-Stage II emissions expressed in pounds per day
- EF = 6.64 lbs. per 1,000 gallons for Greater CT status area and 6.26 lbs. per 1,000 gallons for CT portion of the NY-NJ-CT status area
- Q_{ns} = thousands of gallons of gasoline sold without Stage II controls in a county during June, July, and August of 2005
- POT = percentage of DRS's gasoline sold during June, July, and August of 2005
- DAYS = 92 days in the months of June, July and August

A sample calculation of VOC emissions estimated from non-Stage II sources in Hartford County is presented below.

$$E_{ns} = \frac{26,339.32 \times 0.2624 \times 6.64}{92}$$

$$E_{ns} = 498.83 \text{ lbs. VOC per day}$$

Emission factors for the fueling stations that had implemented Stage II were also calculated using MOBILE6. All Inputs were identical to the inputs used for non-Stage II stations, such as RVP and temperature. However, Stage II parameters were included in the inputs.

Connecticut's Stage II program began in 1992 with a two-year phase-in period, a 10,000-gallon monthly throughput cutoff, and an annual inspection. Since the emission factors would only be applied to gasoline sold using Stage II, the Stage II parameters had to reflect a fully implemented program. Therefore, 86% program in-use efficiency for LDGV, LDGT and HDGV, as directed in the Technical Guidance on the Use of MOBILE6 for Emission Inventory Preparation, was used. This efficiency reflects annual inspections and no gasoline station exemptions. Also, a two-year phase-in was input into the mobile model.

An emission factor of 0.69 grams per gallon of gasoline was calculated in the Greater Connecticut non-attainment status area. An emission factor of 0.66 grams per gallon of gasoline was calculated in the CT portion of the NY-NJ-CT CMSA non-attainment status area. Both MOBILE6 refueling emission factors were divided by 453.59 grams/lb. and multiplied by 1,000 to give an emission factor of 1.521 lbs/1,000 gallons and 1.455 lbs/1,000 gallons for the Greater Connecticut and the CT portion of the NY-NJ-CT status areas respectively. These emission factors only applied to gasoline sold using Stage II.

The summer day Stage II VOC emissions are calculated using the following equation:

4.2.2 Vehicle Fueling and Underground Tank Breathing

$$E_{II} = \frac{Q_{II} \times POT \times EF}{DAYS}$$

Where:

- E_{II} = daily county emissions expressed in pounds per day
- EF = 1.521 lbs. per 1,000 gallons for Greater CT status area and 1.455 lbs. per 1,000 gallons for CT portion of the NY-NJ-CT status area
- Q_{II} = thousands of gallons of gasoline sold in a county using Stage II
- POT = percentage of DRS's gasoline sold during June, July, and August of 2005
- $DAYS$ = 92 days in the months of June, July and August

A sample calculation of VOC emissions estimated from Stage II sources in Hartford County is presented below:

$$E_{II} = \frac{349,105.34 \times 0.2624 \times 1.521}{92}$$

$$E_{II} = 1,514.47 \text{ lbs. VOC per day}$$

Stage II and non-Stage II emissions were added together to get the total emissions for each county.

A sample calculation of the total VOC emissions estimated from refueling sources in Hartford County is presented below:

$$E_{tot} = 498.83 + 1,514.47 = 2,013.29 \text{ lbs. VOC per day.}$$

One pound of VOC per thousand gallons of gasoline sold is emitted to the air due to underground tank breathing, according to Table 11.3-1 in EIIP's Gasoline Marketing (Stage I and Stage II). Table 4.2.2-2 summarizes the gallons of gasoline sold in each county and the emissions from tank breathing.

