

Task 4
Technical Memorandum 2 (Emission Inventory)

Control Analysis and Documentation for
Residential Wood Combustion in the MANE-VU Region

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1 Introduction

Task 4 of the contract for the *Control Analysis and Documentation for Residential Wood Combustion Emissions in the MANE-VU Region* is the calculation of an emission inventory for residential wood combustion (RWC). The emission inventory has been compiled by county, by state and by the three Heating Degree Day (HDD) categories specified by MARAMA. The emission inventory has been provided for each of the major wood-burning device categories (Table 1.1). The air pollutants included in the inventory were selected based on their relevancy to RWC, availability of reasonable emission factors, and comments provided by MARAMA's review team. These air pollutants are listed in Table 1.2.

Table 1.1
Wood-Burning Device Categories

Category	Comments
Uncertified conventional cordwood heater	Sum of freestanding units and fireplace inserts
EPA-certified non-catalytic cordwood heater	
EPA-certified catalytic cordwood heater	
Cordwood-burning fireplace without insert	Separate emission inventories calculated for cordwood and manufactured wax/sawdust fuel use
Pellet Heater	Sum of freestanding units and fireplace inserts. Both EPA-certified and exempt units included.
Centralized Cordwood Systems	Sum of cordwood furnaces and boilers. Both inside and outside boilers included.

Table 1.2
Air Pollutants

Pollutant	Comments
PM _{2.5}	Assumed equivalent to PM, reported as 5H equivalent
PM ₁₀	Assumed equivalent of PM, reported as 5H equivalent
Nitrogen oxides (NO _x)	Reported as NO ₂
Carbon monoxide (CO)	
Sulfur dioxide (SO ₂)	
Ammonia (NH ₃)	
Benzene	
Phenol	
7-PAH	
16-PAH	
Benzo(a)pyrene	
Naphthalene	
1,3-Butadiene	
Formaldehyde	
Acetaldehyde	
Acrolein	
Creosols	Sum of o, m and p isomers
PCB _{TEQ}	
Dioxin _{TEQ}	
Methane	
Volatile Organic Compounds (VOC)	

The calculation of the emission inventory for each appliance type broken down to the county, state and HDD category levels is straightforward. The dry mass of fuel (activity) for cordwood, pellets, and manufactured wax/sawdust firelogs in kilograms compiled in Task 3 (Technical Memorandum 1) of this project was multiplied by the applicable emission factor in the units of mass air pollutant per mass of dry fuel (g/kg, mg/kg, ug/kg, ng/kg, or pg/kg). The emission factors were obtained by reviewing and averaging (if multiple sources were available) data obtained from available reports and publications. After each emission factor table in Section 2 of this document, the references are listed and any special issues taken into consideration in the tabulations are noted as footnotes to the tables. The emission factor and emission inventory tables are offered with little narrative, as they are self-explanatory. It should be noted that while some of the emission factors tabulated in AP-42 (which are also the source of many subsequent tabulations that are in the public domain) were used, new sources of data were also used as the AP-42 data lack currency and are limited. For example, many pollutants are not provided for each category of wood-burning devices and some primary data sources referenced in AP-42 clearly have values that can be considered “outliers” in light of a review of more extensive and current data.

A summary of emission factors and a summary of total emissions from RWC by pollutant are provided in Section 5.

2. Emission Factors

Emission factors for each of the wood-burning device categories (cordwood heaters, pellet heaters, fireplaces without inserts, and centralized cordwood heating systems) have been tabulated separately in separate subsections. (Sections 2.1-2.4). The emission factors for cordwood heaters have been subdivided further into uncertified conventional, certified non-catalytic, and certified catalytic cordwood heaters (Sections 2.1.1-2.1.3). Emission factors for fireplaces without inserts have been tabulated for both their use of cordwood and manufactured wax/fiber firelogs (Sections 2.3.1 and 2.3.2).

Each emission factor table lists the average value used in the subsequent emission inventory calculations, the individual emission factors used to derive the average emission factor, and the sources of the individual emission factors. The sources are referenced after each table. Some sources are themselves reviews, rather than primary sources and hence the emission factors listed in them are already averages. In these cases, the primary references are included along with the reference to the review. Some sources included in reviews were not included in the averages because the data contained in them were clearly outliers or were misinterpretations when data from subsequent and more current work were compared with them. Finally, any special calculations or assumptions used to calculate emission inventory data are provided as footnotes to the tables.

The selection of data (references) for compiling average emission factors had a number of criteria. These were:

1. The wood-burning device tested was a commercially available unit, not a novel research unit, or an atypical unit not generally used by the public.

2. Reasonable burn rates and representative fuel were used in the testing.
3. A narrative was provided documenting established and/or technically sound testing and analytical methodologies.
4. If there was a large enough literature database available for a given pollutant, the reported emission factor or the emission factor calculated from data provided in the document was evaluated to determine if it were an outlier as compared to data from other sources (i.e., outside of two standard deviation of the mean of the other data). An outlier status could be indicative of a non-representative use of the wood-burning devices, or measurement or calculation errors.
5. Adequate supporting ancillary data was supplied along with the key emission factor data to establish the veracity of the results. These included fuel moisture, temperatures and pressures associated with gas volumes, operational temperatures, stack gas velocities, etc.
6. The emission factor units or the units of data used to calculate the emission factors, as well as, units for supporting ancillary data were provided.
7. Some of the references were review documents with the emission factors being the compilation of primary measurements from more than one source. Care was taken to insure that data from no reference was included in the calculation of the final recommended emission factors more than once.
8. Calculation methods were either provided or transparent.
9. Institutional and/or authorship information was provided with unpublished reports.

2.1 Cordwood Heaters

Emission factors for cordwood heaters are applicable to freestanding cordwood stoves and cordwood fireplace inserts. All cordwood heaters sold after July 1, 1990 in the United States had to be certified for low emissions unless they had an exemption. Two technologies have been used to achieve low emissions. These are catalytic and non-catalytic. Catalytic units, of course, rely on a catalyst to reduce air emissions. Non-catalytic technologies rely on the introduction of heated secondary air and other design features to achieve low emissions.

It has been generally recognized that uncertified conventional, certified catalytic and certified non-catalytic cordwood heaters have different characteristic emission factors; consequently the emission factors have been tabulated separately for each of the three types.

2.1.1 Uncertified Conventional Cordwood Heaters

Emission factors for uncertified conventional cordwood heaters have been attained from three categories of heaters. These are: (1) heaters manufactured before the NSPS July 1, 1990 certification requirement, (2) currently or recently manufactured exempt units which operate similarly to some old pre-EPA certification units, and (3) low-technology units sold outside the United States.

Table 2.1.1
Uncertified Conventional Cordwood Heater Emission Factors

Pollutant	Average E.F.	E.F.	E.F.	E.F.	E.F.	References [†]
PM _{2.5} (g/kg) [*]	16.9	15.3	18.5			9.01-9.02, 9.04-9.06, 9.09-9.11, 4
PM ₁₀ (g/kg) [*]	16.9	15.3	18.5			9.01-9.02, 9.04-9.06, 9.09-9.11, 4
NO _x (g/kg) ^{**}	1.28	1.17	1.40			3, 9.01-9.02, 9.04-9.06, 9.09-9.11
CO (g/kg)	78.4	41.4	115.4			3, 9.01-9.02, 9.04-9.06, 9.09-9.11
SO ₂ (g/kg)	0.10	0.008	0.20			3, 9.01-9.02, 9.04-9.06, 9.09-9.11
NH ₃ (g/kg)	0.85	0.85				1
Benzene (g/kg)	1.08	0.97	1.19			9.03, 9.07-9.08, 8
Phenol (g/kg)	0.15	0.14	0.060	0.24		8, 6, 7
7-PAH (g/kg)	0.022	0.022				9.03
16-PAH (g/kg)	0.32	0.36	0.27			9.03, 7
Benzo(a)pyrene (mg/kg)	0.84	2.0	0.2	0.32		9.03, 8, 6
Naphthalene (g/kg)	0.091	0.14	0.028	0.014	0.178	9.03, 8, 6, 7
1,3-Butadiene (g/kg)	0.20	0.20				8
Formaldehyde (g/kg)	0.73	0.25	1.21			8, 7
Acetaldehyde (g/kg)	0.31	0.36	0.26			8, 7
Acrolein (g/kg)	0.046	0.046				8
Cresols (g/kg) ^{***}	0.080	0.080				6
PCB _{TEQ} (pg/kg)	0.50	0.5				3
Dioxin _{TEQ} (ng/kg)	2.30	3.78	0.82			3, 10, 2, 5
Methane (g/kg)	32.0	32.0				9.03, 9.07-9.08
VOC (g/kg) ^{****}	18.3	22.7	14.0			8, 9.03, 9.07-9.08

* Reported as EPA Method 5H equivalent

** Reported as NO₂

*** Sum of o, m, and p isomers

**** If not specifically stated, assumed to be non-methane VOC

† References listed in order corresponding to order of emission factors in a given row

Calculation Notes:

Reference 3 emission factors (NO_x, CO, SO₂): factors were given in g/m³ (or mg/m³) at 10% CO₂, and converted to g/kg (or mg/kg) as shown below.

10% of 1 m³ = 0.1m³ = 100 liters. PV=nRT, n = mass / molecular weight, mass = (molecular weight PV) / (RT)
molecular weight CO₂ = 44 g/mol, P = 1 atm, V = 100 liters, R = 0.082 l atm / mol K, T = 273 K

$$(44 \times 1 \times 100) / (0.082 \times 273) = 197 \text{ g CO}_2, \text{ C / CO}_2 = 12 / 44 \times 197 \text{ g CO}_2 = 53.7 \text{ g C}$$

Wood is approximately 51% carbon, so $53.7 / 0.51 = 105.02$ g wood, or 0.105 kg wood/m³.

Since wood is approximately 51% carbon, the mass of wood per m³ of CO₂ is estimated to be 0.105 kg per m³ of CO₂. The factors, in g/m³ (or mg/m³), divided by 0.105 kg/m³ = g/kg fuel (or mg/kg fuel).

Reference 3 NO_x: (NO g/m³ x (NO₂ Molecular Weight / NO Molecular Weight) + NO₂ g/m³) divided by 0.105 kg/m³

Reference 3 Dioxin_{TEQ} is calculated by subtracting the PCB_{WHO-TEQ} from the PCDD/F_{WHO-TEQ}, and reducing the difference by 10% to take into account the difference in the international and WHO TEF.

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2.1.2 Certified Non-Catalytic Cordwood Heaters

Emission factors for certified non-catalytic cordwood heaters were primarily obtained from: (1) units that are certified under the NSPS program, and (2) high-technology units sold outside of the United States that are equivalent to modern certified units sold in the U.S.

Table 2.1.2
Certified Non-Catalytic Cordwood Heater Emission Factors

Pollutant	Average E.F.	E.F.	E.F.	E.F.	E.F.	References [†]
PM _{2.5} (g/kg) [*]	7.51	9.23	7.3	6		3, 12.02-12.04, 12.06-12.07, 12.09-12.11, 7
PM ₁₀ (g/kg) [*]	7.51	9.23	7.3	6		3, 12.02-12.04, 12.06-12.07, 12.09-12.11, 7
NO _x (g/kg) ^{**}	1.14	1.14				average of cat. and conv. 12.02-12.04, 12.06-12.07, 12.09-12.11
CO (g/kg)	70.4	70.4				12.02-12.04, 12.06-12.07, 12.09-12.11
SO ₂ (g/kg)	0.20	0.2				12.02-12.04, 12.06-12.07, 12.09-12.11
NH ₃ (g/kg)	0.45	0.45				1
Benzene (g/kg)	0.48	0.48				12, 11
Phenol (g/kg)	0.24	0.18	0.27	0.28		3, 9, 10
7-PAH (g/kg)	0.014	0.004	0.024			3, 12.01, 12.05, 12.08, 12.12
16-PAH (g/kg)	0.16	0.14	0.21	0.13		3, 12.01, 12.05, 12.08, 12.12, 10
Benzo(a)pyrene (mg/kg)	1.09	0.56	0.42	3	0.39	4-6, 3, 12.01, 12.05, 12.08, 12.12, 9
Naphthalene (g/kg)	0.069	0.078	0.072	0.068	0.059	3, 12.01, 12.05, 12.08, 12.12, 9, 10
1,3-Butadiene (g/kg)	0.087	0.087				11
Formaldehyde (g/kg)	1.11	1.11				10
Acetaldehyde (g/kg)	0.32	0.32				10
Acrolein (g/kg)	0.020	0.020				11
Cresols (g/kg) ^{***}	0.23	0.15	0.31			3, 9
PCB _{TEQ} (pg/kg)	1.40	1.4				4-6
Dioxin _{TEQ} (ng/kg)	0.40	0.25	0.54			4-6, 2, 8
Methane (g/kg)	14.2	14.2				12
VOC (g/kg) ^{****}	10.1	10.1				11

* Reported as EPA Method 5H equivalent

** Reported as NO₂

*** Sum of o, m, and p isomers

**** If not specifically stated, assumed to be non-methane VOC

† References listed in order corresponding to order of emission factors in a given row

Calculation Notes:

Benzene, 1,3-Butadiene, Acrolein, Methane, and VOC emission factors estimated by multiplying the respective emission factors for uncertified conventional cordwood heaters by the ratio of the certified non-catalytic cordwood heater PM_{2.5} emission factor to the uncertified conventional cordwood heater PM_{2.5} emission factor.

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2.1.3 Certified Catalytic Cordwood Heaters

Emission factors for certified catalytic cordwood heaters were primarily obtained from: (1) units that are certified under the NSPS program, (2) catalytic units sold outside of the United States that are equivalent to modern certified units sold in the U.S., and (3) research units that were never produced and were not certified. Catalysts degrade with use, increasing emissions. Some of data used in the calculations of average emission factors were for new units, and some were from used units.

Table 2.1.3
Certified Catalytic Cordwood Heater Emission Factors

Pollutant	Average E.F.	E.F.	E.F.	E.F.	References [†]
PM _{2.5} (g/kg) [*]	8.37	10.8	8.1	6.2	3, 10.02-10.03, 10.05, 10.08-10.09, 10.12-10.14, 6
PM ₁₀ (g/kg) [*]	8.37	10.8	8.1	6.2	3, 10.02-10.03, 10.05, 10.08-10.09, 10.12-10.14, 6
NO _x (g/kg) ^{**}	1.00	1			10.02-10.03, 10.05, 10.08-10.09, 10.12-10.14
CO (g/kg)	53.5	53.5			10.02-10.03, 10.05, 10.08-10.09, 10.12-10.14
SO ₂ (g/kg)	0.20	0.2			10.02-10.03, 10.05, 10.08-10.09, 10.12-10.14
NH ₃ (g/kg)	0.45	0.45			1
Benzene (g/kg)	1.12	0.73	1.5		10.04, 10.10-10.11, 4
Phenol (g/kg)	0.20	0.25	0.15		3, 8
7-PAH (g/kg)	0.014	0.003	0.025		3, 10.01, 10.04, 10.06-10.07, 10.10
16-PAH (g/kg)	0.14	0.15	0.20	0.078	3, 10.01, 10.04, 10.06-10.07, 10.10, 8
Benzo(a)pyrene (mg/kg)	1.97	0.32	2.00	3.60	3, 10.01, 10.04, 10.06-10.07, 10.10, 4
Naphthalene (g/kg)	0.077	0.081	0.093	0.058	3, 10.01, 10.04, 10.06-10.07, 10.10, 8
1,3-Butadiene (g/kg)	0.097	0.097			9
Formaldehyde (g/kg)	0.49	0.42	0.56		4, 8
Acetaldehyde (g/kg)	0.27	0.086	0.45		4, 8
Acrolein (g/kg)	0.016	0.016			4
Cresols (g/kg) ^{***}	0.27	0.27			3
PCB _{TEQ} (pg/kg)	0.25	0.25			5
Dioxin _{TEQ} (ng/kg)	1.14	1.14			5, 11, 7, 2
Methane (g/kg)	13.0	13.0			10.04, 10.10-10.11
VOC (g/kg) ^{****}	8.60	8.6			10.04, 10.10-10.11

* Reported as EPA Method 5H equivalent

** Reported as NO₂

*** Sum of o, m, and p isomers

**** If not specifically stated, assumed to be non-methane VOC

† References listed in order corresponding to order of emission factors in a given row

Calculation Notes:

Ammonia emission factor assumed to be the same as certified non-catalytic cordwood heater

1,3-Butadiene, PCB_{TEQ}, and Dioxin_{TEQ} emission factors estimated by multiplying the respective emission factors from conventional cordwood heaters by the ratio of the certified catalytic cordwood heater PM_{2.5} emission factor to the conventional wood heater PM_{2.5} emission factor.

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2.2 Pellet Heaters

Emission factors for pellet heaters were obtained from (1) older models, (2) modern models (3) EPA-certified models, and (4) EPA-exempt models. Modern pellet heaters (stoves and fireplace inserts) are of two basic technology types: bottom-feed and top feed. Data from both types were used in the development of emission factors. For some pollutants, no data were available for pellet heaters. In some of these cases, data from centralized pellet heating systems operating under a continuous burning cycle were used to estimate emissions from pellet heaters, as combustion conditions are similar.

Table 2.2
Pellet Heater Emission Factors

Pollutant	Average E.F.	E.F.	E.F.	E.F.	E.F.	References [†]
PM _{2.5} (g/kg) [*]	1.53	2.74	0.32			9, 10
PM ₁₀ (g/kg) [*]	1.53	2.74	0.32			9, 10
NO _x (g/kg) ^{**}	1.90	3.17	1.23	1.31		1, 8, 10
CO (g/kg)	8.0	27.9	0.90	1.90	1.18	9, 1, 8, 10
SO ₂ (g/kg)	0.16	0.27	0.20	0.0006		1, 14.01-14.04, 8
NH ₃ (g/kg)	0.15	0.15				2
Benzene (g/kg)	0.014	0.027	0.002			13, 10
Phenol (g/kg)	0.013	0.013				12
7-PAH (g/kg)	0.031	0.031				3, 14.01-14.04, 12
16-PAH (g/kg)	0.35	0.35				12
Benzo(a)pyrene (mg/kg)	3.34	3.34				4-6, 14.01-14.04, 3, 11, 12
Naphthalene (g/kg)	0.21	0.21				12
1,3-Butadiene (g/kg)	0.0005	0.0005				10
Formaldehyde (g/kg)	0.16	0.16				12
Acetaldehyde (g/kg)	0.047	0.047				12
Acrolein (g/kg)	0.005	0.0051				7, 12
Cresols (g/kg) ^{***}	0.008	0.0078				3, 11, 12
PCB _{TEQ} (pg/kg)	0.10	0.10				8
Dioxin _{TEQ} (ng/kg)	1.90	1.90				8
Methane (g/kg)	0.12	0.24	0.0062			13, 10 (1/2 DL)
VOC (g/kg) ^{****}	0.020	0.020				10

* Reported as EPA Method 5H equivalent

** Reported as NO₂

*** Sum of o, m, and p isomers

**** If not specifically stated, assumed to be non-methane VOC

[†] References listed in order corresponding to order of emission factors in a given row

Calculation Notes:

7-PAH emission factor is estimated by multiplying the pellet heater 16-PAH emission factor by the ratio of the certified non-catalytic cordwood heater 7-PAH emission factor to the certified non-catalytic cordwood heater 16-PAH emission factor.

Benzo(a)pyrene emission factor is estimated by multiplying the pellet heater naphthalene emission factor by the ratio of certified non-catalytic cordwood heater benzo(a)pyrene emission factor to the certified non-catalytic cordwood heater naphthalene emission factor

Acrolein emission factor is estimated by multiplying the pellet heater formaldehyde emission factor by the ratio of the certified catalytic cordwood heater acrolein emission factor to the certified catalytic cordwood heater formaldehyde emission factor.

Cresol emission factor is estimated by multiplying the pellet heater phenol emission factor by the ratio of certified non-catalytic cordwood heater cresols emission factor to the certified non-catalytic cordwood heater phenol emission factor.

Dioxin_{TEQ} is calculated by subtracting the PCB_{WHO-TEQ} from the PCDD/F_{WHO-TEQ} and reducing the difference by 10% to take into account the difference in the international and WHO TEF.

Emission factors from reference 10 were originally in mg/MJ or g/MJ. These were multiplied by the lower heating value of the fuel (19 MJ/kg) to convert to mg/kg or g/kg.

Reference 3 emission factors (NO_x, CO, SO₂): factors were given in g/m³ (or mg/m³) at 10% CO₂, and converted to g/kg (or mg/kg) as shown below.

10% of 1 m³ = 0.1m³ = 100 liters. PV=nRT, n = mass / molecular weight, mass = (molecular weight PV) / (RT)
molecular weight CO₂ = 44 g/mol, P = 1 atm, V = 100 liters, R = 0.082 l atm / mol K, T = 273 K

$$(44 \times 1 \times 100) / (0.082 \times 273) = 197 \text{ g CO}_2, \text{ C/CO}_2 = 12 / 44 \times 197 \text{ g CO}_2 = 53.7 \text{ g C}$$

Wood is approximately 51% carbon, so 53.7 / 0.51 = 105.02 g wood, or 0.105 kg wood/m³.

Since wood is approximately 51% carbon, the mass of wood per m³ of CO₂ is estimated to be 0.105 kg per m³ of CO₂. The factors, in g/m³ (or mg/m³), divided by 0.105 kg/m³ = g/kg fuel (or mg/kg fuel).

Reference 3 NO_x: (NO g/m³ x (NO₂ Molecular Weight / NO Molecular Weight) + NO₂ g/m³) divided by 0.105 kg/m³

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2.3 Fireplace without Inserts

Emission factors for fireplaces include manufactured units and site-built masonry units both operated with and without glass doors.

2.3.1 Cordwood

Emission factors for fireplaces burning cordwood were derived from fireplaces burning both cordwood and from laboratory studies, which used dimensional lumber as a reproducible surrogate for cordwood.

It is important to note that the VOC emission factor used in this report is much lower than the VOC emission factor in AP-42. This is due to the fact that the AP-42 used an average of nine emission factors from three documents created between 1977 and 1983^{2,9,06,9,11}. Of those nine emission factors, two were clearly outliers (from reference 9.11) since they are 37 and 13 standard deviations larger than the mean of 12.9 (which excluded the two outliers). Since the report containing the two outliers only contained three emission factors, the entire report was omitted. After the report's three emission factors were removed, 11 emission factors from two more recent studies^{8,10} were averaged with the remaining six factors from AP-42 to determine the more reasonable updated VOC emission factor for fireplaces without inserts burning cordwood from Table 2.3.1 of 9.43 g/kg.

Table 2.3.1
Fireplaces without Inserts Burning Cordwood Emission Factors

Pollutant	Average E.F.	E.F.	E.F.	E.F.	E.F.	References [†]
PM _{2.5} (g/kg) [*]	15.3	13.0	15.5	17.3		1.01-1.17, 8, 12
PM ₁₀ (g/kg) [*]	15.3	13.0	15.5	17.3		1.01-1.17, 8, 12
NO _x (g/kg) ^{**}	1.45	1.6	1.3			9.01-9.21, 12
CO (g/kg)	74.6	72.9	76.3			9.01-9.21, 8
SO ₂ (g/kg)	0.20	0.2				12
NH ₃ (g/kg)	0.90	0.9				3
Benzene (g/kg)	0.34	0.3	0.42	0.38	0.27	9.01-9.21, 8, 10
Phenol (g/kg)	0.24	0.086	0.42	0.20		8, 9.13, 10
7-PAH (g/kg)	0.11	0.11				9.01-9.21
16-PAH (g/kg)	0.38	0.62	0.13			9.01-9.21, 8
Benzo(a)pyrene (mg/kg)	0.37	0.45	0.42	0.25		4, 5, 6, 9.13, 10
Naphthalene (g/kg)	0.13	0.23	0.038			9.13, 10
1,3-Butadiene (g/kg)	0.079	0.079				10
Formaldehyde (g/kg)	0.90	1.2	1.4	0.84	0.15	9.01-9.12, 9.14-9.21, 8, 9.13, 10
Acetaldehyde (g/kg)	0.53	0.045	1.18	0.38		8, 9.13, 10
Acrolein (g/kg)	0.062	0.054	0.069			9.13, 10
Cresols (g/kg) ^{***}	0.18	0.075	0.28			8, 9.13
PCB _{TEQ} (pg/kg)	0.38	0.38				7, 10
Dioxin _{TEQ} (ng/kg)	0.39	0.20	0.68	0.3		11, 4, 5, 9.04, 8
Methane (g/kg)	7.21	6.7	10.8	4.12		9.01-9.12, 9.14-9.21, 8, 9.13
VOC (g/kg) ^{****}	9.43	8.14	9.06	1.5	19	10, 8, 2, 9.06

* Reported as EPA Method 5H equivalent

** Reported as NO₂

*** Sum of o, m, and p isomers

**** If not specifically stated, assumed to be non-methane VOC

[†] References listed in order corresponding to order of emission factors in a given row

Calculation Notes:

PCB_{TEQ} is estimated by multiplying the conventional cordwood heater PCB_{TEQ} emission factor by the ratio of the fireplace without insert burning cordwood biphenyl emission factor to the conventional cordwood heater biphenyl emission factor.

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2.3.2 Wax/Sawdust Manufactured Firelogs

Separate emission factors were tabulated for manufactured wax/sawdust firelogs burned in fireplaces. Because wax/sawdust firelogs are typically composed of 40% to 60% wax or wax-like materials, their emission characteristics are considerably different than wood alone. Care should be taken when reviewing the emission factors for wax/sawdust firelogs as they contain almost twice as much heat per unit mass as does wood, they do not require kindling and the manufacturers' instructions are for one-at-a-time use. Consequently, they are presented here for the purpose of calculating an emission inventory, not for a comparison of their emissions with cordwood.

Table 2.3.2
Fireplaces without Inserts Burning Manufactured Wax/Fiber Firelogs Emission Factors

Pollutant	Average E.F.	E.F.	E.F.	E.F.	E.F.	References [†]
PM _{2.5} (g/kg) [*]	24.1	21.2	14.7	36.5		7.01-7.12, 5, 6,
PM ₁₀ (g/kg) [*]	24.1	21.2	14.7	36.5		7.01-7.12, 5, 6,
NO _x (g/kg) ^{**}	3.23	2.00	3.8	3.9		7.01-7.12, 5, 6,
CO (g/kg)	68.5	58.5	62.5	84.4		7.01-7.12, 5, 6,
SO ₂ (g/kg)	2.08	2.08				5
NH ₃ (g/kg)	0.002	0.002				6
Benzene (g/kg)	0.45	0.84	0.53	0.37	0.043	7.01-7.12, 5, 6, 8
Phenol (g/kg)	0.018	0.028	0.0086			6, 8
7-PAH (g/kg)	0.002	0	0.0036			7.01-7.12, 5
16-PAH (g/kg)	0.065	0.06	0.07	0.06		7.01-7.12, 5, 6
Benzo(a)pyrene (mg/kg)	0.48	0.54	0.60	0.30		1, 2, 3, 5, 8
Naphthalene (g/kg)	0.035	0.049	0.021			5, 8
1,3-Butadiene (g/kg)	0.008	0.0085				8
Formaldehyde (g/kg)	0.75	1.20	0.92	0.86	0.04	7.01-7.12, 5, 6, 8
Acetaldehyde (g/kg)	0.062	0.078	0.045			6, 8
Acrolein (g/kg)	0.018	0.018				8
Cresols (g/kg) ^{***}	0.021	0.021				6
PCB _{TEQ} (pg/kg)	1.63	1.63				8, 4
Dioxin _{TEQ} (ng/kg)	1.22	2.40	0.31	0.96		1, 2, 3, 9, 6
Methane (g/kg)	38.8	27.0	50.5			7.01-7.12, 6
VOC (g/kg) ^{****}	16.9	19.8	1.40	29.6		5, 8, 6

* Reported as EPA Method 5H equivalent

** Reported as NO₂

*** Sum of o, m, and p isomers

**** If not specifically stated, assumed to be non-methane VOC

[†] References listed in order corresponding to order of emission factors in a given row

Calculation Notes:

PCB_{TEQ} emission factor is estimated from the ratio of biphenyl emission factors for fireplaces burning manufactured wax/sawdust firelogs to conventional woodstoves burning cordwood multiplied by the conventional stoves burning cordwood PCB_{TEQ} emission factor.

SO₂ emission factor for fireplaces without inserts burning manufactured wax/sawdust firelogs is estimated by calculating the difference in the sulfur content of five different firelogs and the sulfur content of their respective

combustion residues, dividing that mass of sulfur by the mass of each log, and taking the average of those emission factors, as shown in the calculation below:

	Firelog	Combustion Residue
Log 1:	$(2.3 \text{ kg log}) \times (1000\text{g/kg}) \times (0.23\% \text{ sulfur}/100\%) - (10\text{g residue/kg fuel}) \times (2.3 \text{ kg log}) \times (4.82\% \text{ sulfur}/100\%)$	
Log 2:	$(1.4 \text{ kg log}) \times (1000\text{g/kg}) \times (0.08\% \text{ sulfur}/100\%) - (16\text{g residue/kg fuel}) \times (1.4 \text{ kg log}) \times (1.91\% \text{ sulfur}/100\%)$	
Log 3:	$(2.7 \text{ kg log}) \times (1000\text{g/kg}) \times (0.08\% \text{ sulfur}/100\%) - (11\text{g residue/kg fuel}) \times (2.7 \text{ kg log}) \times (1.82\% \text{ sulfur}/100\%)$	
Log 4:	$(2.3 \text{ kg log}) \times (1000\text{g/kg}) \times (0.08\% \text{ sulfur}/100\%) - (11\text{g residue/kg fuel}) \times (2.3 \text{ kg log}) \times (1.37\% \text{ sulfur}/100\%)$	
Log 5:	$(2.7 \text{ kg log}) \times (1000\text{g/kg}) \times (0.20\% \text{ sulfur}/100\%) - (16\text{g residue/kg fuel}) \times (2.7 \text{ kg log}) \times (2.88\% \text{ sulfur}/100\%)$	
	$= 5.29 \text{ g S} - 1.11 \text{ g S} = 4.18 \text{ g S} \times (\text{mol. wt. SO}_2 (64.1) / \text{mol. wt. S (32.1)}) = 8.35 \text{ g SO}_2$	
	$= 1.12 \text{ g S} - 0.428 \text{ g S} = 0.69 \text{ g S} \times (\text{mol. wt. SO}_2 (64.1) / \text{mol. wt. S (32.1)}) = 1.37 \text{ g SO}_2$	
	$= 2.16 \text{ g S} - 0.541 \text{ g S} = 1.62 \text{ g S} \times (\text{mol. wt. SO}_2 (64.1) / \text{mol. wt. S (32.1)}) = 3.23 \text{ g SO}_2$	
	$= 1.84 \text{ g S} - 0.347 \text{ g S} = 1.49 \text{ g S} \times (\text{mol. wt. SO}_2 (64.1) / \text{mol. wt. S (32.1)}) = 2.98 \text{ g SO}_2$	
	$= 5.40 \text{ g S} - 1.24 \text{ g S} = 4.16 \text{ g S} \times (\text{mol. wt. SO}_2 (64.1) / \text{mol. wt. S (32.1)}) = 8.30 \text{ g SO}_2$	
	$8.35 \text{ g SO}_2 / 2.3 \text{ kg firelog} = 3.63 \text{ g SO}_2 / \text{kg fuel}$	
	$1.37 \text{ g SO}_2 / 1.4 \text{ kg firelog} = 0.98 \text{ g SO}_2 / \text{kg fuel}$	
	$3.23 \text{ g SO}_2 / 2.7 \text{ kg firelog} = 1.20 \text{ g SO}_2 / \text{kg fuel}$	
	$2.98 \text{ g SO}_2 / 2.3 \text{ kg firelog} = 1.30 \text{ g SO}_2 / \text{kg fuel}$	
	$8.30 \text{ g SO}_2 / 2.7 \text{ kg firelog} = 3.07 \text{ g SO}_2 / \text{kg fuel}$	
Average g SO ₂ / kg fuel = 2.04 g/kg at 2% moisture, 2.08 g/kg dry		

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2.4 Centralized Cordwood Heating Systems

Emission factors for centralized cordwood heating systems were calculated from data obtained from: (1) cordwood-fired hot-air furnaces, (2) cordwood-fired indoor boilers, and (3) cordwood-fired outdoor boilers (hydronic heaters, included within the average of centralized cordwood heating systems). Data from both more modern units with heat storage tanks and gasification-like designs and from more traditional units operating intermittently with thermostatic control were included.

Table 2.4
Centralized Cordwood Heating System Emission Factors

Pollutant	Average E.F.	E.F.	E.F.	E.F.	References [†]
PM _{2.5} (g/kg) [*]	13.8	5.26	22.4		4, 6, 11
PM ₁₀ (g/kg) [*]	13.8	5.26	22.4		4, 6, 11
NO _x (g/kg) ^{**}	0.92	0.97	1.45	0.34	3, 4, 1
CO (g/kg)	91.8	123.6	83.2	68.5	3, 4, 1
SO ₂ (g/kg)	1.01	1.55	0.48		3, 1
NH ₃ (g/kg)	0.90	0.90			2
Benzene (g/kg)	1.38	0.47	2.29		4, 9
Phenol (g/kg)	0.12	0.12			8, 5, 7
7-PAH (g/kg)	0.018	0.018			10
16-PAH (g/kg)	0.26	0.26			10, 7
Benzo(a)pyrene (mg/kg)	1.37	1.37			9
Naphthalene (g/kg)	0.074	0.074			10, 8, 5, 7
1,3-Butadiene (g/kg)	0.015	0.015			4
Formaldehyde (g/kg)	0.35	0.35			9
Acetaldehyde (g/kg)	0.34	0.34			9
Acrolein (g/kg)	0.022	0.022			8
Cresols (g/kg) ^{***}	0.066	0.066			5
PCB _{TEQ} (pg/kg)	0.55	0.55			3
Dioxin _{TEQ} (ng/kg)	4.16	4.16			3
Methane (g/kg)	13.1	13.1			4
VOC (g/kg) ^{****}	5.85	5.85			4

* Reported as EPA Method 5H equivalent

** Reported as NO₂

*** Sum of o, m, and p isomers

**** If not specifically stated, assumed to be non-methane VOC

[†] References listed in order corresponding to order of emission factors in a given row

Calculation Notes:

Dioxin_{TEQ} is calculated by subtracting the PCB_{WHO-TEQ} from the PCDD/F_{WHO-TEQ} and reducing the difference by 10% to take into account the difference in the international and WHO TEF.

Phenol, 7-PAH, 16-PAH, naphthalene, and cresols estimated by multiplying their respective conventional stove emission factors by the ratio of the centralized cordwood heating system PM_{2.5} emission factor to the conventional cordwood heater PM_{2.5} emission factor.

Acrolein estimated by multiplying the centralized heater formaldehyde emission factor by the ratio of the conventional cordwood heater acrolein emission factor to the conventional cordwood heater formaldehyde emission factor.

Reference 4: Emission factors from reference 4 were originally in mg/MJ or g/MJ. These were multiplied by the lower heating value of the fuel (19 MJ/kg) to convert to mg/kg or g/kg.

Reference 3 emission factors (NO_x, CO, SO₂): factors were given in g/m³ (or mg/m³) at 10% CO₂, and converted to g/kg (or mg/kg) as shown below.

10% of 1 m³ = 0.1m³ = 100 liters. PV=nRT, n = mass / molecular weight, mass = (molecular weight PV) / (RT)
molecular weight CO₂ = 44 g/mol, P = 1 atm, V = 100 liters, R = 0.082 l atm / mol K, T = 273 K

$$(44 \times 1 \times 100) / (0.082 \times 273) = 197 \text{ g CO}_2, \text{ C/CO}_2 = 12 / 44 \times 197 \text{ g CO}_2 = 53.7 \text{ g C}$$

Wood is approximately 51% carbon, so 53.7 / 0.51 = 105.02 g wood, or 0.105 kg wood/m³.

Since wood is approximately 51% carbon, the mass of wood per m³ of CO₂ is estimated to be 0.105 kg per m³ of CO₂. The factors, in g/m³ (or mg/m³), divided by 0.105 kg/m³ = g/kg fuel (or mg/kg fuel).

Reference 3 NO_x: (NO g/m³ x (NO₂ Molecular Weight / NO Molecular Weight) + NO₂ g/m³) divided by 0.105 kg/m³

Section 2.4 References

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3. Emission Inventory

The calculation of the emission inventory for each appliance type, broken down to the county, state and HDD category levels, is straightforward. The dry mass of fuel (activity) for cordwood, pellets, and manufactured wax/sawdust firelogs in kilograms compiled in Task 3 (Technical Memorandum 1) of this project was multiplied by the applicable emission factor from tables 2.1.1-2.4 in the units of mass of air pollutant per mass of dry fuel (g/kg, mg/kg, ug/kg, ng/kg, or pg/kg). Emission inventories are shown in Tables 3.1.1-3.4.

3.1 Cordwood Heaters

3.1.1 Uncertified Conventional Cordwood Heaters

Section 1: PM_{2.5}, PM₁₀, NO_x, CO, SO₂, NH₃, Benzene, Phenol

Section 2: 7-PAH, 16-PAH, Benzo(a)pyrene, Naphthalene, 1,3-Butadiene,
Formaldehyde, Acetaldehyde, Acrolein

Section 3: Cresols, PCB_{TEQ}, Dioxin_{TEQ}, Methane, VOC

3.1.2 Certified Non-Catalytic Cordwood Heaters

Section 1: PM_{2.5}, PM₁₀, NO_x, CO, SO₂, NH₃, Benzene, Phenol

Section 2: 7-PAH, 16-PAH, Benzo(a)pyrene, Naphthalene, 1,3-Butadiene,
Formaldehyde, Acetaldehyde, Acrolein

Section 3: Cresols, PCB_{TEQ}, Dioxin_{TEQ}, Methane, VOC

3.1.3 Certified Catalytic Cordwood Heaters

Section 1: PM_{2.5}, PM₁₀, NO_x, CO, SO₂, NH₃, Benzene, Phenol

Section 2: 7-PAH, 16-PAH, Benzo(a)pyrene, Naphthalene, 1,3-Butadiene,
Formaldehyde, Acetaldehyde, Acrolein

Section 3: Cresols, PCB_{TEQ}, Dioxin_{TEQ}, Methane, VOC

Section 3.1.1

Table 3.1.1

Emission Inventory for Uncertified Conventional Cordwood Heaters (2002 Base Year)

Section 1

State	County	Total conventional cordwood heaters	Total dry mass of cordwood burned by conventional cordwood heaters (kg/yr)	PM _{2.5} (kg/yr)	PM ₁₀ (kg/yr)	NO _x (kg/yr) as NO ₂	CO (kg/yr)	SO ₂ (kg/yr)	NH ₃ (kg/yr)	Benzene (kg/yr)	Phenol (kg/yr)
Connecticut	Fairfield County	11,042	29,891,394	505,165	505,165	38,337	2,343,912	3,103	25,408	32,263	4,409
	Hartford County	19,148	51,834,820	876,008	876,008	66,480	4,064,590	5,381	44,060	55,947	7,646
	Litchfield County	5,824	19,913,723	336,542	336,542	25,540	1,561,520	2,067	16,927	21,494	2,937
	Middlesex County	4,386	11,872,150	200,639	200,639	15,227	930,946	1,232	10,091	12,814	1,751
	New Haven County	13,342	36,117,575	610,387	610,387	46,322	2,832,134	3,749	30,700	38,983	5,327
	New London County	6,247	16,911,623	285,806	285,806	21,690	1,326,113	1,756	14,375	18,253	2,494
	Tolland County	4,829	16,510,586	279,029	279,029	21,175	1,294,666	1,714	14,034	17,821	2,435
	Windham County	4,927	16,848,570	284,741	284,741	21,609	1,321,169	1,749	14,321	18,185	2,485
	Total Connecticut		69,746	199,900,440	3,378,317	3,378,317	256,380	15,675,050	20,752	169,915	215,761
Delaware	Kent County	3,754	4,305,186	72,758	72,758	5,522	337,588	447	3,659	4,647	635
	New Castle County	7,524	8,627,327	145,802	145,802	11,065	676,506	896	7,333	9,312	1,273
	Sussex County	4,877	5,592,105	94,507	94,507	7,172	438,501	581	4,753	6,036	825
Total Delaware		16,155	18,524,618	313,066	313,066	23,759	1,452,595	1,923	15,746	19,994	2,732
Maine	Androscoggin County	6,008	17,122,993	289,379	289,379	21,961	1,342,687	1,778	14,555	18,482	2,526
	Aroostook County	5,092	14,512,421	245,260	245,260	18,613	1,137,981	1,507	12,336	15,664	2,141
	Cumberland County	9,625	27,430,487	463,575	463,575	35,181	2,150,942	2,848	23,316	29,607	4,046
	Franklin County	2,687	7,657,389	129,410	129,410	9,821	600,449	795	6,509	8,265	1,129
	Hancock County	4,481	12,771,002	215,830	215,830	16,379	1,001,429	1,326	10,855	13,784	1,884
	Kennebec County	7,182	20,467,833	345,906	345,906	26,251	1,604,970	2,125	17,398	22,092	3,019
	Knox County	3,253	9,272,064	156,698	156,698	11,892	727,062	963	7,881	10,008	1,368
	Lincoln County	2,836	8,081,597	136,579	136,579	10,365	633,713	839	6,869	8,723	1,192
	Oxford County	4,580	13,053,975	220,612	220,612	16,742	1,023,618	1,355	11,096	14,090	1,925
	Penobscot County	8,200	23,370,443	394,960	394,960	29,974	1,832,577	2,426	19,865	25,225	3,447
	Piscataquis County	1,589	4,528,846	76,537	76,537	5,808	355,126	470	3,850	4,888	668
	Sagadahoc County	2,695	7,679,750	129,788	129,788	9,850	602,202	797	6,528	8,289	1,133
	Somerset County	4,080	11,627,870	196,511	196,511	14,913	911,791	1,207	9,884	12,550	1,715
	Waldo County	3,763	10,724,309	181,241	181,241	13,754	840,939	1,113	9,116	11,575	1,582
Washington County	2,346	6,685,441	112,984	112,984	8,574	524,234	694	5,683	7,216	986	

State	County	Total conventional cordwood heaters	Total dry mass of cordwood burned by conventional cordwood heaters (kg/yr)	PM _{2.5} (kg/yr)	PM ₁₀ (kg/yr)	NO _x (kg/yr) as NO ₂	CO (kg/yr)	SO ₂ (kg/yr)	NH ₃ (kg/yr)	Benzene (kg/yr)	Phenol (kg/yr)
	York County	7,792	22,205,726	375,277	375,277	28,480	1,741,246	2,305	18,875	23,968	3,275
	Total Maine	76,210	217,192,145	3,670,547	3,670,547	278,558	17,030,967	22,547	184,613	234,424	32,035
Maryland	Allegany County	4,242	10,438,816	176,416	176,416	13,388	818,552	1,084	8,873	11,267	1,540
	Anne Arundel County	19,599	22,589,697	381,766	381,766	28,972	1,771,355	2,345	19,201	24,382	3,332
	Baltimore County	20,085	23,149,420	391,225	391,225	29,690	1,815,245	2,403	19,677	24,986	3,414
	Calvert County	2,988	3,444,240	58,208	58,208	4,417	270,078	358	2,928	3,718	508
	Caroline County	1,230	1,417,246	23,951	23,951	1,818	111,132	147	1,205	1,530	209
	Carroll County	5,299	6,107,352	103,214	103,214	7,833	478,904	634	5,191	6,592	901
	Cecil County	2,902	3,344,668	56,525	56,525	4,290	262,270	347	2,843	3,610	493
	Charles County	3,337	3,846,726	65,010	65,010	4,934	301,638	399	3,270	4,152	567
	Dorchester County	791	912,255	15,417	15,417	1,170	71,534	95	775	985	135
	Frederick County	6,600	7,606,985	128,558	128,558	9,756	596,496	790	6,466	8,211	1,122
	Garrett County	2,518	7,826,688	132,271	132,271	10,038	613,724	812	6,653	8,448	1,154
	Harford County	5,776	6,657,157	112,506	112,506	8,538	522,016	691	5,659	7,185	982
	Howard County	4,546	5,239,529	88,548	88,548	6,720	410,854	544	4,454	5,655	773
	Kent County	668	769,562	13,006	13,006	987	60,345	80	654	831	114
	Montgomery County	14,708	16,952,482	286,497	286,497	21,742	1,329,317	1,760	14,410	18,297	2,500
	Prince George's County	24,093	27,769,457	469,304	469,304	35,615	2,177,522	2,883	23,604	29,973	4,096
	Queen Anne's County	1,555	1,792,389	30,291	30,291	2,299	140,549	186	1,524	1,935	264
	St. Mary's County	8,115	9,353,360	158,072	158,072	11,996	733,437	971	7,950	10,095	1,380
	Somerset County	799	921,373	15,571	15,571	1,182	72,249	96	783	994	136
	Talbot County	1,132	1,304,699	22,049	22,049	1,673	102,307	135	1,109	1,408	192
	Washington County	5,540	13,630,895	230,362	230,362	17,482	1,068,857	1,415	11,586	14,712	2,011
	Wicomico County	2,571	2,963,437	50,082	50,082	3,801	232,376	308	2,519	3,199	437
	Worcester County	1,598	1,841,484	31,121	31,121	2,362	144,399	191	1,565	1,988	272
	Baltimore city	978	1,127,188	19,049	19,049	1,446	88,388	117	958	1,217	166
	Total Maryland	141,670	181,007,105	3,059,020	3,059,020	232,149	14,193,543	18,790	153,856	195,368	26,698
Massachusetts	Barnstable County	6,360	16,444,262	277,908	277,908	21,090	1,289,465	1,707	13,978	17,749	2,425
	Berkshire County	6,017	19,651,425	332,109	332,109	25,204	1,540,952	2,040	16,704	21,211	2,899
	Bristol County	8,871	22,934,184	387,588	387,588	29,414	1,798,368	2,381	19,494	24,754	3,383
	Dukes County	784	2,027,651	34,267	34,267	2,601	158,997	210	1,724	2,189	299

State	County	Total conventional cordwood heaters	Total dry mass of cordwood burned by conventional cordwood heaters (kg/yr)	PM _{2.5} (kg/yr)	PM ₁₀ (kg/yr)	NO _x (kg/yr) as NO ₂	CO (kg/yr)	SO ₂ (kg/yr)	NH ₃ (kg/yr)	Benzene (kg/yr)	Phenol (kg/yr)
	Essex County	12,605	32,588,482	550,745	550,745	41,796	2,555,403	3,383	27,700	35,174	4,807
	Franklin County	4,827	15,763,762	266,408	266,408	20,218	1,236,104	1,636	13,399	17,014	2,325
	Hampden County	10,009	32,686,097	552,395	552,395	41,921	2,563,057	3,393	27,783	35,279	4,821
	Hampshire County	6,822	22,279,746	376,528	376,528	28,575	1,747,050	2,313	18,938	24,047	3,286
	Middlesex County	17,675	57,724,555	975,545	975,545	74,034	4,526,430	5,992	49,066	62,304	8,514
	Nantucket County	407	1,053,265	17,800	17,800	1,351	82,591	109	895	1,137	155
	Norfolk County	9,517	24,606,754	415,854	415,854	31,559	1,929,521	2,554	20,916	26,559	3,629
	Plymouth County	7,470	19,312,287	326,378	326,378	24,769	1,514,359	2,005	16,415	20,845	2,849
	Suffolk County	561	1,450,789	24,518	24,518	1,861	113,763	151	1,233	1,566	214
	Worcester County	18,409	60,120,530	1,016,037	1,016,037	77,107	4,714,308	6,241	51,102	64,890	8,868
	Total Massachusetts	110,335	328,643,787	5,554,080	5,554,080	421,499	25,770,368	34,116	279,347	354,718	48,474
New Hampshire	Belknap County	2,645	8,215,118	138,836	138,836	10,536	644,183	853	6,983	8,867	1,212
	Carroll County	3,113	9,668,957	163,405	163,405	12,401	758,184	1,004	8,219	10,436	1,426
	Cheshire County	4,833	15,012,202	253,706	253,706	19,254	1,177,171	1,558	12,760	16,203	2,214
	Coos County	1,867	5,799,894	98,018	98,018	7,439	454,795	602	4,930	6,260	855
	Grafton County	5,536	17,195,314	290,601	290,601	22,054	1,348,358	1,785	14,616	18,560	2,536
	Hillsborough County	11,665	36,232,658	612,332	612,332	46,470	2,841,158	3,761	30,798	39,107	5,344
	Merrimack County	5,758	17,885,086	302,258	302,258	22,938	1,402,446	1,857	15,202	19,304	2,638
	Rockingham County	8,515	26,449,915	447,004	447,004	33,923	2,074,051	2,746	22,482	28,548	3,901
	Strafford County	4,040	12,550,209	212,099	212,099	16,096	984,116	1,303	10,668	13,546	1,851
	Sullivan County	2,845	8,835,524	149,320	149,320	11,332	692,831	917	7,510	9,537	1,303
	Total New Hampshire	50,817	157,844,876	2,667,578	2,667,578	202,442	12,377,293	16,386	134,168	170,368	23,282
New Jersey	Atlantic County	4,286	4,899,225	82,797	82,797	6,283	384,169	509	4,164	5,288	723
	Bergen County	12,695	30,976,913	523,510	523,510	39,729	2,429,032	3,216	26,330	33,435	4,569
	Burlington County	6,123	6,998,677	118,278	118,278	8,976	548,796	727	5,949	7,554	1,032
	Camden County	10,355	11,836,158	200,031	200,031	15,180	928,124	1,229	10,061	12,775	1,746
	Cape May County	2,726	3,115,556	52,653	52,653	3,996	244,304	323	2,648	3,363	460
	Cumberland County	2,600	2,971,550	50,219	50,219	3,811	233,012	308	2,526	3,207	438
	Essex County	4,543	11,084,802	187,333	187,333	14,217	869,207	1,151	9,422	11,964	1,635
	Gloucester County	3,531	4,035,525	68,200	68,200	5,176	316,443	419	3,430	4,356	595
	Hudson County	554	1,351,096	22,834	22,834	1,733	105,945	140	1,148	1,458	199

State	County	Total conventional cordwood heaters	Total dry mass of cordwood burned by conventional cordwood heaters (kg/yr)	PM _{2.5} (kg/yr)	PM ₁₀ (kg/yr)	NO _x (kg/yr) as NO ₂	CO (kg/yr)	SO ₂ (kg/yr)	NH ₃ (kg/yr)	Benzene (kg/yr)	Phenol (kg/yr)
	Hunterdon County	2,302	5,617,194	94,931	94,931	7,204	440,468	583	4,775	6,063	829
	Mercer County	4,386	5,013,585	84,730	84,730	6,430	393,137	520	4,262	5,411	739
	Middlesex County	8,685	9,926,591	167,759	167,759	12,731	778,387	1,030	8,438	10,714	1,464
	Monmouth County	7,996	9,139,854	154,464	154,464	11,722	716,695	949	7,769	9,865	1,348
	Morris County	4,851	11,836,510	200,037	200,037	15,181	928,152	1,229	10,061	12,776	1,746
	Ocean County	8,405	9,606,451	162,349	162,349	12,321	753,283	997	8,165	10,369	1,417
	Passaic County	4,863	11,867,234	200,556	200,556	15,220	930,561	1,232	10,087	12,809	1,750
	Salem County	1,638	1,871,745	31,632	31,632	2,401	146,772	194	1,591	2,020	276
	Somerset County	2,921	7,127,152	120,449	120,449	9,141	558,871	740	6,058	7,693	1,051
	Sussex County	3,375	8,234,141	139,157	139,157	10,561	645,674	855	6,999	8,887	1,215
	Union County	4,967	12,120,435	204,835	204,835	15,545	950,415	1,258	10,302	13,082	1,788
	Warren County	2,663	6,499,107	109,835	109,835	8,335	509,623	675	5,524	7,015	959
	Total New Jersey	104,464	176,129,503	2,976,589	2,976,589	225,893	13,811,069	18,284	149,710	190,104	25,979
New York	Albany County	5,969	19,646,092	332,019	332,019	25,197	1,540,534	2,039	16,699	21,205	2,898
	Allegany County	3,571	11,753,754	198,638	198,638	15,075	921,662	1,220	9,991	12,686	1,734
	Bronx County	1,124	1,371,312	23,175	23,175	1,759	107,530	142	1,166	1,480	202
	Broome County	6,946	22,861,782	386,364	386,364	29,321	1,792,690	2,373	19,433	24,676	3,372
	Cattaraugus County	5,671	18,664,587	315,432	315,432	23,938	1,463,570	1,938	15,865	20,145	2,753
	Cayuga County	4,303	14,161,786	239,334	239,334	18,163	1,110,486	1,470	12,038	15,285	2,089
	Chautauqua County	7,502	24,691,182	417,281	417,281	31,667	1,936,141	2,563	20,988	26,650	3,642
	Chemung County	4,069	13,393,134	226,344	226,344	17,177	1,050,213	1,390	11,384	14,456	1,975
	Chenango County	3,511	11,555,997	195,296	195,296	14,821	906,155	1,200	9,823	12,473	1,704
	Clinton County	3,267	10,753,164	181,728	181,728	13,791	843,202	1,116	9,140	11,606	1,586
	Columbia County	2,538	8,352,413	141,156	141,156	10,712	654,948	867	7,100	9,015	1,232
	Cortland County	2,567	8,447,471	142,762	142,762	10,834	662,402	877	7,180	9,118	1,246
	Delaware County	3,746	12,328,312	208,348	208,348	15,812	966,716	1,280	10,479	13,306	1,818
	Dutchess County	5,356	17,627,780	297,909	297,909	22,608	1,382,270	1,830	14,984	19,026	2,600
	Erie County	25,978	85,498,845	1,444,930	1,444,930	109,656	6,704,331	8,876	72,674	92,282	12,611
	Essex County	2,154	7,089,659	119,815	119,815	9,093	555,931	736	6,026	7,652	1,046
	Franklin County	2,995	9,857,493	166,592	166,592	12,643	772,968	1,023	8,379	10,640	1,454
	Fulton County	2,769	9,114,515	154,035	154,035	11,690	714,708	946	7,747	9,838	1,344

State	County	Total conventional cordwood heaters	Total dry mass of cordwood burned by conventional cordwood heaters (kg/yr)	PM _{2.5} (kg/yr)	PM ₁₀ (kg/yr)	NO _x (kg/yr) as NO ₂	CO (kg/yr)	SO ₂ (kg/yr)	NH ₃ (kg/yr)	Benzene (kg/yr)	Phenol (kg/yr)
	Genesee County	2,197	7,231,903	122,219	122,219	9,275	567,084	751	6,147	7,806	1,067
	Greene County	2,191	7,212,215	121,886	121,886	9,250	565,541	749	6,130	7,784	1,064
	Hamilton County	539	1,775,094	29,999	29,999	2,277	139,193	184	1,509	1,916	262
	Herkimer County	3,893	12,812,164	216,526	216,526	16,432	1,004,657	1,330	10,890	13,829	1,890
	Jefferson County	4,889	16,091,107	271,940	271,940	20,637	1,261,773	1,670	13,677	17,368	2,373
	Kings County	2,127	2,596,253	43,877	43,877	3,330	203,583	270	2,207	2,802	383
	Lewis County	3,456	11,374,631	192,231	192,231	14,588	891,934	1,181	9,668	12,277	1,678
	Livingston County	2,915	9,592,779	162,118	162,118	12,303	752,211	996	8,154	10,354	1,415
	Madison County	3,742	12,316,369	208,147	208,147	15,796	965,779	1,279	10,469	13,294	1,817
	Monroe County	15,431	50,785,242	858,271	858,271	65,134	3,982,288	5,272	43,167	54,815	7,491
	Montgomery County	2,413	7,942,880	134,235	134,235	10,187	622,835	825	6,751	8,573	1,172
	Nassau County	2,049	2,500,694	42,262	42,262	3,207	196,090	260	2,126	2,699	369
	New York County	1,843	2,249,532	38,017	38,017	2,885	176,395	234	1,912	2,428	332
	Niagara County	5,606	18,450,777	311,818	311,818	23,664	1,446,805	1,915	15,683	19,915	2,721
	Oneida County	8,849	29,124,278	492,200	492,200	37,353	2,283,759	3,023	24,756	31,435	4,296
	Onondaga County	9,754	32,103,597	542,551	542,551	41,174	2,517,381	3,333	27,288	34,651	4,735
	Ontario County	6,403	21,072,989	356,134	356,134	27,027	1,652,423	2,188	17,912	22,745	3,108
	Orange County	4,075	13,410,466	226,637	226,637	17,199	1,051,572	1,392	11,399	14,474	1,978
	Orleans County	1,808	5,949,204	100,542	100,542	7,630	466,503	618	5,057	6,421	877
	Oswego County	6,631	21,825,430	368,850	368,850	27,992	1,711,426	2,266	18,552	23,557	3,219
	Otsego County	3,901	12,840,201	216,999	216,999	16,468	1,006,855	1,333	10,914	13,859	1,894
	Putnam County	1,884	6,200,774	104,793	104,793	7,953	486,229	644	5,271	6,693	915
	Queens County	1,865	2,276,523	38,473	38,473	2,920	178,512	236	1,935	2,457	336
	Rensselaer County	6,620	21,786,245	368,188	368,188	27,942	1,708,353	2,262	18,518	23,515	3,213
	Richmond County	389	474,405	8,017	8,017	608	37,200	49	403	512	70
	Rockland County	1,501	4,938,633	83,463	83,463	6,334	387,259	513	4,198	5,330	728
	St. Lawrence County	6,430	21,161,837	357,635	357,635	27,141	1,659,390	2,197	17,988	22,841	3,121
	Saratoga County	8,779	28,893,116	488,294	488,294	37,057	2,265,633	2,999	24,559	31,185	4,262
	Schenectady County	3,605	11,866,274	200,540	200,540	15,219	930,485	1,232	10,086	12,808	1,750
	Schoharie County	2,657	8,744,942	147,790	147,790	11,216	685,728	908	7,433	9,439	1,290
	Schuyler County	1,275	4,197,848	70,944	70,944	5,384	329,171	436	3,568	4,531	619

State	County	Total conventional cordwood heaters	Total dry mass of cordwood burned by conventional cordwood heaters (kg/yr)	PM _{2.5} (kg/yr)	PM ₁₀ (kg/yr)	NO _x (kg/yr) as NO ₂	CO (kg/yr)	SO ₂ (kg/yr)	NH ₃ (kg/yr)	Benzene (kg/yr)	Phenol (kg/yr)
	Seneca County	1,147	3,775,039	63,798	63,798	4,842	296,017	392	3,209	4,075	557
	Steuben County	6,038	19,872,932	335,853	335,853	25,488	1,558,322	2,063	16,892	21,450	2,931
	Suffolk County	18,584	22,681,709	383,321	383,321	29,090	1,778,570	2,355	19,279	24,481	3,346
	Sullivan County	3,049	10,033,412	169,565	169,565	12,868	786,763	1,042	8,528	10,829	1,480
	Tioga County	3,559	11,714,334	197,972	197,972	15,024	918,571	1,216	9,957	12,644	1,728
	Tompkins County	4,520	14,875,117	251,389	251,389	19,078	1,166,422	1,544	12,644	16,055	2,194
	Ulster County	6,052	19,918,080	336,616	336,616	25,546	1,561,862	2,068	16,930	21,498	2,938
	Warren County	4,085	13,445,718	227,233	227,233	17,245	1,054,336	1,396	11,429	14,513	1,983
	Washington County	4,913	16,171,301	273,295	273,295	20,740	1,268,061	1,679	13,746	17,454	2,385
	Wayne County	4,416	14,532,498	245,599	245,599	18,639	1,139,555	1,509	12,353	15,686	2,144
	Westchester County	11,719	38,569,210	651,820	651,820	49,467	3,024,377	4,004	32,784	41,629	5,689
	Wyoming County	2,390	7,867,028	132,953	132,953	10,090	616,887	817	6,687	8,491	1,160
	Yates County	1,434	4,718,149	79,737	79,737	6,051	369,970	490	4,010	5,092	696
	Total New York	295,660	9.2E+08	1.5E+07	1.5E+07	1.2E+06	7.2E+07	9.5E+04	7.8E+05	9.9E+05	1.3E+05
Pennsylvania	Adams County	4,308	11,386,726	192,436	192,436	14,604	892,882	1,182	9,679	12,290	1,680
	Allegheny County	19,198	50,744,294	857,579	857,579	65,082	3,979,078	5,268	43,133	54,770	7,485
	Armstrong County	1,946	5,142,820	86,914	86,914	6,596	403,271	534	4,371	5,551	759
	Beaver County	4,315	11,404,110	192,729	192,729	14,626	894,245	1,184	9,693	12,309	1,682
	Bedford County	3,613	9,550,139	161,397	161,397	12,248	748,867	991	8,118	10,308	1,409
	Berks County	7,930	9,818,655	165,935	165,935	12,593	769,923	1,019	8,346	10,598	1,448
	Blair County	3,977	10,510,599	177,629	177,629	13,480	824,181	1,091	8,934	11,345	1,550
	Bradford County	4,092	13,663,471	230,913	230,913	17,524	1,071,411	1,418	11,614	14,748	2,015
	Bucks County	9,193	11,381,763	192,352	192,352	14,598	892,493	1,182	9,674	12,285	1,679
	Butler County	4,615	12,199,175	206,166	206,166	15,646	956,590	1,266	10,369	13,167	1,799
	Cambria County	3,350	8,855,751	149,662	149,662	11,358	694,417	919	7,527	9,558	1,306
	Cameron County	353	1,178,162	19,911	19,911	1,511	92,385	122	1,001	1,272	174
	Carbon County	1,577	4,167,504	70,431	70,431	5,345	326,792	433	3,542	4,498	615
	Centre County	5,162	17,233,654	291,249	291,249	22,103	1,351,365	1,789	14,649	18,601	2,542
	Chester County	7,289	9,024,680	152,517	152,517	11,575	707,664	937	7,671	9,741	1,331
	Clarion County	1,465	4,891,167	82,661	82,661	6,273	383,537	508	4,157	5,279	721
	Clearfield County	2,238	7,470,980	126,260	126,260	9,582	585,832	776	6,350	8,064	1,102

State	County	Total conventional cordwood heaters	Total dry mass of cordwood burned by conventional cordwood heaters (kg/yr)	PM _{2.5} (kg/yr)	PM ₁₀ (kg/yr)	NO _x (kg/yr) as NO ₂	CO (kg/yr)	SO ₂ (kg/yr)	NH ₃ (kg/yr)	Benzene (kg/yr)	Phenol (kg/yr)
	Clinton County	1,655	5,524,714	93,368	93,368	7,086	433,217	574	4,696	5,963	815
	Columbia County	2,458	6,495,689	109,777	109,777	8,331	509,355	674	5,521	7,011	958
	Crawford County	5,662	18,904,456	319,485	319,485	24,246	1,482,379	1,962	16,069	20,404	2,788
	Cumberland County	6,611	17,475,147	295,330	295,330	22,413	1,370,301	1,814	14,854	18,862	2,578
	Dauphin County	4,661	5,770,483	97,521	97,521	7,401	452,488	599	4,905	6,228	851
	Delaware County	6,250	7,738,528	130,781	130,781	9,925	606,811	803	6,578	8,353	1,141
	Elk County	1,348	4,501,750	76,080	76,080	5,774	353,002	467	3,826	4,859	664
	Erie County	7,672	25,613,972	432,876	432,876	32,851	2,008,501	2,659	21,772	27,646	3,778
	Fayette County	4,013	10,606,676	179,253	179,253	13,603	831,715	1,101	9,016	11,448	1,564
	Forest County	431	1,439,206	24,323	24,323	1,846	112,854	149	1,223	1,553	212
	Franklin County	6,131	16,205,221	273,868	273,868	20,784	1,270,721	1,682	13,774	17,491	2,390
	Fulton County	1,600	4,229,368	71,476	71,476	5,424	331,643	439	3,595	4,565	624
	Greene County	1,380	3,646,894	61,633	61,633	4,677	285,969	379	3,100	3,936	538
	Huntingdon County	3,101	8,196,686	138,524	138,524	10,513	642,737	851	6,967	8,847	1,209
	Indiana County	2,825	7,467,999	126,209	126,209	9,578	585,598	775	6,348	8,061	1,102
	Jefferson County	1,634	4,317,752	72,970	72,970	5,538	338,573	448	3,670	4,660	637
	Juniata County	1,945	5,142,272	86,904	86,904	6,595	403,228	534	4,371	5,550	758
	Lackawanna County	4,293	14,333,995	242,245	242,245	18,384	1,123,990	1,488	12,184	15,471	2,114
	Lancaster County	12,220	15,129,910	255,695	255,695	19,405	1,186,401	1,571	12,860	16,330	2,232
	Lawrence County	2,548	6,734,888	113,820	113,820	8,638	528,111	699	5,725	7,269	993
	Lebanon County	3,208	3,971,790	67,123	67,123	5,094	311,445	412	3,376	4,287	586
	Lehigh County	5,877	15,534,453	262,532	262,532	19,924	1,218,123	1,613	13,204	16,767	2,291
	Luzerne County	5,388	17,988,654	304,008	304,008	23,071	1,410,567	1,867	15,290	19,416	2,653
	Lycoming County	5,839	15,433,456	260,825	260,825	19,794	1,210,203	1,602	13,118	16,658	2,276
	McKean County	1,995	6,662,247	112,592	112,592	8,545	522,415	692	5,663	7,191	983
	Mercer County	4,423	14,767,197	249,566	249,566	18,940	1,157,959	1,533	12,552	15,939	2,178
	Mifflin County	3,286	8,685,116	146,778	146,778	11,139	681,037	902	7,382	9,374	1,281
	Monroe County	4,757	15,880,809	268,386	268,386	20,368	1,245,282	1,649	13,499	17,141	2,342
	Montgomery County	23,764	29,422,750	497,244	497,244	37,736	2,307,164	3,054	25,009	31,757	4,340
	Montour County	651	1,721,557	29,094	29,094	2,208	134,995	179	1,463	1,858	254
	Northampton County	4,891	12,927,712	218,478	218,478	16,580	1,013,717	1,342	10,989	13,953	1,907

State	County	Total conventional cordwood heaters	Total dry mass of cordwood burned by conventional cordwood heaters (kg/yr)	PM _{2.5} (kg/yr)	PM ₁₀ (kg/yr)	NO _x (kg/yr) as NO ₂	CO (kg/yr)	SO ₂ (kg/yr)	NH ₃ (kg/yr)	Benzene (kg/yr)	Phenol (kg/yr)
	Northumberland County	2,604	6,883,331	116,328	116,328	8,828	539,751	715	5,851	7,429	1,015
	Perry County	3,388	8,956,374	151,363	151,363	11,487	702,308	930	7,613	9,667	1,321
	Philadelphia County	6,740	8,344,358	141,020	141,020	10,702	654,317	866	7,093	9,006	1,231
	Pike County	3,023	10,094,234	170,593	170,593	12,946	791,532	1,048	8,580	10,895	1,489
	Potter County	1,437	4,799,154	81,106	81,106	6,155	376,322	498	4,079	5,180	708
	Schuylkill County	2,771	7,324,993	123,792	123,792	9,395	574,384	760	6,226	7,906	1,080
	Snyder County	1,965	5,193,268	87,766	87,766	6,661	407,226	539	4,414	5,605	766
	Somerset County	3,206	8,473,362	143,200	143,200	10,867	664,433	880	7,202	9,146	1,250
	Sullivan County	546	1,824,444	30,833	30,833	2,340	143,062	189	1,551	1,969	269
	Susquehanna County	3,136	10,469,146	176,929	176,929	13,427	820,931	1,087	8,899	11,300	1,544
	Tioga County	3,047	10,171,981	171,906	171,906	13,046	797,629	1,056	8,646	10,979	1,500
	Union County	1,569	4,146,423	70,075	70,075	5,318	325,139	430	3,524	4,475	612
	Venango County	2,952	9,854,777	166,546	166,546	12,639	772,755	1,023	8,377	10,637	1,454
	Warren County	2,970	9,914,688	167,558	167,558	12,716	777,453	1,029	8,427	10,701	1,462
	Washington County	5,423	14,334,076	242,246	242,246	18,384	1,123,996	1,488	12,184	15,471	2,114
	Wayne County	2,765	9,232,116	156,023	156,023	11,841	723,930	958	7,847	9,965	1,362
	Westmoreland County	15,024	39,712,143	671,135	671,135	50,932	3,113,999	4,122	33,755	42,863	5,857
	Wyoming County	1,810	6,041,505	102,101	102,101	7,748	473,740	627	5,135	6,521	891
	York County	11,757	31,075,499	525,176	525,176	39,856	2,436,763	3,226	26,414	33,541	4,584
	Total Pennsylvania	303,270	7.4E+08	1.2E+07	1.2E+07	9.5E+05	5.8E+07	7.7E+04	6.3E+05	8.0E+05	1.1E+05
Rhode Island	Bristol County	1,373	3,720,095	62,870	62,870	4,771	291,709	386	3,162	4,015	549
	Kent County	4,535	12,288,494	207,676	207,676	15,760	963,594	1,276	10,445	13,263	1,813
	Newport County	2,364	6,405,669	108,256	108,256	8,216	502,296	665	5,445	6,914	945
	Providence County	10,242	27,752,633	469,020	469,020	35,594	2,176,203	2,881	23,590	29,955	4,093
	Washington County	4,195	11,366,488	192,094	192,094	14,578	891,295	1,180	9,662	12,268	1,677
	Total Rhode Island	22,710	61,533,380	1,039,914	1,039,914	78,919	4,825,096	6,388	52,303	66,415	9,076
District of Columbia	District of Columbia	1,997	2,301,331	38,892	38,892	2,952	180,457	239	1,956	2,484	339
	Total D.C.	1,997	2,301,331	38,892	38,892	2,952	180,457	239	1,956	2,484	339
Vermont	Addison County	3,279	10,495,072	177,367	177,367	13,460	822,964	1,089	8,921	11,328	1,548
	Bennington County	2,506	8,020,303	135,543	135,543	10,286	628,906	833	6,817	8,657	1,183
	Caledonia County	3,138	10,044,425	169,751	169,751	12,882	787,626	1,043	8,538	10,841	1,482

State	County	Total conventional cordwood heaters	Total dry mass of cordwood burned by conventional cordwood heaters (kg/yr)	PM _{2.5} (kg/yr)	PM ₁₀ (kg/yr)	NO _x (kg/yr) as NO ₂	CO (kg/yr)	SO ₂ (kg/yr)	NH ₃ (kg/yr)	Benzene (kg/yr)	Phenol (kg/yr)
	Chittenden County	6,999	22,399,728	378,555	378,555	28,729	1,756,459	2,325	19,040	24,177	3,304
	Essex County	706	2,258,769	38,173	38,173	2,897	177,120	234	1,920	2,438	333
	Franklin County	3,117	9,977,596	168,621	168,621	12,797	782,386	1,036	8,481	10,769	1,472
	Grand Isle County	817	2,614,811	44,190	44,190	3,354	205,039	271	2,223	2,822	386
	Lamoille County	2,298	7,353,473	124,274	124,274	9,431	576,617	763	6,250	7,937	1,085
	Orange County	3,338	10,684,606	180,570	180,570	13,703	837,826	1,109	9,082	11,532	1,576
	Orleans County	3,467	11,097,243	187,543	187,543	14,233	870,182	1,152	9,433	11,978	1,637
	Rutland County	4,726	15,126,447	255,637	255,637	19,400	1,186,130	1,570	12,857	16,327	2,231
	Washington County	5,098	16,314,995	275,723	275,723	20,925	1,279,329	1,694	13,868	17,609	2,406
	Windham County	5,091	16,292,514	275,343	275,343	20,896	1,277,566	1,691	13,849	17,585	2,403
	Windsor County	5,296	16,948,627	286,432	286,432	21,737	1,329,015	1,759	14,406	18,293	2,500
	Total Vermont	49,875	159,628,609	2,697,723	2,697,723	204,730	12,517,163	16,571	135,684	172,294	23,545
	Total MANE-VU	1,242,908	3.2E+09	5.3E+07	5.3E+07	4.0E+06	2.5E+08	3.3E+05	2.7E+06	3.4E+06	4.7E+05

HDD Range	HDD	Total conventional cordwood heaters	Total dry mass of cordwood burned by conventional cordwood heaters (kg/yr)	PM _{2.5} (kg/yr)	PM ₁₀ (kg/yr)	NO _x (kg/yr) as NO ₂	CO (kg/yr)	SO ₂ (kg/yr)	NH ₃ (kg/yr)	Benzene (kg/yr)	Phenol (kg/yr)
> 6500	High	599,058	1,927,439,568	3.26E+07	3.26E+07	2.47E+06	1.51E+08	2.00E+05	1.64E+06	2.08E+06	2.84E+05
5500-6499	Med.	326,363	854,244,385	1.44E+07	1.44E+07	1.10E+06	6.70E+07	8.87E+04	7.26E+05	9.22E+05	1.26E+05
< 5499	Low	317,487	374,104,918	6.32E+06	6.32E+06	4.80E+05	2.93E+07	3.88E+04	3.18E+05	4.04E+05	5.52E+04

Section 3.1.1

Table 3.1.1

Emission Inventory for Uncertified Conventional Cordwood Heaters (2002 Base Year)

Section 2

State	County	Total conventional cordwood heaters	Total dry mass of cordwood burned by conventional cordwood heaters (kg/yr)	7-PAH (kg/yr)	16-PAH (kg/yr)	Benzo(a)pyrene (g/yr)	Naphthalene (kg/yr)	1,3-Butadiene (kg/yr)	Formaldehyde (kg/yr)	Acetaldehyde (kg/yr)	Acrolein (kg/yr)
Connecticut	Fairfield County	11,042	29,891,394	658	9,416	25,109	2,718	5,876	21,740	9,213	1,361
	Hartford County	19,148	51,834,820	1,140	16,328	43,541	4,713	10,190	37,699	15,977	2,361
	Litchfield County	5,824	19,913,723	438	6,273	16,728	1,811	3,915	14,483	6,138	907
	Middlesex County	4,386	11,872,150	261	3,740	9,973	1,080	2,334	8,634	3,659	541
	New Haven County	13,342	36,117,575	795	11,377	30,339	3,284	7,100	26,268	11,133	1,645
	New London County	6,247	16,911,623	372	5,327	14,206	1,538	3,324	12,300	5,213	770
	Tolland County	4,829	16,510,586	363	5,201	13,869	1,501	3,246	12,008	5,089	752
	Windham County	4,927	16,848,570	371	5,307	14,153	1,532	3,312	12,254	5,193	767
	Total Connecticut		69,746	199,900,440	4,398	62,969	167,916	18,177	39,296	145,386	61,615
Delaware	Kent County	3,754	4,305,186	95	1,356	3,616	391	846	3,131	1,327	196
	New Castle County	7,524	8,627,327	190	2,718	7,247	785	1,696	6,275	2,659	393
	Sussex County	4,877	5,592,105	123	1,762	4,697	509	1,099	4,067	1,724	255
Total Delaware		16,155	18,524,618	408	5,835	15,561	1,684	3,642	13,473	5,710	844
Maine	Androscoggin County	6,008	17,122,993	377	5,394	14,383	1,557	3,366	12,453	5,278	780
	Aroostook County	5,092	14,512,421	319	4,571	12,190	1,320	2,853	10,555	4,473	661
	Cumberland County	9,625	27,430,487	603	8,641	23,042	2,494	5,392	19,950	8,455	1,249
	Franklin County	2,687	7,657,389	168	2,412	6,432	696	1,505	5,569	2,360	349
	Hancock County	4,481	12,771,002	281	4,023	10,728	1,161	2,511	9,288	3,936	582
	Kennebec County	7,182	20,467,833	450	6,447	17,193	1,861	4,024	14,886	6,309	932
	Knox County	3,253	9,272,064	204	2,921	7,789	843	1,823	6,743	2,858	422
	Lincoln County	2,836	8,081,597	178	2,546	6,789	735	1,589	5,878	2,491	368
	Oxford County	4,580	13,053,975	287	4,112	10,965	1,187	2,566	9,494	4,024	594
	Penobscot County	8,200	23,370,443	514	7,362	19,631	2,125	4,594	16,997	7,203	1,064
	Piscataquis County	1,589	4,528,846	100	1,427	3,804	412	890	3,294	1,396	206
	Sagadahoc County	2,695	7,679,750	169	2,419	6,451	698	1,510	5,585	2,367	350
	Somerset County	4,080	11,627,870	256	3,663	9,767	1,057	2,286	8,457	3,584	530
Waldo County	3,763	10,724,309	236	3,378	9,008	975	2,108	7,800	3,306	488	
Washington County	2,346	6,685,441	147	2,106	5,616	608	1,314	4,862	2,061	304	