According to EPA's July 19, 2000 letter from David Conroy (EPA) to David Wackter (DEP), Pressure vacuum (PV) vent caps reduce VOC emissions from underground tank breathing by 90%. As of May 2005, PV vent caps are required on all Stage II vapor recovery systems. There were 1,315 gasoline stations in Connecticut with vacuum assist Stage II vapor recovery systems in 2005. Based upon the experience of our lead stage II inspector, it was assumed that all of the vacuum assist vapor recovery systems had pressure vacuum vent caps, and it could be conservatively assumed that all balance vapor recovery systems did not have pressure vent caps installed and tested in 2005. The rule penetration was calculated by dividing the

4.2.2 Vehicle Fueling and Underground Tank Breathing

1,315 gasoline stations with PV vent caps by the total number of gasoline stations in Connecticut (2,037). This resulted in a rule penetration of 64.56%. The default rule effectiveness of 80% was used

The typical summer day tank breathing VOC emissions are calculated using the following equation:

$$E = \frac{Q \times EF \times POT}{DAYS} \times \left(1 - \left(\frac{CntrlE}{100} \times \frac{RuleE}{100} \times \frac{RuleP}{100}\right)\right)$$

Where:

- E = daily county emissions expressed in pounds per day
- EF = 1.0 lbs. per 1,000 gallons
- Q = thousands of gallons of gasoline sold during 2005 in a county
- POT = percentage of DRS's gasoline sold during June, July, and August of 2005
- CntrlE = Percent of VOC controlled by PV vent caps
- RuleE = Percent rule effectiveness of PV vent caps
- RuleP = Percent rule penetration (see above)
- DAYS = 92 days in the months of June, July and August

A sample calculation of VOC emissions estimated from tank breathing sources in Fairfield County is presented below:

$$E = \frac{335,418.59 \times 1.0 \times 0.2624}{92} \left(1 - \left(\frac{90}{100} \times \frac{80}{100} \times \frac{64.56}{100}\right)\right)$$

$$E = 512.0 \text{ lbs. VOC per day}$$

4.2.2 Vehicle Fueling and Underground Tank Breathing

**Table 4.2.2-1
Summary of Vehicle Fueling Emissions**

County	Retail Gas Sold w/out Stage II (1,000 Gal)	Retail Gas Sold with Stage II (1,000 Gal)	Daily VOC Emissions (lbs/day)	Annual VOC Emissions (tons/year)
Fairfield	23,531.29	311,887.29	1,714.65	300.57
Hartford	26,339.32	349,105.34	2,013.28	352.92
Litchfield	9,434.98	125,052.66	721.17	126.42
Middlesex	7,300.88	96,766.94	531.99	93.26
New Haven	28,024.14	371,436.18	2,042.03	357.96
New London	11,063.64	146,639.13	845.66	148.24
Tolland	4,436.69	58,804.52	339.12	59.45
Windham	4,829.81	64,015.05	369.17	64.71
State Total:	114,960.76	1,523,707.12	8,577.09	1,503.54

**Table 4.2.2-2
Summary of Underground Tank Breathing**

County	Retail Gas Sold (1000 Gal)	Daily VOC Emissions (lbs/day)	Annual VOC Emissions (tons/year)
Fairfield	335,418.59	512.03	89.76
Hartford	375,444.67	573.13	100.47
Litchfield	134,487.64	205.30	35.99
Middlesex	104,067.82	158.86	27.85
New Haven	399,460.32	609.80	106.90
New London	157,702.77	240.74	42.20
Tolland	63,241.21	96.54	16.92
Windham	68,844.86	105.09	18.42
State Total:	1,638,667.89	2,501.50	438.51