State	County	Total conventional cordwood heaters	Total dry mass of cordwood burned by conventional cordwood heaters (kg/yr)	7-PAH (kg/yr)	16-PAH (kg/yr)	Benzo(a)pyrene (g/yr)	Naphthalene (kg/yr)	1,3-Butadiene (kg/yr)	Formaldehyde (kg/yr)	Acetaldehyde (kg/yr)	Acrolein (kg/yr)
	York County	7,792	22,205,726	489	6,995	18,653	2,019	4,365	16,150	6,844	1,011
	Total Maine	76,210	217,192,145	4,778	68,416	182,441	19,750	42,696	157,962	66,945	9,891
Maryland	Allegany County	4,242	10,438,816	230	3,288	8,769	949	2,052	7,592	3,218	475
	Anne Arundel County	19,599	22,589,697	497	7,116	18,975	2,054	4,441	16,429	6,963	1,029
	Baltimore County	20,085	23,149,420	509	7,292	19,446	2,105	4,551	16,836	7,135	1,054
	Calvert County	2,988	3,444,240	76	1,085	2,893	313	677	2,505	1,062	157
	Caroline County	1,230	1,417,246	31	446	1,190	129	279	1,031	437	65
	Carroll County	5,299	6,107,352	134	1,924	5,130	555	1,201	4,442	1,882	278
	Cecil County	2,902	3,344,668	74	1,054	2,810	304	657	2,433	1,031	152
	Charles County	3,337	3,846,726	85	1,212	3,231	350	756	2,798	1,186	175
	Dorchester County	791	912,255	20	287	766	83	179	663	281	42
	Frederick County	6,600	7,606,985	167	2,396	6,390	692	1,495	5,532	2,345	346
	Garrett County	2,518	7,826,688	172	2,465	6,574	712	1,539	5,692	2,412	356
	Harford County	5,776	6,657,157	146	2,097	5,592	605	1,309	4,842	2,052	303
	Howard County	4,546	5,239,529	115	1,650	4,401	476	1,030	3,811	1,615	239
	Kent County	668	769,562	17	242	646	70	151	560	237	35
	Montgomery County	14,708	16,952,482	373	5,340	14,240	1,542	3,333	12,329	5,225	772
	Prince George's County	24,093	27,769,457	611	8,747	23,326	2,525	5,459	20,196	8,559	1,265
	Queen Anne's County	1,555	1,792,389	39	565	1,506	163	352	1,304	552	82
	St. Mary's County	8,115	9,353,360	206	2,946	7,857	851	1,839	6,803	2,883	426
	Somerset County	799	921,373	20	290	774	84	181	670	284	42
	Talbot County	1,132	1,304,699	29	411	1,096	119	256	949	402	59
	Washington County	5,540	13,630,895	300	4,294	11,450	1,239	2,680	9,914	4,201	621
	Wicomico County	2,571	2,963,437	65	933	2,489	269	583	2,155	913	135
	Worcester County	1,598	1,841,484	41	580	1,547	167	362	1,339	568	84
	Baltimore city	978	1,127,188	25	355	947	102	222	820	347	51
	Total Maryland	141,670	181,007,105	3,982	57,017	152,046	16,459	35,582	131,645	55,792	8,243
Massachusetts	Barnstable County	6,360	16,444,262	362	5,180	13,813	1,495	3,233	11,960	5,069	749
	Berkshire County	6,017	19,651,425	432	6,190	16,507	1,787	3,863	14,292	6,057	895
	Bristol County	8,871	22,934,184	505	7,224	19,265	2,085	4,508	16,680	7,069	1,044
	Dukes County	784	2,027,651	45	639	1,703	184	399	1,475	625	92

State	County	Total conventional cordwood heaters	Total dry mass of cordwood burned by conventional cordwood heaters (kg/yr)	7-PAH (kg/yr)	16-PAH (kg/yr)	Benzo(a)pyrene (g/yr)	Naphthalene (kg/yr)	1,3-Butadiene (kg/yr)	Formaldehyde (kg/yr)	Acetaldehyde (kg/yr)	Acrolein (kg/yr)
	Essex County	12,605	32,588,482	717	10,265	27,374	2,963	6,406	23,701	10,045	1,484
	Franklin County	4,827	15,763,762	347	4,966	13,242	1,433	3,099	11,465	4,859	718
	Hampden County	10,009	32,686,097	719	10,296	27,456	2,972	6,425	23,772	10,075	1,489
	Hampshire County	6,822	22,279,746	490	7,018	18,715	2,026	4,380	16,204	6,867	1,015
	Middlesex County	17,675	57,724,555	1,270	18,183	48,489	5,249	11,347	41,982	17,792	2,629
	Nantucket County	407	1,053,265	23	332	885	96	207	766	325	48
	Norfolk County	9,517	24,606,754	541	7,751	20,670	2,238	4,837	17,896	7,585	1,121
	Plymouth County	7,470	19,312,287	425	6,083	16,222	1,756	3,796	14,046	5,953	879
	Suffolk County	561	1,450,789	32	457	1,219	132	285	1,055	447	66
	Worcester County	18,409	60,120,530	1,323	18,938	50,501	5,467	11,818	43,725	18,531	2,738
	Total Massachusetts	110,335	328,643,787	7,230	103,523	276,061	29,884	64,605	239,019	101,298	14,966
New Hampshire	Belknap County	2,645	8,215,118	181	2,588	6,901	747	1,615	5,975	2,532	374
	Carroll County	3,113	9,668,957	213	3,046	8,122	879	1,901	7,032	2,980	440
	Cheshire County	4,833	15,012,202	330	4,729	12,610	1,365	2,951	10,918	4,627	684
	Coos County	1,867	5,799,894	128	1,827	4,872	527	1,140	4,218	1,788	264
	Grafton County	5,536	17,195,314	378	5,417	14,444	1,564	3,380	12,506	5,300	783
	Hillsborough County	11,665	36,232,658	797	11,413	30,435	3,295	7,123	26,352	11,168	1,650
	Merrimack County	5,758	17,885,086	393	5,634	15,023	1,626	3,516	13,008	5,513	814
	Rockingham County	8,515	26,449,915	582	8,332	22,218	2,405	5,200	19,237	8,153	1,205
	Strafford County	4,040	12,550,209	276	3,953	10,542	1,141	2,467	9,128	3,868	572
	Sullivan County	2,845	8,835,524	194	2,783	7,422	803	1,737	6,426	2,723	402
	Total New Hampshire	50,817	157,844,876	3,473	49,721	132,590	14,353	31,029	114,799	48,653	7,188
New Jersey	Atlantic County	4,286	4,899,225	108	1,543	4,115	445	963	3,563	1,510	223
	Bergen County	12,695	30,976,913	681	9,758	26,021	2,817	6,089	22,529	9,548	1,411
	Burlington County	6,123	6,998,677	154	2,205	5,879	636	1,376	5,090	2,157	319
	Camden County	10,355	11,836,158	260	3,728	9,942	1,076	2,327	8,608	3,648	539
	Cape May County	2,726	3,115,556	69	981	2,617	283	612	2,266	960	142
	Cumberland County	2,600	2,971,550	65	936	2,496	270	584	2,161	916	135
	Essex County	4,543	11,084,802	244	3,492	9,311	1,008	2,179	8,062	3,417	505
	Gloucester County	3,531	4,035,525	89	1,271	3,390	367	793	2,935	1,244	184
	Hudson County	554	1,351,096	30	426	1,135	123	266	983	416	62

State	County	Total conventional cordwood heaters	Total dry mass of cordwood burned by conventional cordwood heaters (kg/yr)	7-PAH (kg/yr)	16-PAH (kg/yr)	Benzo(a)pyrene (g/yr)	Naphthalene (kg/yr)	1,3-Butadiene (kg/yr)	Formaldehyde (kg/yr)	Acetaldehyde (kg/yr)	Acrolein (kg/yr)
	Hunterdon County	2,302	5,617,194	124	1,769	4,718	511	1,104	4,085	1,731	256
	Mercer County	4,386	5,013,585	110	1,579	4,211	456	986	3,646	1,545	228
	Middlesex County	8,685	9,926,591	218	3,127	8,338	903	1,951	7,220	3,060	452
	Monmouth County	7,996	9,139,854	201	2,879	7,677	831	1,797	6,647	2,817	416
	Morris County	4,851	11,836,510	260	3,729	9,943	1,076	2,327	8,609	3,648	539
	Ocean County	8,405	9,606,451	211	3,026	8,069	874	1,888	6,987	2,961	437
	Passaic County	4,863	11,867,234	261	3,738	9,968	1,079	2,333	8,631	3,658	540
	Salem County	1,638	1,871,745	41	590	1,572	170	368	1,361	577	85
	Somerset County	2,921	7,127,152	157	2,245	5,987	648	1,401	5,184	2,197	325
	Sussex County	3,375	8,234,141	181	2,594	6,917	749	1,619	5,989	2,538	375
	Union County	4,967	12,120,435	267	3,818	10,181	1,102	2,383	8,815	3,736	552
	Warren County	2,663	6,499,107	143	2,047	5,459	591	1,278	4,727	2,003	296
	Total New Jersey	104,464	176,129,503	3,875	55,481	147,949	16,016	34,624	128,097	54,288	8,021
New York	Albany County	5,969	19,646,092	432	6,189	16,503	1,786	3,862	14,288	6,056	895
	Allegany County	3,571	11,753,754	259	3,702	9,873	1,069	2,311	8,548	3,623	535
	Bronx County	1,124	1,371,312	30	432	1,152	125	270	997	423	62
	Broome County	6,946	22,861,782	503	7,201	19,204	2,079	4,494	16,627	7,047	1,041
	Cattaraugus County	5,671	18,664,587	411	5,879	15,678	1,697	3,669	13,575	5,753	850
	Cayuga County	4,303	14,161,786	312	4,461	11,896	1,288	2,784	10,300	4,365	645
	Chautauqua County	7,502	24,691,182	543	7,778	20,741	2,245	4,854	17,958	7,611	1,124
	Chemung County	4,069	13,393,134	295	4,219	11,250	1,218	2,633	9,741	4,128	610
	Chenango County	3,511	11,555,997	254	3,640	9,707	1,051	2,272	8,405	3,562	526
	Clinton County	3,267	10,753,164	237	3,387	9,033	978	2,114	7,821	3,314	490
	Columbia County	2,538	8,352,413	184	2,631	7,016	760	1,642	6,075	2,574	380
	Cortland County	2,567	8,447,471	186	2,661	7,096	768	1,661	6,144	2,604	385
	Delaware County	3,746	12,328,312	271	3,883	10,356	1,121	2,423	8,966	3,800	561
	Dutchess County	5,356	17,627,780	388	5,553	14,807	1,603	3,465	12,821	5,433	803
	Erie County	25,978	85,498,845	1,881	26,932	71,819	7,775	16,807	62,182	26,353	3,894
	Essex County	2,154	7,089,659	156	2,233	5,955	645	1,394	5,156	2,185	323
	Franklin County	2,995	9,857,493	217	3,105	8,280	896	1,938	7,169	3,038	449
	Fulton County	2,769	9,114,515	201	2,871	7,656	829	1,792	6,629	2,809	415

State	County	Total conventional cordwood heaters	Total dry mass of cordwood burned by conventional cordwood heaters (kg/yr)	7-PAH (kg/yr)	16-PAH (kg/yr)	Benzo(a)pyrene (g/yr)	Naphthalene (kg/yr)	1,3-Butadiene (kg/yr)	Formaldehyde (kg/yr)	Acetaldehyde (kg/yr)	Acrolein (kg/yr)
	Genesee County	2,197	7,231,903	159	2,278	6,075	658	1,422	5,260	2,229	329
	Greene County	2,191	7,212,215	159	2,272	6,058	656	1,418	5,245	2,223	328
	Hamilton County	539	1,775,094	39	559	1,491	161	349	1,291	547	81
	Herkimer County	3,893	12,812,164	282	4,036	10,762	1,165	2,519	9,318	3,949	583
	Jefferson County	4,889	16,091,107	354	5,069	13,517	1,463	3,163	11,703	4,960	733
	Kings County	2,127	2,596,253	57	818	2,181	236	510	1,888	800	118
	Lewis County	3,456	11,374,631	250	3,583	9,555	1,034	2,236	8,273	3,506	518
	Livingston County	2,915	9,592,779	211	3,022	8,058	872	1,886	6,977	2,957	437
	Madison County	3,742	12,316,369	271	3,880	10,346	1,120	2,421	8,958	3,796	561
	Monroe County	15,431	50,785,242	1,117	15,997	42,660	4,618	9,983	36,936	15,654	2,313
	Montgomery County	2,413	7,942,880	175	2,502	6,672	722	1,561	5,777	2,448	362
	Nassau County	2,049	2,500,694	55	788	2,101	227	492	1,819	771	114
	New York County	1,843	2,249,532	49	709	1,890	205	442	1,636	693	102
	Niagara County	5,606	18,450,777	406	5,812	15,499	1,678	3,627	13,419	5,687	840
	Oneida County	8,849	29,124,278	641	9,174	24,464	2,648	5,725	21,182	8,977	1,326
	Onondaga County	9,754	32,103,597	706	10,113	26,967	2,919	6,311	23,349	9,895	1,462
	Ontario County	6,403	21,072,989	464	6,638	17,701	1,916	4,143	15,326	6,495	960
	Orange County	4,075	13,410,466	295	4,224	11,265	1,219	2,636	9,753	4,134	611
	Orleans County	1,808	5,949,204	131	1,874	4,997	541	1,169	4,327	1,834	271
	Oswego County	6,631	21,825,430	480	6,875	18,333	1,985	4,290	15,873	6,727	994
	Otsego County	3,901	12,840,201	282	4,045	10,786	1,168	2,524	9,339	3,958	585
	Putnam County	1,884	6,200,774	136	1,953	5,209	564	1,219	4,510	1,911	282
	Queens County	1,865	2,276,523	50	717	1,912	207	448	1,656	702	104
	Rensselaer County	6,620	21,786,245	479	6,863	18,300	1,981	4,283	15,845	6,715	992
	Richmond County	389	474,405	10	149	399	43	93	345	146	22
	Rockland County	1,501	4,938,633	109	1,556	4,148	449	971	3,592	1,522	225
	St. Lawrence County	6,430	21,161,837	466	6,666	17,776	1,924	4,160	15,391	6,523	964
	Saratoga County	8,779	28,893,116	636	9,101	24,270	2,627	5,680	21,014	8,906	1,316
	Schenectady County	3,605	11,866,274	261	3,738	9,968	1,079	2,333	8,630	3,658	540
	Schoharie County	2,657	8,744,942	192	2,755	7,346	795	1,719	6,360	2,695	398
	Schuyler County	1,275	4,197,848	92	1,322	3,526	382	825	3,053	1,294	191

State	County	Total conventional cordwood heaters	Total dry mass of cordwood burned by conventional cordwood heaters (kg/yr)	7-PAH (kg/yr)	16-PAH (kg/yr)	Benzo(a)pyrene (g/yr)	Naphthalene (kg/yr)	1,3-Butadiene (kg/yr)	Formaldehyde (kg/yr)	Acetaldehyde (kg/yr)	Acrolein (kg/yr)
	Seneca County	1,147	3,775,039	83	1,189	3,171	343	742	2,746	1,164	172
	Steuben County	6,038	19,872,932	437	6,260	16,693	1,807	3,907	14,453	6,125	905
	Suffolk County	18,584	22,681,709	499	7,145	19,053	2,063	4,459	16,496	6,991	1,033
	Sullivan County	3,049	10,033,412	221	3,161	8,428	912	1,972	7,297	3,093	457
	Tioga County	3,559	11,714,334	258	3,690	9,840	1,065	2,303	8,520	3,611	533
	Tompkins County	4,520	14,875,117	327	4,686	12,495	1,353	2,924	10,819	4,585	677
	Ulster County	6,052	19,918,080	438	6,274	16,731	1,811	3,915	14,486	6,139	907
	Warren County	4,085	13,445,718	296	4,235	11,294	1,223	2,643	9,779	4,144	612
	Washington County	4,913	16,171,301	356	5,094	13,584	1,470	3,179	11,761	4,984	736
	Wayne County	4,416	14,532,498	320	4,578	12,207	1,321	2,857	10,569	4,479	662
	Westchester County	11,719	38,569,210	849	12,149	32,398	3,507	7,582	28,051	11,888	1,756
	Wyoming County	2,390	7,867,028	173	2,478	6,608	715	1,547	5,722	2,425	358
	Yates County	1,434	4,718,149	104	1,486	3,963	429	927	3,431	1,454	215
	Total New York	295,660	9.2E+08	2.0E+04	2.9E+05	7.7E+05	8.3E+04	1.8E+05	6.7E+05	2.8E+05	4.2E+04
Pennsylvania	Adams County	4,308	11,386,726	251	3,587	9,565	1,035	2,238	8,281	3,510	519
	Allegheny County	19,198	50,744,294	1,116	15,984	42,625	4,614	9,975	36,906	15,641	2,311
	Armstrong County	1,946	5,142,820	113	1,620	4,320	468	1,011	3,740	1,585	234
	Beaver County	4,315	11,404,110	251	3,592	9,579	1,037	2,242	8,294	3,515	519
	Bedford County	3,613	9,550,139	210	3,008	8,022	868	1,877	6,946	2,944	435
	Berks County	7,930	9,818,655	216	3,093	8,248	893	1,930	7,141	3,026	447
	Blair County	3,977	10,510,599	231	3,311	8,829	956	2,066	7,644	3,240	479
	Bradford County	4,092	13,663,471	301	4,304	11,477	1,242	2,686	9,937	4,211	622
	Bucks County	9,193	11,381,763	250	3,585	9,561	1,035	2,237	8,278	3,508	518
	Butler County	4,615	12,199,175	268	3,843	10,247	1,109	2,398	8,872	3,760	556
	Cambria County	3,350	8,855,751	195	2,790	7,439	805	1,741	6,441	2,730	403
	Cameron County	353	1,178,162	26	371	990	107	232	857	363	54
	Carbon County	1,577	4,167,504	92	1,313	3,501	379	819	3,031	1,285	190
	Centre County	5,162	17,233,654	379	5,429	14,476	1,567	3,388	12,534	5,312	785
	Chester County	7,289	9,024,680	199	2,843	7,581	821	1,774	6,564	2,782	411
	Clarion County	1,465	4,891,167	108	1,541	4,109	445	962	3,557	1,508	223
	Clearfield County	2,238	7,470,980	164	2,353	6,276	679	1,469	5,434	2,303	340

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	Clinton County	1,655	5,524,714	122	1,740	4,641	502	1,086	4,018	1,703	252
	Columbia County	2,458	6,495,689	143	2,046	5,456	591	1,277	4,724	2,002	296
	Crawford County	5,662	18,904,456	416	5,955	15,880	1,719	3,716	13,749	5,827	861
	Cumberland County	6,611	17,475,147	384	5,505	14,679	1,589	3,435	12,709	5,386	796
	Dauphin County	4,661	5,770,483	127	1,818	4,847	525	1,134	4,197	1,779	263
	Delaware County	6,250	7,738,528	170	2,438	6,500	704	1,521	5,628	2,385	352
	Elk County	1,348	4,501,750	99	1,418	3,781	409	885	3,274	1,388	205
	Erie County	7,672	25,613,972	564	8,068	21,516	2,329	5,035	18,629	7,895	1,166
	Fayette County	4,013	10,606,676	233	3,341	8,910	964	2,085	7,714	3,269	483
	Forest County	431	1,439,206	32	453	1,209	131	283	1,047	444	66
	Franklin County	6,131	16,205,221	357	5,105	13,612	1,474	3,186	11,786	4,995	738
	Fulton County	1,600	4,229,368	93	1,332	3,553	385	831	3,076	1,304	193
	Greene County	1,380	3,646,894	80	1,149	3,063	332	717	2,652	1,124	166
	Huntingdon County	3,101	8,196,686	180	2,582	6,885	745	1,611	5,961	2,526	373
	Indiana County	2,825	7,467,999	164	2,352	6,273	679	1,468	5,431	2,302	340
	Jefferson County	1,634	4,317,752	95	1,360	3,627	393	849	3,140	1,331	197
	Juniata County	1,945	5,142,272	113	1,620	4,320	468	1,011	3,740	1,585	234
	Lackawanna County	4,293	14,333,995	315	4,515	12,041	1,303	2,818	10,425	4,418	653
	Lancaster County	12,220	15,129,910	333	4,766	12,709	1,376	2,974	11,004	4,663	689
	Lawrence County	2,548	6,734,888	148	2,121	5,657	612	1,324	4,898	2,076	307
	Lebanon County	3,208	3,971,790	87	1,251	3,336	361	781	2,889	1,224	181
	Lehigh County	5,877	15,534,453	342	4,893	13,049	1,413	3,054	11,298	4,788	707
	Luzerne County	5,388	17,988,654	396	5,666	15,110	1,636	3,536	13,083	5,545	819
	Lycoming County	5,839	15,433,456	340	4,862	12,964	1,403	3,034	11,225	4,757	703
	McKean County	1,995	6,662,247	147	2,099	5,596	606	1,310	4,845	2,054	303
	Mercer County	4,423	14,767,197	325	4,652	12,404	1,343	2,903	10,740	4,552	672
	Mifflin County	3,286	8,685,116	191	2,736	7,295	790	1,707	6,317	2,677	396
	Monroe County	4,757	15,880,809	349	5,002	13,340	1,444	3,122	11,550	4,895	723
	Montgomery County	23,764	29,422,750	647	9,268	24,715	2,675	5,784	21,399	9,069	1,340
	Montour County	651	1,721,557	38	542	1,446	157	338	1,252	531	78
	Northampton County	4,891	12,927,712	284	4,072	10,859	1,176	2,541	9,402	3,985	589

State	County	Total conventional cordwood heaters	Total dry mass of cordwood burned by conventional cordwood heaters (kg/yr)	7-PAH (kg/yr)	16-PAH (kg/yr)	Benzo(a)pyrene (g/yr)	Naphthalene (kg/yr)	1,3-Butadiene (kg/yr)	Formaldehyde (kg/yr)	Acetaldehyde (kg/yr)	Acrolein (kg/yr)
	Northumberland County	2,604	6,883,331	151	2,168	5,782	626	1,353	5,006	2,122	313
	Perry County	3,388	8,956,374	197	2,821	7,523	814	1,761	6,514	2,761	408
	Philadelphia County	6,740	8,344,358	184	2,628	7,009	759	1,640	6,069	2,572	380
	Pike County	3,023	10,094,234	222	3,180	8,479	918	1,984	7,341	3,111	460
	Potter County	1,437	4,799,154	106	1,512	4,031	436	943	3,490	1,479	219
	Schuylkill County	2,771	7,324,993	161	2,307	6,153	666	1,440	5,327	2,258	334
	Snyder County	1,965	5,193,268	114	1,636	4,362	472	1,021	3,777	1,601	237
	Somerset County	3,206	8,473,362	186	2,669	7,118	771	1,666	6,163	2,612	386
	Sullivan County	546	1,824,444	40	575	1,533	166	359	1,327	562	83
	Susquehanna County	3,136	10,469,146	230	3,298	8,794	952	2,058	7,614	3,227	477
	Tioga County	3,047	10,171,981	224	3,204	8,544	925	2,000	7,398	3,135	463
	Union County	1,569	4,146,423	91	1,306	3,483	377	815	3,016	1,278	189
	Venango County	2,952	9,854,777	217	3,104	8,278	896	1,937	7,167	3,038	449
	Warren County	2,970	9,914,688	218	3,123	8,328	902	1,949	7,211	3,056	452
	Washington County	5,423	14,334,076	315	4,515	12,041	1,303	2,818	10,425	4,418	653
	Wayne County	2,765	9,232,116	203	2,908	7,755	839	1,815	6,714	2,846	420
	Westmoreland County	15,024	39,712,143	874	12,509	33,358	3,611	7,807	28,882	12,240	1,808
	Wyoming County	1,810	6,041,505	133	1,903	5,075	549	1,188	4,394	1,862	275
	York County	11,757	31,075,499	684	9,789	26,103	2,826	6,109	22,601	9,578	1,415
	Total Pennsylvania	303,270	7.4E+08	1.6E+04	2.3E+05	6.2E+05	6.7E+04	1.5E+05	5.4E+05	2.3E+05	3.4E+04
Rhode Island	Bristol County	1,373	3,720,095	82	1,172	3,125	338	731	2,706	1,147	169
	Kent County	4,535	12,288,494	270	3,871	10,322	1,117	2,416	8,937	3,788	560
	Newport County	2,364	6,405,669	141	2,018	5,381	582	1,259	4,659	1,974	292
	Providence County	10,242	27,752,633	611	8,742	23,312	2,524	5,456	20,184	8,554	1,264
	Washington County	4,195	11,366,488	250	3,580	9,548	1,034	2,234	8,267	3,503	518
	Total Rhode Island	22,710	61,533,380	1,354	19,383	51,688	5,595	12,096	44,753	18,966	2,802
District of Columbia	District of Columbia	1,997	2,301,331	51	725	1,933	209	452	1,674	709	105
	Total D.C.	1,997	2,301,331	51	725	1,933	209	452	1,674	709	105
Vermont	Addison County	3,279	10,495,072	231	3,306	8,816	954	2,063	7,633	3,235	478
	Bennington County	2,506	8,020,303	176	2,526	6,737	729	1,577	5,833	2,472	365
	Caledonia County	3,138	10,044,425	221	3,164	8,437	913	1,975	7,305	3,096	457

State	County	Total conventional cordwood heaters	Total dry mass of cordwood burned by conventional cordwood heaters (kg/yr)	7-PAH (kg/yr)	16-PAH (kg/yr)	Benzo(a)pyrene (g/yr)	Naphthalene (kg/yr)	1,3-Butadiene (kg/yr)	Formaldehyde (kg/yr)	Acetaldehyde (kg/yr)	Acrolein (kg/yr)
	Chittenden County	6,999	22,399,728	493	7,056	18,816	2,037	4,403	16,291	6,904	1,020
	Essex County	706	2,258,769	50	712	1,897	205	444	1,643	696	103
	Franklin County	3,117	9,977,596	220	3,143	8,381	907	1,961	7,257	3,075	454
	Grand Isle County	817	2,614,811	58	824	2,196	238	514	1,902	806	119
	Lamoille County	2,298	7,353,473	162	2,316	6,177	669	1,446	5,348	2,267	335
	Orange County	3,338	10,684,606	235	3,366	8,975	972	2,100	7,771	3,293	487
	Orleans County	3,467	11,097,243	244	3,496	9,322	1,009	2,181	8,071	3,421	505
	Rutland County	4,726	15,126,447	333	4,765	12,706	1,375	2,974	11,001	4,662	689
	Washington County	5,098	16,314,995	359	5,139	13,705	1,484	3,207	11,866	5,029	743
	Windham County	5,091	16,292,514	358	5,132	13,686	1,482	3,203	11,849	5,022	742
	Windsor County	5,296	16,948,627	373	5,339	14,237	1,541	3,332	12,327	5,224	772
	Total Vermont	49,875	159,628,609	3,512	50,283	134,088	14,515	31,380	116,096	49,202	7,269
	Total MANE-VU	1,242,908	3.2E+09	6.9E+04	9.9E+05	2.7E+06	2.9E+05	6.2E+05	2.3E+06	9.7E+05	1.4E+05

HDD Range	HDD	Total conventional cordwood heaters	Total dry mass of cordwood burned by conventional cordwood heaters (kg/yr)	7-PAH (kg/yr)	16-PAH (kg/yr)	Benzo(a)pyrene (g/yr)	Naphthalene (kg/yr)	1,3-Butadiene (kg/yr)	Formaldehyde (kg/yr)	Acetaldehyde (kg/yr)	Acrolein (kg/yr)
> 6500	High	599,058	1,927,439,568	4.24E+04	6.07E+05	1.62E+06	1.75E+05	3.79E+05	1.40E+06	5.94E+05	8.78E+04
5500-6499	Med.	326,363	854,244,385	1.88E+04	2.69E+05	7.18E+05	7.77E+04	1.68E+05	6.21E+05	2.63E+05	3.89E+04
< 5499	Low	317,487	374,104,918	8.23E+03	1.18E+05	3.14E+05	3.40E+04	7.35E+04	2.72E+05	1.15E+05	1.70E+04

Section 3.1.1

Table 3.1.1

Emission Inventory for Uncertified Conventional Cordwood Heaters (2002 Base Year)

Section 3

State	County	Total conventional cordwood heaters	Total dry mass of cordwood burned by conventional cordwood heaters (kg/yr)	Cresols (kg/yr)	PCB _{TEQ} (ng/yr)	Dioxin _{TEQ} (ug/yr)	Methane (kg/yr)	VOC (kg/yr)
Connecticut	Fairfield County	11,042	29,891,394	2,397	14,946	68,795	956,525	548,368
	Hartford County	19,148	51,834,820	4,157	25,917	119,298	1,658,714	950,928
	Litchfield County	5,824	19,913,723	1,597	9,957	45,831	637,239	365,324
	Middlesex County	4,386	11,872,150	952	5,936	27,324	379,909	217,799
	New Haven County	13,342	36,117,575	2,897	18,059	83,125	1,155,762	662,590
	New London County	6,247	16,911,623	1,356	8,456	38,922	541,172	310,250
	Tolland County	4,829	16,510,586	1,324	8,255	37,999	528,339	302,892
	Windham County	4,927	16,848,570	1,351	8,424	38,777	539,154	309,093
	Total Connecticut		69,746	199,900,440	16,031	99,950	460,071	6,396,814
Delaware	Kent County	3,754	4,305,186	345	2,153	9,908	137,766	78,980
	New Castle County	7,524	8,627,327	692	4,314	19,856	276,074	158,271
	Sussex County	4,877	5,592,105	448	2,796	12,870	178,947	102,589
Total Delaware		16,155	18,524,618	1,486	9,262	42,634	592,788	339,841
Maine	Androscoggin County	6,008	17,122,993	1,373	8,561	39,409	547,936	314,127
	Aroostook County	5,092	14,512,421	1,164	7,256	33,400	464,397	266,235
	Cumberland County	9,625	27,430,487	2,200	13,715	63,131	877,776	503,222
	Franklin County	2,687	7,657,389	614	3,829	17,623	245,036	140,477
	Hancock County	4,481	12,771,002	1,024	6,386	29,392	408,672	234,289
	Kennebec County	7,182	20,467,833	1,641	10,234	47,107	654,971	375,490
	Knox County	3,253	9,272,064	744	4,636	21,340	296,706	170,099
	Lincoln County	2,836	8,081,597	648	4,041	18,600	258,611	148,260
	Oxford County	4,580	13,053,975	1,047	6,527	30,044	417,727	239,480
	Penobscot County	8,200	23,370,443	1,874	11,685	53,787	747,854	428,739
	Piscataquis County	1,589	4,528,846	363	2,264	10,423	144,923	83,083
	Sagadahoc County	2,695	7,679,750	616	3,840	17,675	245,752	140,888
	Somerset County	4,080	11,627,870	933	5,814	26,762	372,092	213,317
Waldo County	3,763	10,724,309	860	5,362	24,682	343,178	196,741	
Washington County	2,346	6,685,441	536	3,343	15,387	213,934	122,647	

State	County	Total conventional cordwood heaters	Total dry mass of cordwood burned by conventional cordwood heaters (kg/yr)	Cresols (kg/yr)	PCB _{TED} (ng/yr)	Dioxin _{TED} (ug/yr)	Methane (kg/yr)	VOC (kg/yr)
	York County	7,792	22,205,726	1,781	11,103	51,106	710,583	407,372
	Total Maine	76,210	217,192,145	17,418	108,596	499,868	6,950,149	3,984,466
Maryland	Allegany County	4,242	10,438,816	837	5,219	24,025	334,042	191,504
	Anne Arundel County	19,599	22,589,697	1,812	11,295	51,990	722,870	414,416
	Baltimore County	20,085	23,149,420	1,857	11,575	53,278	740,781	424,684
	Calvert County	2,988	3,444,240	276	1,722	7,927	110,216	63,186
	Caroline County	1,230	1,417,246	114	709	3,262	45,352	26,000
	Carroll County	5,299	6,107,352	490	3,054	14,056	195,435	112,042
	Cecil County	2,902	3,344,668	268	1,672	7,698	107,029	61,359
	Charles County	3,337	3,846,726	308	1,923	8,853	123,095	70,570
	Dorchester County	791	912,255	73	456	2,100	29,192	16,736
	Frederick County	6,600	7,606,985	610	3,803	17,507	243,424	139,553
	Garrett County	2,518	7,826,688	628	3,913	18,013	250,454	143,583
	Harford County	5,776	6,657,157	534	3,329	15,321	213,029	122,128
	Howard County	4,546	5,239,529	420	2,620	12,059	167,665	96,121
	Kent County	668	769,562	62	385	1,771	24,626	14,118
	Montgomery County	14,708	16,952,482	1,360	8,476	39,016	542,479	310,999
	Prince George's County	24,093	27,769,457	2,227	13,885	63,911	888,623	509,440
	Queen Anne's County	1,555	1,792,389	144	896	4,125	57,356	32,882
	St. Mary's County	8,115	9,353,360	750	4,677	21,527	299,308	171,591
	Somerset County	799	921,373	74	461	2,121	29,484	16,903
	Talbot County	1,132	1,304,699	105	652	3,003	41,750	23,935
	Washington County	5,540	13,630,895	1,093	6,815	31,372	436,189	250,064
	Wicomico County	2,571	2,963,437	238	1,482	6,820	94,830	54,365
	Worcester County	1,598	1,841,484	148	921	4,238	58,927	33,783
	Baltimore city	978	1,127,188	90	564	2,594	36,070	20,679
	Total Maryland	141,670	181,007,105	14,516	90,504	416,588	5,792,227	3,320,639
Massachusetts	Barnstable County	6,360	16,444,262	1,319	8,222	37,846	526,216	301,676
	Berkshire County	6,017	19,651,425	1,576	9,826	45,228	628,846	360,512
	Bristol County	8,871	22,934,184	1,839	11,467	52,783	733,894	420,736
	Dukes County	784	2,027,651	163	1,014	4,667	64,885	37,198

State	County	Total conventional cordwood heaters	Total dry mass of cordwood burned by conventional cordwood heaters (kg/yr)	Cresols (kg/yr)	PCB _{TEDQ} (ng/yr)	Dioxin _{TEDQ} (ug/yr)	Methane (kg/yr)	VOC (kg/yr)
	Essex County	12,605	32,588,482	2,613	16,294	75,002	1,042,831	597,847
	Franklin County	4,827	15,763,762	1,264	7,882	36,280	504,440	289,192
	Hampden County	10,009	32,686,097	2,621	16,343	75,227	1,045,955	599,638
	Hampshire County	6,822	22,279,746	1,787	11,140	51,277	712,952	408,730
	Middlesex County	17,675	57,724,555	4,629	28,862	132,853	1,847,186	1,058,977
	Nantucket County	407	1,053,265	84	527	2,424	33,704	19,323
	Norfolk County	9,517	24,606,754	1,973	12,303	56,632	787,416	451,420
	Plymouth County	7,470	19,312,287	1,549	9,656	44,447	617,993	354,291
	Suffolk County	561	1,450,789	116	725	3,339	46,425	26,615
	Worcester County	18,409	60,120,530	4,821	30,060	138,367	1,923,857	1,102,932
	Total Massachusetts	110,335	328,643,787	26,356	164,322	756,374	#####	6,029,085
New Hampshire	Belknap County	2,645	8,215,118	659	4,108	18,907	262,884	150,709
	Carroll County	3,113	9,668,957	775	4,834	22,253	309,407	177,380
	Cheshire County	4,833	15,012,202	1,204	7,506	34,551	480,390	275,404
	Coos County	1,867	5,799,894	465	2,900	13,348	185,597	106,401
	Grafton County	5,536	17,195,314	1,379	8,598	39,575	550,250	315,454
	Hillsborough County	11,665	36,232,658	2,906	18,116	83,389	1,159,445	664,701
	Merrimack County	5,758	17,885,086	1,434	8,943	41,163	572,323	328,108
	Rockingham County	8,515	26,449,915	2,121	13,225	60,874	846,397	485,233
	Strafford County	4,040	12,550,209	1,006	6,275	28,884	401,607	230,238
	Sullivan County	2,845	8,835,524	709	4,418	20,335	282,737	162,091
	Total New Hampshire	50,817	157,844,876	12,659	78,922	363,280	5,051,036	2,895,720
New Jersey	Atlantic County	4,286	4,899,225	393	2,450	11,276	156,775	89,878
	Bergen County	12,695	30,976,913	2,484	15,488	71,293	991,261	568,282
	Burlington County	6,123	6,998,677	561	3,499	16,107	223,958	128,393
	Camden County	10,355	11,836,158	949	5,918	27,241	378,757	217,138
	Cape May County	2,726	3,115,556	250	1,558	7,170	99,698	57,156
	Cumberland County	2,600	2,971,550	238	1,486	6,839	95,090	54,514
	Essex County	4,543	11,084,802	889	5,542	25,512	354,714	203,355
	Gloucester County	3,531	4,035,525	324	2,018	9,288	129,137	74,033
	Hudson County	554	1,351,096	108	676	3,110	43,235	24,786

State	County	Total conventional cordwood heaters	Total dry mass of cordwood burned by conventional cordwood heaters (kg/yr)	Cresols (kg/yr)	PCB _{TED} (ng/yr)	Dioxin _{TED} (ug/yr)	Methane (kg/yr)	VOC (kg/yr)
	Hunterdon County	2,302	5,617,194	450	2,809	12,928	179,750	103,049
	Mercer County	4,386	5,013,585	402	2,507	11,539	160,435	91,976
	Middlesex County	8,685	9,926,591	796	4,963	22,846	317,651	182,107
	Monmouth County	7,996	9,139,854	733	4,570	21,035	292,475	167,674
	Morris County	4,851	11,836,510	949	5,918	27,242	378,768	217,145
	Ocean County	8,405	9,606,451	770	4,803	22,109	307,406	176,234
	Passaic County	4,863	11,867,234	952	5,934	27,312	379,752	217,709
	Salem County	1,638	1,871,745	150	936	4,308	59,896	34,338
	Somerset County	2,921	7,127,152	572	3,564	16,403	228,069	130,750
	Sussex County	3,375	8,234,141	660	4,117	18,951	263,493	151,058
	Union County	4,967	12,120,435	972	6,060	27,895	387,854	222,354
	Warren County	2,663	6,499,107	521	3,250	14,958	207,971	119,228
	Total New Jersey	104,464	176,129,503	14,125	88,065	405,362	5,636,144	3,231,157
New York	Albany County	5,969	19,646,092	1,576	9,823	45,215	628,675	360,414
	Allegany County	3,571	11,753,754	943	5,877	27,051	376,120	215,627
	Bronx County	1,124	1,371,312	110	686	3,156	43,882	25,157
	Broome County	6,946	22,861,782	1,833	11,431	52,616	731,577	419,407
	Cattaraugus County	5,671	18,664,587	1,497	9,332	42,957	597,267	342,408
	Cayuga County	4,303	14,161,786	1,136	7,081	32,593	453,177	259,803
	Chautauqua County	7,502	24,691,182	1,980	12,346	56,827	790,118	452,968
	Chemung County	4,069	13,393,134	1,074	6,697	30,824	428,580	245,702
	Chenango County	3,511	11,555,997	927	5,778	26,596	369,792	211,999
	Clinton County	3,267	10,753,164	862	5,377	24,748	344,101	197,271
	Columbia County	2,538	8,352,413	670	4,176	19,223	267,277	153,228
	Cortland County	2,567	8,447,471	677	4,224	19,442	270,319	154,972
	Delaware County	3,746	12,328,312	989	6,164	28,374	394,506	226,167
	Dutchess County	5,356	17,627,780	1,414	8,814	40,570	564,089	323,388
	Erie County	25,978	85,498,845	6,857	42,749	196,776	2,735,963	1,568,506
	Essex County	2,154	7,089,659	569	3,545	16,317	226,869	130,062
	Franklin County	2,995	9,857,493	791	4,929	22,687	315,440	180,839
	Fulton County	2,769	9,114,515	731	4,557	20,977	291,664	167,209

State	County	Total conventional cordwood heaters	Total dry mass of cordwood burned by conventional cordwood heaters (kg/yr)	Cresols (kg/yr)	PCB _{TED} (ng/yr)	Dioxin _{TED} (ug/yr)	Methane (kg/yr)	VOC (kg/yr)
	Genesee County	2,197	7,231,903	580	3,616	16,644	231,421	132,672
	Greene County	2,191	7,212,215	578	3,606	16,599	230,791	132,311
	Hamilton County	539	1,775,094	142	888	4,085	56,803	32,565
	Herkimer County	3,893	12,812,164	1,027	6,406	29,487	409,989	235,044
	Jefferson County	4,889	16,091,107	1,290	8,046	37,034	514,915	295,197
	Kings County	2,127	2,596,253	208	1,298	5,975	83,080	47,629
	Lewis County	3,456	11,374,631	912	5,687	26,179	363,988	208,672
	Livingston County	2,915	9,592,779	769	4,796	22,078	306,969	175,983
	Madison County	3,742	12,316,369	988	6,158	28,346	394,124	225,948
	Monroe County	15,431	50,785,242	4,073	25,393	116,882	1,625,128	931,673
	Montgomery County	2,413	7,942,880	637	3,971	18,281	254,172	145,715
	Nassau County	2,049	2,500,694	201	1,250	5,755	80,022	45,876
	New York County	1,843	2,249,532	180	1,125	5,177	71,985	41,268
	Niagara County	5,606	18,450,777	1,480	9,225	42,464	590,425	338,486
	Oneida County	8,849	29,124,278	2,336	14,562	67,030	931,977	534,295
	Onondaga County	9,754	32,103,597	2,575	16,052	73,886	1,027,315	588,952
	Ontario County	6,403	21,072,989	1,690	10,536	48,499	674,336	386,591
	Orange County	4,075	13,410,466	1,075	6,705	30,864	429,135	246,020
	Orleans County	1,808	5,949,204	477	2,975	13,692	190,375	109,140
	Oswego County	6,631	21,825,430	1,750	10,913	50,231	698,414	400,395
	Otsego County	3,901	12,840,201	1,030	6,420	29,552	410,886	235,558
	Putnam County	1,884	6,200,774	497	3,100	14,271	198,425	113,755
	Queens County	1,865	2,276,523	183	1,138	5,239	72,849	41,764
	Rensselaer County	6,620	21,786,245	1,747	10,893	50,141	697,160	399,676
	Richmond County	389	474,405	38	237	1,092	15,181	8,703
	Rockland County	1,501	4,938,633	396	2,469	11,366	158,036	90,601
	St. Lawrence County	6,430	21,161,837	1,697	10,581	48,704	677,179	388,221
	Saratoga County	8,779	28,893,116	2,317	14,447	66,498	924,580	530,054
	Schenectady County	3,605	11,866,274	952	5,933	27,310	379,721	217,691
	Schoharie County	2,657	8,744,942	701	4,372	20,126	279,838	160,429
	Schuyler County	1,275	4,197,848	337	2,099	9,661	134,331	77,011

State	County	Total conventional cordwood heaters	Total dry mass of cordwood burned by conventional cordwood heaters (kg/yr)	Cresols (kg/yr)	PCB _{TED} (ng/yr)	Dioxin _{TED} (ug/yr)	Methane (kg/yr)	VOC (kg/yr)
	Seneca County	1,147	3,775,039	303	1,888	8,688	120,801	69,254
	Steuben County	6,038	19,872,932	1,594	9,936	45,738	635,934	364,576
	Suffolk County	18,584	22,681,709	1,819	11,341	52,202	725,815	416,104
	Sullivan County	3,049	10,033,412	805	5,017	23,092	321,069	184,066
	Tioga County	3,559	11,714,334	939	5,857	26,961	374,859	214,904
	Tompkins County	4,520	14,875,117	1,193	7,438	34,235	476,004	272,889
	Ulster County	6,052	19,918,080	1,597	9,959	45,841	637,379	365,404
	Warren County	4,085	13,445,718	1,078	6,723	30,945	430,263	246,666
	Washington County	4,913	16,171,301	1,297	8,086	37,218	517,482	296,668
	Wayne County	4,416	14,532,498	1,165	7,266	33,447	465,040	266,604
	Westchester County	11,719	38,569,210	3,093	19,285	88,767	1,234,215	707,566
	Wyoming County	2,390	7,867,028	631	3,934	18,106	251,745	144,323
	Yates County	1,434	4,718,149	378	2,359	10,859	150,981	86,556
	Total New York	295,660	9.2E+08	7.3E+04	4.6E+05	2.1E+06	2.9E+07	1.7E+07
Pennsylvania	Adams County	4,308	11,386,726	913	5,693	26,207	364,375	208,893
	Allegheny County	19,198	50,744,294	4,070	25,372	116,788	1,623,817	930,922
	Armstrong County	1,946	5,142,820	412	2,571	11,836	164,570	94,347
	Beaver County	4,315	11,404,110	915	5,702	26,247	364,932	209,212
	Bedford County	3,613	9,550,139	766	4,775	21,980	305,604	175,201
	Berks County	7,930	9,818,655	787	4,909	22,598	314,197	180,127
	Blair County	3,977	10,510,599	843	5,255	24,190	336,339	192,821
	Bradford County	4,092	13,663,471	1,096	6,832	31,446	437,231	250,661
	Bucks County	9,193	11,381,763	913	5,691	26,195	364,216	208,802
	Butler County	4,615	12,199,175	978	6,100	28,076	390,374	223,798
	Cambria County	3,350	8,855,751	710	4,428	20,382	283,384	162,462
	Cameron County	353	1,178,162	94	589	2,712	37,701	21,614
	Carbon County	1,577	4,167,504	334	2,084	9,592	133,360	76,454
	Centre County	5,162	17,233,654	1,382	8,617	39,663	551,477	316,157
	Chester County	7,289	9,024,680	724	4,512	20,770	288,790	165,561
	Clarion County	1,465	4,891,167	392	2,446	11,257	156,517	89,730
	Clearfield County	2,238	7,470,980	599	3,735	17,194	239,071	137,058

State	County	Total conventional cordwood heaters	Total dry mass of cordwood burned by conventional cordwood heaters (kg/yr)	Cresols (kg/yr)	PCB _{TED} (ng/yr)	Dioxin _{TED} (ug/yr)	Methane (kg/yr)	VOC (kg/yr)
	Clinton County	1,655	5,524,714	443	2,762	12,715	176,791	101,353
	Columbia County	2,458	6,495,689	521	3,248	14,950	207,862	119,166
	Crawford County	5,662	18,904,456	1,516	9,452	43,509	604,943	346,809
	Cumberland County	6,611	17,475,147	1,401	8,738	40,219	559,205	320,588
	Dauphin County	4,661	5,770,483	463	2,885	13,281	184,655	105,862
	Delaware County	6,250	7,738,528	621	3,869	17,810	247,633	141,966
	Elk County	1,348	4,501,750	361	2,251	10,361	144,056	82,586
	Erie County	7,672	25,613,972	2,054	12,807	58,951	819,647	469,897
	Fayette County	4,013	10,606,676	851	5,303	24,411	339,414	194,583
	Forest County	431	1,439,206	115	720	3,312	46,055	26,403
	Franklin County	6,131	16,205,221	1,300	8,103	37,296	518,567	297,290
	Fulton County	1,600	4,229,368	339	2,115	9,734	135,340	77,589
	Greene County	1,380	3,646,894	292	1,823	8,393	116,701	66,904
	Huntingdon County	3,101	8,196,686	657	4,098	18,865	262,294	150,371
	Indiana County	2,825	7,467,999	599	3,734	17,188	238,976	137,003
	Jefferson County	1,634	4,317,752	346	2,159	9,937	138,168	79,211
	Juniata County	1,945	5,142,272	412	2,571	11,835	164,553	94,337
	Lackawanna County	4,293	14,333,995	1,150	7,167	32,990	458,688	262,962
	Lancaster County	12,220	15,129,910	1,213	7,565	34,821	484,157	277,564
	Lawrence County	2,548	6,734,888	540	3,367	15,500	215,516	123,554
	Lebanon County	3,208	3,971,790	319	1,986	9,141	127,097	72,864
	Lehigh County	5,877	15,534,453	1,246	7,767	35,753	497,102	284,985
	Luzerne County	5,388	17,988,654	1,443	8,994	41,401	575,637	330,008
	Lycoming County	5,839	15,433,456	1,238	7,717	35,520	493,871	283,132
	McKean County	1,995	6,662,247	534	3,331	15,333	213,192	122,221
	Mercer County	4,423	14,767,197	1,184	7,384	33,987	472,550	270,909
	Mifflin County	3,286	8,685,116	697	4,343	19,989	277,924	159,331
	Monroe County	4,757	15,880,809	1,274	7,940	36,550	508,186	291,339
	Montgomery County	23,764	29,422,750	2,360	14,711	67,716	941,528	539,771
	Montour County	651	1,721,557	138	861	3,962	55,090	31,583
	Northampton County	4,891	12,927,712	1,037	6,464	29,753	413,687	237,163

State	County	Total conventional cordwood heaters	Total dry mass of cordwood burned by conventional cordwood heaters (kg/yr)	Cresols (kg/yr)	PCB _{TED} (ng/yr)	Dioxin _{TED} (ug/yr)	Methane (kg/yr)	VOC (kg/yr)
	Northumberland County	2,604	6,883,331	552	3,442	15,842	220,267	126,277
	Perry County	3,388	8,956,374	718	4,478	20,613	286,604	164,308
	Philadelphia County	6,740	8,344,358	669	4,172	19,205	267,019	153,080
	Pike County	3,023	10,094,234	810	5,047	23,232	323,015	185,182
	Potter County	1,437	4,799,154	385	2,400	11,045	153,573	88,042
	Schuylkill County	2,771	7,324,993	587	3,662	16,858	234,400	134,380
	Snyder County	1,965	5,193,268	416	2,597	11,952	166,185	95,272
	Somerset County	3,206	8,473,362	680	4,237	19,501	271,148	155,447
	Sullivan County	546	1,824,444	146	912	4,199	58,382	33,470
	Susquehanna County	3,136	10,469,146	840	5,235	24,095	335,013	192,060
	Tioga County	3,047	10,171,981	816	5,086	23,411	325,503	186,609
	Union County	1,569	4,146,423	333	2,073	9,543	132,686	76,068
	Venango County	2,952	9,854,777	790	4,927	22,681	315,353	180,789
	Warren County	2,970	9,914,688	795	4,957	22,819	317,270	181,888
	Washington County	5,423	14,334,076	1,150	7,167	32,990	458,690	262,964
	Wayne County	2,765	9,232,116	740	4,616	21,248	295,428	169,366
	Westmoreland County	15,024	39,712,143	3,185	19,856	91,397	1,270,789	728,533
	Wyoming County	1,810	6,041,505	485	3,021	13,905	193,328	110,834
	York County	11,757	31,075,499	2,492	15,538	71,520	994,416	570,091
	Total Pennsylvania	303,270	7.4E+08	5.9E+04	3.7E+05	1.7E+06	2.4E+07	1.4E+07
Rhode Island	Bristol County	1,373	3,720,095	298	1,860	8,562	119,043	68,246
	Kent County	4,535	12,288,494	985	6,144	28,282	393,232	225,437
	Newport County	2,364	6,405,669	514	3,203	14,743	204,981	117,514
	Providence County	10,242	27,752,633	2,226	13,876	63,873	888,084	509,132
	Washington County	4,195	11,366,488	912	5,683	26,160	363,728	208,522
	Total Rhode Island	22,710	61,533,380	4,935	30,767	141,619	1,969,068	1,128,851
District of Columbia	District of Columbia	1,997	2,301,331	185	1,151	5,297	73,643	42,219
	Total D.C.	1,997	2,301,331	185	1,151	5,297	73,643	42,219
Vermont	Addison County	3,279	10,495,072	842	5,248	24,154	335,842	192,536
	Bennington County	2,506	8,020,303	643	4,010	18,459	256,650	147,135
	Caledonia County	3,138	10,044,425	806	5,022	23,117	321,422	184,269

State	County	Total conventional cordwood heaters	Total dry mass of cordwood burned by conventional cordwood heaters (kg/yr)	Cresols (kg/yr)	PCB _{TEQ} (ng/yr)	Dioxin _{TEQ} (ug/yr)	Methane (kg/yr)	VOC (kg/yr)
	Chittenden County	6,999	22,399,728	1,796	11,200	51,553	716,791	410,931
	Essex County	706	2,258,769	181	1,129	5,199	72,281	41,438
	Franklin County	3,117	9,977,596	800	4,989	22,963	319,283	183,042
	Grand Isle County	817	2,614,811	210	1,307	6,018	83,674	47,970
	Lamoille County	2,298	7,353,473	590	3,677	16,924	235,311	134,902
	Orange County	3,338	10,684,606	857	5,342	24,591	341,907	196,013
	Orleans County	3,467	11,097,243	890	5,549	25,540	355,112	203,583
	Rutland County	4,726	15,126,447	1,213	7,563	34,814	484,046	277,500
	Washington County	5,098	16,314,995	1,308	8,157	37,549	522,080	299,304
	Windham County	5,091	16,292,514	1,307	8,146	37,497	521,360	298,892
	Windsor County	5,296	16,948,627	1,359	8,474	39,007	542,356	310,929
	Total Vermont	49,875	159,628,609	12,802	79,814	367,385	5,108,115	2,928,443
	Total MANE-VU	1,242,908	3.2E+09	2.5E+05	1.6E+06	7.3E+06	1.0E+08	5.8E+07

HDD Range	HDD	Total conventional cordwood heaters	Total dry mass of cordwood burned by conventional cordwood heaters (kg/yr)	Cresols (kg/yr)	PCB _{TEQ} (ng/yr)	Dioxin _{TEQ} (ug/yr)	Methane (kg/yr)	VOC (kg/yr)
> 6500	High	599,058	1,927,439,568	1.55E+05	9.64E+05	4.44E+06	6.17E+07	3.54E+07
5500-6499	Med.	326,363	854,244,385	6.85E+04	4.27E+05	1.97E+06	2.73E+07	1.57E+07
< 5499	Low	317,487	374,104,918	3.00E+04	1.87E+05	8.61E+05	1.20E+07	6.86E+06

Section 3.1.2

Table 3.1.2

Emission Inventory for Certified Non-Catalytic Cordwood Heaters (2002 Base Year)

Section 1

State	County	Total certified non-catalytic cordwood heaters	Total dry mass of cordwood burned by certified non-catalytic cordwood heaters (kg/yr)	PM _{2.5} (kg/yr)	PM ₁₀ (kg/yr)	NO _x (kg/yr) as NO ₂	CO (kg/yr)	SO ₂ (kg/yr)	NH ₃ (kg/yr)	Benzene (kg/yr)	Phenol (kg/yr)
Connecticut	Fairfield County	2,721	5,849,169	43,927	43,927	6,668	411,782	1,170	2,632	2,805	1,426
	Hartford County	4,718	10,143,074	76,174	76,174	11,563	714,072	2,029	4,564	4,863	2,472
	Litchfield County	1,435	3,896,731	29,264	29,264	4,442	274,330	779	1,754	1,868	950
	Middlesex County	1,081	2,323,151	17,447	17,447	2,648	163,550	465	1,045	1,114	566
	New Haven County	3,287	7,067,512	53,077	53,077	8,057	497,553	1,414	3,180	3,389	1,722
	New London County	1,539	3,309,278	24,853	24,853	3,773	232,973	662	1,489	1,587	807
	Tolland County	1,190	3,230,803	24,263	24,263	3,683	227,449	646	1,454	1,549	787
	Windham County	1,214	3,296,940	24,760	24,760	3,759	232,105	659	1,484	1,581	804
	Total Connecticut		17,185	39,116,659	293,766	293,766	44,593	2,753,813	7,823	17,602	18,756
Delaware	Kent County	925	842,442	6,327	6,327	960	59,308	168	379	404	205
	New Castle County	1,854	1,688,201	12,678	12,678	1,925	118,849	338	760	809	411
	Sussex County	1,202	1,094,267	8,218	8,218	1,247	77,036	219	492	525	267
Total Delaware		3,980	3,624,910	27,223	27,223	4,132	255,194	725	1,631	1,738	883
Maine	Androscoggin County	1,480	3,350,639	25,163	25,163	3,820	235,885	670	1,508	1,607	817
	Aroostook County	1,255	2,839,801	21,327	21,327	3,237	199,922	568	1,278	1,362	692
	Cumberland County	2,372	5,367,617	40,311	40,311	6,119	377,880	1,074	2,415	2,574	1,308
	Franklin County	662	1,498,403	11,253	11,253	1,708	105,488	300	674	718	365
	Hancock County	1,104	2,499,039	18,768	18,768	2,849	175,932	500	1,125	1,198	609
	Kennebec County	1,770	4,005,160	30,079	30,079	4,566	281,963	801	1,802	1,920	976
	Knox County	802	1,814,364	13,626	13,626	2,068	127,731	363	816	870	442
	Lincoln County	699	1,581,413	11,876	11,876	1,803	111,331	316	712	758	385
	Oxford County	1,129	2,554,411	19,184	19,184	2,912	179,831	511	1,149	1,225	623
	Penobscot County	2,021	4,573,145	34,344	34,344	5,213	321,949	915	2,058	2,193	1,115
	Piscataquis County	392	886,208	6,655	6,655	1,010	62,389	177	399	425	216
	Sagadahoc County	664	1,502,779	11,286	11,286	1,713	105,796	301	676	721	366
	Somerset County	1,005	2,275,350	17,088	17,088	2,594	160,185	455	1,024	1,091	555
Waldo County	927	2,098,540	15,760	15,760	2,392	147,737	420	944	1,006	511	
Washington County	578	1,308,212	9,825	9,825	1,491	92,098	262	589	627	319	

State	County	Total certified non-catalytic cordwood heaters	Total dry mass of cordwood burned by certified non-catalytic cordwood heaters (kg/yr)	PM _{2.5} (kg/yr)	PM ₁₀ (kg/yr)	NO _x (kg/yr) as NO ₂	CO (kg/yr)	SO ₂ (kg/yr)	NH ₃ (kg/yr)	Benzene (kg/yr)	Phenol (kg/yr)
	York County	1,920	4,345,232	32,633	32,633	4,954	305,904	869	1,955	2,083	1,059
	Total Maine	18,777	42,500,312	319,177	319,177	48,450	2,992,022	8,500	19,125	20,378	10,358
Maryland	Allegany County	1,045	2,042,675	15,340	15,340	2,329	143,804	409	919	979	498
	Anne Arundel County	4,829	4,420,368	33,197	33,197	5,039	311,194	884	1,989	2,119	1,077
	Baltimore County	4,949	4,529,895	34,020	34,020	5,164	318,905	906	2,038	2,172	1,104
	Calvert County	736	673,971	5,062	5,062	768	47,448	135	303	323	164
	Caroline County	303	277,328	2,083	2,083	316	19,524	55	125	133	68
	Carroll County	1,306	1,195,091	8,975	8,975	1,362	84,134	239	538	573	291
	Cecil County	715	654,487	4,915	4,915	746	46,076	131	295	314	160
	Charles County	822	752,730	5,653	5,653	858	52,992	151	339	361	183
	Dorchester County	195	178,511	1,341	1,341	204	12,567	36	80	86	44
	Frederick County	1,626	1,488,540	11,179	11,179	1,697	104,793	298	670	714	363
	Garrett County	620	1,531,532	11,502	11,502	1,746	107,820	306	689	734	373
	Harford County	1,423	1,302,677	9,783	9,783	1,485	91,708	261	586	625	317
	Howard County	1,120	1,025,275	7,700	7,700	1,169	72,179	205	461	492	250
	Kent County	165	150,588	1,131	1,131	172	10,601	30	68	72	37
	Montgomery County	3,624	3,317,274	24,913	24,913	3,782	233,536	663	1,493	1,591	808
	Prince George's County	5,936	5,433,947	40,809	40,809	6,195	382,550	1,087	2,445	2,605	1,324
	Queen Anne's County	383	350,736	2,634	2,634	400	24,692	70	158	168	85
	St. Mary's County	1,999	1,830,272	13,745	13,745	2,087	128,851	366	824	878	446
	Somerset County	197	180,295	1,354	1,354	206	12,693	36	81	86	44
	Talbot County	279	255,304	1,917	1,917	291	17,973	51	115	122	62
	Washington County	1,365	2,667,303	20,031	20,031	3,041	187,778	533	1,200	1,279	650
	Wicomico County	633	579,888	4,355	4,355	661	40,824	116	261	278	141
	Worcester County	394	360,343	2,706	2,706	411	25,368	72	162	173	88
	Baltimore city	241	220,569	1,656	1,656	251	15,528	44	99	106	54
	Total Maryland	34,906	35,419,598	266,001	266,001	40,378	2,493,540	7,084	15,939	16,983	8,632
Massachusetts	Barnstable County	1,567	3,217,825	24,166	24,166	3,668	226,535	644	1,448	1,543	784
	Berkshire County	1,483	3,845,405	28,879	28,879	4,384	270,716	769	1,730	1,844	937
	Bristol County	2,186	4,487,777	33,703	33,703	5,116	315,940	898	2,019	2,152	1,094
	Dukes County	193	396,772	2,980	2,980	452	27,933	79	179	190	97

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	Essex County	3,106	6,376,937	47,891	47,891	7,270	448,936	1,275	2,870	3,058	1,554
	Franklin County	1,189	3,084,664	23,166	23,166	3,517	217,160	617	1,388	1,479	752
	Hampden County	2,466	6,396,038	48,034	48,034	7,291	450,281	1,279	2,878	3,067	1,559
	Hampshire County	1,681	4,359,716	32,741	32,741	4,970	306,924	872	1,962	2,090	1,063
	Middlesex County	4,355	11,295,582	84,830	84,830	12,877	795,209	2,259	5,083	5,416	2,753
	Nantucket County	100	206,104	1,548	1,548	235	14,510	41	93	99	50
	Norfolk County	2,345	4,815,067	36,161	36,161	5,489	338,981	963	2,167	2,309	1,174
	Plymouth County	1,840	3,779,042	28,381	28,381	4,308	266,045	756	1,701	1,812	921
	Suffolk County	138	283,891	2,132	2,132	324	19,986	57	128	136	69
	Worcester County	4,536	11,764,428	88,351	88,351	13,411	828,216	2,353	5,294	5,641	2,867
	Total Massachusetts	27,185	64,309,247	482,962	482,962	73,313	4,527,371	12,862	28,939	30,835	15,673
New Hampshire	Belknap County	652	1,607,540	12,073	12,073	1,833	113,171	322	723	771	392
	Carroll County	767	1,892,028	14,209	14,209	2,157	133,199	378	851	907	461
	Cheshire County	1,191	2,937,598	22,061	22,061	3,349	206,807	588	1,322	1,409	716
	Coos County	460	1,134,927	8,523	8,523	1,294	79,899	227	511	544	277
	Grafton County	1,364	3,364,791	25,270	25,270	3,836	236,881	673	1,514	1,613	820
	Hillsborough County	2,874	7,090,032	53,246	53,246	8,083	499,138	1,418	3,191	3,400	1,728
	Merrimack County	1,419	3,499,766	26,283	26,283	3,990	246,384	700	1,575	1,678	853
	Rockingham County	2,098	5,175,738	38,870	38,870	5,900	364,372	1,035	2,329	2,482	1,261
	Strafford County	996	2,455,834	18,443	18,443	2,800	172,891	491	1,105	1,178	599
	Sullivan County	701	1,728,941	12,984	12,984	1,971	121,717	346	778	829	421
	Total New Hampshire	12,521	30,887,196	231,963	231,963	35,211	2,174,459	6,177	13,899	14,810	7,528
New Jersey	Atlantic County	1,056	958,684	7,200	7,200	1,093	67,491	192	431	460	234
	Bergen County	3,128	6,061,584	45,522	45,522	6,910	426,736	1,212	2,728	2,906	1,477
	Burlington County	1,509	1,369,506	10,285	10,285	1,561	96,413	274	616	657	334
	Camden County	2,551	2,316,108	17,394	17,394	2,640	163,054	463	1,042	1,111	564
	Cape May County	672	609,654	4,579	4,579	695	42,920	122	274	292	149
	Cumberland County	641	581,475	4,367	4,367	663	40,936	116	262	279	142
	Essex County	1,119	2,169,082	16,290	16,290	2,473	152,703	434	976	1,040	529
	Gloucester County	870	789,674	5,930	5,930	900	55,593	158	355	379	192
	Hudson County	136	264,384	1,986	1,986	301	18,613	53	119	127	64

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	Hunterdon County	567	1,099,176	8,255	8,255	1,253	77,382	220	495	527	268
	Mercer County	1,081	981,062	7,368	7,368	1,118	69,067	196	441	470	239
	Middlesex County	2,140	1,942,442	14,588	14,588	2,214	136,748	388	874	931	473
	Monmouth County	1,970	1,788,493	13,432	13,432	2,039	125,910	358	805	858	436
	Morris County	1,195	2,316,177	17,394	17,394	2,640	163,059	463	1,042	1,111	564
	Ocean County	2,071	1,879,797	14,117	14,117	2,143	132,338	376	846	901	458
	Passaic County	1,198	2,322,189	17,440	17,440	2,647	163,482	464	1,045	1,113	566
	Salem County	403	366,264	2,751	2,751	418	25,785	73	165	176	89
	Somerset County	720	1,394,646	10,474	10,474	1,590	98,183	279	628	669	340
	Sussex County	831	1,611,263	12,101	12,101	1,837	113,433	322	725	773	393
	Union County	1,224	2,371,735	17,812	17,812	2,704	166,970	474	1,067	1,137	578
	Warren County	656	1,271,750	9,551	9,551	1,450	89,531	254	572	610	310
	Total New Jersey	25,739	34,465,145	258,833	258,833	39,290	2,426,346	6,893	15,509	16,526	8,400
New York	Albany County	1,471	3,844,361	28,871	28,871	4,383	270,643	769	1,730	1,843	937
	Allegany County	880	2,299,983	17,273	17,273	2,622	161,919	460	1,035	1,103	561
	Bronx County	277	268,339	2,015	2,015	306	18,891	54	121	129	65
	Broome County	1,712	4,473,610	33,597	33,597	5,100	314,942	895	2,013	2,145	1,090
	Cattaraugus County	1,397	3,652,300	27,429	27,429	4,164	257,122	730	1,644	1,751	890
	Cayuga County	1,060	2,771,188	20,812	20,812	3,159	195,092	554	1,247	1,329	675
	Chautauqua County	1,848	4,831,588	36,285	36,285	5,508	340,144	966	2,174	2,317	1,178
	Chemung County	1,003	2,620,778	19,682	19,682	2,988	184,503	524	1,179	1,257	639
	Chenango County	865	2,261,286	16,982	16,982	2,578	159,195	452	1,018	1,084	551
	Clinton County	805	2,104,187	15,802	15,802	2,399	148,135	421	947	1,009	513
	Columbia County	625	1,634,406	12,274	12,274	1,863	115,062	327	735	784	398
	Cortland County	632	1,653,007	12,414	12,414	1,884	116,372	331	744	793	403
	Delaware County	923	2,412,413	18,117	18,117	2,750	169,834	482	1,086	1,157	588
	Dutchess County	1,320	3,449,416	25,905	25,905	3,932	242,839	690	1,552	1,654	841
	Erie County	6,401	16,730,474	125,646	125,646	19,073	1,177,825	3,346	7,529	8,022	4,077
	Essex County	531	1,387,309	10,419	10,419	1,582	97,667	277	624	665	338
	Franklin County	738	1,928,921	14,486	14,486	2,199	135,796	386	868	925	470
	Fulton County	682	1,783,535	13,394	13,394	2,033	125,561	357	803	855	435

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	Genesee County	541	1,415,144	10,628	10,628	1,613	99,626	283	637	679	345
	Greene County	540	1,411,291	10,599	10,599	1,609	99,355	282	635	677	344
	Hamilton County	133	347,352	2,609	2,609	396	24,454	69	156	167	85
	Herkimer County	959	2,507,093	18,828	18,828	2,858	176,499	501	1,128	1,202	611
	Jefferson County	1,205	3,148,719	23,647	23,647	3,590	221,670	630	1,417	1,510	767
	Kings County	524	508,037	3,815	3,815	579	35,766	102	229	244	124
	Lewis County	852	2,225,796	16,716	16,716	2,537	156,696	445	1,002	1,067	542
	Livingston County	718	1,877,122	14,097	14,097	2,140	132,149	375	845	900	457
	Madison County	922	2,410,076	18,100	18,100	2,747	169,669	482	1,085	1,156	587
	Monroe County	3,802	9,937,692	74,632	74,632	11,329	699,614	1,988	4,472	4,765	2,422
	Montgomery County	595	1,554,268	11,673	11,673	1,772	109,420	311	699	745	379
	Nassau County	505	489,338	3,675	3,675	558	34,449	98	220	235	119
	New York County	454	440,190	3,306	3,306	502	30,989	88	198	211	107
	Niagara County	1,381	3,610,461	27,115	27,115	4,116	254,176	722	1,625	1,731	880
	Oneida County	2,180	5,699,059	42,800	42,800	6,497	401,214	1,140	2,565	2,733	1,389
	Onondaga County	2,403	6,282,054	47,178	47,178	7,162	442,257	1,256	2,827	3,012	1,531
	Ontario County	1,578	4,123,577	30,968	30,968	4,701	290,300	825	1,856	1,977	1,005
	Orange County	1,004	2,624,169	19,708	19,708	2,992	184,742	525	1,181	1,258	640
	Orleans County	445	1,164,144	8,743	8,743	1,327	81,956	233	524	558	284
	Oswego County	1,634	4,270,816	32,074	32,074	4,869	300,665	854	1,922	2,048	1,041
	Otsego County	961	2,512,580	18,869	18,869	2,864	176,886	503	1,131	1,205	612
	Putnam County	464	1,213,372	9,112	9,112	1,383	85,421	243	546	582	296
	Queens County	460	445,472	3,345	3,345	508	31,361	89	200	214	109
	Rensselaer County	1,631	4,263,148	32,016	32,016	4,860	300,126	853	1,918	2,044	1,039
	Richmond County	96	92,832	697	697	106	6,535	19	42	45	23
	Rockland County	370	966,395	7,258	7,258	1,102	68,034	193	435	463	236
	St. Lawrence County	1,584	4,140,963	31,099	31,099	4,721	291,524	828	1,863	1,986	1,009
	Saratoga County	2,163	5,653,825	42,460	42,460	6,445	398,029	1,131	2,544	2,711	1,378
	Schenectady County	888	2,322,001	17,438	17,438	2,647	163,469	464	1,045	1,113	566
	Schoharie County	655	1,711,216	12,851	12,851	1,951	120,470	342	770	821	417
	Schuyler County	314	821,438	6,169	6,169	936	57,829	164	370	394	200

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	Seneca County	283	738,702	5,548	5,548	842	52,005	148	332	354	180
	Steuben County	1,488	3,888,749	29,205	29,205	4,433	273,768	778	1,750	1,865	948
	Suffolk County	4,579	4,438,373	33,332	33,332	5,060	312,461	888	1,997	2,128	1,082
	Sullivan County	751	1,963,345	14,745	14,745	2,238	138,219	393	884	941	478
	Tioga County	877	2,292,269	17,215	17,215	2,613	161,376	458	1,032	1,099	559
	Tompkins County	1,114	2,910,773	21,860	21,860	3,318	204,918	582	1,310	1,396	709
	Ulster County	1,491	3,897,584	29,271	29,271	4,443	274,390	780	1,754	1,869	950
	Warren County	1,007	2,631,067	19,759	19,759	2,999	185,227	526	1,184	1,262	641
	Washington County	1,211	3,164,411	23,765	23,765	3,607	222,775	633	1,424	1,517	771
	Wayne County	1,088	2,843,729	21,356	21,356	3,242	200,199	569	1,280	1,364	693
	Westchester County	2,887	7,547,250	56,680	56,680	8,604	531,326	1,509	3,396	3,619	1,839
	Wyoming County	589	1,539,425	11,561	11,561	1,755	108,376	308	693	738	375
	Yates County	353	923,251	6,934	6,934	1,053	64,997	185	415	443	225
	Total New York	72,848	179,075,670	1,344,858	1,344,858	204,146	12,606,927	35,815	80,584	85,864	43,644
Pennsylvania	Adams County	1,061	2,228,162	16,734	16,734	2,540	156,863	446	1,003	1,068	543
	Allegheny County	4,730	9,929,679	74,572	74,572	11,320	699,049	1,986	4,468	4,761	2,420
	Armstrong County	479	1,006,351	7,558	7,558	1,147	70,847	201	453	483	245
	Beaver County	1,063	2,231,564	16,759	16,759	2,544	157,102	446	1,004	1,070	544
	Bedford County	890	1,868,778	14,035	14,035	2,130	131,562	374	841	896	455
	Berks County	1,954	1,921,321	14,429	14,429	2,190	135,261	384	865	921	468
	Blair County	980	2,056,721	15,446	15,446	2,345	144,793	411	926	986	501
	Bradford County	1,008	2,673,678	20,079	20,079	3,048	188,227	535	1,203	1,282	652
	Bucks County	2,265	2,227,191	16,726	16,726	2,539	156,794	445	1,002	1,068	543
	Butler County	1,137	2,387,143	17,927	17,927	2,721	168,055	477	1,074	1,145	582
	Cambria County	826	1,732,900	13,014	13,014	1,976	121,996	347	780	831	422
	Cameron County	87	230,544	1,731	1,731	263	16,230	46	104	111	56
	Carbon County	388	815,500	6,124	6,124	930	57,411	163	367	391	199
	Centre County	1,272	3,372,293	25,326	25,326	3,844	237,409	674	1,518	1,617	822
	Chester County	1,796	1,765,956	13,262	13,262	2,013	124,323	353	795	847	430
	Clarion County	361	957,107	7,188	7,188	1,091	67,380	191	431	459	233
	Clearfield County	551	1,461,927	10,979	10,979	1,667	102,920	292	658	701	356

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	Clinton County	408	1,081,080	8,119	8,119	1,232	76,108	216	486	518	263
	Columbia County	606	1,271,081	9,546	9,546	1,449	89,484	254	572	609	310
	Crawford County	1,395	3,699,237	27,781	27,781	4,217	260,426	740	1,665	1,774	902
	Cumberland County	1,629	3,419,549	25,681	25,681	3,898	240,736	684	1,539	1,640	833
	Dauphin County	1,148	1,129,172	8,480	8,480	1,287	79,494	226	508	541	275
	Delaware County	1,540	1,514,281	11,372	11,372	1,726	106,605	303	681	726	369
	Elk County	332	880,906	6,616	6,616	1,004	62,016	176	396	422	215
	Erie County	1,890	5,012,160	37,641	37,641	5,714	352,856	1,002	2,255	2,403	1,222
	Fayette County	989	2,075,522	15,587	15,587	2,366	146,117	415	934	995	506
	Forest County	106	281,625	2,115	2,115	321	19,826	56	127	135	69
	Franklin County	1,511	3,171,049	23,815	23,815	3,615	223,242	634	1,427	1,520	773
	Fulton County	394	827,606	6,215	6,215	943	58,263	166	372	397	202
	Greene County	340	713,627	5,359	5,359	814	50,239	143	321	342	174
	Huntingdon County	764	1,603,933	12,046	12,046	1,828	112,917	321	722	769	391
	Indiana County	696	1,461,343	10,975	10,975	1,666	102,879	292	658	701	356
	Jefferson County	402	844,901	6,345	6,345	963	59,481	169	380	405	206
	Juniata County	479	1,006,243	7,557	7,557	1,147	70,840	201	453	482	245
	Lackawanna County	1,058	2,804,886	21,065	21,065	3,198	197,464	561	1,262	1,345	684
	Lancaster County	3,011	2,960,632	22,234	22,234	3,375	208,428	592	1,332	1,420	722
	Lawrence County	628	1,317,888	9,897	9,897	1,502	92,779	264	593	632	321
	Lebanon County	790	777,203	5,837	5,837	886	54,715	155	350	373	189
	Lehigh County	1,448	3,039,793	22,829	22,829	3,465	214,001	608	1,368	1,458	741
	Luzerne County	1,328	3,520,033	26,435	26,435	4,013	247,810	704	1,584	1,688	858
	Lycoming County	1,439	3,020,030	22,680	22,680	3,443	212,610	604	1,359	1,448	736
	McKean County	492	1,303,673	9,791	9,791	1,486	91,779	261	587	625	318
	Mercer County	1,090	2,889,655	21,701	21,701	3,294	203,432	578	1,300	1,386	704
	Mifflin County	810	1,699,510	12,763	12,763	1,937	119,645	340	765	815	414
	Monroe County	1,172	3,107,568	23,338	23,338	3,543	218,773	622	1,398	1,490	757
	Montgomery County	5,855	5,757,464	43,239	43,239	6,564	405,325	1,151	2,591	2,761	1,403
	Montour County	160	336,876	2,530	2,530	384	23,716	67	152	162	82
	Northampton County	1,205	2,529,704	18,998	18,998	2,884	178,091	506	1,138	1,213	617