**TABLE 4.2.2-3
2005 MOBILE6 INPUT DATA**

```

File REFUEL.OPT
DATABASE OPTIONS      :
DAILY OUTPUT         :
WITH FIELDNAMES      :
*AGGREGATED OUTPUT   :
DATABASE EMISSIONS   : 1111 1112 11

MOBILE6 INPUT FILE   :
> REFUEL EMISSIONS
* REVISED 10/25/07

REPORT FILE           : I:\MOBFiles\05Inv28E\Output\Refuel.TXT

DATABASE OUTPUT      :
DATABASE OPTIONS     : I:\MOBFiles\05Inv28E\Opt\REFUEL.OPT
EMISSIONS TABLE     : I:\MOBFiles\05Inv28E\Output\Refuel.tbl

RUN DATA

EXPAND EVAPORATIVE   :
EXPAND BUS EFS       :
EXPAND HDGV EFS      :
EXPAND LDT EFS       :

* Fuel Data
FUEL PROGRAM          : 2 N
FUEL RVP              : 6.94
* FUEL RVP of 6.8 is assigned when FUEL PROGRAM 2 N is used for 2005 used per page 151 of the Mobile 6.2
  Users Guide.

* Vehicle Age Distribution
REG DIST              : I:\MobDOTIn\StdInR00\RegR00\CTReg05.d

* I/M Data
I/M DESC FILE         : I:\MobDOTIn\StdInR00\IMR00\CTIM05.d
ANTI-TAMP PROG        : 83 78 50 22222 21111111 1 12 098. 12111112

VMT FRACTIONS        :
0.4548 0.0832 0.2771 0.0854 0.0393 0.0188 0.0018 0.0015
0.0011 0.0042 0.0049 0.0054 0.0192 0.0010 0.0004 0.0019

SCENARIO RECORD      : Hartford, Litchfield, New London, Tolland, and Windham County Refuel w/o Stage II

CALENDAR YEAR        : 2005
EVALUATION MONTH     : 7

* Weather Data for Serious Area
MIN/MAX TEMP         : 67.7 95.5

RELATIVE HUMIDITY    : 86.2 76.2 69.5 61.2 53.8 49.0 44.5 41.2 40.4 38.8 40.8 43.7
                      47.3 56.5 63.5 67.6 72.8 75.3 75.6 81.8 85.3 87.4 89.1 90.6

BAROMETRIC PRES      : 29.89

SCENARIO RECORD      : Fairfield, Middlesex, and New Haven County Refuel w/o Stage II
CALENDAR YEAR        : 2005
EVALUATION MONTH     : 7

* Weather Data
MIN/MAX TEMP         : 66.5 91.6

RELATIVE HUMIDITY    : 84.0 74.5 65.2 58.8 53.6 48.0 45.5 42.8 41.4 44.3 45.8 49.9
                      56.9 66.0 69.7 71.5 76.1 79.1 85.7 86.7 89.8 90.5 90.7 92.1

BAROMETRIC PRES      : 29.53

END OF RUN

*RUN DATA

```

TABLE 4.2.2-3(continued)
2005 MOBILE6 INPUT DATA

EXPAND EVAPORATIVE :
 EXPAND BUS EFS :
 EXPAND HDGV EFS :
 EXPAND LDT EFS :

* Fuel Data
 FUEL PROGRAM : 2 N
 FUEL RVP : 6.94
 STAGE II REFUELING :
 92 2 86. 86.

* FUEL RVP of 6.8 is assigned when FUEL PROGRAM 2 N is used for 2005 used per page 151 of the Mobile 6.2 Users Guide.

* Vehicle Age Distribution
 REG DIST : C:\Mob02\CTREG02.D

* I/M Data
 I/M DESC FILE : I:\MobDOTIn\StdInR00\IMR00\CTIM05.d
 ANTI-TAMP PROG : 83 78 50 22222 21111111 1 12 098. 12111112

VMT FRACTIONS :
 0.4548 0.0832 0.2771 0.0854 0.0393 0.0188 0.0018 0.0015
 0.0011 0.0042 0.0049 0.0054 0.0192 0.0010 0.0004 0.0019

SCENARIO RECORD : Hartford, Litchfield, New London, Tolland, and Windham County Refuel w Stage II

CALENDAR YEAR : 2005
 EVALUATION MONTH : 7

* Weather Data for Serious Area
 MIN/MAX TEMP : 67.7 95.5

RELATIVE HUMIDITY : 86.2 76.2 69.5 61.2 53.8 49.0 44.5 41.2 40.4 38.8 40.8 43.7
 47.3 56.5 63.5 67.6 72.8 75.3 75.6 81.8 85.3 87.4 89.1 90.6

BAROMETRIC PRES : 29.89

SCENARIO RECORD : Fairfield, Middlesex, and New Haven County Refuel w Stage II
 CALENDAR YEAR : 2005
 EVALUATION MONTH : 7

* Weather Data
 MIN/MAX TEMP : 66.5 91.6

RELATIVE HUMIDITY : 84.0 74.5 65.2 58.8 53.6 48.0 45.5 42.8 41.4 44.3 45.8 49.9
 56.9 66.0 69.7 71.5 76.1 79.1 85.7 86.7 89.8 90.5 90.7 92.1

BAROMETRIC PRES : 29.53

END OF RUN.