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	Northumberland County	642	1,346,935	10,115	10,115	1,536	94,824	269	606	646	328
	Perry County	835	1,752,590	13,162	13,162	1,998	123,382	351	789	840	427
	Philadelphia County	1,661	1,632,830	12,263	12,263	1,861	114,951	327	735	783	398
	Pike County	745	1,975,247	14,834	14,834	2,252	139,057	395	889	947	481
	Potter County	354	939,102	7,053	7,053	1,071	66,113	188	423	450	229
	Schuylkill County	683	1,433,360	10,765	10,765	1,634	100,909	287	645	687	349
	Snyder County	484	1,016,222	7,632	7,632	1,158	71,542	203	457	487	248
	Somerset County	790	1,658,073	12,452	12,452	1,890	116,728	332	746	795	404
	Sullivan County	135	357,008	2,681	2,681	407	25,133	71	161	171	87
	Susquehanna County	773	2,048,610	15,385	15,385	2,335	144,222	410	922	982	499
	Tioga County	751	1,990,460	14,948	14,948	2,269	140,128	398	896	954	485
	Union County	387	811,375	6,093	6,093	925	57,121	162	365	389	198
	Venango County	727	1,928,390	14,482	14,482	2,198	135,759	386	868	925	470
	Warren County	732	1,940,113	14,570	14,570	2,212	136,584	388	873	930	473
	Washington County	1,336	2,804,902	21,065	21,065	3,198	197,465	561	1,262	1,345	684
	Wayne County	681	1,806,547	13,567	13,567	2,059	127,181	361	813	866	440
	Westmoreland County	3,702	7,770,900	58,359	58,359	8,859	547,071	1,554	3,497	3,726	1,894
	Wyoming County	446	1,182,206	8,878	8,878	1,348	83,227	236	532	567	288
	York County	2,897	6,080,876	45,667	45,667	6,932	428,094	1,216	2,736	2,916	1,482
	Total Pennsylvania	74,723	144,400,789	1,084,450	1,084,450	164,617	10,165,816	28,880	64,980	69,238	35,193
Rhode Island	Bristol County	338	727,951	5,467	5,467	830	51,248	146	328	349	177
	Kent County	1,117	2,404,621	18,059	18,059	2,741	169,285	481	1,082	1,153	586
	Newport County	582	1,253,466	9,414	9,414	1,429	88,244	251	564	601	305
	Providence County	2,524	5,430,655	40,784	40,784	6,191	382,318	1,086	2,444	2,604	1,324
	Washington County	1,034	2,224,202	16,704	16,704	2,536	156,584	445	1,001	1,066	542
	Total Rhode Island	5,595	12,040,895	90,427	90,427	13,727	847,679	2,408	5,418	5,773	2,935
District of Columbia	District of Columbia	492	450,326	3,382	3,382	513	31,703	90	203	216	110
	Total D.C.	492	450,326	3,382	3,382	513	31,703	90	203	216	110
Vermont	Addison County	808	2,053,683	15,423	15,423	2,341	144,579	411	924	985	501
	Bennington County	617	1,569,418	11,786	11,786	1,789	110,487	314	706	753	382
	Caledonia County	773	1,965,500	14,761	14,761	2,241	138,371	393	884	942	479

State	County	Total certified non-catalytic cordwood heaters	Total dry mass of cordwood burned by certified non-catalytic cordwood heaters (kg/yr)	PM _{2.5} (kg/yr)	PM ₁₀ (kg/yr)	NO _x (kg/yr) as NO ₂	CO (kg/yr)	SO ₂ (kg/yr)	NH ₃ (kg/yr)	Benzene (kg/yr)	Phenol (kg/yr)
	Chittenden County	1,724	4,383,194	32,918	32,918	4,997	308,577	877	1,972	2,102	1,068
	Essex County	174	441,998	3,319	3,319	504	31,117	88	199	212	108
	Franklin County	768	1,952,423	14,663	14,663	2,226	137,451	390	879	936	476
	Grand Isle County	201	511,668	3,843	3,843	583	36,021	102	230	245	125
	Lamoille County	566	1,438,933	10,806	10,806	1,640	101,301	288	648	690	351
	Orange County	823	2,090,771	15,702	15,702	2,383	147,190	418	941	1,002	510
	Orleans County	854	2,171,516	16,308	16,308	2,476	152,875	434	977	1,041	529
	Rutland County	1,164	2,959,954	22,229	22,229	3,374	208,381	592	1,332	1,419	721
	Washington County	1,256	3,192,530	23,976	23,976	3,639	224,754	639	1,437	1,531	778
	Windham County	1,254	3,188,131	23,943	23,943	3,634	224,444	638	1,435	1,529	777
	Windsor County	1,305	3,316,519	24,907	24,907	3,781	233,483	663	1,492	1,590	808
	Total Vermont	12,289	31,236,238	234,584	234,584	35,609	2,199,031	6,247	14,056	14,977	7,613
	Total MANE-VU	306,241	617,526,985	4,637,628	4,637,628	703,981	43,473,900	123,505	277,887	296,095	150,502

HDD Range	HDD	Total certified non-catalytic cordwood heaters	Total dry mass of cordwood burned by certified non-catalytic cordwood heaters (kg/yr)	PM _{2.5} (kg/yr)	PM ₁₀ (kg/yr)	NO _x (kg/yr) as NO ₂	CO (kg/yr)	SO ₂ (kg/yr)	NH ₃ (kg/yr)	Benzene (kg/yr)	Phenol (kg/yr)
> 6500	High	147,602	377,162,730	2,832,492	2,832,492	429,966	26,552,256	75,433	169,723	180,844	91,921
5500-6499	Med.	80,413	167,159,142	1,255,365	1,255,365	190,561	11,768,004	33,432	75,222	80,150	40,739
< 5499	Low	78,226	73,205,113	549,770	549,770	83,454	5,153,640	14,641	32,942	35,101	17,841

Section 3.1.2

Table 3.1.2

Emission Inventory for Certified Non-Catalytic Cordwood Heaters (2002 Base Year)

Section 2

State	County	Total certified non-catalytic cordwood heaters	Total dry mass of cordwood burned by certified non-catalytic cordwood heaters (kg/yr)	7-PAH (kg/yr)	16-PAH (kg/yr)	Benzo(a)pyrene (g/yr)	Naphthalene (kg/yr)	1,3-Butadiene (kg/yr)	Formaldehyde (kg/yr)	Acetaldehyde (kg/yr)	Acrolein (kg/yr)
Connecticut	Fairfield County	2,721	5,849,169	81	920	6,387	404	511	6,493	1,848	118
	Hartford County	4,718	10,143,074	141	1,595	11,075	700	886	11,259	3,205	205
	Litchfield County	1,435	3,896,731	54	613	4,255	269	340	4,325	1,231	79
	Middlesex County	1,081	2,323,151	32	365	2,537	160	203	2,579	734	47
	New Haven County	3,287	7,067,512	98	1,111	7,717	488	617	7,845	2,233	143
	New London County	1,539	3,309,278	46	520	3,613	228	289	3,673	1,046	67
	Tolland County	1,190	3,230,803	45	508	3,528	223	282	3,586	1,021	65
	Windham County	1,214	3,296,940	46	518	3,600	227	288	3,660	1,042	67
	Total Connecticut		17,185	39,116,659	543	6,151	42,712	2,699	3,417	43,419	12,361
Delaware	Kent County	925	842,442	12	132	920	58	74	935	266	17
	New Castle County	1,854	1,688,201	23	265	1,843	116	147	1,874	533	34
	Sussex County	1,202	1,094,267	15	172	1,195	76	96	1,215	346	22
Total Delaware		3,980	3,624,910	50	570	3,958	250	317	4,024	1,145	73
Maine	Androscoggin County	1,480	3,350,639	46	527	3,659	231	293	3,719	1,059	68
	Aroostook County	1,255	2,839,801	39	447	3,101	196	248	3,152	897	57
	Cumberland County	2,372	5,367,617	74	844	5,861	370	469	5,958	1,696	109
	Franklin County	662	1,498,403	21	236	1,636	103	131	1,663	473	30
	Hancock County	1,104	2,499,039	35	393	2,729	172	218	2,774	790	51
	Kennebec County	1,770	4,005,160	56	630	4,373	276	350	4,446	1,266	81
	Knox County	802	1,814,364	25	285	1,981	125	159	2,014	573	37
	Lincoln County	699	1,581,413	22	249	1,727	109	138	1,755	500	32
	Oxford County	1,129	2,554,411	35	402	2,789	176	223	2,835	807	52
	Penobscot County	2,021	4,573,145	63	719	4,993	316	400	5,076	1,445	92
	Piscataquis County	392	886,208	12	139	968	61	77	984	280	18
	Sagadahoc County	664	1,502,779	21	236	1,641	104	131	1,668	475	30
	Somerset County	1,005	2,275,350	32	358	2,484	157	199	2,526	719	46
Waldo County	927	2,098,540	29	330	2,291	145	183	2,329	663	42	
Washington County	578	1,308,212	18	206	1,428	90	114	1,452	413	26	

State	County	Total certified non-catalytic cordwood heaters	Total dry mass of cordwood burned by certified non-catalytic cordwood heaters (kg/yr)	7-PAH (kg/yr)	16-PAH (kg/yr)	Benzo(a)pyrene (g/yr)	Naphthalene (kg/yr)	1,3-Butadiene (kg/yr)	Formaldehyde (kg/yr)	Acetaldehyde (kg/yr)	Acrolein (kg/yr)
	York County	1,920	4,345,232	60	683	4,745	300	380	4,823	1,373	88
	Total Maine	18,777	42,500,312	589	6,683	46,407	2,932	3,713	47,175	13,430	859
Maryland	Allegany County	1,045	2,042,675	28	321	2,230	141	178	2,267	645	41
	Anne Arundel County	4,829	4,420,368	61	695	4,827	305	386	4,907	1,397	89
	Baltimore County	4,949	4,529,895	63	712	4,946	313	396	5,028	1,431	92
	Calvert County	736	673,971	9	106	736	47	59	748	213	14
	Caroline County	303	277,328	4	44	303	19	24	308	88	6
	Carroll County	1,306	1,195,091	17	188	1,305	82	104	1,327	378	24
	Cecil County	715	654,487	9	103	715	45	57	726	207	13
	Charles County	822	752,730	10	118	822	52	66	836	238	15
	Dorchester County	195	178,511	2	28	195	12	16	198	56	4
	Frederick County	1,626	1,488,540	21	234	1,625	103	130	1,652	470	30
	Garrett County	620	1,531,532	21	241	1,672	106	134	1,700	484	31
	Harford County	1,423	1,302,677	18	205	1,422	90	114	1,446	412	26
	Howard County	1,120	1,025,275	14	161	1,120	71	90	1,138	324	21
	Kent County	165	150,588	2	24	164	10	13	167	48	3
	Montgomery County	3,624	3,317,274	46	522	3,622	229	290	3,682	1,048	67
	Prince George's County	5,936	5,433,947	75	854	5,933	375	475	6,032	1,717	110
	Queen Anne's County	383	350,736	5	55	383	24	31	389	111	7
	St. Mary's County	1,999	1,830,272	25	288	1,999	126	160	2,032	578	37
	Somerset County	197	180,295	3	28	197	12	16	200	57	4
	Talbot County	279	255,304	4	40	279	18	22	283	81	5
	Washington County	1,365	2,667,303	37	419	2,912	184	233	2,961	843	54
	Wicomico County	633	579,888	8	91	633	40	51	644	183	12
	Worcester County	394	360,343	5	57	393	25	31	400	114	7
	Baltimore city	241	220,569	3	35	241	15	19	245	70	4
	Total Maryland	34,906	35,419,598	491	5,570	38,675	2,444	3,094	39,316	11,193	716
Massachusetts	Barnstable County	1,567	3,217,825	45	506	3,514	222	281	3,572	1,017	65
	Berkshire County	1,483	3,845,405	53	605	4,199	265	336	4,268	1,215	78
	Bristol County	2,186	4,487,777	62	706	4,900	310	392	4,981	1,418	91
	Dukes County	193	396,772	6	62	433	27	35	440	125	8

State	County	Total certified non-catalytic cordwood heaters	Total dry mass of cordwood burned by certified non-catalytic cordwood heaters (kg/yr)	7-PAH (kg/yr)	16-PAH (kg/yr)	Benzo(a)pyrene (g/yr)	Naphthalene (kg/yr)	1,3-Butadiene (kg/yr)	Formaldehyde (kg/yr)	Acetaldehyde (kg/yr)	Acrolein (kg/yr)
	Essex County	3,106	6,376,937	88	1,003	6,963	440	557	7,078	2,015	129
	Franklin County	1,189	3,084,664	43	485	3,368	213	269	3,424	975	62
	Hampden County	2,466	6,396,038	89	1,006	6,984	441	559	7,100	2,021	129
	Hampshire County	1,681	4,359,716	60	686	4,760	301	381	4,839	1,378	88
	Middlesex County	4,355	11,295,582	157	1,776	12,334	779	987	12,538	3,569	228
	Nantucket County	100	206,104	3	32	225	14	18	229	65	4
	Norfolk County	2,345	4,815,067	67	757	5,258	332	421	5,345	1,522	97
	Plymouth County	1,840	3,779,042	52	594	4,126	261	330	4,195	1,194	76
	Suffolk County	138	283,891	4	45	310	20	25	315	90	6
	Worcester County	4,536	11,764,428	163	1,850	12,846	812	1,028	13,059	3,718	238
	Total Massachusetts	27,185	64,309,247	892	10,113	70,220	4,437	5,618	71,383	20,322	1,300
New Hampshire	Belknap County	652	1,607,540	22	253	1,755	111	140	1,784	508	33
	Carroll County	767	1,892,028	26	298	2,066	131	165	2,100	598	38
	Cheshire County	1,191	2,937,598	41	462	3,208	203	257	3,261	928	59
	Coos County	460	1,134,927	16	178	1,239	78	99	1,260	359	23
	Grafton County	1,364	3,364,791	47	529	3,674	232	294	3,735	1,063	68
	Hillsborough County	2,874	7,090,032	98	1,115	7,742	489	619	7,870	2,240	143
	Merrimack County	1,419	3,499,766	49	550	3,821	241	306	3,885	1,106	71
	Rockingham County	2,098	5,175,738	72	814	5,651	357	452	5,745	1,636	105
	Strafford County	996	2,455,834	34	386	2,682	169	215	2,726	776	50
	Sullivan County	701	1,728,941	24	272	1,888	119	151	1,919	546	35
	Total New Hampshire	12,521	30,887,196	428	4,857	33,726	2,131	2,698	34,285	9,760	625
New Jersey	Atlantic County	1,056	958,684	13	151	1,047	66	84	1,064	303	19
	Bergen County	3,128	6,061,584	84	953	6,619	418	530	6,728	1,915	123
	Burlington County	1,509	1,369,506	19	215	1,495	94	120	1,520	433	28
	Camden County	2,551	2,316,108	32	364	2,529	160	202	2,571	732	47
	Cape May County	672	609,654	8	96	666	42	53	677	193	12
	Cumberland County	641	581,475	8	91	635	40	51	645	184	12
	Essex County	1,119	2,169,082	30	341	2,368	150	190	2,408	685	44
	Gloucester County	870	789,674	11	124	862	54	69	877	250	16
	Hudson County	136	264,384	4	42	289	18	23	293	84	5

State	County	Total certified non-catalytic cordwood heaters	Total dry mass of cordwood burned by certified non-catalytic cordwood heaters (kg/yr)	7-PAH (kg/yr)	16-PAH (kg/yr)	Benzo(a)pyrene (g/yr)	Naphthalene (kg/yr)	1,3-Butadiene (kg/yr)	Formaldehyde (kg/yr)	Acetaldehyde (kg/yr)	Acrolein (kg/yr)
	Hunterdon County	567	1,099,176	15	173	1,200	76	96	1,220	347	22
	Mercer County	1,081	981,062	14	154	1,071	68	86	1,089	310	20
	Middlesex County	2,140	1,942,442	27	305	2,121	134	170	2,156	614	39
	Monmouth County	1,970	1,788,493	25	281	1,953	123	156	1,985	565	36
	Morris County	1,195	2,316,177	32	364	2,529	160	202	2,571	732	47
	Ocean County	2,071	1,879,797	26	296	2,053	130	164	2,087	594	38
	Passaic County	1,198	2,322,189	32	365	2,536	160	203	2,578	734	47
	Salem County	403	366,264	5	58	400	25	32	407	116	7
	Somerset County	720	1,394,646	19	219	1,523	96	122	1,548	441	28
	Sussex County	831	1,611,263	22	253	1,759	111	141	1,789	509	33
	Union County	1,224	2,371,735	33	373	2,590	164	207	2,633	749	48
	Warren County	656	1,271,750	18	200	1,389	88	111	1,412	402	26
	Total New Jersey	25,739	34,465,145	478	5,420	37,633	2,378	3,011	38,256	10,891	697
New York	Albany County	1,471	3,844,361	53	605	4,198	265	336	4,267	1,215	78
	Allegany County	880	2,299,983	32	362	2,511	159	201	2,553	727	47
	Bronx County	277	268,339	4	42	293	19	23	298	85	5
	Broome County	1,712	4,473,610	62	703	4,885	309	391	4,966	1,414	90
	Cattaraugus County	1,397	3,652,300	51	574	3,988	252	319	4,054	1,154	74
	Cayuga County	1,060	2,771,188	38	436	3,026	191	242	3,076	876	56
	Chautauqua County	1,848	4,831,588	67	760	5,276	333	422	5,363	1,527	98
	Chemung County	1,003	2,620,778	36	412	2,862	181	229	2,909	828	53
	Chenango County	865	2,261,286	31	356	2,469	156	198	2,510	715	46
	Clinton County	805	2,104,187	29	331	2,298	145	184	2,336	665	43
	Columbia County	625	1,634,406	23	257	1,785	113	143	1,814	516	33
	Cortland County	632	1,653,007	23	260	1,805	114	144	1,835	522	33
	Delaware County	923	2,412,413	33	379	2,634	166	211	2,678	762	49
	Dutchess County	1,320	3,449,416	48	542	3,766	238	301	3,829	1,090	70
	Erie County	6,401	16,730,474	232	2,631	18,268	1,154	1,462	18,571	5,287	338
	Essex County	531	1,387,309	19	218	1,515	96	121	1,540	438	28
	Franklin County	738	1,928,921	27	303	2,106	133	169	2,141	610	39
	Fulton County	682	1,783,535	25	280	1,947	123	156	1,980	564	36

State	County	Total certified non-catalytic cordwood heaters	Total dry mass of cordwood burned by certified non-catalytic cordwood heaters (kg/yr)	7-PAH (kg/yr)	16-PAH (kg/yr)	Benzo(a)pyrene (g/yr)	Naphthalene (kg/yr)	1,3-Butadiene (kg/yr)	Formaldehyde (kg/yr)	Acetaldehyde (kg/yr)	Acrolein (kg/yr)
	Genesee County	541	1,415,144	20	223	1,545	98	124	1,571	447	29
	Greene County	540	1,411,291	20	222	1,541	97	123	1,567	446	29
	Hamilton County	133	347,352	5	55	379	24	30	386	110	7
	Herkimer County	959	2,507,093	35	394	2,738	173	219	2,783	792	51
	Jefferson County	1,205	3,148,719	44	495	3,438	217	275	3,495	995	64
	Kings County	524	508,037	7	80	555	35	44	564	161	10
	Lewis County	852	2,225,796	31	350	2,430	154	194	2,471	703	45
	Livingston County	718	1,877,122	26	295	2,050	130	164	2,084	593	38
	Madison County	922	2,410,076	33	379	2,632	166	211	2,675	762	49
	Monroe County	3,802	9,937,692	138	1,563	10,851	686	868	11,031	3,140	201
	Montgomery County	595	1,554,268	22	244	1,697	107	136	1,725	491	31
	Nassau County	505	489,338	7	77	534	34	43	543	155	10
	New York County	454	440,190	6	69	481	30	38	489	139	9
	Niagara County	1,381	3,610,461	50	568	3,942	249	315	4,008	1,141	73
	Oneida County	2,180	5,699,059	79	896	6,223	393	498	6,326	1,801	115
	Onondaga County	2,403	6,282,054	87	988	6,859	433	549	6,973	1,985	127
	Ontario County	1,578	4,123,577	57	648	4,503	285	360	4,577	1,303	83
	Orange County	1,004	2,624,169	36	413	2,865	181	229	2,913	829	53
	Orleans County	445	1,164,144	16	183	1,271	80	102	1,292	368	24
	Oswego County	1,634	4,270,816	59	672	4,663	295	373	4,741	1,350	86
	Otsego County	961	2,512,580	35	395	2,744	173	220	2,789	794	51
	Putnam County	464	1,213,372	17	191	1,325	84	106	1,347	383	25
	Queens County	460	445,472	6	70	486	31	39	494	141	9
	Rensselaer County	1,631	4,263,148	59	670	4,655	294	372	4,732	1,347	86
	Richmond County	96	92,832	1	15	101	6	8	103	29	2
	Rockland County	370	966,395	13	152	1,055	67	84	1,073	305	20
	St. Lawrence County	1,584	4,140,963	57	651	4,522	286	362	4,596	1,309	84
	Saratoga County	2,163	5,653,825	78	889	6,174	390	494	6,276	1,787	114
	Schenectady County	888	2,322,001	32	365	2,535	160	203	2,577	734	47
	Schoharie County	655	1,711,216	24	269	1,869	118	150	1,899	541	35
	Schuyler County	314	821,438	11	129	897	57	72	912	260	17

State	County	Total certified non-catalytic cordwood heaters	Total dry mass of cordwood burned by certified non-catalytic cordwood heaters (kg/yr)	7-PAH (kg/yr)	16-PAH (kg/yr)	Benzo(a)pyrene (g/yr)	Naphthalene (kg/yr)	1,3-Butadiene (kg/yr)	Formaldehyde (kg/yr)	Acetaldehyde (kg/yr)	Acrolein (kg/yr)
	Seneca County	283	738,702	10	116	807	51	65	820	233	15
	Steuben County	1,488	3,888,749	54	612	4,246	268	340	4,317	1,229	79
	Suffolk County	4,579	4,438,373	62	698	4,846	306	388	4,927	1,403	90
	Sullivan County	751	1,963,345	27	309	2,144	135	172	2,179	620	40
	Tioga County	877	2,292,269	32	360	2,503	158	200	2,544	724	46
	Tompkins County	1,114	2,910,773	40	458	3,178	201	254	3,231	920	59
	Ulster County	1,491	3,897,584	54	613	4,256	269	341	4,326	1,232	79
	Warren County	1,007	2,631,067	36	414	2,873	182	230	2,920	831	53
	Washington County	1,211	3,164,411	44	498	3,455	218	276	3,512	1,000	64
	Wayne County	1,088	2,843,729	39	447	3,105	196	248	3,157	899	57
	Westchester County	2,887	7,547,250	105	1,187	8,241	521	659	8,377	2,385	153
	Wyoming County	589	1,539,425	21	242	1,681	106	134	1,709	486	31
	Yates County	353	923,251	13	145	1,008	64	81	1,025	292	19
	Total New York	72,848	179,075,670	2,484	28,160	195,536	12,356	15,645	198,774	56,588	3,621
Pennsylvania	Adams County	1,061	2,228,162	31	350	2,433	154	195	2,473	704	45
	Allegheny County	4,730	9,929,679	138	1,561	10,842	685	868	11,022	3,138	201
	Armstrong County	479	1,006,351	14	158	1,099	69	88	1,117	318	20
	Beaver County	1,063	2,231,564	31	351	2,437	154	195	2,477	705	45
	Bedford County	890	1,868,778	26	294	2,041	129	163	2,074	591	38
	Berks County	1,954	1,921,321	27	302	2,098	133	168	2,133	607	39
	Blair County	980	2,056,721	29	323	2,246	142	180	2,283	650	42
	Bradford County	1,008	2,673,678	37	420	2,919	184	234	2,968	845	54
	Bucks County	2,265	2,227,191	31	350	2,432	154	195	2,472	704	45
	Butler County	1,137	2,387,143	33	375	2,607	165	209	2,650	754	48
	Cambria County	826	1,732,900	24	273	1,892	120	151	1,924	548	35
	Cameron County	87	230,544	3	36	252	16	20	256	73	5
	Carbon County	388	815,500	11	128	890	56	71	905	258	16
	Centre County	1,272	3,372,293	47	530	3,682	233	295	3,743	1,066	68
	Chester County	1,796	1,765,956	24	278	1,928	122	154	1,960	558	36
	Clarion County	361	957,107	13	151	1,045	66	84	1,062	302	19
	Clearfield County	551	1,461,927	20	230	1,596	101	128	1,623	462	30

State	County	Total certified non-catalytic cordwood heaters	Total dry mass of cordwood burned by certified non-catalytic cordwood heaters (kg/yr)	7-PAH (kg/yr)	16-PAH (kg/yr)	Benzo(a)pyrene (g/yr)	Naphthalene (kg/yr)	1,3-Butadiene (kg/yr)	Formaldehyde (kg/yr)	Acetaldehyde (kg/yr)	Acrolein (kg/yr)
	Clinton County	408	1,081,080	15	170	1,180	75	94	1,200	342	22
	Columbia County	606	1,271,081	18	200	1,388	88	111	1,411	402	26
	Crawford County	1,395	3,699,237	51	582	4,039	255	323	4,106	1,169	75
	Cumberland County	1,629	3,419,549	47	538	3,734	236	299	3,796	1,081	69
	Dauphin County	1,148	1,129,172	16	178	1,233	78	99	1,253	357	23
	Delaware County	1,540	1,514,281	21	238	1,653	104	132	1,681	479	31
	Elk County	332	880,906	12	139	962	61	77	978	278	18
	Erie County	1,890	5,012,160	70	788	5,473	346	438	5,563	1,584	101
	Fayette County	989	2,075,522	29	326	2,266	143	181	2,304	656	42
	Forest County	106	281,625	4	44	308	19	25	313	89	6
	Franklin County	1,511	3,171,049	44	499	3,463	219	277	3,520	1,002	64
	Fulton County	394	827,606	11	130	904	57	72	919	262	17
	Greene County	340	713,627	10	112	779	49	62	792	226	14
	Huntingdon County	764	1,603,933	22	252	1,751	111	140	1,780	507	32
	Indiana County	696	1,461,343	20	230	1,596	101	128	1,622	462	30
	Jefferson County	402	844,901	12	133	923	58	74	938	267	17
	Juniata County	479	1,006,243	14	158	1,099	69	88	1,117	318	20
	Lackawanna County	1,058	2,804,886	39	441	3,063	194	245	3,113	886	57
	Lancaster County	3,011	2,960,632	41	466	3,233	204	259	3,286	936	60
	Lawrence County	628	1,317,888	18	207	1,439	91	115	1,463	416	27
	Lebanon County	790	777,203	11	122	849	54	68	863	246	16
	Lehigh County	1,448	3,039,793	42	478	3,319	210	266	3,374	961	61
	Luzerne County	1,328	3,520,033	49	554	3,844	243	308	3,907	1,112	71
	Lycoming County	1,439	3,020,030	42	475	3,298	208	264	3,352	954	61
	McKean County	492	1,303,673	18	205	1,424	90	114	1,447	412	26
	Mercer County	1,090	2,889,655	40	454	3,155	199	252	3,208	913	58
	Mifflin County	810	1,699,510	24	267	1,856	117	148	1,886	537	34
	Monroe County	1,172	3,107,568	43	489	3,393	214	271	3,449	982	63
	Montgomery County	5,855	5,757,464	80	905	6,287	397	503	6,391	1,819	116
	Montour County	160	336,876	5	53	368	23	29	374	106	7
	Northampton County	1,205	2,529,704	35	398	2,762	175	221	2,808	799	51

State	County	Total certified non-catalytic cordwood heaters	Total dry mass of cordwood burned by certified non-catalytic cordwood heaters (kg/yr)	7-PAH (kg/yr)	16-PAH (kg/yr)	Benzo(a)pyrene (g/yr)	Naphthalene (kg/yr)	1,3-Butadiene (kg/yr)	Formaldehyde (kg/yr)	Acetaldehyde (kg/yr)	Acrolein (kg/yr)
	Northumberland County	642	1,346,935	19	212	1,471	93	118	1,495	426	27
	Perry County	835	1,752,590	24	276	1,914	121	153	1,945	554	35
	Philadelphia County	1,661	1,632,830	23	257	1,783	113	143	1,812	516	33
	Pike County	745	1,975,247	27	311	2,157	136	173	2,193	624	40
	Potter County	354	939,102	13	148	1,025	65	82	1,042	297	19
	Schuylkill County	683	1,433,360	20	225	1,565	99	125	1,591	453	29
	Snyder County	484	1,016,222	14	160	1,110	70	89	1,128	321	21
	Somerset County	790	1,658,073	23	261	1,810	114	145	1,840	524	34
	Sullivan County	135	357,008	5	56	390	25	31	396	113	7
	Susquehanna County	773	2,048,610	28	322	2,237	141	179	2,274	647	41
	Tioga County	751	1,990,460	28	313	2,173	137	174	2,209	629	40
	Union County	387	811,375	11	128	886	56	71	901	256	16
	Venango County	727	1,928,390	27	303	2,106	133	168	2,141	609	39
	Warren County	732	1,940,113	27	305	2,118	134	169	2,154	613	39
	Washington County	1,336	2,804,902	39	441	3,063	194	245	3,113	886	57
	Wayne County	681	1,806,547	25	284	1,973	125	158	2,005	571	37
	Westmoreland County	3,702	7,770,900	108	1,222	8,485	536	679	8,626	2,456	157
	Wyoming County	446	1,182,206	16	186	1,291	82	103	1,312	374	24
	York County	2,897	6,080,876	84	956	6,640	420	531	6,750	1,922	123
	Total Pennsylvania	74,723	144,400,789	2,003	22,707	157,674	9,963	12,616	160,285	45,631	2,920
Rhode Island	Bristol County	338	727,951	10	114	795	50	64	808	230	15
	Kent County	1,117	2,404,621	33	378	2,626	166	210	2,669	760	49
	Newport County	582	1,253,466	17	197	1,369	86	110	1,391	396	25
	Providence County	2,524	5,430,655	75	854	5,930	375	474	6,028	1,716	110
	Washington County	1,034	2,224,202	31	350	2,429	153	194	2,469	703	45
	Total Rhode Island	5,595	12,040,895	167	1,893	13,148	831	1,052	13,365	3,805	243
District of Columbia	District of Columbia	492	450,326	6	71	492	31	39	500	142	9
	Total D.C.	492	450,326	6	71	492	31	39	500	142	9
Vermont	Addison County	808	2,053,683	28	323	2,242	142	179	2,280	649	42
	Bennington County	617	1,569,418	22	247	1,714	108	137	1,742	496	32
	Caledonia County	773	1,965,500	27	309	2,146	136	172	2,182	621	40

State	County	Total certified non-catalytic cordwood heaters	Total dry mass of cordwood burned by certified non-catalytic cordwood heaters (kg/yr)	7-PAH (kg/yr)	16-PAH (kg/yr)	Benzo(a)pyrene (g/yr)	Naphthalene (kg/yr)	1,3-Butadiene (kg/yr)	Formaldehyde (kg/yr)	Acetaldehyde (kg/yr)	Acrolein (kg/yr)
	Chittenden County	1,724	4,383,194	61	689	4,786	302	383	4,865	1,385	89
	Essex County	174	441,998	6	70	483	30	39	491	140	9
	Franklin County	768	1,952,423	27	307	2,132	135	171	2,167	617	39
	Grand Isle County	201	511,668	7	80	559	35	45	568	162	10
	Lamoille County	566	1,438,933	20	226	1,571	99	126	1,597	455	29
	Orange County	823	2,090,771	29	329	2,283	144	183	2,321	661	42
	Orleans County	854	2,171,516	30	341	2,371	150	190	2,410	686	44
	Rutland County	1,164	2,959,954	41	465	3,232	204	259	3,286	935	60
	Washington County	1,256	3,192,530	44	502	3,486	220	279	3,544	1,009	65
	Windham County	1,254	3,188,131	44	501	3,481	220	279	3,539	1,007	64
	Windsor County	1,305	3,316,519	46	522	3,621	229	290	3,681	1,048	67
	Total Vermont	12,289	31,236,238	433	4,912	34,107	2,155	2,729	34,672	9,871	632
	Total MANE-VU	306,241	617,526,985	8,565	97,107	674,288	42,608	53,950	685,455	195,139	12,486

HDD Range	HDD	Total certified non-catalytic cordwood heaters	Total dry mass of cordwood burned by certified non-catalytic cordwood heaters (kg/yr)	7-PAH (kg/yr)	16-PAH (kg/yr)	Benzo(a)pyrene (g/yr)	Naphthalene (kg/yr)	1,3-Butadiene (kg/yr)	Formaldehyde (kg/yr)	Acetaldehyde (kg/yr)	Acrolein (kg/yr)
> 6500	High	147,602	377,162,730	5,231	59,309	411,830	26,023	32,951	418,651	119,183	7,626
5500-6499	Med.	80,413	167,159,142	2,318	26,286	182,524	11,534	14,604	185,547	52,822	3,380
< 5499	Low	78,226	73,205,113	1,015	11,512	79,934	5,051	6,396	81,258	23,133	1,480

Section 3.1.2

Table 3.1.2

Emission Inventory for Certified Non-Catalytic Cordwood Heaters (2002 Base Year)

Section 3

State	County	Total certified non-catalytic cordwood heaters	Total dry mass of cordwood burned by certified non-catalytic cordwood heaters (kg/yr)	Cresols (kg/yr)	PCB _{TEQ} (ng/yr)	Dioxin _{TEQ} (ug/yr)	Methane (kg/yr)	VOC (kg/yr)
Connecticut	Fairfield County	2,721	5,849,169	1,351	8,189	2,322	83,176	58,979
	Hartford County	4,718	10,143,074	2,342	14,200	4,027	144,236	102,277
	Litchfield County	1,435	3,896,731	900	5,455	1,547	55,412	39,292
	Middlesex County	1,081	2,323,151	536	3,252	922	33,035	23,425
	New Haven County	3,287	7,067,512	1,632	9,895	2,806	100,501	71,265
	New London County	1,539	3,309,278	764	4,633	1,314	47,058	33,369
	Tolland County	1,190	3,230,803	746	4,523	1,283	45,942	32,577
	Windham County	1,214	3,296,940	761	4,616	1,309	46,883	33,244
	Total Connecticut		17,185	39,116,659	9,033	54,763	15,529	556,244
Delaware	Kent County	925	842,442	195	1,179	334	11,980	8,495
	New Castle County	1,854	1,688,201	390	2,363	670	24,006	17,023
	Sussex County	1,202	1,094,267	253	1,532	434	15,561	11,034
Total Delaware		3,980	3,624,910	837	5,075	1,439	51,547	36,551
Maine	Androscoggin County	1,480	3,350,639	774	4,691	1,330	47,646	33,786
	Aroostook County	1,255	2,839,801	656	3,976	1,127	40,382	28,635
	Cumberland County	2,372	5,367,617	1,239	7,515	2,131	76,328	54,124
	Franklin County	662	1,498,403	346	2,098	595	21,307	15,109
	Hancock County	1,104	2,499,039	577	3,499	992	35,537	25,199
	Kennebec County	1,770	4,005,160	925	5,607	1,590	56,954	40,386
	Knox County	802	1,814,364	419	2,540	720	25,800	18,295
	Lincoln County	699	1,581,413	365	2,214	628	22,488	15,946
	Oxford County	1,129	2,554,411	590	3,576	1,014	36,324	25,757
	Penobscot County	2,021	4,573,145	1,056	6,402	1,816	65,031	46,113
	Piscataquis County	392	886,208	205	1,241	352	12,602	8,936
	Sagadahoc County	664	1,502,779	347	2,104	597	21,370	15,153
	Somerset County	1,005	2,275,350	525	3,185	903	32,356	22,943
Waldo County	927	2,098,540	485	2,938	833	29,841	21,160	
Washington County	578	1,308,212	302	1,831	519	18,603	13,191	

State	County	Total certified non-catalytic cordwood heaters	Total dry mass of cordwood burned by certified non-catalytic cordwood heaters (kg/yr)	Cresols (kg/yr)	PCB _{TED} (ng/yr)	Dioxin _{TED} (ug/yr)	Methane (kg/yr)	VOC (kg/yr)
	York County	1,920	4,345,232	1,003	6,083	1,725	61,790	43,815
	Total Maine	18,777	42,500,312	9,814	59,500	16,873	604,359	428,548
Maryland	Allegany County	1,045	2,042,675	472	2,860	811	29,047	20,597
	Anne Arundel County	4,829	4,420,368	1,021	6,189	1,755	62,858	44,572
	Baltimore County	4,949	4,529,895	1,046	6,342	1,798	64,416	45,677
	Calvert County	736	673,971	156	944	268	9,584	6,796
	Caroline County	303	277,328	64	388	110	3,944	2,796
	Carroll County	1,306	1,195,091	276	1,673	474	16,994	12,051
	Cecil County	715	654,487	151	916	260	9,307	6,599
	Charles County	822	752,730	174	1,054	299	10,704	7,590
	Dorchester County	195	178,511	41	250	71	2,538	1,800
	Frederick County	1,626	1,488,540	344	2,084	591	21,167	15,010
	Garrett County	620	1,531,532	354	2,144	608	21,779	15,443
	Harford County	1,423	1,302,677	301	1,824	517	18,524	13,135
	Howard County	1,120	1,025,275	237	1,435	407	14,580	10,338
	Kent County	165	150,588	35	211	60	2,141	1,518
	Montgomery County	3,624	3,317,274	766	4,644	1,317	47,172	33,449
	Prince George's County	5,936	5,433,947	1,255	7,608	2,157	77,271	54,793
	Queen Anne's County	383	350,736	81	491	139	4,988	3,537
	St. Mary's County	1,999	1,830,272	423	2,562	727	26,027	18,455
	Somerset County	197	180,295	42	252	72	2,564	1,818
	Talbot County	279	255,304	59	357	101	3,630	2,574
	Washington County	1,365	2,667,303	616	3,734	1,059	37,929	26,895
	Wicomico County	633	579,888	134	812	230	8,246	5,847
	Worcester County	394	360,343	83	504	143	5,124	3,633
	Baltimore city	241	220,569	51	309	88	3,137	2,224
	Total Maryland	34,906	35,419,598	8,179	49,587	14,062	503,671	357,150
Massachusetts	Barnstable County	1,567	3,217,825	743	4,505	1,277	45,758	32,447
	Berkshire County	1,483	3,845,405	888	5,384	1,527	54,682	38,775
	Bristol County	2,186	4,487,777	1,036	6,283	1,782	63,817	45,252
	Dukes County	193	396,772	92	555	158	5,642	4,001

State	County	Total certified non-catalytic cordwood heaters	Total dry mass of cordwood burned by certified non-catalytic cordwood heaters (kg/yr)	Cresols (kg/yr)	PCB _{TED} (ng/yr)	Dioxin _{TED} (ug/yr)	Methane (kg/yr)	VOC (kg/yr)
	Essex County	3,106	6,376,937	1,473	8,928	2,532	90,681	64,301
	Franklin County	1,189	3,084,664	712	4,319	1,225	43,864	31,104
	Hampden County	2,466	6,396,038	1,477	8,954	2,539	90,952	64,494
	Hampshire County	1,681	4,359,716	1,007	6,104	1,731	61,996	43,961
	Middlesex County	4,355	11,295,582	2,608	15,814	4,484	160,625	113,898
	Nantucket County	100	206,104	48	289	82	2,931	2,078
	Norfolk County	2,345	4,815,067	1,112	6,741	1,912	68,471	48,552
	Plymouth County	1,840	3,779,042	873	5,291	1,500	53,738	38,106
	Suffolk County	138	283,891	66	397	113	4,037	2,863
	Worcester County	4,536	11,764,428	2,717	16,470	4,670	167,292	118,625
	Total Massachusetts	27,185	64,309,247	14,850	90,033	25,531	914,485	648,456
New Hampshire	Belknap County	652	1,607,540	371	2,251	638	22,859	16,209
	Carroll County	767	1,892,028	437	2,649	751	26,905	19,078
	Cheshire County	1,191	2,937,598	678	4,113	1,166	41,773	29,621
	Coos County	460	1,134,927	262	1,589	451	16,139	11,444
	Grafton County	1,364	3,364,791	777	4,711	1,336	47,848	33,929
	Hillsborough County	2,874	7,090,032	1,637	9,926	2,815	100,821	71,492
	Merrimack County	1,419	3,499,766	808	4,900	1,389	49,767	35,290
	Rockingham County	2,098	5,175,738	1,195	7,246	2,055	73,600	52,189
	Strafford County	996	2,455,834	567	3,438	975	34,922	24,763
	Sullivan County	701	1,728,941	399	2,421	686	24,586	17,434
	Total New Hampshire	12,521	30,887,196	7,132	43,242	12,262	439,220	311,448
New Jersey	Atlantic County	1,056	958,684	221	1,342	381	13,633	9,667
	Bergen County	3,128	6,061,584	1,400	8,486	2,406	86,196	61,121
	Burlington County	1,509	1,369,506	316	1,917	544	19,475	13,809
	Camden County	2,551	2,316,108	535	3,243	919	32,935	23,354
	Cape May County	672	609,654	141	854	242	8,669	6,147
	Cumberland County	641	581,475	134	814	231	8,269	5,863
	Essex County	1,119	2,169,082	501	3,037	861	30,845	21,872
	Gloucester County	870	789,674	182	1,106	314	11,229	7,963
	Hudson County	136	264,384	61	370	105	3,760	2,666

State	County	Total certified non-catalytic cordwood heaters	Total dry mass of cordwood burned by certified non-catalytic cordwood heaters (kg/yr)	Cresols (kg/yr)	PCB _{TED} (ng/yr)	Dioxin _{TED} (ug/yr)	Methane (kg/yr)	VOC (kg/yr)
	Hunterdon County	567	1,099,176	254	1,539	436	15,630	11,083
	Mercer County	1,081	981,062	227	1,373	389	13,951	9,892
	Middlesex County	2,140	1,942,442	449	2,719	771	27,622	19,586
	Monmouth County	1,970	1,788,493	413	2,504	710	25,433	18,034
	Morris County	1,195	2,316,177	535	3,243	920	32,936	23,355
	Ocean County	2,071	1,879,797	434	2,632	746	26,731	18,955
	Passaic County	1,198	2,322,189	536	3,251	922	33,022	23,416
	Salem County	403	366,264	85	513	145	5,208	3,693
	Somerset County	720	1,394,646	322	1,953	554	19,832	14,063
	Sussex County	831	1,611,263	372	2,256	640	22,912	16,247
	Union County	1,224	2,371,735	548	3,320	942	33,726	23,915
	Warren County	656	1,271,750	294	1,780	505	18,084	12,824
	Total New Jersey	25,739	34,465,145	7,958	48,251	13,683	490,098	347,526
New York	Albany County	1,471	3,844,361	888	5,382	1,526	54,667	38,764
	Allegany County	880	2,299,983	531	3,220	913	32,706	23,192
	Bronx County	277	268,339	62	376	107	3,816	2,706
	Broome County	1,712	4,473,610	1,033	6,263	1,776	63,615	45,109
	Cattaraugus County	1,397	3,652,300	843	5,113	1,450	51,936	36,828
	Cayuga County	1,060	2,771,188	640	3,880	1,100	39,407	27,943
	Chautauqua County	1,848	4,831,588	1,116	6,764	1,918	68,706	48,719
	Chemung County	1,003	2,620,778	605	3,669	1,040	37,268	26,426
	Chenango County	865	2,261,286	522	3,166	898	32,156	22,801
	Clinton County	805	2,104,187	486	2,946	835	29,922	21,217
	Columbia County	625	1,634,406	377	2,288	649	23,241	16,480
	Cortland County	632	1,653,007	382	2,314	656	23,506	16,668
	Delaware County	923	2,412,413	557	3,377	958	34,305	24,325
	Dutchess County	1,320	3,449,416	797	4,829	1,369	49,051	34,782
	Erie County	6,401	16,730,474	3,863	23,423	6,642	237,909	168,700
	Essex County	531	1,387,309	320	1,942	551	19,728	13,989
	Franklin County	738	1,928,921	445	2,700	766	27,429	19,450
	Fulton County	682	1,783,535	412	2,497	708	25,362	17,984

State	County	Total certified non-catalytic cordwood heaters	Total dry mass of cordwood burned by certified non-catalytic cordwood heaters (kg/yr)	Cresols (kg/yr)	PCB _{TED} (ng/yr)	Dioxin _{TED} (ug/yr)	Methane (kg/yr)	VOC (kg/yr)
	Genesee County	541	1,415,144	327	1,981	562	20,124	14,269
	Greene County	540	1,411,291	326	1,976	560	20,069	14,231
	Hamilton County	133	347,352	80	486	138	4,939	3,502
	Herkimer County	959	2,507,093	579	3,510	995	35,651	25,280
	Jefferson County	1,205	3,148,719	727	4,408	1,250	44,775	31,750
	Kings County	524	508,037	117	711	202	7,224	5,123
	Lewis County	852	2,225,796	514	3,116	884	31,651	22,444
	Livingston County	718	1,877,122	433	2,628	745	26,693	18,928
	Madison County	922	2,410,076	557	3,374	957	34,272	24,302
	Monroe County	3,802	9,937,692	2,295	13,913	3,945	141,315	100,206
	Montgomery County	595	1,554,268	359	2,176	617	22,102	15,672
	Nassau County	505	489,338	113	685	194	6,958	4,934
	New York County	454	440,190	102	616	175	6,260	4,439
	Niagara County	1,381	3,610,461	834	5,055	1,433	51,341	36,406
	Oneida County	2,180	5,699,059	1,316	7,979	2,263	81,041	57,466
	Onondaga County	2,403	6,282,054	1,451	8,795	2,494	89,332	63,344
	Ontario County	1,578	4,123,577	952	5,773	1,637	58,638	41,580
	Orange County	1,004	2,624,169	606	3,674	1,042	37,316	26,461
	Orleans County	445	1,164,144	269	1,630	462	16,554	11,739
	Oswego County	1,634	4,270,816	986	5,979	1,696	60,732	43,064
	Otsego County	961	2,512,580	580	3,518	997	35,729	25,335
	Putnam County	464	1,213,372	280	1,699	482	17,254	12,235
	Queens County	460	445,472	103	624	177	6,335	4,492
	Rensselaer County	1,631	4,263,148	984	5,968	1,692	60,622	42,987
	Richmond County	96	92,832	21	130	37	1,320	936
	Rockland County	370	966,395	223	1,353	384	13,742	9,745
	St. Lawrence County	1,584	4,140,963	956	5,797	1,644	58,885	41,755
	Saratoga County	2,163	5,653,825	1,306	7,915	2,245	80,398	57,010
	Schenectady County	888	2,322,001	536	3,251	922	33,019	23,414
	Schoharie County	655	1,711,216	395	2,396	679	24,334	17,255
	Schuyler County	314	821,438	190	1,150	326	11,681	8,283

State	County	Total certified non-catalytic cordwood heaters	Total dry mass of cordwood burned by certified non-catalytic cordwood heaters (kg/yr)	Cresols (kg/yr)	PCB _{TED} (ng/yr)	Dioxin _{TED} (ug/yr)	Methane (kg/yr)	VOC (kg/yr)
	Seneca County	283	738,702	171	1,034	293	10,504	7,449
	Steuben County	1,488	3,888,749	898	5,444	1,544	55,298	39,212
	Suffolk County	4,579	4,438,373	1,025	6,214	1,762	63,114	44,754
	Sullivan County	751	1,963,345	453	2,749	779	27,919	19,797
	Tioga County	877	2,292,269	529	3,209	910	32,596	23,114
	Tompkins County	1,114	2,910,773	672	4,075	1,156	41,392	29,350
	Ulster County	1,491	3,897,584	900	5,457	1,547	55,424	39,301
	Warren County	1,007	2,631,067	608	3,683	1,045	37,414	26,530
	Washington County	1,211	3,164,411	731	4,430	1,256	44,998	31,908
	Wayne County	1,088	2,843,729	657	3,981	1,129	40,438	28,674
	Westchester County	2,887	7,547,250	1,743	10,566	2,996	107,323	76,102
	Wyoming County	589	1,539,425	355	2,155	611	21,891	15,523
	Yates County	353	923,251	213	1,293	367	13,129	9,310
Total New York		72,848	179,075,670	41,351	250,706	71,093	2,546,477	1,805,691
Pennsylvania	Adams County	1,061	2,228,162	515	3,119	885	31,685	22,467
	Allegheny County	4,730	9,929,679	2,293	13,902	3,942	141,201	100,125
	Armstrong County	479	1,006,351	232	1,409	400	14,310	10,147
	Beaver County	1,063	2,231,564	515	3,124	886	31,733	22,502
	Bedford County	890	1,868,778	432	2,616	742	26,574	18,844
	Berks County	1,954	1,921,321	444	2,690	763	27,321	19,373
	Blair County	980	2,056,721	475	2,879	817	29,247	20,739
	Bradford County	1,008	2,673,678	617	3,743	1,061	38,020	26,960
	Bucks County	2,265	2,227,191	514	3,118	884	31,671	22,458
	Butler County	1,137	2,387,143	551	3,342	948	33,945	24,071
	Cambria County	826	1,732,900	400	2,426	688	24,642	17,474
	Cameron County	87	230,544	53	323	92	3,278	2,325
	Carbon County	388	815,500	188	1,142	324	11,597	8,223
	Centre County	1,272	3,372,293	779	4,721	1,339	47,954	34,004
	Chester County	1,796	1,765,956	408	2,472	701	25,112	17,807
	Clarion County	361	957,107	221	1,340	380	13,610	9,651
	Clearfield County	551	1,461,927	338	2,047	580	20,789	14,741

State	County	Total certified non-catalytic cordwood heaters	Total dry mass of cordwood burned by certified non-catalytic cordwood heaters (kg/yr)	Cresols (kg/yr)	PCB _{TED} (ng/yr)	Dioxin _{TED} (ug/yr)	Methane (kg/yr)	VOC (kg/yr)
	Clinton County	408	1,081,080	250	1,514	429	15,373	10,901
	Columbia County	606	1,271,081	294	1,780	505	18,075	12,817
	Crawford County	1,395	3,699,237	854	5,179	1,469	52,604	37,301
	Cumberland County	1,629	3,419,549	790	4,787	1,358	48,626	34,481
	Dauphin County	1,148	1,129,172	261	1,581	448	16,057	11,386
	Delaware County	1,540	1,514,281	350	2,120	601	21,533	15,269
	Elk County	332	880,906	203	1,233	350	12,527	8,883
	Erie County	1,890	5,012,160	1,157	7,017	1,990	71,274	50,540
	Fayette County	989	2,075,522	479	2,906	824	29,514	20,928
	Forest County	106	281,625	65	394	112	4,005	2,840
	Franklin County	1,511	3,171,049	732	4,439	1,259	45,093	31,975
	Fulton County	394	827,606	191	1,159	329	11,769	8,345
	Greene County	340	713,627	165	999	283	10,148	7,196
	Huntingdon County	764	1,603,933	370	2,246	637	22,808	16,173
	Indiana County	696	1,461,343	337	2,046	580	20,780	14,735
	Jefferson County	402	844,901	195	1,183	335	12,015	8,519
	Juniata County	479	1,006,243	232	1,409	399	14,309	10,146
	Lackawanna County	1,058	2,804,886	648	3,927	1,114	39,886	28,283
	Lancaster County	3,011	2,960,632	684	4,145	1,175	42,101	29,853
	Lawrence County	628	1,317,888	304	1,845	523	18,741	13,289
	Lebanon County	790	777,203	179	1,088	309	11,052	7,837
	Lehigh County	1,448	3,039,793	702	4,256	1,207	43,226	30,651
	Luzerne County	1,328	3,520,033	813	4,928	1,397	50,055	35,494
	Lycoming County	1,439	3,020,030	697	4,228	1,199	42,945	30,452
	McKean County	492	1,303,673	301	1,825	518	18,538	13,145
	Mercer County	1,090	2,889,655	667	4,046	1,147	41,091	29,138
	Mifflin County	810	1,699,510	392	2,379	675	24,167	17,137
	Monroe County	1,172	3,107,568	718	4,351	1,234	44,190	31,335
	Montgomery County	5,855	5,757,464	1,329	8,060	2,286	81,872	58,055
	Montour County	160	336,876	78	472	134	4,790	3,397
	Northampton County	1,205	2,529,704	584	3,542	1,004	35,973	25,508

State	County	Total certified non-catalytic cordwood heaters	Total dry mass of cordwood burned by certified non-catalytic cordwood heaters (kg/yr)	Cresols (kg/yr)	PCB _{TED} (ng/yr)	Dioxin _{TED} (ug/yr)	Methane (kg/yr)	VOC (kg/yr)
	Northumberland County	642	1,346,935	311	1,886	535	19,154	13,582
	Perry County	835	1,752,590	405	2,454	696	24,922	17,672
	Philadelphia County	1,661	1,632,830	377	2,286	648	23,219	16,464
	Pike County	745	1,975,247	456	2,765	784	28,088	19,917
	Potter County	354	939,102	217	1,315	373	13,354	9,469
	Schuylkill County	683	1,433,360	331	2,007	569	20,383	14,453
	Snyder County	484	1,016,222	235	1,423	403	14,451	10,247
	Somerset County	790	1,658,073	383	2,321	658	23,578	16,719
	Sullivan County	135	357,008	82	500	142	5,077	3,600
	Susquehanna County	773	2,048,610	473	2,868	813	29,131	20,657
	Tioga County	751	1,990,460	460	2,787	790	28,305	20,071
	Union County	387	811,375	187	1,136	322	11,538	8,181
	Venango County	727	1,928,390	445	2,700	766	27,422	19,445
	Warren County	732	1,940,113	448	2,716	770	27,589	19,563
	Washington County	1,336	2,804,902	648	3,927	1,114	39,886	28,283
	Wayne County	681	1,806,547	417	2,529	717	25,689	18,216
	Westmoreland County	3,702	7,770,900	1,794	10,879	3,085	110,503	78,357
	Wyoming County	446	1,182,206	273	1,655	469	16,811	11,921
	York County	2,897	6,080,876	1,404	8,513	2,414	86,471	61,316
	Total Pennsylvania	74,723	144,400,789	33,344	202,161	57,327	2,053,396	1,456,050
Rhode Island	Bristol County	338	727,951	168	1,019	289	10,352	7,340
	Kent County	1,117	2,404,621	555	3,366	955	34,194	24,247
	Newport County	582	1,253,466	289	1,755	498	17,824	12,639
	Providence County	2,524	5,430,655	1,254	7,603	2,156	77,225	54,759
	Washington County	1,034	2,224,202	514	3,114	883	31,628	22,428
	Total Rhode Island	5,595	12,040,895	2,780	16,857	4,780	171,223	121,413
District of Columbia	District of Columbia	492	450,326	104	630	179	6,404	4,541
	Total D.C.	492	450,326	104	630	179	6,404	4,541
Vermont	Addison County	808	2,053,683	474	2,875	815	29,204	20,708
	Bennington County	617	1,569,418	362	2,197	623	22,317	15,825
	Caledonia County	773	1,965,500	454	2,752	780	27,950	19,819

State	County	Total certified non-catalytic cordwood heaters	Total dry mass of cordwood burned by certified non-catalytic cordwood heaters (kg/yr)	Cresols (kg/yr)	PCB _{TEQ} (ng/yr)	Dioxin _{TEQ} (ug/yr)	Methane (kg/yr)	VOC (kg/yr)
	Chittenden County	1,724	4,383,194	1,012	6,136	1,740	62,330	44,197
	Essex County	174	441,998	102	619	175	6,285	4,457
	Franklin County	768	1,952,423	451	2,733	775	27,764	19,687
	Grand Isle County	201	511,668	118	716	203	7,276	5,159
	Lamoille County	566	1,438,933	332	2,015	571	20,462	14,509
	Orange County	823	2,090,771	483	2,927	830	29,731	21,082
	Orleans County	854	2,171,516	501	3,040	862	30,879	21,896
	Rutland County	1,164	2,959,954	683	4,144	1,175	42,091	29,846
	Washington County	1,256	3,192,530	737	4,470	1,267	45,398	32,192
	Windham County	1,254	3,188,131	736	4,463	1,266	45,336	32,147
	Windsor County	1,305	3,316,519	766	4,643	1,317	47,161	33,442
	Total Vermont	12,289	31,236,238	7,213	43,731	12,401	444,183	314,967
	Total MANE-VU	306,241	617,526,985	142,594	864,538	245,158	8,781,307	6,226,770

HDD Range	HDD	Total certified non-catalytic cordwood heaters	Total dry mass of cordwood burned by certified non-catalytic cordwood heaters (kg/yr)	Cresols (kg/yr)	PCB _{TEQ} (ng/yr)	Dioxin _{TEQ} (ug/yr)	Methane (kg/yr)	VOC (kg/yr)
> 6500	High	147,602	377,162,730	87,091	528,028	149,734	5,363,299	3,803,082
5500-6499	Med.	80,413	167,159,142	38,599	234,023	66,362	2,377,023	1,685,532
< 5499	Low	78,226	73,205,113	16,904	102,487	29,062	1,040,985	738,156

Section 3.1.3

Table 3.1.3

Emission Inventory for Certified Catalytic Cordwood Heaters (2002 Base Year)

Section 1

State	County	Total certified catalytic cordwood heaters	Total dry mass of cordwood burned by certified catalytic cordwood heaters (kg/yr)	PM _{2.5} (kg/yr)	PM ₁₀ (kg/yr)	NO _x (kg/yr) as NO ₂	CO (kg/yr)	SO ₂ (kg/yr)	NH ₃ (kg/yr)	Benzene (kg/yr)	Phenol (kg/yr)
Connecticut	Fairfield County	1,135	2,440,891	20,422	20,422	2,441	130,588	488	1,098	2,724	498
	Hartford County	1,969	4,232,761	35,414	35,414	4,233	226,453	847	1,905	4,724	864
	Litchfield County	599	1,626,128	13,605	13,605	1,626	86,998	325	732	1,815	332
	Middlesex County	451	969,464	8,111	8,111	969	51,866	194	436	1,082	198
	New Haven County	1,372	2,949,312	24,676	24,676	2,949	157,788	590	1,327	3,291	602
	New London County	642	1,380,980	11,554	11,554	1,381	73,882	276	621	1,541	282
	Tolland County	496	1,348,232	11,280	11,280	1,348	72,130	270	607	1,505	275
	Windham County	507	1,375,832	11,511	11,511	1,376	73,607	275	619	1,535	281
	Total Connecticut		7,171	16,323,600	136,574	136,574	16,324	873,313	3,265	7,346	18,217
Delaware	Kent County	386	351,556	2,941	2,941	352	18,808	70	158	392	72
	New Castle County	774	704,496	5,894	5,894	704	37,691	141	317	786	144
	Sussex County	501	456,644	3,821	3,821	457	24,430	91	205	510	93
Total Delaware		1,661	1,512,695	12,656	12,656	1,513	80,929	303	681	1,688	309
Maine	Androscoggin County	618	1,398,240	11,699	11,699	1,398	74,806	280	629	1,560	285
	Aroostook County	524	1,185,065	9,915	9,915	1,185	63,401	237	533	1,323	242
	Cumberland County	990	2,239,937	18,741	18,741	2,240	119,837	448	1,008	2,500	457
	Franklin County	276	625,292	5,232	5,232	625	33,453	125	281	698	128
	Hancock County	461	1,042,863	8,725	8,725	1,043	55,793	209	469	1,164	213
	Kennebec County	738	1,671,376	13,984	13,984	1,671	89,419	334	752	1,865	341
	Knox County	335	757,144	6,335	6,335	757	40,507	151	341	845	154
	Lincoln County	292	659,932	5,521	5,521	660	35,306	132	297	736	135
	Oxford County	471	1,065,970	8,919	8,919	1,066	57,029	213	480	1,190	217
	Penobscot County	843	1,908,399	15,967	15,967	1,908	102,099	382	859	2,130	389
	Piscataquis County	163	369,819	3,094	3,094	370	19,785	74	166	413	75
	Sagadahoc County	277	627,118	5,247	5,247	627	33,551	125	282	700	128
	Somerset County	420	949,516	7,944	7,944	950	50,799	190	427	1,060	194
Waldo County	387	875,733	7,327	7,327	876	46,852	175	394	977	179	
Washington County	241	545,924	4,568	4,568	546	29,207	109	246	609	111	

State	County	Total certified catalytic cordwood heaters	Total dry mass of cordwood burned by certified catalytic cordwood heaters (kg/yr)	PM _{2.5} (kg/yr)	PM ₁₀ (kg/yr)	NO _x (kg/yr) as NO ₂	CO (kg/yr)	SO ₂ (kg/yr)	NH ₃ (kg/yr)	Benzene (kg/yr)	Phenol (kg/yr)
	York County	801	1,813,290	15,171	15,171	1,813	97,011	363	816	2,024	370
	Total Maine	7,836	17,735,617	148,388	148,388	17,736	948,856	3,547	7,981	19,793	3,618
Maryland	Allegany County	436	852,420	7,132	7,132	852	45,604	170	384	951	174
	Anne Arundel County	2,015	1,844,644	15,434	15,434	1,845	98,688	369	830	2,059	376
	Baltimore County	2,065	1,890,350	15,816	15,816	1,890	101,134	378	851	2,110	386
	Calvert County	307	281,252	2,353	2,353	281	15,047	56	127	314	57
	Caroline County	126	115,730	968	968	116	6,192	23	52	129	24
	Carroll County	545	498,718	4,173	4,173	499	26,681	100	224	557	102
	Cecil County	298	273,121	2,285	2,285	273	14,612	55	123	305	56
	Charles County	343	314,118	2,628	2,628	314	16,805	63	141	351	64
	Dorchester County	81	74,493	623	623	74	3,985	15	34	83	15
	Frederick County	679	621,176	5,197	5,197	621	33,233	124	280	693	127
	Garrett County	259	639,117	5,347	5,347	639	34,193	128	288	713	130
	Harford County	594	543,614	4,548	4,548	544	29,083	109	245	607	111
	Howard County	467	427,853	3,580	3,580	428	22,890	86	193	477	87
	Kent County	69	62,841	526	526	63	3,362	13	28	70	13
	Montgomery County	1,512	1,384,317	11,582	11,582	1,384	74,061	277	623	1,545	282
	Prince George's County	2,477	2,267,616	18,972	18,972	2,268	121,317	454	1,020	2,531	463
	Queen Anne's County	160	146,364	1,225	1,225	146	7,830	29	66	163	30
	St. Mary's County	834	763,783	6,390	6,390	764	40,862	153	344	852	156
	Somerset County	82	75,238	629	629	75	4,025	15	34	84	15
	Talbot County	116	106,540	891	891	107	5,700	21	48	119	22
	Washington County	570	1,113,080	9,313	9,313	1,113	59,550	223	501	1,242	227
	Wicomico County	264	241,990	2,025	2,025	242	12,946	48	109	270	49
	Worcester County	164	150,373	1,258	1,258	150	8,045	30	68	168	31
	Baltimore city	101	92,045	770	770	92	4,924	18	41	103	19
	Total Maryland	14,567	14,780,796	123,666	123,666	14,781	790,773	2,956	6,651	16,495	3,015
Massachusetts	Barnstable County	654	1,342,816	11,235	11,235	1,343	71,841	269	604	1,499	274
	Berkshire County	619	1,604,709	13,426	13,426	1,605	85,852	321	722	1,791	327
	Bristol County	912	1,872,775	15,669	15,669	1,873	100,193	375	843	2,090	382
	Dukes County	81	165,575	1,385	1,385	166	8,858	33	75	185	34

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	Essex County	1,296	2,661,131	22,265	22,265	2,661	142,371	532	1,198	2,970	543
	Franklin County	496	1,287,247	10,770	10,770	1,287	68,868	257	579	1,437	263
	Hampden County	1,029	2,669,103	22,331	22,331	2,669	142,797	534	1,201	2,979	545
	Hampshire County	701	1,819,334	15,222	15,222	1,819	97,334	364	819	2,030	371
	Middlesex County	1,817	4,713,709	39,438	39,438	4,714	252,183	943	2,121	5,260	962
	Nantucket County	42	86,008	720	720	86	4,601	17	39	96	18
	Norfolk County	979	2,009,354	16,812	16,812	2,009	107,500	402	904	2,242	410
	Plymouth County	768	1,577,015	13,194	13,194	1,577	84,370	315	710	1,760	322
	Suffolk County	58	118,469	991	991	118	6,338	24	53	132	24
	Worcester County	1,893	4,909,361	41,075	41,075	4,909	262,651	982	2,209	5,479	1,002
	Total Massachusetts	11,345	26,836,608	224,533	224,533	26,837	1,435,759	5,367	12,076	29,950	5,475
New Hampshire	Belknap County	272	670,835	5,613	5,613	671	35,890	134	302	749	137
	Carroll County	320	789,554	6,606	6,606	790	42,241	158	355	881	161
	Cheshire County	497	1,225,876	10,256	10,256	1,226	65,584	245	552	1,368	250
	Coos County	192	473,612	3,963	3,963	474	25,338	95	213	529	97
	Grafton County	569	1,404,146	11,748	11,748	1,404	75,122	281	632	1,567	286
	Hillsborough County	1,199	2,958,710	24,755	24,755	2,959	158,291	592	1,331	3,302	604
	Merrimack County	592	1,460,472	12,219	12,219	1,460	78,135	292	657	1,630	298
	Rockingham County	876	2,159,864	18,071	18,071	2,160	115,553	432	972	2,410	441
	Strafford County	415	1,024,833	8,574	8,574	1,025	54,829	205	461	1,144	209
	Sullivan County	292	721,497	6,037	6,037	721	38,600	144	325	805	147
	Total New Hampshire	5,225	12,889,400	107,841	107,841	12,889	689,583	2,578	5,800	14,385	2,630
New Jersey	Atlantic County	441	400,064	3,347	3,347	400	21,403	80	180	446	82
	Bergen County	1,305	2,529,533	21,164	21,164	2,530	135,330	506	1,138	2,823	516
	Burlington County	630	571,503	4,782	4,782	572	30,575	114	257	638	117
	Camden County	1,065	966,525	8,087	8,087	967	51,709	193	435	1,079	197
	Cape May County	280	254,412	2,129	2,129	254	13,611	51	114	284	52
	Cumberland County	267	242,653	2,030	2,030	243	12,982	49	109	271	50
	Essex County	467	905,170	7,573	7,573	905	48,427	181	407	1,010	185
	Gloucester County	363	329,536	2,757	2,757	330	17,630	66	148	368	67
	Hudson County	57	110,329	923	923	110	5,903	22	50	123	23

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	Hunterdon County	237	458,692	3,838	3,838	459	24,540	92	206	512	94
	Mercer County	451	409,403	3,425	3,425	409	21,903	82	184	457	84
	Middlesex County	893	810,592	6,782	6,782	811	43,367	162	365	905	165
	Monmouth County	822	746,348	6,244	6,244	746	39,930	149	336	833	152
	Morris County	499	966,553	8,087	8,087	967	51,711	193	435	1,079	197
	Ocean County	864	784,450	6,563	6,563	784	41,968	157	353	875	160
	Passaic County	500	969,062	8,108	8,108	969	51,845	194	436	1,081	198
	Salem County	168	152,844	1,279	1,279	153	8,177	31	69	171	31
	Somerset County	300	581,994	4,869	4,869	582	31,137	116	262	650	119
	Sussex County	347	672,389	5,626	5,626	672	35,973	134	303	750	137
	Union County	511	989,738	8,281	8,281	990	52,951	198	445	1,105	202
	Warren County	274	530,708	4,440	4,440	531	28,393	106	239	592	108
	Total New Jersey	10,741	14,382,498	120,334	120,334	14,382	769,464	2,876	6,472	16,051	2,934
New York	Albany County	614	1,604,273	13,422	13,422	1,604	85,829	321	722	1,790	327
	Allegany County	367	959,796	8,030	8,030	960	51,349	192	432	1,071	196
	Bronx County	116	111,979	937	937	112	5,991	22	50	125	23
	Broome County	714	1,866,862	15,619	15,619	1,867	99,877	373	840	2,083	381
	Cattaraugus County	583	1,524,125	12,752	12,752	1,524	81,541	305	686	1,701	311
	Cayuga County	442	1,156,432	9,675	9,675	1,156	61,869	231	520	1,291	236
	Chautauqua County	771	2,016,249	16,869	16,869	2,016	107,869	403	907	2,250	411
	Chemung County	418	1,093,665	9,150	9,150	1,094	58,511	219	492	1,221	223
	Chenango County	361	943,647	7,895	7,895	944	50,485	189	425	1,053	193
	Clinton County	336	878,089	7,347	7,347	878	46,978	176	395	980	179
	Columbia County	261	682,047	5,706	5,706	682	36,490	136	307	761	139
	Cortland County	264	689,809	5,771	5,771	690	36,905	138	310	770	141
	Delaware County	385	1,006,713	8,423	8,423	1,007	53,859	201	453	1,123	205
	Dutchess County	551	1,439,461	12,043	12,043	1,439	77,011	288	648	1,606	294
	Erie County	2,671	6,981,720	58,414	58,414	6,982	373,522	1,396	3,142	7,792	1,424
	Essex County	221	578,932	4,844	4,844	579	30,973	116	261	646	118
	Franklin County	308	804,950	6,735	6,735	805	43,065	161	362	898	164
	Fulton County	285	744,279	6,227	6,227	744	39,819	149	335	831	152

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	Genesee County	226	590,547	4,941	4,941	591	31,594	118	266	659	120
	Greene County	225	588,940	4,927	4,927	589	31,508	118	265	657	120
	Hamilton County	55	144,952	1,213	1,213	145	7,755	29	65	162	30
	Herkimer County	400	1,046,224	8,753	8,753	1,046	55,973	209	471	1,168	213
	Jefferson County	503	1,313,978	10,994	10,994	1,314	70,298	263	591	1,466	268
	Kings County	219	212,007	1,774	1,774	212	11,342	42	95	237	43
	Lewis County	355	928,837	7,771	7,771	929	49,693	186	418	1,037	189
	Livingston County	300	783,333	6,554	6,554	783	41,908	157	353	874	160
	Madison County	385	1,005,738	8,415	8,415	1,006	53,807	201	453	1,122	205
	Monroe County	1,587	4,147,054	34,697	34,697	4,147	221,867	829	1,866	4,628	846
	Montgomery County	248	648,605	5,427	5,427	649	34,700	130	292	724	132
	Nassau County	211	204,203	1,709	1,709	204	10,925	41	92	228	42
	New York County	190	183,694	1,537	1,537	184	9,828	37	83	205	37
	Niagara County	576	1,506,666	12,606	12,606	1,507	80,607	301	678	1,681	307
	Oneida County	910	2,378,249	19,898	19,898	2,378	127,236	476	1,070	2,654	485
	Onondaga County	1,003	2,621,536	21,934	21,934	2,622	140,252	524	1,180	2,926	535
	Ontario County	658	1,720,792	14,397	14,397	1,721	92,062	344	774	1,920	351
	Orange County	419	1,095,081	9,162	9,162	1,095	58,587	219	493	1,222	223
	Orleans County	186	485,804	4,065	4,065	486	25,991	97	219	542	99
	Oswego County	682	1,782,235	14,911	14,911	1,782	95,350	356	802	1,989	364
	Otsego County	401	1,048,513	8,773	8,773	1,049	56,095	210	472	1,170	214
	Putnam County	194	506,347	4,236	4,236	506	27,090	101	228	565	103
	Queens County	192	185,898	1,555	1,555	186	9,946	37	84	207	38
	Rensselaer County	681	1,779,035	14,885	14,885	1,779	95,178	356	801	1,985	363
	Richmond County	40	38,739	324	324	39	2,073	8	17	43	8
	Rockland County	154	403,282	3,374	3,374	403	21,576	81	181	450	82
	St. Lawrence County	661	1,728,047	14,458	14,458	1,728	92,451	346	778	1,929	353
	Saratoga County	903	2,359,373	19,740	19,740	2,359	126,226	472	1,062	2,633	481
	Schenectady County	371	968,984	8,107	8,107	969	51,841	194	436	1,081	198
	Schoharie County	273	714,100	5,975	5,975	714	38,204	143	321	797	146
	Schuyler County	131	342,791	2,868	2,868	343	18,339	69	154	383	70

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	Seneca County	118	308,265	2,579	2,579	308	16,492	62	139	344	63
	Steuben County	621	1,622,797	13,577	13,577	1,623	86,820	325	730	1,811	331
	Suffolk County	1,911	1,852,158	15,496	15,496	1,852	99,090	370	833	2,067	378
	Sullivan County	313	819,315	6,855	6,855	819	43,833	164	369	914	167
	Tioga County	366	956,577	8,003	8,003	957	51,177	191	430	1,068	195
	Tompkins County	465	1,214,682	10,163	10,163	1,215	64,985	243	547	1,356	248
	Ulster County	622	1,626,484	13,608	13,608	1,626	87,017	325	732	1,815	332
	Warren County	420	1,097,959	9,186	9,186	1,098	58,741	220	494	1,225	224
	Washington County	505	1,320,527	11,048	11,048	1,321	70,648	264	594	1,474	269
	Wayne County	454	1,186,704	9,929	9,929	1,187	63,489	237	534	1,324	242
	Westchester County	1,205	3,149,510	26,351	26,351	3,150	168,499	630	1,417	3,515	643
	Wyoming County	246	642,411	5,375	5,375	642	34,369	128	289	717	131
	Yates County	147	385,278	3,223	3,223	385	20,612	77	173	430	79
	Total New York	30,400	74,729,277	625,235	625,235	74,729	3,998,016	14,946	33,628	83,398	15,246
Pennsylvania	Adams County	443	929,825	7,780	7,780	930	49,746	186	418	1,038	190
	Allegheny County	1,974	4,143,711	34,669	34,669	4,144	221,689	829	1,865	4,624	845
	Armstrong County	200	419,956	3,514	3,514	420	22,468	84	189	469	86
	Beaver County	444	931,244	7,791	7,791	931	49,822	186	419	1,039	190
	Bedford County	372	779,851	6,525	6,525	780	41,722	156	351	870	159
	Berks County	815	801,778	6,708	6,708	802	42,895	160	361	895	164
	Blair County	409	858,281	7,181	7,181	858	45,918	172	386	958	175
	Bradford County	421	1,115,741	9,335	9,335	1,116	59,692	223	502	1,245	228
	Bucks County	945	929,419	7,776	7,776	929	49,724	186	418	1,037	190
	Butler County	475	996,168	8,335	8,335	996	53,295	199	448	1,112	203
	Cambria County	344	723,149	6,050	6,050	723	38,688	145	325	807	148
	Cameron County	36	96,207	805	805	96	5,147	19	43	107	20
	Carbon County	162	340,313	2,847	2,847	340	18,207	68	153	380	69
	Centre County	531	1,407,277	11,774	11,774	1,407	75,289	281	633	1,571	287
	Chester County	749	736,943	6,166	6,166	737	39,426	147	332	822	150
	Clarion County	151	399,406	3,342	3,342	399	21,368	80	180	446	81
	Clearfield County	230	610,070	5,104	5,104	610	32,639	122	275	681	124