**TABLE 4.2.2-3(continued)
2005 MOBILE6 OUTPUT DATA**

there are no sales for vehicle class HDGV8b

Calendar Year: 2005
 Month: July
 Altitude: Low
 Minimum Temperature: 67.7 (F)
 Maximum Temperature: 95.5 (F)
 Minimum Rel. Hum.: 38.8 (%)
 Maximum Rel. Hum.: 90.6 (%)
 Barometric Pressure: 29.89 (inches Hg)
 Fuel Sulfur Content: 90. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.4539	0.3602	0.1229		0.0173	0.0009	0.0019	0.0410	0.0019	1.0000

Composite Emission Factors (g/mi):										
Composite VOC :	0.981	0.861	1.012	0.899	1.589	0.738	0.527	0.537	4.30	0.939
Composite CO :	9.69	10.10	10.31	10.16	13.24	1.829	0.914	3.026	17.60	9.695
Composite NOX :	0.765	0.902	1.073	0.945	4.211	1.589	1.100	11.442	1.17	1.352

Non-Exhaust Emissions (g/mi):										
Hot Soak Loss:	0.164	0.106	0.091	0.102	0.175	0.000	0.000	0.000	0.166	0.127
Diurnal Loss:	0.034	0.022	0.022	0.022	0.059	0.000	0.000	0.000	0.293	0.028
Resting Loss:	0.123	0.077	0.075	0.077	0.196	0.000	0.000	0.000	1.208	0.099
Running Loss:	0.217	0.153	0.140	0.150	0.235	0.000	0.000	0.000	0.000	0.175
Crankcase Loss:	0.008	0.010	0.009	0.010	0.010	0.000	0.000	0.000	0.000	0.009
Refueling Loss:	0.063	0.109	0.206	0.134	0.347	0.000	0.000	0.000	0.000	0.099
Total Non-Exhaust:	0.609	0.477	0.543	0.494	1.020	0.000	0.000	0.000	1.666	0.536

Veh. Type:	LDGT1	LDGT2	LDGT3	LDGT4	LDDT12	LDDT34				
VMT Mix:	0.0832	0.2771	0.0842	0.0387	0.0001	0.0018				

Composite Emission Factors (g/mi):										
Composite VOC :	1.323	0.722	1.100	0.819	2.524	0.465				
Composite CO :	12.24	9.46	10.96	8.90	4.411	0.806				
Composite NOX :	0.854	0.916	1.007	1.217	2.708	1.050				

Non-Exhaust Emissions (g/mi):										
Hot Soak Loss:	0.212	0.073	0.112	0.047	0.000	0.000				
Diurnal Loss:	0.043	0.016	0.025	0.014	0.000	0.000				
Resting Loss:	0.166	0.051	0.091	0.041	0.000	0.000				

**TABLE 4.2.2-3(continued)
2005 MOBILE6 OUTPUT DATA**

Calendar Year: 2005
 Month: July
 Altitude: Low
 Minimum Temperature: 66.5 (F)
 Maximum Temperature: 91.6 (F)
 Minimum Rel. Hum.: 41.4 (%)
 Maximum Rel. Hum.: 92.1 (%)
 Barometric Pressure: 29.53 (inches Hg)
 Fuel Sulfur Content: 90. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.4539	0.3602	0.1229		0.0173	0.0009	0.0019	0.0410	0.0019	1.0000

Composite Emission Factors (g/mi):										
Composite VOC :	0.952	0.836	0.982	0.873	1.523	0.738	0.527	0.537	4.18	0.912
Composite CO :	9.54	10.06	10.26	10.11	12.90	1.829	0.914	3.026	16.54	9.596
Composite NOX :	0.759	0.902	1.073	0.946	4.213	1.589	1.100	11.442	1.21	1.350

Non-Exhaust Emissions (g/mi):										
Hot Soak Loss:	0.160	0.103	0.089	0.100	0.166	0.000	0.000	0.000	0.157	0.124
Diurnal Loss:	0.028	0.018	0.018	0.018	0.048	0.000	0.000	0.000	0.204	0.023
Resting Loss:	0.120	0.075	0.073	0.075	0.191	0.000	0.000	0.000	1.201	0.096
Running Loss:	0.204	0.143	0.130	0.140	0.217	0.000	0.000	0.000	0.000	0.164
Crankcase Loss:	0.008	0.010	0.009	0.010	0.010	0.000	0.000	0.000	0.000	0.009
Refueling Loss:	0.060	0.103	0.194	0.126	0.327	0.000	0.000	0.000	0.000	0.094
Total Non-Exhaust:	0.581	0.452	0.514	0.468	0.960	0.000	0.000	0.000	1.562	0.509