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	Clinton County	170	451,141	3,775	3,775	451	24,136	90	203	503	92
	Columbia County	253	530,429	4,438	4,438	530	28,378	106	239	592	108
	Crawford County	582	1,543,712	12,916	12,916	1,544	82,589	309	695	1,723	315
	Cumberland County	680	1,426,997	11,939	11,939	1,427	76,344	285	642	1,593	291
	Dauphin County	479	471,210	3,942	3,942	471	25,210	94	212	526	96
	Delaware County	643	631,918	5,287	5,287	632	33,808	126	284	705	129
	Elk County	139	367,607	3,076	3,076	368	19,667	74	165	410	75
	Erie County	789	2,091,602	17,500	17,500	2,092	111,901	418	941	2,334	427
	Fayette County	413	866,127	7,247	7,247	866	46,338	173	390	967	177
	Forest County	44	117,524	983	983	118	6,288	24	53	131	24
	Franklin County	630	1,323,296	11,072	11,072	1,323	70,796	265	595	1,477	270
	Fulton County	165	345,364	2,890	2,890	345	18,477	69	155	385	70
	Greene County	142	297,800	2,492	2,492	298	15,932	60	134	332	61
	Huntingdon County	319	669,330	5,600	5,600	669	35,809	134	301	747	137
	Indiana County	291	609,827	5,102	5,102	610	32,626	122	274	681	124
	Jefferson County	168	352,582	2,950	2,950	353	18,863	71	159	393	72
	Juniata County	200	419,911	3,513	3,513	420	22,465	84	189	469	86
	Lackawanna County	441	1,170,495	9,793	9,793	1,170	62,621	234	527	1,306	239
	Lancaster County	1,256	1,235,488	10,337	10,337	1,235	66,099	247	556	1,379	252
	Lawrence County	262	549,962	4,601	4,601	550	29,423	110	247	614	112
	Lebanon County	330	324,331	2,714	2,714	324	17,352	65	146	362	66
	Lehigh County	604	1,268,522	10,613	10,613	1,269	67,866	254	571	1,416	259
	Luzerne County	554	1,468,929	12,290	12,290	1,469	78,588	294	661	1,639	300
	Lycoming County	600	1,260,275	10,544	10,544	1,260	67,425	252	567	1,406	257
	McKean County	205	544,030	4,552	4,552	544	29,106	109	245	607	111
	Mercer County	455	1,205,869	10,089	10,089	1,206	64,514	241	543	1,346	246
	Mifflin County	338	709,215	5,934	5,934	709	37,943	142	319	791	145
	Monroe County	489	1,296,805	10,850	10,850	1,297	69,379	259	584	1,447	265
	Montgomery County	2,443	2,402,622	20,102	20,102	2,403	128,540	481	1,081	2,681	490
	Montour County	67	140,580	1,176	1,176	141	7,521	28	63	157	29
	Northampton County	503	1,055,660	8,832	8,832	1,056	56,478	211	475	1,178	215

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	Northumberland County	268	562,084	4,703	4,703	562	30,071	112	253	627	115
	Perry County	348	731,365	6,119	6,119	731	39,128	146	329	816	149
	Philadelphia County	693	681,389	5,701	5,701	681	36,454	136	307	760	139
	Pike County	311	824,282	6,896	6,896	824	44,099	165	371	920	168
	Potter County	148	391,892	3,279	3,279	392	20,966	78	176	437	80
	Schuylkill County	285	598,149	5,005	5,005	598	32,001	120	269	668	122
	Snyder County	202	424,075	3,548	3,548	424	22,688	85	191	473	87
	Somerset County	330	691,923	5,789	5,789	692	37,018	138	311	772	141
	Sullivan County	56	148,982	1,246	1,246	149	7,971	30	67	166	30
	Susquehanna County	322	854,896	7,153	7,153	855	45,737	171	385	954	174
	Tioga County	313	830,630	6,950	6,950	831	44,439	166	374	927	169
	Union County	161	338,591	2,833	2,833	339	18,115	68	152	378	69
	Venango County	303	804,728	6,733	6,733	805	43,053	161	362	898	164
	Warren County	305	809,620	6,774	6,774	810	43,315	162	364	904	165
	Washington County	558	1,170,501	9,793	9,793	1,171	62,622	234	527	1,306	239
	Wayne County	284	753,882	6,307	6,307	754	40,333	151	339	841	154
	Westmoreland County	1,545	3,242,840	27,132	27,132	3,243	173,492	649	1,459	3,619	662
	Wyoming County	186	493,341	4,128	4,128	493	26,394	99	222	551	101
	York County	1,209	2,537,583	21,231	21,231	2,538	135,761	508	1,142	2,832	518
	Total Pennsylvania	31,182	60,259,256	504,169	504,169	60,259	3,223,870	12,052	27,117	67,249	12,294
Rhode Island	Bristol County	141	303,778	2,542	2,542	304	16,252	61	137	339	62
	Kent County	466	1,003,462	8,396	8,396	1,003	53,685	201	452	1,120	205
	Newport County	243	523,078	4,376	4,376	523	27,985	105	235	584	107
	Providence County	1,053	2,266,243	18,961	18,961	2,266	121,244	453	1,020	2,529	462
	Washington County	431	928,172	7,766	7,766	928	49,657	186	418	1,036	189
	Total Rhode Island	2,335	5,024,733	42,040	42,040	5,025	268,823	1,005	2,261	5,608	1,025
District of Columbia	District of Columbia	205	187,924	1,572	1,572	188	10,054	38	85	210	38
	Total D.C.	205	187,924	1,572	1,572	188	10,054	38	85	210	38
Vermont	Addison County	337	857,013	7,170	7,170	857	45,850	171	386	956	175
	Bennington County	258	654,927	5,480	5,480	655	35,039	131	295	731	134
	Caledonia County	323	820,214	6,862	6,862	820	43,881	164	369	915	167

State	County	Total certified catalytic cordwood heaters	Total dry mass of cordwood burned by certified catalytic cordwood heaters (kg/yr)	PM _{2.5} (kg/yr)	PM ₁₀ (kg/yr)	NO _x (kg/yr) as NO ₂	CO (kg/yr)	SO ₂ (kg/yr)	NH ₃ (kg/yr)	Benzene (kg/yr)	Phenol (kg/yr)
	Chittenden County	720	1,829,132	15,304	15,304	1,829	97,859	366	823	2,041	373
	Essex County	73	184,448	1,543	1,543	184	9,868	37	83	206	38
	Franklin County	321	814,757	6,817	6,817	815	43,590	163	367	909	166
	Grand Isle County	84	213,522	1,786	1,786	214	11,423	43	96	238	44
	Lamoille County	236	600,475	5,024	5,024	600	32,125	120	270	670	123
	Orange County	343	872,490	7,300	7,300	872	46,678	174	393	974	178
	Orleans County	357	906,186	7,582	7,582	906	48,481	181	408	1,011	185
	Rutland County	486	1,235,205	10,335	10,335	1,235	66,083	247	556	1,378	252
	Washington County	524	1,332,260	11,147	11,147	1,332	71,276	266	600	1,487	272
	Windham County	523	1,330,425	11,131	11,131	1,330	71,178	266	599	1,485	271
	Windsor County	544	1,384,002	11,579	11,579	1,384	74,044	277	623	1,545	282
	Total Vermont	5,128	13,035,057	109,060	109,060	13,035	697,376	2,607	5,866	14,547	2,659
	Total MANE-VU	127,796	257,697,460	2,156,069	2,156,069	257,697	13,786,814	51,539	115,964	287,590	52,574

HDD Range	HDD	Total certified catalytic cordwood heaters	Total dry mass of cordwood burned by certified catalytic cordwood heaters (kg/yr)	PM _{2.5} (kg/yr)	PM ₁₀ (kg/yr)	NO _x (kg/yr) as NO ₂	CO (kg/yr)	SO ₂ (kg/yr)	NH ₃ (kg/yr)	Benzene (kg/yr)	Phenol (kg/yr)
> 6500	High	61,595	157,392,114	1,316,847	1,316,847	157,392	8,420,478	31,478	70,826	175,650	32,110
5500-6499	Med.	33,557	69,756,444	583,629	583,629	69,756	3,731,970	13,951	31,390	77,848	14,231
< 5499	Low	32,644	30,548,903	255,592	255,592	30,549	1,634,366	6,110	13,747	34,093	6,232

Section 3.1.3

Table 3.1.3

Emission Inventory for Certified Catalytic Cordwood Heaters (2002 Base Year)

Section 2

State	County	Total certified catalytic cordwood heaters	Total dry mass of cordwood burned by certified catalytic cordwood heaters (kg/yr)	7-PAH (kg/yr)	16-PAH (kg/yr)	Benzo(a)pyrene (g/yr)	Naphthalene (kg/yr)	1,3-Butadiene (kg/yr)	Formaldehyde (kg/yr)	Acetaldehyde (kg/yr)	Acrolein (kg/yr)
Connecticut	Fairfield County	1,135	2,440,891	34	346	4,817	188	238	1,198	648	38
	Hartford County	1,969	4,232,761	58	601	8,353	326	412	2,078	1,124	66
	Litchfield County	599	1,626,128	22	231	3,209	125	158	798	432	26
	Middlesex County	451	969,464	13	138	1,913	75	94	476	258	15
	New Haven County	1,372	2,949,312	41	419	5,820	227	287	1,448	783	46
	New London County	642	1,380,980	19	196	2,725	107	134	678	367	22
	Tolland County	496	1,348,232	19	191	2,661	104	131	662	358	21
	Windham County	507	1,375,832	19	195	2,715	106	134	676	365	22
	Total Connecticut		7,171	16,323,600	225	2,317	32,212	1,259	1,589	8,015	4,336
Delaware	Kent County	386	351,556	5	50	694	27	34	173	93	6
	New Castle County	774	704,496	10	100	1,390	54	69	346	187	11
	Sussex County	501	456,644	6	65	901	35	44	224	121	7
Total Delaware		1,661	1,512,695	21	215	2,985	117	147	743	402	24
Maine	Androscoggin County	618	1,398,240	19	198	2,759	108	136	687	371	22
	Aroostook County	524	1,185,065	16	168	2,339	91	115	582	315	19
	Cumberland County	990	2,239,937	31	318	4,420	173	218	1,100	595	35
	Franklin County	276	625,292	9	89	1,234	48	61	307	166	10
	Hancock County	461	1,042,863	14	148	2,058	80	102	512	277	16
	Kennebec County	738	1,671,376	23	237	3,298	129	163	821	444	26
	Knox County	335	757,144	10	107	1,494	58	74	372	201	12
	Lincoln County	292	659,932	9	94	1,302	51	64	324	175	10
	Oxford County	471	1,065,970	15	151	2,104	82	104	523	283	17
	Penobscot County	843	1,908,399	26	271	3,766	147	186	937	507	30
	Piscataquis County	163	369,819	5	52	730	29	36	182	98	6
	Sagadahoc County	277	627,118	9	89	1,238	48	61	308	167	10
	Somerset County	420	949,516	13	135	1,874	73	92	466	252	15
Waldo County	387	875,733	12	124	1,728	68	85	430	233	14	
Washington County	241	545,924	8	77	1,077	42	53	268	145	9	

State	County	Total certified catalytic cordwood heaters	Total dry mass of cordwood burned by certified catalytic cordwood heaters (kg/yr)	7-PAH (kg/yr)	16-PAH (kg/yr)	Benzo(a)pyrene (g/yr)	Naphthalene (kg/yr)	1,3-Butadiene (kg/yr)	Formaldehyde (kg/yr)	Acetaldehyde (kg/yr)	Acrolein (kg/yr)
	York County	801	1,813,290	25	257	3,578	140	177	890	482	28
	Total Maine	7,836	17,735,617	245	2,518	34,998	1,368	1,727	8,708	4,711	278
Maryland	Allegany County	436	852,420	12	121	1,682	66	83	419	226	13
	Anne Arundel County	2,015	1,844,644	25	262	3,640	142	180	906	490	29
	Baltimore County	2,065	1,890,350	26	268	3,730	146	184	928	502	30
	Calvert County	307	281,252	4	40	555	22	27	138	75	4
	Caroline County	126	115,730	2	16	228	9	11	57	31	2
	Carroll County	545	498,718	7	71	984	38	49	245	132	8
	Cecil County	298	273,121	4	39	539	21	27	134	73	4
	Charles County	343	314,118	4	45	620	24	31	154	83	5
	Dorchester County	81	74,493	1	11	147	6	7	37	20	1
	Frederick County	679	621,176	9	88	1,226	48	60	305	165	10
	Garrett County	259	639,117	9	91	1,261	49	62	314	170	10
	Harford County	594	543,614	7	77	1,073	42	53	267	144	9
	Howard County	467	427,853	6	61	844	33	42	210	114	7
	Kent County	69	62,841	1	9	124	5	6	31	17	1
	Montgomery County	1,512	1,384,317	19	197	2,732	107	135	680	368	22
	Prince George's County	2,477	2,267,616	31	322	4,475	175	221	1,113	602	36
	Queen Anne's County	160	146,364	2	21	289	11	14	72	39	2
	St. Mary's County	834	763,783	11	108	1,507	59	74	375	203	12
	Somerset County	82	75,238	1	11	148	6	7	37	20	1
	Talbot County	116	106,540	1	15	210	8	10	52	28	2
	Washington County	570	1,113,080	15	158	2,196	86	108	547	296	17
	Wicomico County	264	241,990	3	34	478	19	24	119	64	4
	Worcester County	164	150,373	2	21	297	12	15	74	40	2
	Baltimore city	101	92,045	1	13	182	7	9	45	24	1
	Total Maryland	14,567	14,780,796	204	2,098	29,167	1,140	1,439	7,257	3,927	232
Massachusetts	Barnstable County	654	1,342,816	19	191	2,650	104	131	659	357	21
	Berkshire County	619	1,604,709	22	228	3,167	124	156	788	426	25
	Bristol County	912	1,872,775	26	266	3,696	144	182	920	498	29
	Dukes County	81	165,575	2	24	327	13	16	81	44	3

State	County	Total certified catalytic cordwood heaters	Total dry mass of cordwood burned by certified catalytic cordwood heaters (kg/yr)	7-PAH (kg/yr)	16-PAH (kg/yr)	Benzo(a)pyrene (g/yr)	Naphthalene (kg/yr)	1,3-Butadiene (kg/yr)	Formaldehyde (kg/yr)	Acetaldehyde (kg/yr)	Acrolein (kg/yr)
	Essex County	1,296	2,661,131	37	378	5,251	205	259	1,307	707	42
	Franklin County	496	1,287,247	18	183	2,540	99	125	632	342	20
	Hampden County	1,029	2,669,103	37	379	5,267	206	260	1,311	709	42
	Hampshire County	701	1,819,334	25	258	3,590	140	177	893	483	29
	Middlesex County	1,817	4,713,709	65	669	9,302	364	459	2,314	1,252	74
	Nantucket County	42	86,008	1	12	170	7	8	42	23	1
	Norfolk County	979	2,009,354	28	285	3,965	155	196	987	534	32
	Plymouth County	768	1,577,015	22	224	3,112	122	154	774	419	25
	Suffolk County	58	118,469	2	17	234	9	12	58	31	2
	Worcester County	1,893	4,909,361	68	697	9,688	379	478	2,410	1,304	77
	Total Massachusetts	11,345	26,836,608	370	3,810	52,958	2,070	2,613	13,177	7,129	421
New Hampshire	Belknap County	272	670,835	9	95	1,324	52	65	329	178	11
	Carroll County	320	789,554	11	112	1,558	61	77	388	210	12
	Cheshire County	497	1,225,876	17	174	2,419	95	119	602	326	19
	Coos County	192	473,612	7	67	935	37	46	233	126	7
	Grafton County	569	1,404,146	19	199	2,771	108	137	689	373	22
	Hillsborough County	1,199	2,958,710	41	420	5,839	228	288	1,453	786	46
	Merrimack County	592	1,460,472	20	207	2,882	113	142	717	388	23
	Rockingham County	876	2,159,864	30	307	4,262	167	210	1,060	574	34
	Strafford County	415	1,024,833	14	145	2,022	79	100	503	272	16
	Sullivan County	292	721,497	10	102	1,424	56	70	354	192	11
	Total New Hampshire	5,225	12,889,400	178	1,830	25,435	994	1,255	6,329	3,424	202
New Jersey	Atlantic County	441	400,064	6	57	789	31	39	196	106	6
	Bergen County	1,305	2,529,533	35	359	4,992	195	246	1,242	672	40
	Burlington County	630	571,503	8	81	1,128	44	56	281	152	9
	Camden County	1,065	966,525	13	137	1,907	75	94	475	257	15
	Cape May County	280	254,412	4	36	502	20	25	125	68	4
	Cumberland County	267	242,653	3	34	479	19	24	119	64	4
	Essex County	467	905,170	12	128	1,786	70	88	444	240	14
	Gloucester County	363	329,536	5	47	650	25	32	162	88	5
	Hudson County	57	110,329	2	16	218	9	11	54	29	2

State	County	Total certified catalytic cordwood heaters	Total dry mass of cordwood burned by certified catalytic cordwood heaters (kg/yr)	7-PAH (kg/yr)	16-PAH (kg/yr)	Benzo(a)pyrene (g/yr)	Naphthalene (kg/yr)	1,3-Butadiene (kg/yr)	Formaldehyde (kg/yr)	Acetaldehyde (kg/yr)	Acrolein (kg/yr)
	Hunterdon County	237	458,692	6	65	905	35	45	225	122	7
	Mercer County	451	409,403	6	58	808	32	40	201	109	6
	Middlesex County	893	810,592	11	115	1,600	63	79	398	215	13
	Monmouth County	822	746,348	10	106	1,473	58	73	366	198	12
	Morris County	499	966,553	13	137	1,907	75	94	475	257	15
	Ocean County	864	784,450	11	111	1,548	61	76	385	208	12
	Passaic County	500	969,062	13	138	1,912	75	94	476	257	15
	Salem County	168	152,844	2	22	302	12	15	75	41	2
	Somerset County	300	581,994	8	83	1,148	45	57	286	155	9
	Sussex County	347	672,389	9	95	1,327	52	65	330	179	11
	Union County	511	989,738	14	140	1,953	76	96	486	263	16
	Warren County	274	530,708	7	75	1,047	41	52	261	141	8
	Total New Jersey	10,741	14,382,498	198	2,042	28,381	1,109	1,400	7,062	3,821	226
New York	Albany County	614	1,604,273	22	228	3,166	124	156	788	426	25
	Allegany County	367	959,796	13	136	1,894	74	93	471	255	15
	Bronx County	116	111,979	2	16	221	9	11	55	30	2
	Broome County	714	1,866,862	26	265	3,684	144	182	917	496	29
	Cattaraugus County	583	1,524,125	21	216	3,008	118	148	748	405	24
	Cayuga County	442	1,156,432	16	164	2,282	89	113	568	307	18
	Chautauqua County	771	2,016,249	28	286	3,979	156	196	990	536	32
	Chemung County	418	1,093,665	15	155	2,158	84	106	537	291	17
	Chenango County	361	943,647	13	134	1,862	73	92	463	251	15
	Clinton County	336	878,089	12	125	1,733	68	85	431	233	14
	Columbia County	261	682,047	9	97	1,346	53	66	335	181	11
	Cortland County	264	689,809	10	98	1,361	53	67	339	183	11
	Delaware County	385	1,006,713	14	143	1,987	78	98	494	267	16
	Dutchess County	551	1,439,461	20	204	2,841	111	140	707	382	23
	Erie County	2,671	6,981,720	96	991	13,777	539	680	3,428	1,855	110
	Essex County	221	578,932	8	82	1,142	45	56	284	154	9
	Franklin County	308	804,950	11	114	1,588	62	78	395	214	13
	Fulton County	285	744,279	10	106	1,469	57	72	365	198	12

State	County	Total certified catalytic cordwood heaters	Total dry mass of cordwood burned by certified catalytic cordwood heaters (kg/yr)	7-PAH (kg/yr)	16-PAH (kg/yr)	Benzo(a)pyrene (g/yr)	Naphthalene (kg/yr)	1,3-Butadiene (kg/yr)	Formaldehyde (kg/yr)	Acetaldehyde (kg/yr)	Acrolein (kg/yr)
	Genesee County	226	590,547	8	84	1,165	46	58	290	157	9
	Greene County	225	588,940	8	84	1,162	45	57	289	156	9
	Hamilton County	55	144,952	2	21	286	11	14	71	39	2
	Herkimer County	400	1,046,224	14	149	2,065	81	102	514	278	16
	Jefferson County	503	1,313,978	18	187	2,593	101	128	645	349	21
	Kings County	219	212,007	3	30	418	16	21	104	56	3
	Lewis County	355	928,837	13	132	1,833	72	90	456	247	15
	Livingston County	300	783,333	11	111	1,546	60	76	385	208	12
	Madison County	385	1,005,738	14	143	1,985	78	98	494	267	16
	Monroe County	1,587	4,147,054	57	589	8,184	320	404	2,036	1,102	65
	Montgomery County	248	648,605	9	92	1,280	50	63	318	172	10
	Nassau County	211	204,203	3	29	403	16	20	100	54	3
	New York County	190	183,694	3	26	362	14	18	90	49	3
	Niagara County	576	1,506,666	21	214	2,973	116	147	740	400	24
	Oneida County	910	2,378,249	33	338	4,693	183	232	1,168	632	37
	Onondaga County	1,003	2,621,536	36	372	5,173	202	255	1,287	696	41
	Ontario County	658	1,720,792	24	244	3,396	133	168	845	457	27
	Orange County	419	1,095,081	15	155	2,161	84	107	538	291	17
	Orleans County	186	485,804	7	69	959	37	47	239	129	8
	Oswego County	682	1,782,235	25	253	3,517	137	174	875	473	28
	Otsego County	401	1,048,513	14	149	2,069	81	102	515	279	16
	Putnam County	194	506,347	7	72	999	39	49	249	135	8
	Queens County	192	185,898	3	26	367	14	18	91	49	3
	Rensselaer County	681	1,779,035	25	253	3,511	137	173	874	473	28
	Richmond County	40	38,739	1	5	76	3	4	19	10	1
	Rockland County	154	403,282	6	57	796	31	39	198	107	6
	St. Lawrence County	661	1,728,047	24	245	3,410	133	168	848	459	27
	Saratoga County	903	2,359,373	33	335	4,656	182	230	1,158	627	37
	Schenectady County	371	968,984	13	138	1,912	75	94	476	257	15
	Schoharie County	273	714,100	10	101	1,409	55	70	351	190	11
	Schuyler County	131	342,791	5	49	676	26	33	168	91	5

State	County	Total certified catalytic cordwood heaters	Total dry mass of cordwood burned by certified catalytic cordwood heaters (kg/yr)	7-PAH (kg/yr)	16-PAH (kg/yr)	Benzo(a)pyrene (g/yr)	Naphthalene (kg/yr)	1,3-Butadiene (kg/yr)	Formaldehyde (kg/yr)	Acetaldehyde (kg/yr)	Acrolein (kg/yr)
	Seneca County	118	308,265	4	44	608	24	30	151	82	5
	Steuben County	621	1,622,797	22	230	3,202	125	158	797	431	25
	Suffolk County	1,911	1,852,158	26	263	3,655	143	180	909	492	29
	Sullivan County	313	819,315	11	116	1,617	63	80	402	218	13
	Tioga County	366	956,577	13	136	1,888	74	93	470	254	15
	Tompkins County	465	1,214,682	17	172	2,397	94	118	596	323	19
	Ulster County	622	1,626,484	22	231	3,210	125	158	799	432	26
	Warren County	420	1,097,959	15	156	2,167	85	107	539	292	17
	Washington County	505	1,320,527	18	187	2,606	102	129	648	351	21
	Wayne County	454	1,186,704	16	168	2,342	92	116	583	315	19
	Westchester County	1,205	3,149,510	43	447	6,215	243	307	1,546	837	49
	Wyoming County	246	642,411	9	91	1,268	50	63	315	171	10
	Yates County	147	385,278	5	55	760	30	38	189	102	6
	Total New York	30,400	74,729,277	1,031	10,608	147,466	5,764	7,276	36,692	19,852	1,173
Pennsylvania	Adams County	443	929,825	13	132	1,835	72	91	457	247	15
	Allegheny County	1,974	4,143,711	57	588	8,177	320	403	2,035	1,101	65
	Armstrong County	200	419,956	6	60	829	32	41	206	112	7
	Beaver County	444	931,244	13	132	1,838	72	91	457	247	15
	Bedford County	372	779,851	11	111	1,539	60	76	383	207	12
	Berks County	815	801,778	11	114	1,582	62	78	394	213	13
	Blair County	409	858,281	12	122	1,694	66	84	421	228	13
	Bradford County	421	1,115,741	15	158	2,202	86	109	548	296	18
	Bucks County	945	929,419	13	132	1,834	72	90	456	247	15
	Butler County	475	996,168	14	141	1,966	77	97	489	265	16
	Cambria County	344	723,149	10	103	1,427	56	70	355	192	11
	Cameron County	36	96,207	1	14	190	7	9	47	26	2
	Carbon County	162	340,313	5	48	672	26	33	167	90	5
	Centre County	531	1,407,277	19	200	2,777	109	137	691	374	22
	Chester County	749	736,943	10	105	1,454	57	72	362	196	12
	Clarion County	151	399,406	6	57	788	31	39	196	106	6
	Clearfield County	230	610,070	8	87	1,204	47	59	300	162	10

State	County	Total certified catalytic cordwood heaters	Total dry mass of cordwood burned by certified catalytic cordwood heaters (kg/yr)	7-PAH (kg/yr)	16-PAH (kg/yr)	Benzo(a)pyrene (g/yr)	Naphthalene (kg/yr)	1,3-Butadiene (kg/yr)	Formaldehyde (kg/yr)	Acetaldehyde (kg/yr)	Acrolein (kg/yr)
	Clinton County	170	451,141	6	64	890	35	44	222	120	7
	Columbia County	253	530,429	7	75	1,047	41	52	260	141	8
	Crawford County	582	1,543,712	21	219	3,046	119	150	758	410	24
	Cumberland County	680	1,426,997	20	203	2,816	110	139	701	379	22
	Dauphin County	479	471,210	7	67	930	36	46	231	125	7
	Delaware County	643	631,918	9	90	1,247	49	62	310	168	10
	Elk County	139	367,607	5	52	725	28	36	180	98	6
	Erie County	789	2,091,602	29	297	4,127	161	204	1,027	556	33
	Fayette County	413	866,127	12	123	1,709	67	84	425	230	14
	Forest County	44	117,524	2	17	232	9	11	58	31	2
	Franklin County	630	1,323,296	18	188	2,611	102	129	650	352	21
	Fulton County	165	345,364	5	49	682	27	34	170	92	5
	Greene County	142	297,800	4	42	588	23	29	146	79	5
	Huntingdon County	319	669,330	9	95	1,321	52	65	329	178	11
	Indiana County	291	609,827	8	87	1,203	47	59	299	162	10
	Jefferson County	168	352,582	5	50	696	27	34	173	94	6
	Juniata County	200	419,911	6	60	829	32	41	206	112	7
	Lackawanna County	441	1,170,495	16	166	2,310	90	114	575	311	18
	Lancaster County	1,256	1,235,488	17	175	2,438	95	120	607	328	19
	Lawrence County	262	549,962	8	78	1,085	42	54	270	146	9
	Lebanon County	330	324,331	4	46	640	25	32	159	86	5
	Lehigh County	604	1,268,522	18	180	2,503	98	124	623	337	20
	Luzerne County	554	1,468,929	20	209	2,899	113	143	721	390	23
	Lycoming County	600	1,260,275	17	179	2,487	97	123	619	335	20
	McKean County	205	544,030	8	77	1,074	42	53	267	145	9
	Mercer County	455	1,205,869	17	171	2,380	93	117	592	320	19
	Mifflin County	338	709,215	10	101	1,400	55	69	348	188	11
	Monroe County	489	1,296,805	18	184	2,559	100	126	637	344	20
	Montgomery County	2,443	2,402,622	33	341	4,741	185	234	1,180	638	38
	Montour County	67	140,580	2	20	277	11	14	69	37	2
	Northampton County	503	1,055,660	15	150	2,083	81	103	518	280	17

State	County	Total certified catalytic cordwood heaters	Total dry mass of cordwood burned by certified catalytic cordwood heaters (kg/yr)	7-PAH (kg/yr)	16-PAH (kg/yr)	Benzo(a)pyrene (g/yr)	Naphthalene (kg/yr)	1,3-Butadiene (kg/yr)	Formaldehyde (kg/yr)	Acetaldehyde (kg/yr)	Acrolein (kg/yr)
	Northumberland County	268	562,084	8	80	1,109	43	55	276	149	9
	Perry County	348	731,365	10	104	1,443	56	71	359	194	11
	Philadelphia County	693	681,389	9	97	1,345	53	66	335	181	11
	Pike County	311	824,282	11	117	1,627	64	80	405	219	13
	Potter County	148	391,892	5	56	773	30	38	192	104	6
	Schuylkill County	285	598,149	8	85	1,180	46	58	294	159	9
	Snyder County	202	424,075	6	60	837	33	41	208	113	7
	Somerset County	330	691,923	10	98	1,365	53	67	340	184	11
	Sullivan County	56	148,982	2	21	294	11	15	73	40	2
	Susquehanna County	322	854,896	12	121	1,687	66	83	420	227	13
	Tioga County	313	830,630	11	118	1,639	64	81	408	221	13
	Union County	161	338,591	5	48	668	26	33	166	90	5
	Venango County	303	804,728	11	114	1,588	62	78	395	214	13
	Warren County	305	809,620	11	115	1,598	62	79	398	215	13
	Washington County	558	1,170,501	16	166	2,310	90	114	575	311	18
	Wayne County	284	753,882	10	107	1,488	58	73	370	200	12
	Westmoreland County	1,545	3,242,840	45	460	6,399	250	316	1,592	861	51
	Wyoming County	186	493,341	7	70	974	38	48	242	131	8
	York County	1,209	2,537,583	35	360	5,007	196	247	1,246	674	40
	Total Pennsylvania	31,182	60,259,256	831	8,554	118,912	4,648	5,867	29,587	16,008	946
Rhode Island	Bristol County	141	303,778	4	43	599	23	30	149	81	5
	Kent County	466	1,003,462	14	142	1,980	77	98	493	267	16
	Newport County	243	523,078	7	74	1,032	40	51	257	139	8
	Providence County	1,053	2,266,243	31	322	4,472	175	221	1,113	602	36
	Washington County	431	928,172	13	132	1,832	72	90	456	247	15
	Total Rhode Island	2,335	5,024,733	69	713	9,915	388	489	2,467	1,335	79
District of Columbia	District of Columbia	205	187,924	3	27	371	14	18	92	50	3
	Total D.C.	205	187,924	3	27	371	14	18	92	50	3
Vermont	Addison County	337	857,013	12	122	1,691	66	83	421	228	13
	Bennington County	258	654,927	9	93	1,292	51	64	322	174	10
	Caledonia County	323	820,214	11	116	1,619	63	80	403	218	13

State	County	Total certified catalytic cordwood heaters	Total dry mass of cordwood burned by certified catalytic cordwood heaters (kg/yr)	7-PAH (kg/yr)	16-PAH (kg/yr)	Benzo(a)pyrene (g/yr)	Naphthalene (kg/yr)	1,3-Butadiene (kg/yr)	Formaldehyde (kg/yr)	Acetaldehyde (kg/yr)	Acrolein (kg/yr)
	Chittenden County	720	1,829,132	25	260	3,609	141	178	898	486	29
	Essex County	73	184,448	3	26	364	14	18	91	49	3
	Franklin County	321	814,757	11	116	1,608	63	79	400	216	13
	Grand Isle County	84	213,522	3	30	421	16	21	105	57	3
	Lamoille County	236	600,475	8	85	1,185	46	58	295	160	9
	Orange County	343	872,490	12	124	1,722	67	85	428	232	14
	Orleans County	357	906,186	13	129	1,788	70	88	445	241	14
	Rutland County	486	1,235,205	17	175	2,437	95	120	606	328	19
	Washington County	524	1,332,260	18	189	2,629	103	130	654	354	21
	Windham County	523	1,330,425	18	189	2,625	103	130	653	353	21
	Windsor County	544	1,384,002	19	196	2,731	107	135	680	368	22
	Total Vermont	5,128	13,035,057	180	1,850	25,723	1,005	1,269	6,400	3,463	205
	Total MANE-VU	127,796	257,697,460	3,555	36,581	508,523	19,877	25,092	126,529	68,457	4,046

HDD Range	HDD	Total certified catalytic cordwood heaters	Total dry mass of cordwood burned by certified catalytic cordwood heaters (kg/yr)	7-PAH (kg/yr)	16-PAH (kg/yr)	Benzo(a)pyrene (g/yr)	Naphthalene (kg/yr)	1,3-Butadiene (kg/yr)	Formaldehyde (kg/yr)	Acetaldehyde (kg/yr)	Acrolein (kg/yr)
> 6500	High	61,595	157,392,114	2,171	22,342	310,587	12,140	15,325	77,280	41,811	2,471
5500-6499	Med.	33,557	69,756,444	962	9,902	137,653	5,381	6,792	34,250	18,531	1,095
< 5499	Low	32,644	30,548,903	421	4,337	60,283	2,356	2,975	15,000	8,115	480

Section 3.1.3

Table 3.1.3

Emission Inventory for Certified Catalytic Cordwood Heaters (2002 Base Year)

Section 3

State	County	Total certified catalytic cordwood heaters	Total dry mass of cordwood burned by certified catalytic cordwood heaters (kg/yr)	Cresols (kg/yr)	PCB _{TEQ} (ng/yr)	Dioxin _{TEQ} (ug/yr)	Methane (kg/yr)	VOC (kg/yr)
Connecticut	Fairfield County	1,135	2,440,891	648	604	2,782	31,732	20,992
	Hartford County	1,969	4,232,761	1,124	1,048	4,825	55,026	36,402
	Litchfield County	599	1,626,128	432	403	1,854	21,140	13,985
	Middlesex County	451	969,464	257	240	1,105	12,603	8,337
	New Haven County	1,372	2,949,312	783	730	3,362	38,341	25,364
	New London County	642	1,380,980	367	342	1,574	17,953	11,876
	Tolland County	496	1,348,232	358	334	1,537	17,527	11,595
	Windham County	507	1,375,832	365	341	1,568	17,886	11,832
	Total Connecticut		7,171	16,323,600	4,334	4,042	18,607	212,207
Delaware	Kent County	386	351,556	93	87	401	4,570	3,023
	New Castle County	774	704,496	187	174	803	9,158	6,059
	Sussex County	501	456,644	121	113	521	5,936	3,927
	Total Delaware	1,661	1,512,695	402	375	1,724	19,665	13,009
Maine	Androscoggin County	618	1,398,240	371	346	1,594	18,177	12,025
	Aroostook County	524	1,185,065	315	293	1,351	15,406	10,192
	Cumberland County	990	2,239,937	595	555	2,553	29,119	19,263
	Franklin County	276	625,292	166	155	713	8,129	5,378
	Hancock County	461	1,042,863	277	258	1,189	13,557	8,969
	Kennebec County	738	1,671,376	444	414	1,905	21,728	14,374
	Knox County	335	757,144	201	187	863	9,843	6,511
	Lincoln County	292	659,932	175	163	752	8,579	5,675
	Oxford County	471	1,065,970	283	264	1,215	13,858	9,167
	Penobscot County	843	1,908,399	507	473	2,175	24,809	16,412
	Piscataquis County	163	369,819	98	92	422	4,808	3,180
	Sagadahoc County	277	627,118	166	155	715	8,153	5,393
	Somerset County	420	949,516	252	235	1,082	12,344	8,166
Waldo County	387	875,733	232	217	998	11,385	7,531	
Washington County	241	545,924	145	135	622	7,097	4,695	

State	County	Total certified catalytic cordwood heaters	Total dry mass of cordwood burned by certified catalytic cordwood heaters (kg/yr)	Cresols (kg/yr)	PCB _{TED} (ng/yr)	Dioxin _{TED} (ug/yr)	Methane (kg/yr)	VOC (kg/yr)
	York County	801	1,813,290	481	449	2,067	23,573	15,594
	Total Maine	7,836	17,735,617	4,709	4,392	20,216	230,563	152,526
Maryland	Allegany County	436	852,420	226	211	972	11,081	7,331
	Anne Arundel County	2,015	1,844,644	490	457	2,103	23,980	15,864
	Baltimore County	2,065	1,890,350	502	468	2,155	24,575	16,257
	Calvert County	307	281,252	75	70	321	3,656	2,419
	Caroline County	126	115,730	31	29	132	1,504	995
	Carroll County	545	498,718	132	123	568	6,483	4,289
	Cecil County	298	273,121	73	68	311	3,551	2,349
	Charles County	343	314,118	83	78	358	4,084	2,701
	Dorchester County	81	74,493	20	18	85	968	641
	Frederick County	679	621,176	165	154	708	8,075	5,342
	Garrett County	259	639,117	170	158	729	8,309	5,496
	Harford County	594	543,614	144	135	620	7,067	4,675
	Howard County	467	427,853	114	106	488	5,562	3,680
	Kent County	69	62,841	17	16	72	817	540
	Montgomery County	1,512	1,384,317	368	343	1,578	17,996	11,905
	Prince George's County	2,477	2,267,616	602	562	2,585	29,479	19,502
	Queen Anne's County	160	146,364	39	36	167	1,903	1,259
	St. Mary's County	834	763,783	203	189	871	9,929	6,569
	Somerset County	82	75,238	20	19	86	978	647
	Talbot County	116	106,540	28	26	121	1,385	916
	Washington County	570	1,113,080	296	276	1,269	14,470	9,572
	Wicomico County	264	241,990	64	60	276	3,146	2,081
	Worcester County	164	150,373	40	37	171	1,955	1,293
	Baltimore city	101	92,045	24	23	105	1,197	792
	Total Maryland	14,567	14,780,796	3,924	3,660	16,848	192,150	127,115
Massachusetts	Barnstable County	654	1,342,816	357	333	1,531	17,457	11,548
	Berkshire County	619	1,604,709	426	397	1,829	20,861	13,800
	Bristol County	912	1,872,775	497	464	2,135	24,346	16,106
	Dukes County	81	165,575	44	41	189	2,152	1,424