Veh. Type:	LDGT1	LDGT2	LDGT3	LDGT4	LDDT12	LDDT34				
VMT Mix:	0.0832	0.2771	0.0842	0.0387	0.0001	0.0018				

Composite Emission Factors (g/mi):										
Composite VOC :	1.283	0.701	1.068	0.797	2.524	0.465				
Composite CO :	12.21	9.41	10.91	8.84	4.411	0.806				
Composite NOX :	0.855	0.916	1.007	1.217	2.708	1.050				

Non-Exhaust Emissions (g/mi):										
Hot Soak Loss:	0.207	0.072	0.109	0.046	0.000	0.000				
Diurnal Loss:	0.036	0.013	0.021	0.011	0.000	0.000				
Resting Loss:	0.163	0.049	0.089	0.039	0.000	0.000				
Running Loss:	0.240	0.114	0.153	0.080	0.000	0.000				
Crankcase Loss:	0.011	0.010	0.010	0.008	0.000	0.000				

**TABLE 4.2.2-3(continued)
2005 MOBILE6 OUTPUT DATA**

Refueling Loss:	0.110	0.101	0.195	0.193	0.000	0.000		
Total Non-Exhaust:	0.766	0.358	0.577	0.377	0.000	0.000		

Veh. Type:	HDGV2B	HDGV3	HDGV4	HDGV5	HDGV6	HDGV7	HDGV8A	HDGV8B
VMT Mix:	0.0143	0.0005	0.0002	0.0005	0.0011	0.0005	0.0000	0.0000

Composite Emission Factors (g/mi):								
Composite VOC :	1.331	1.978	4.237	2.445	2.292	2.736	3.226	0.000
Composite CO :	10.78	23.17	42.30	21.58	20.08	26.57	30.36	0.00
Composite NOX :	3.991	4.583	5.809	5.278	5.185	5.963	6.671	0.000

Non-Exhaust Emissions (g/mi):								
Hot Soak Loss:	0.143	0.161	0.545	0.295	0.273	0.307	0.390	0.000
Diurnal Loss:	0.038	0.055	0.213	0.099	0.089	0.102	0.126	0.000
Resting Loss:	0.155	0.221	0.832	0.385	0.345	0.398	0.495	0.000
Running Loss:	0.204	0.220	0.460	0.283	0.268	0.294	0.367	0.000
Crankcase Loss:	0.010	0.010	0.011	0.011	0.011	0.011	0.012	0.000
Refueling Loss:	0.310	0.356	0.372	0.416	0.414	0.450	0.480	0.000
Total Non-Exhaust:	0.861	1.023	2.433	1.489	1.401	1.562	1.870	0.000

Veh. Type:	GasBUS	URBAN	SCHOOL					
VMT Mix:	0.0001	0.0004	0.0009					

Composite Emission Factors (g/mi):								
Composite VOC :	1.835	0.353	0.649					
Composite CO :	12.51	3.677	2.072					
Composite NOX :	6.633	16.604	11.998					

Non-Exhaust Emissions (g/mi):								
Hot Soak Loss:	0.196	0.000	0.000					
Diurnal Loss:	0.042	0.000	0.000					
Resting Loss:	0.159	0.000	0.000					
Running Loss:	0.303	0.000	0.000					
Crankcase Loss:	0.010	0.000	0.000					
Refueling Loss:	0.512	0.000	0.000					
Total Non-Exhaust:	1.222	0.000	0.000					

* MOBILE6.2.03 (24-Sep-2003) *								
* Input file: I:\MOBFILES\05INV28E\REFUEL.IN (file 1, run 2). *								

M616 Comment:								
User has supplied post-1999 sulfur levels.								
M601 Comment:								
User has enabled STAGE II REFUELING.								

**TABLE 4.2.2-3(continued)
2005 MOBILE6 OUTPUT DATA**

Composite Emission Factors (g/mi):										
Composite VOC :	0.821	0.673	0.877	0.725	1.371	0.501	0.487	0.541	4.31	0.778
Composite CO :	8.94	9.15	10.29	9.44	14.09	1.445	0.846	3.047	17.50	9.028
Composite NOX :	0.716	0.825	1.065	0.886	4.243	1.170	1.057	11.454	1.17	1.301

Non-Exhaust Emissions (g/mi):										
Hot Soak Loss:	0.145	0.090	0.099	0.092	0.180	0.000	0.000	0.000	0.167	0.114
Diurnal Loss:	0.027	0.018	0.022	0.019	0.060	0.000	0.000	0.000	0.313	0.023
Resting Loss:	0.097	0.060	0.078	0.065	0.201	0.000	0.000	0.000	1.264	0.081
Running Loss:	0.197	0.134	0.145	0.137	0.242	0.000	0.000	0.000	0.000	0.160
Crankcase Loss:	0.008	0.009	0.009	0.009	0.010	0.000	0.000	0.000	0.000	0.008
Refueling Loss:	0.017	0.026	0.046	0.031	0.076	0.000	0.000	0.000	0.000	0.024
Total Non-Exhaust:	0.491	0.338	0.400	0.354	0.769	0.000	0.000	0.000	1.743	0.411

Veh. Type:	LDGT1	LDGT2	LDGT3	LDGT4	LDDT12	LDDT34				
VMT Mix:	0.0832	0.2771	0.0842	0.0387	0.0000	0.0018				

Composite Emission Factors (g/mi):										
Composite VOC :	1.242	0.502	0.979	0.654	2.521	0.460				
Composite CO :	12.40	8.17	11.09	8.54	4.405	0.799				
Composite NOX :	0.928	0.794	1.022	1.157	2.708	1.035				

Non-Exhaust Emissions (g/mi):										
Hot Soak Loss:	0.223	0.050	0.122	0.050	0.000	0.000				
Diurnal Loss:	0.037	0.012	0.026	0.014	0.000	0.000				
Resting Loss:	0.147	0.035	0.094	0.044	0.000	0.000				
Running Loss:	0.281	0.090	0.174	0.083	0.000	0.000				
Crankcase Loss:	0.011	0.009	0.010	0.008	0.000	0.000				
Refueling Loss:	0.031	0.025	0.047	0.044	0.000	0.000				
Total Non-Exhaust:	0.730	0.220	0.473	0.243	0.000	0.000				

Veh. Type:	HDGV2B	HDGV3	HDGV4	HDGV5	HDGV6	HDGV7	HDGV8A	HDGV8B		
VMT Mix:	0.0143	0.0005	0.0002	0.0005	0.0011	0.0005	0.0000	0.0000		

Composite Emission Factors (g/mi):										
Composite VOC :	1.131	1.767	4.141	2.214	2.056	2.487	2.977	0.000		
Composite CO :	11.01	24.13	44.30	22.32	20.73	27.54	31.49	0.00		
Composite NOX :	3.991	4.571	5.775	5.270	5.178	5.950	6.655	0.000		

Non-Exhaust Emissions (g/mi):										
Hot Soak Loss:	0.149	0.171	0.590	0.316	0.292	0.328	0.417	0.000		
Diurnal Loss:	0.047	0.067	0.259	0.122	0.110	0.125	0.154	0.000		
Resting Loss:	0.158	0.225	0.844	0.392	0.353	0.406	0.505	0.000		
Running Loss:	0.220	0.240	0.509	0.309	0.292	0.321	0.402	0.000		
Crankcase Loss:	0.010	0.010	0.011	0.011	0.011	0.011	0.012	0.000		
Refueling Loss:	0.072	0.082	0.085	0.096	0.095	0.103	0.110	0.000		

**TABLE 4.2.2-3(continued)
2005 MOBILE6 OUTPUT DATA**

Composite VOC :	0.798	0.656	0.856	0.707	1.319	0.501	0.487	0.541	4.17	0.758
Composite CO :	8.81	9.10	10.24	9.39	13.70	1.445	0.846	3.047	16.44	8.935
Composite NOX :	0.710	0.825	1.065	0.886	4.246	1.170	1.057	11.454	1.21	1.298

Non-Exhaust Emissions (g/mi):										
Hot Soak Loss:	0.142	0.088	0.097	0.090	0.171	0.000	0.000	0.000	0.158	0.112
Diurnal Loss:	0.022	0.015	0.019	0.016	0.049	0.000	0.000	0.000	0.216	0.019
Resting Loss:	0.094	0.059	0.077	0.063	0.197	0.000	0.000	0.000	1.257	0.079
Running Loss:	0.186	0.125	0.135	0.127	0.223	0.000	0.000	0.000	0.000	0.150
Crankcase Loss:	0.008	0.009	0.009	0.009	0.010	0.000	0.000	0.000	0.000	0.008
Refueling Loss:	0.017	0.025	0.044	0.030	0.073	0.000	0.000	0.000	0.000	0.023
Total Non-Exhaust:	0.469	0.321	0.380	0.336	0.724	0.000	0.000	0.000	1.631	0.391

Veh. Type:	LDGT1	LDGT2	LDGT3	LDGT4	LDGT12	LDGT34				
VMT Mix:	0.0832	0.2771	0.0842	0.0387	0.0000	0.0018				

Composite Emission Factors (g/mi):										
Composite VOC :	1.207	0.490	0.955	0.641	2.521	0.460				
Composite CO :	12.37	8.12	11.04	8.49	4.405	0.799				
Composite NOX :	0.929	0.794	1.023	1.157	2.708	1.035				

Non-Exhaust Emissions (g/mi):										
Hot Soak Loss:	0.218	0.049	0.119	0.048	0.000	0.000				
Diurnal Loss:	0.031	0.010	0.022	0.012	0.000	0.000				
Resting Loss:	0.143	0.033	0.092	0.043	0.000	0.000				
Running Loss:	0.262	0.084	0.162	0.077	0.000	0.000				
Crankcase Loss:	0.011	0.009	0.010	0.008	0.000	0.000				
Refueling Loss:	0.030	0.024	0.045	0.043	0.000	0.000				
Total Non-Exhaust:	0.696	0.208	0.449	0.230	0.000	0.000				

Veh. Type:	HDGV2B	HDGV3	HDGV4	HDGV5	HDGV6	HDGV7	HDGV8A	HDGV8B		
VMT Mix:	0.0143	0.0005	0.0002	0.0005	0.0011	0.0005	0.0000	0.0000		

Composite Emission Factors (g/mi):										
Composite VOC :	1.090	1.701	3.947	2.121	1.970	2.386	2.852	0.000		
Composite CO :	10.78	23.17	42.30	21.58	20.08	26.57	30.36	0.00		
Composite NOX :	3.991	4.583	5.809	5.278	5.185	5.963	6.671	0.000		

Non-Exhaust Emissions (g/mi):										
Hot Soak Loss:	0.143	0.161	0.545	0.295	0.273	0.307	0.390	0.000		
Diurnal Loss:	0.038	0.055	0.213	0.099	0.089	0.102	0.126	0.000		
Resting Loss:	0.155	0.221	0.832	0.385	0.345	0.398	0.495	0.000		
Running Loss:	0.204	0.220	0.460	0.283	0.268	0.294	0.367	0.000		
Crankcase Loss:	0.010	0.010	0.011	0.011	0.011	0.011	0.012	0.000		
Refueling Loss:	0.070	0.079	0.082	0.092	0.092	0.100	0.106	0.000		
Total Non-Exhaust:	0.620	0.746	2.143	1.165	1.078	1.211	1.496	0.000		

**TABLE 4.2.2-3(continued)
2005 MOBILE6 OUTPUT DATA**

Veh. Type:	GasBUS	URBAN	SCHOOL
VMT Mix:	0.0002	0.0004	0.0008

Composite Emission Factors (g/mi):			
Composite VOC :	6.387	0.544	0.733
Composite CO :	94.00	4.432	2.650
Composite NOX :	8.387	17.653	12.177

Non-Exhaust Emissions (g/mi):			
Hot Soak Loss:	0.655	0.000	0.000
Diurnal Loss:	0.187	0.000	0.000
Resting Loss:	0.728	0.000	0.000
Running Loss:	0.878	0.000	0.000
Crankcase Loss:	0.011	0.000	0.000
Refueling Loss:	0.116	0.000	0.000
Total Non-Exhaust:	2.575	0.000	0.000

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