State	County	Total certified catalytic cordwood heaters	Total dry mass of cordwood burned by certified catalytic cordwood heaters (kg/yr)	Cresols (kg/yr)	PCB _{TED} (ng/yr)	Dioxin _{TED} (ug/yr)	Methane (kg/yr)	VOC (kg/yr)
	Essex County	1,296	2,661,131	707	659	3,033	34,595	22,886
	Franklin County	496	1,287,247	342	319	1,467	16,734	11,070
	Hampden County	1,029	2,669,103	709	661	3,042	34,698	22,954
	Hampshire County	701	1,819,334	483	451	2,074	23,651	15,646
	Middlesex County	1,817	4,713,709	1,251	1,167	5,373	61,278	40,538
	Nantucket County	42	86,008	23	21	98	1,118	740
	Norfolk County	979	2,009,354	533	498	2,290	26,122	17,280
	Plymouth County	768	1,577,015	419	391	1,798	20,501	13,562
	Suffolk County	58	118,469	31	29	135	1,540	1,019
	Worcester County	1,893	4,909,361	1,303	1,216	5,596	63,822	42,221
	Total Massachusetts	11,345	26,836,608	7,125	6,646	30,590	348,876	230,795
New Hampshire	Belknap County	272	670,835	178	166	765	8,721	5,769
	Carroll County	320	789,554	210	196	900	10,264	6,790
	Cheshire County	497	1,225,876	325	304	1,397	15,936	10,543
	Coos County	192	473,612	126	117	540	6,157	4,073
	Grafton County	569	1,404,146	373	348	1,601	18,254	12,076
	Hillsborough County	1,199	2,958,710	786	733	3,373	38,463	25,445
	Merrimack County	592	1,460,472	388	362	1,665	18,986	12,560
	Rockingham County	876	2,159,864	573	535	2,462	28,078	18,575
	Strafford County	415	1,024,833	272	254	1,168	13,323	8,814
	Sullivan County	292	721,497	192	179	822	9,379	6,205
	Total New Hampshire	5,225	12,889,400	3,422	3,192	14,692	167,562	110,849
New Jersey	Atlantic County	441	400,064	106	99	456	5,201	3,441
	Bergen County	1,305	2,529,533	672	626	2,883	32,884	21,754
	Burlington County	630	571,503	152	142	651	7,430	4,915
	Camden County	1,065	966,525	257	239	1,102	12,565	8,312
	Cape May County	280	254,412	68	63	290	3,307	2,188
	Cumberland County	267	242,653	64	60	277	3,154	2,087
	Essex County	467	905,170	240	224	1,032	11,767	7,784
	Gloucester County	363	329,536	87	82	376	4,284	2,834
	Hudson County	57	110,329	29	27	126	1,434	949

State	County	Total certified catalytic cordwood heaters	Total dry mass of cordwood burned by certified catalytic cordwood heaters (kg/yr)	Cresols (kg/yr)	PCB _{TED} (ng/yr)	Dioxin _{TED} (ug/yr)	Methane (kg/yr)	VOC (kg/yr)
	Hunterdon County	237	458,692	122	114	523	5,963	3,945
	Mercer County	451	409,403	109	101	467	5,322	3,521
	Middlesex County	893	810,592	215	201	924	10,538	6,971
	Monmouth County	822	746,348	198	185	851	9,703	6,419
	Morris County	499	966,553	257	239	1,102	12,565	8,312
	Ocean County	864	784,450	208	194	894	10,198	6,746
	Passaic County	500	969,062	257	240	1,105	12,598	8,334
	Salem County	168	152,844	41	38	174	1,987	1,314
	Somerset County	300	581,994	155	144	663	7,566	5,005
	Sussex County	347	672,389	179	167	766	8,741	5,783
	Union County	511	989,738	263	245	1,128	12,867	8,512
	Warren County	274	530,708	141	131	605	6,899	4,564
	Total New Jersey	10,741	14,382,498	3,818	3,562	16,394	186,972	123,689
New York	Albany County	614	1,604,273	426	397	1,829	20,856	13,797
	Allegany County	367	959,796	255	238	1,094	12,477	8,254
	Bronx County	116	111,979	30	28	128	1,456	963
	Broome County	714	1,866,862	496	462	2,128	24,269	16,055
	Cattaraugus County	583	1,524,125	405	377	1,737	19,814	13,107
	Cayuga County	442	1,156,432	307	286	1,318	15,034	9,945
	Chautauqua County	771	2,016,249	535	499	2,298	26,211	17,340
	Chemung County	418	1,093,665	290	271	1,247	14,218	9,406
	Chenango County	361	943,647	251	234	1,076	12,267	8,115
	Clinton County	336	878,089	233	217	1,001	11,415	7,552
	Columbia County	261	682,047	181	169	777	8,867	5,866
	Cortland County	264	689,809	183	171	786	8,968	5,932
	Delaware County	385	1,006,713	267	249	1,148	13,087	8,658
	Dutchess County	551	1,439,461	382	356	1,641	18,713	12,379
	Erie County	2,671	6,981,720	1,854	1,729	7,958	90,762	60,043
	Essex County	221	578,932	154	143	660	7,526	4,979
	Franklin County	308	804,950	214	199	918	10,464	6,923
	Fulton County	285	744,279	198	184	848	9,676	6,401

State	County	Total certified catalytic cordwood heaters	Total dry mass of cordwood burned by certified catalytic cordwood heaters (kg/yr)	Cresols (kg/yr)	PCB _{TED} (ng/yr)	Dioxin _{TED} (ug/yr)	Methane (kg/yr)	VOC (kg/yr)
	Genesee County	226	590,547	157	146	673	7,677	5,079
	Greene County	225	588,940	156	146	671	7,656	5,065
	Hamilton County	55	144,952	38	36	165	1,884	1,247
	Herkimer County	400	1,046,224	278	259	1,193	13,601	8,998
	Jefferson County	503	1,313,978	349	325	1,498	17,082	11,300
	Kings County	219	212,007	56	52	242	2,756	1,823
	Lewis County	355	928,837	247	230	1,059	12,075	7,988
	Livingston County	300	783,333	208	194	893	10,183	6,737
	Madison County	385	1,005,738	267	249	1,146	13,075	8,649
	Monroe County	1,587	4,147,054	1,101	1,027	4,727	53,912	35,665
	Montgomery County	248	648,605	172	161	739	8,432	5,578
	Nassau County	211	204,203	54	51	233	2,655	1,756
	New York County	190	183,694	49	45	209	2,388	1,580
	Niagara County	576	1,506,666	400	373	1,717	19,587	12,957
	Oneida County	910	2,378,249	631	589	2,711	30,917	20,453
	Onondaga County	1,003	2,621,536	696	649	2,988	34,080	22,545
	Ontario County	658	1,720,792	457	426	1,961	22,370	14,799
	Orange County	419	1,095,081	291	271	1,248	14,236	9,418
	Orleans County	186	485,804	129	120	554	6,315	4,178
	Oswego County	682	1,782,235	473	441	2,031	23,169	15,327
	Otsego County	401	1,048,513	278	260	1,195	13,631	9,017
	Putnam County	194	506,347	134	125	577	6,583	4,355
	Queens County	192	185,898	49	46	212	2,417	1,599
	Rensselaer County	681	1,779,035	472	441	2,028	23,127	15,300
	Richmond County	40	38,739	10	10	44	504	333
	Rockland County	154	403,282	107	100	460	5,243	3,468
	St. Lawrence County	661	1,728,047	459	428	1,970	22,465	14,861
	Saratoga County	903	2,359,373	626	584	2,689	30,672	20,291
	Schenectady County	371	968,984	257	240	1,105	12,597	8,333
	Schoharie County	273	714,100	190	177	814	9,283	6,141
	Schuyler County	131	342,791	91	85	391	4,456	2,948

State	County	Total certified catalytic cordwood heaters	Total dry mass of cordwood burned by certified catalytic cordwood heaters (kg/yr)	Cresols (kg/yr)	PCB _{TED} (ng/yr)	Dioxin _{TED} (ug/yr)	Methane (kg/yr)	VOC (kg/yr)
	Seneca County	118	308,265	82	76	351	4,007	2,651
	Steuben County	621	1,622,797	431	402	1,850	21,096	13,956
	Suffolk County	1,911	1,852,158	492	459	2,111	24,078	15,929
	Sullivan County	313	819,315	218	203	934	10,651	7,046
	Tioga County	366	956,577	254	237	1,090	12,435	8,227
	Tompkins County	465	1,214,682	322	301	1,385	15,791	10,446
	Ulster County	622	1,626,484	432	403	1,854	21,144	13,988
	Warren County	420	1,097,959	291	272	1,252	14,273	9,442
	Washington County	505	1,320,527	351	327	1,505	17,167	11,357
	Wayne County	454	1,186,704	315	294	1,353	15,427	10,206
	Westchester County	1,205	3,149,510	836	780	3,590	40,944	27,086
	Wyoming County	246	642,411	171	159	732	8,351	5,525
	Yates County	147	385,278	102	95	439	5,009	3,313
	Total New York	30,400	74,729,277	19,840	18,505	85,181	971,481	642,672
Pennsylvania	Adams County	443	929,825	247	230	1,060	12,088	7,996
	Allegheny County	1,974	4,143,711	1,100	1,026	4,723	53,868	35,636
	Armstrong County	200	419,956	111	104	479	5,459	3,612
	Beaver County	444	931,244	247	231	1,061	12,106	8,009
	Bedford County	372	779,851	207	193	889	10,138	6,707
	Berks County	815	801,778	213	199	914	10,423	6,895
	Blair County	409	858,281	228	213	978	11,158	7,381
	Bradford County	421	1,115,741	296	276	1,272	14,505	9,595
	Bucks County	945	929,419	247	230	1,059	12,082	7,993
	Butler County	475	996,168	264	247	1,135	12,950	8,567
	Cambria County	344	723,149	192	179	824	9,401	6,219
	Cameron County	36	96,207	26	24	110	1,251	827
	Carbon County	162	340,313	90	84	388	4,424	2,927
	Centre County	531	1,407,277	374	348	1,604	18,295	12,103
	Chester County	749	736,943	196	182	840	9,580	6,338
	Clarion County	151	399,406	106	99	455	5,192	3,435
	Clearfield County	230	610,070	162	151	695	7,931	5,247

State	County	Total certified catalytic cordwood heaters	Total dry mass of cordwood burned by certified catalytic cordwood heaters (kg/yr)	Cresols (kg/yr)	PCB _{TED} (ng/yr)	Dioxin _{TED} (ug/yr)	Methane (kg/yr)	VOC (kg/yr)
	Clinton County	170	451,141	120	112	514	5,865	3,880
	Columbia County	253	530,429	141	131	605	6,896	4,562
	Crawford County	582	1,543,712	410	382	1,760	20,068	13,276
	Cumberland County	680	1,426,997	379	353	1,627	18,551	12,272
	Dauphin County	479	471,210	125	117	537	6,126	4,052
	Delaware County	643	631,918	168	156	720	8,215	5,434
	Elk County	139	367,607	98	91	419	4,779	3,161
	Erie County	789	2,091,602	555	518	2,384	27,191	17,988
	Fayette County	413	866,127	230	214	987	11,260	7,449
	Forest County	44	117,524	31	29	134	1,528	1,011
	Franklin County	630	1,323,296	351	328	1,508	17,203	11,380
	Fulton County	165	345,364	92	86	394	4,490	2,970
	Greene County	142	297,800	79	74	339	3,871	2,561
	Huntingdon County	319	669,330	178	166	763	8,701	5,756
	Indiana County	291	609,827	162	151	695	7,928	5,245
	Jefferson County	168	352,582	94	87	402	4,584	3,032
	Juniata County	200	419,911	111	104	479	5,459	3,611
	Lackawanna County	441	1,170,495	311	290	1,334	15,216	10,066
	Lancaster County	1,256	1,235,488	328	306	1,408	16,061	10,625
	Lawrence County	262	549,962	146	136	627	7,150	4,730
	Lebanon County	330	324,331	86	80	370	4,216	2,789
	Lehigh County	604	1,268,522	337	314	1,446	16,491	10,909
	Luzerne County	554	1,468,929	390	364	1,674	19,096	12,633
	Lycoming County	600	1,260,275	335	312	1,437	16,384	10,838
	McKean County	205	544,030	144	135	620	7,072	4,679
	Mercer County	455	1,205,869	320	299	1,375	15,676	10,370
	Mifflin County	338	709,215	188	176	808	9,220	6,099
	Monroe County	489	1,296,805	344	321	1,478	16,858	11,153
	Montgomery County	2,443	2,402,622	638	595	2,739	31,234	20,663
	Montour County	67	140,580	37	35	160	1,828	1,209
	Northampton County	503	1,055,660	280	261	1,203	13,724	9,079

State	County	Total certified catalytic cordwood heaters	Total dry mass of cordwood burned by certified catalytic cordwood heaters (kg/yr)	Cresols (kg/yr)	PCB _{TED} (ng/yr)	Dioxin _{TED} (ug/yr)	Methane (kg/yr)	VOC (kg/yr)
	Northumberland County	268	562,084	149	139	641	7,307	4,834
	Perry County	348	731,365	194	181	834	9,508	6,290
	Philadelphia County	693	681,389	181	169	777	8,858	5,860
	Pike County	311	824,282	219	204	940	10,716	7,089
	Potter County	148	391,892	104	97	447	5,095	3,370
	Schuylkill County	285	598,149	159	148	682	7,776	5,144
	Snyder County	202	424,075	113	105	483	5,513	3,647
	Somerset County	330	691,923	184	171	789	8,995	5,951
	Sullivan County	56	148,982	40	37	170	1,937	1,281
	Susquehanna County	322	854,896	227	212	974	11,114	7,352
	Tioga County	313	830,630	221	206	947	10,798	7,143
	Union County	161	338,591	90	84	386	4,402	2,912
	Venango County	303	804,728	214	199	917	10,461	6,921
	Warren County	305	809,620	215	200	923	10,525	6,963
	Washington County	558	1,170,501	311	290	1,334	15,217	10,066
	Wayne County	284	753,882	200	187	859	9,800	6,483
	Westmoreland County	1,545	3,242,840	861	803	3,696	42,157	27,888
	Wyoming County	186	493,341	131	122	562	6,413	4,243
	York County	1,209	2,537,583	674	628	2,892	32,989	21,823
	Total Pennsylvania	31,182	60,259,256	15,998	14,922	68,687	783,370	518,230
Rhode Island	Bristol County	141	303,778	81	75	346	3,949	2,612
	Kent County	466	1,003,462	266	248	1,144	13,045	8,630
	Newport County	243	523,078	139	130	596	6,800	4,498
	Providence County	1,053	2,266,243	602	561	2,583	29,461	19,490
	Washington County	431	928,172	246	230	1,058	12,066	7,982
	Total Rhode Island	2,335	5,024,733	1,334	1,244	5,727	65,322	43,213
District of Columbia	District of Columbia	205	187,924	50	47	214	2,443	1,616
	Total D.C.	205	187,924	50	47	214	2,443	1,616
Vermont	Addison County	337	857,013	228	212	977	11,141	7,370
	Bennington County	258	654,927	174	162	747	8,514	5,632
	Caledonia County	323	820,214	218	203	935	10,663	7,054

State	County	Total certified catalytic cordwood heaters	Total dry mass of cordwood burned by certified catalytic cordwood heaters (kg/yr)	Cresols (kg/yr)	PCB _{TED} (ng/yr)	Dioxin _{TED} (ug/yr)	Methane (kg/yr)	VOC (kg/yr)
	Chittenden County	720	1,829,132	486	453	2,085	23,779	15,731
	Essex County	73	184,448	49	46	210	2,398	1,586
	Franklin County	321	814,757	216	202	929	10,592	7,007
	Grand Isle County	84	213,522	57	53	243	2,776	1,836
	Lamoille County	236	600,475	159	149	684	7,806	5,164
	Orange County	343	872,490	232	216	995	11,342	7,503
	Orleans County	357	906,186	241	224	1,033	11,780	7,793
	Rutland County	486	1,235,205	328	306	1,408	16,058	10,623
	Washington County	524	1,332,260	354	330	1,519	17,319	11,457
	Windham County	523	1,330,425	353	329	1,516	17,296	11,442
	Windsor County	544	1,384,002	367	343	1,578	17,992	11,902
Total Vermont		5,128	13,035,057	3,461	3,228	14,858	169,456	112,101
Total MANE-VU		127,796	257,697,460	68,417	63,814	293,738	3,350,067	2,216,198

HDD Range	HDD	Total certified catalytic cordwood heaters	Total dry mass of cordwood burned by certified catalytic cordwood heaters (kg/yr)	Cresols (kg/yr)	PCB _{TED} (ng/yr)	Dioxin _{TED} (ug/yr)	Methane (kg/yr)	VOC (kg/yr)
> 6500	High	61,595	157,392,114	41,786	38,976	179,404	2,046,097	1,353,572
5500-6499	Med.	33,557	69,756,444	18,520	17,274	79,512	906,834	599,905
< 5499	Low	32,644	30,548,903	8,110	7,565	34,821	397,136	262,721

3.2 Emission Inventory for Pellet Heaters

Section 1: PM_{2.5}, PM₁₀, NO_x, CO, SO₂, NH₃, Benzene, Phenol

Section 2: 7-PAH, 16-PAH, Benzo(a)pyrene, Naphthalene, 1,3-Butadiene,
Formaldehyde, Acetaldehyde, Acrolein

Section 3: Cresols, PCB_{TEQ}, Dioxin_{TEQ}, Methane, VOC

Section 3.2

Table 3.2

Emission Inventory for Pellet Heaters (2002 Base Year)

Section 1

State	County	Total pellet heaters	Total dry mass of pellets burned by pellet heaters (kg/yr)	PM _{2.5} (kg/yr)	PM ₁₀ (kg/yr)	NO _x (kg/yr) as NO ₂	CO (kg/yr)	SO ₂ (kg/yr)	NH ₃ (kg/yr)	Benzene (kg/yr)	Phenol (kg/yr)
Connecticut	Fairfield County	556	630,665	966	966	1,201	5,020	99	95	9	8
	Hartford County	953	1,081,686	1,657	1,657	2,059	8,609	170	162	16	14
	Litchfield County	1,403	1,592,334	2,440	2,440	3,032	12,674	250	239	23	20
	Middlesex County	744	844,709	1,294	1,294	1,608	6,723	132	127	12	11
	New Haven County	1,027	1,165,010	1,785	1,785	2,218	9,273	183	175	17	15
	New London County	1,188	1,347,712	2,065	2,065	2,566	10,727	211	202	19	17
	Tolland County	921	1,045,757	1,602	1,602	1,991	8,324	164	157	15	13
	Windham County	1,212	1,375,996	2,108	2,108	2,620	10,952	216	206	20	17
	Total Connecticut		8,004	9,083,870	13,917	13,917	17,294	72,301	1,425	1,363	131
Delaware	Kent County	525	595,501	912	912	1,134	4,740	93	89	9	7
	New Castle County	222	251,502	385	385	479	2,002	39	38	4	3
	Sussex County	670	760,620	1,165	1,165	1,448	6,054	119	114	11	10
Total Delaware		1,417	1,607,623	2,463	2,463	3,061	12,796	252	241	23	20
Maine	Androscoggin County	1,118	1,268,975	1,944	1,944	2,416	10,100	199	190	18	16
	Aroostook County	1,878	2,131,266	3,265	3,265	4,058	16,963	334	320	31	27
	Cumberland County	1,700	1,929,453	2,956	2,956	3,673	15,357	303	289	28	24
	Franklin County	1,208	1,370,645	2,100	2,100	2,609	10,909	215	206	20	17
	Hancock County	1,386	1,572,458	2,409	2,409	2,994	12,516	247	236	23	20
	Kennebec County	2,050	2,326,199	3,564	3,564	4,429	18,515	365	349	34	29
	Knox County	802	910,451	1,395	1,395	1,733	7,247	143	137	13	11
	Lincoln County	816	925,740	1,418	1,418	1,762	7,368	145	139	13	12
	Oxford County	1,849	2,098,395	3,215	3,215	3,995	16,702	329	315	30	26
	Penobscot County	2,298	2,607,513	3,995	3,995	4,964	20,754	409	391	38	33
	Piscataquis County	771	874,522	1,340	1,340	1,665	6,961	137	131	13	11
	Sagadahoc County	624	707,874	1,084	1,084	1,348	5,634	111	106	10	9
	Somerset County	1,712	1,943,213	2,977	2,977	3,700	15,467	305	291	28	24
	Waldo County	1,439	1,633,614	2,503	2,503	3,110	13,002	256	245	24	20
Washington County	898	1,019,002	1,561	1,561	1,940	8,111	160	153	15	13	

State	County	Total pellet heaters	Total dry mass of pellets burned by pellet heaters (kg/yr)	PM _{2.5} (kg/yr)	PM ₁₀ (kg/yr)	NO _x (kg/yr) as NO ₂	CO (kg/yr)	SO ₂ (kg/yr)	NH ₃ (kg/yr)	Benzene (kg/yr)	Phenol (kg/yr)
	York County	1,943	2,204,652	3,378	3,378	4,197	17,548	346	331	32	28
	Total Maine	22,491	25,523,970	39,104	39,104	48,593	203,154	4,004	3,829	368	319
Maryland	Allegany County	821	931,855	1,428	1,428	1,774	7,417	146	140	13	12
	Anne Arundel County	715	811,838	1,244	1,244	1,546	6,462	127	122	12	10
	Baltimore County	724	821,776	1,259	1,259	1,565	6,541	129	123	12	10
	Calvert County	456	517,528	793	793	985	4,119	81	78	7	6
	Caroline County	370	420,443	644	644	800	3,346	66	63	6	5
	Carroll County	1,320	1,498,307	2,295	2,295	2,853	11,926	235	225	22	19
	Cecil County	483	548,105	840	840	1,043	4,363	86	82	8	7
	Charles County	581	658,949	1,010	1,010	1,255	5,245	103	99	10	8
	Dorchester County	113	128,426	197	197	245	1,022	20	19	2	2
	Frederick County	1,346	1,527,356	2,340	2,340	2,908	12,157	240	229	22	19
	Garrett County	1,049	1,191,001	1,825	1,825	2,267	9,480	187	179	17	15
	Harford County	770	873,758	1,339	1,339	1,663	6,955	137	131	13	11
	Howard County	253	287,430	440	440	547	2,288	45	43	4	4
	Kent County	163	184,995	283	283	352	1,472	29	28	3	2
	Montgomery County	255	288,959	443	443	550	2,300	45	43	4	4
	Prince George's County	347	393,688	603	603	750	3,133	62	59	6	5
	Queen Anne's County	360	408,212	625	625	777	3,249	64	61	6	5
	St. Mary's County	752	853,882	1,308	1,308	1,626	6,796	134	128	12	11
	Somerset County	186	210,986	323	323	402	1,679	33	32	3	3
	Talbot County	235	266,790	409	409	508	2,123	42	40	4	3
	Washington County	1,194	1,354,592	2,075	2,075	2,579	10,782	212	203	20	17
	Wicomico County	429	486,950	746	746	927	3,876	76	73	7	6
	Worcester County	277	314,186	481	481	598	2,501	49	47	5	4
	Baltimore city	84	95,555	146	146	182	761	15	14	1	1
	Total Maryland	13,284	15,075,570	23,096	23,096	28,701	119,991	2,365	2,261	217	188
Massachusetts	Barnstable County	609	691,056	1,059	1,059	1,316	5,500	108	104	10	9
	Berkshire County	1,248	1,415,748	2,169	2,169	2,695	11,268	222	212	20	18
	Bristol County	775	879,873	1,348	1,348	1,675	7,003	138	132	13	11
	Dukes County	227	257,617	395	395	490	2,050	40	39	4	3

State	County	Total pellet heaters	Total dry mass of pellets burned by pellet heaters (kg/yr)	PM _{2.5} (kg/yr)	PM ₁₀ (kg/yr)	NO _x (kg/yr) as NO ₂	CO (kg/yr)	SO ₂ (kg/yr)	NH ₃ (kg/yr)	Benzene (kg/yr)	Phenol (kg/yr)
	Essex County	872	989,189	1,515	1,515	1,883	7,873	155	148	14	12
	Franklin County	1,624	1,843,071	2,824	2,824	3,509	14,670	289	276	27	23
	Hampden County	1,231	1,396,636	2,140	2,140	2,659	11,116	219	209	20	17
	Hampshire County	1,470	1,668,014	2,555	2,555	3,176	13,276	262	250	24	21
	Middlesex County	860	975,429	1,494	1,494	1,857	7,764	153	146	14	12
	Nantucket County	76	86,382	132	132	164	688	14	13	1	1
	Norfolk County	315	357,759	548	548	681	2,848	56	54	5	4
	Plymouth County	794	901,278	1,381	1,381	1,716	7,174	141	135	13	11
	Suffolk County	11	12,996	20	20	25	103	2	2	0	0
	Worcester County	3,033	3,441,520	5,273	5,273	6,552	27,392	540	516	50	43
	Total Massachusetts	13,144	14,916,566	22,853	22,853	28,399	118,726	2,340	2,237	215	186
New Hampshire	Belknap County	725	822,540	1,260	1,260	1,566	6,547	129	123	12	10
	Carroll County	1,186	1,346,183	2,062	2,062	2,563	10,715	211	202	19	17
	Cheshire County	1,730	1,963,088	3,008	3,008	3,737	15,625	308	294	28	25
	Coos County	614	696,407	1,067	1,067	1,326	5,543	109	104	10	9
	Grafton County	1,987	2,255,105	3,455	3,455	4,293	17,949	354	338	33	28
	Hillsborough County	2,133	2,420,989	3,709	3,709	4,609	19,269	380	363	35	30
	Merrimack County	1,701	1,930,217	2,957	2,957	3,675	15,363	303	290	28	24
	Rockingham County	1,771	2,009,719	3,079	3,079	3,826	15,996	315	301	29	25
	Strafford County	785	891,340	1,366	1,366	1,697	7,094	140	134	13	11
	Sullivan County	992	1,126,024	1,725	1,725	2,144	8,962	177	169	16	14
	Total New Hampshire	13,624	15,461,614	23,688	23,688	29,436	123,064	2,425	2,319	223	193
New Jersey	Atlantic County	417	473,190	725	725	901	3,766	74	71	7	6
	Bergen County	67	75,680	116	116	144	602	12	11	1	1
	Burlington County	382	433,439	664	664	825	3,450	68	65	6	5
	Camden County	120	136,071	208	208	259	1,083	21	20	2	2
	Cape May County	305	346,292	531	531	659	2,756	54	52	5	4
	Cumberland County	225	255,324	391	391	486	2,032	40	38	4	3
	Essex County	42	47,395	73	73	90	377	7	7	1	1
	Gloucester County	233	264,497	405	405	504	2,105	41	40	4	3
	Hudson County	6	6,880	11	11	13	55	1	1	0	0

State	County	Total pellet heaters	Total dry mass of pellets burned by pellet heaters (kg/yr)	PM _{2.5} (kg/yr)	PM ₁₀ (kg/yr)	NO _x (kg/yr) as NO ₂	CO (kg/yr)	SO ₂ (kg/yr)	NH ₃ (kg/yr)	Benzene (kg/yr)	Phenol (kg/yr)
	Hunterdon County	278	315,715	484	484	601	2,513	50	47	5	4
	Mercer County	88	100,142	153	153	191	797	16	15	1	1
	Middlesex County	130	147,537	226	226	281	1,174	23	22	2	2
	Monmouth County	195	221,688	340	340	422	1,764	35	33	3	3
	Morris County	302	342,470	525	525	652	2,726	54	51	5	4
	Ocean County	401	454,843	697	697	866	3,620	71	68	7	6
	Passaic County	113	128,426	197	197	245	1,022	20	19	2	2
	Salem County	174	197,991	303	303	377	1,576	31	30	3	2
	Somerset County	112	127,662	196	196	243	1,016	20	19	2	2
	Sussex County	678	769,029	1,178	1,178	1,464	6,121	121	115	11	10
	Union County	53	60,391	93	93	115	481	9	9	1	1
	Warren County	386	438,026	671	671	834	3,486	69	66	6	5
	Total New Jersey	4,708	5,342,689	8,185	8,185	10,172	42,524	838	801	77	67
New York	Albany County	592	671,945	1,029	1,029	1,279	5,348	105	101	10	8
	Allegany County	1,332	1,511,303	2,315	2,315	2,877	12,029	237	227	22	19
	Bronx County	53	59,627	91	91	114	475	9	9	1	1
	Broome County	1,095	1,242,219	1,903	1,903	2,365	9,887	195	186	18	16
	Cattaraugus County	1,914	2,172,546	3,328	3,328	4,136	17,292	341	326	31	27
	Cayuga County	944	1,070,984	1,641	1,641	2,039	8,524	168	161	15	13
	Chautauqua County	1,652	1,874,413	2,872	2,872	3,569	14,919	294	281	27	23
	Chemung County	647	733,865	1,124	1,124	1,397	5,841	115	110	11	9
	Chenango County	1,355	1,538,058	2,356	2,356	2,928	12,242	241	231	22	19
	Clinton County	938	1,064,104	1,630	1,630	2,026	8,470	167	160	15	13
	Columbia County	714	810,309	1,241	1,241	1,543	6,450	127	122	12	10
	Cortland County	734	833,242	1,277	1,277	1,586	6,632	131	125	12	10
	Delaware County	1,541	1,748,280	2,678	2,678	3,328	13,915	274	262	25	22
	Dutchess County	864	980,780	1,503	1,503	1,867	7,806	154	147	14	12
	Erie County	1,507	1,710,058	2,620	2,620	3,256	13,611	268	257	25	21
	Essex County	756	858,469	1,315	1,315	1,634	6,833	135	129	12	11
	Franklin County	1,083	1,229,224	1,883	1,883	2,340	9,784	193	184	18	15
	Fulton County	782	887,518	1,360	1,360	1,690	7,064	139	133	13	11

State	County	Total pellet heaters	Total dry mass of pellets burned by pellet heaters (kg/yr)	PM _{2.5} (kg/yr)	PM ₁₀ (kg/yr)	NO _x (kg/yr) as NO ₂	CO (kg/yr)	SO ₂ (kg/yr)	NH ₃ (kg/yr)	Benzene (kg/yr)	Phenol (kg/yr)
	Genesee County	440	499,181	765	765	950	3,973	78	75	7	6
	Greene County	684	776,674	1,190	1,190	1,479	6,182	122	117	11	10
	Hamilton County	242	274,435	420	420	522	2,184	43	41	4	3
	Herkimer County	919	1,042,700	1,597	1,597	1,985	8,299	164	156	15	13
	Jefferson County	1,511	1,714,645	2,627	2,627	3,264	13,647	269	257	25	21
	Kings County	118	133,777	205	205	255	1,065	21	20	2	2
	Lewis County	1,627	1,846,129	2,828	2,828	3,515	14,694	290	277	27	23
	Livingston County	792	898,984	1,377	1,377	1,712	7,155	141	135	13	11
	Madison County	875	993,011	1,521	1,521	1,891	7,904	156	149	14	12
	Monroe County	994	1,127,553	1,727	1,727	2,147	8,975	177	169	16	14
	Montgomery County	480	545,047	835	835	1,038	4,338	85	82	8	7
	Nassau County	106	120,017	184	184	228	955	19	18	2	2
	New York County	86	97,849	150	150	186	779	15	15	1	1
	Niagara County	534	606,203	929	929	1,154	4,825	95	91	9	8
	Oneida County	1,685	1,911,871	2,929	2,929	3,640	15,217	300	287	28	24
	Onondaga County	1,115	1,265,152	1,938	1,938	2,409	10,070	198	190	18	16
	Ontario County	951	1,079,393	1,654	1,654	2,055	8,591	169	162	16	13
	Orange County	626	710,932	1,089	1,089	1,353	5,659	112	107	10	9
	Orleans County	464	526,701	807	807	1,003	4,192	83	79	8	7
	Oswego County	1,685	1,912,635	2,930	2,930	3,641	15,223	300	287	28	24
	Otsego County	1,427	1,619,854	2,482	2,482	3,084	12,893	254	243	23	20
	Putnam County	339	384,515	589	589	732	3,060	60	58	6	5
	Queens County	42	48,160	74	74	92	383	8	7	1	1
	Rensselaer County	1,353	1,535,765	2,353	2,353	2,924	12,224	241	230	22	19
	Richmond County	14	16,053	25	25	31	128	3	2	0	0
	Rockland County	73	83,324	128	128	159	663	13	12	1	1
	St. Lawrence County	2,379	2,700,011	4,137	4,137	5,140	21,490	424	405	39	34
	Saratoga County	1,672	1,897,346	2,907	2,907	3,612	15,102	298	285	27	24
	Schenectady County	289	327,946	502	502	624	2,610	51	49	5	4
	Schoharie County	812	921,153	1,411	1,411	1,754	7,332	144	138	13	12
	Schuyler County	468	531,288	814	814	1,011	4,229	83	80	8	7

State	County	Total pellet heaters	Total dry mass of pellets burned by pellet heaters (kg/yr)	PM _{2.5} (kg/yr)	PM ₁₀ (kg/yr)	NO _x (kg/yr) as NO ₂	CO (kg/yr)	SO ₂ (kg/yr)	NH ₃ (kg/yr)	Benzene (kg/yr)	Phenol (kg/yr)
	Seneca County	236	267,555	410	410	509	2,130	42	40	4	3
	Steuben County	1,933	2,193,186	3,360	3,360	4,175	17,456	344	329	32	27
	Suffolk County	556	631,430	967	967	1,202	5,026	99	95	9	8
	Sullivan County	909	1,031,233	1,580	1,580	1,963	8,208	162	155	15	13
	Tioga County	941	1,067,926	1,636	1,636	2,033	8,500	168	160	15	13
	Tompkins County	1,142	1,296,494	1,986	1,986	2,468	10,319	203	194	19	16
	Ulster County	1,621	1,839,249	2,818	2,818	3,502	14,639	288	276	27	23
	Warren County	905	1,026,646	1,573	1,573	1,955	8,171	161	154	15	13
	Washington County	1,414	1,604,565	2,458	2,458	3,055	12,771	252	241	23	20
	Wayne County	1,201	1,363,001	2,088	2,088	2,595	10,849	214	204	20	17
	Westchester County	177	201,048	308	308	383	1,600	32	30	3	3
	Wyoming County	804	912,744	1,398	1,398	1,738	7,265	143	137	13	11
	Yates County	505	572,567	877	877	1,090	4,557	90	86	8	7
	Total New York	55,648	63,152,888	96,753	96,753	120,232	502,654	9,906	9,473	911	789
Pennsylvania	Adams County	1,232	1,398,165	2,142	2,142	2,662	11,128	219	210	20	17
	Allegheny County	502	569,510	873	873	1,084	4,533	89	85	8	7
	Armstrong County	296	335,590	514	514	639	2,671	53	50	5	4
	Beaver County	421	477,777	732	732	910	3,803	75	72	7	6
	Bedford County	1,456	1,652,725	2,532	2,532	3,146	13,155	259	248	24	21
	Berks County	1,270	1,441,739	2,209	2,209	2,745	11,475	226	216	21	18
	Blair County	600	681,118	1,043	1,043	1,297	5,421	107	102	10	9
	Bradford County	1,478	1,677,187	2,570	2,570	3,193	13,349	263	252	24	21
	Bucks County	888	1,008,300	1,545	1,545	1,920	8,025	158	151	15	13
	Butler County	701	795,785	1,219	1,219	1,515	6,334	125	119	11	10
	Cambria County	381	431,910	662	662	822	3,438	68	65	6	5
	Cameron County	102	116,195	178	178	221	925	18	17	2	1
	Carbon County	174	197,991	303	303	377	1,576	31	30	3	2
	Centre County	1,105	1,254,450	1,922	1,922	2,388	9,985	197	188	18	16
	Chester County	973	1,103,855	1,691	1,691	2,102	8,786	173	166	16	14
	Clarion County	364	413,563	634	634	787	3,292	65	62	6	5
	Clearfield County	350	397,510	609	609	757	3,164	62	60	6	5

State	County	Total pellet heaters	Total dry mass of pellets burned by pellet heaters (kg/yr)	PM _{2.5} (kg/yr)	PM ₁₀ (kg/yr)	NO _x (kg/yr) as NO ₂	CO (kg/yr)	SO ₂ (kg/yr)	NH ₃ (kg/yr)	Benzene (kg/yr)	Phenol (kg/yr)
	Clinton County	465	527,465	808	808	1,004	4,198	83	79	8	7
	Columbia County	449	509,119	780	780	969	4,052	80	76	7	6
	Crawford County	1,915	2,173,310	3,330	3,330	4,138	17,298	341	326	31	27
	Cumberland County	1,077	1,222,344	1,873	1,873	2,327	9,729	192	183	18	15
	Dauphin County	545	618,434	947	947	1,177	4,922	97	93	9	8
	Delaware County	85	96,320	148	148	183	767	15	14	1	1
	Elk County	305	346,292	531	531	659	2,756	54	52	5	4
	Erie County	1,153	1,308,726	2,005	2,005	2,492	10,417	205	196	19	16
	Fayette County	650	737,687	1,130	1,130	1,404	5,871	116	111	11	9
	Forest County	174	197,991	303	303	377	1,576	31	30	3	2
	Franklin County	1,902	2,158,786	3,307	3,307	4,110	17,182	339	324	31	27
	Fulton County	742	842,416	1,291	1,291	1,604	6,705	132	126	12	11
	Greene County	334	379,163	581	581	722	3,018	59	57	5	5
	Huntingdon County	1,177	1,335,481	2,046	2,046	2,543	10,630	209	200	19	17
	Indiana County	604	684,940	1,049	1,049	1,304	5,452	107	103	10	9
	Jefferson County	372	421,972	646	646	803	3,359	66	63	6	5
	Juniata County	831	942,558	1,444	1,444	1,794	7,502	148	141	14	12
	Lackawanna County	316	358,524	549	549	683	2,854	56	54	5	4
	Lancaster County	2,321	2,634,269	4,036	4,036	5,015	20,967	413	395	38	33
	Lawrence County	362	411,270	630	630	783	3,273	65	62	6	5
	Lebanon County	492	558,807	856	856	1,064	4,448	88	84	8	7
	Lehigh County	665	754,505	1,156	1,156	1,436	6,005	118	113	11	9
	Luzerne County	589	668,123	1,024	1,024	1,272	5,318	105	100	10	8
	Lycoming County	1,373	1,558,698	2,388	2,388	2,967	12,406	244	234	22	19
	McKean County	538	610,790	936	936	1,163	4,861	96	92	9	8
	Mercer County	867	983,837	1,507	1,507	1,873	7,831	154	148	14	12
	Mifflin County	1,162	1,318,663	2,020	2,020	2,511	10,496	207	198	19	16
	Monroe County	1,230	1,395,872	2,139	2,139	2,657	11,110	219	209	20	17
	Montgomery County	672	762,914	1,169	1,169	1,452	6,072	120	114	11	10
	Montour County	154	175,057	268	268	333	1,393	27	26	3	2
	Northampton County	597	677,296	1,038	1,038	1,289	5,391	106	102	10	8

State	County	Total pellet heaters	Total dry mass of pellets burned by pellet heaters (kg/yr)	PM _{2.5} (kg/yr)	PM ₁₀ (kg/yr)	NO _x (kg/yr) as NO ₂	CO (kg/yr)	SO ₂ (kg/yr)	NH ₃ (kg/yr)	Benzene (kg/yr)	Phenol (kg/yr)
	Northumberland County	363	412,035	631	631	784	3,280	65	62	6	5
	Perry County	1,017	1,154,308	1,768	1,768	2,198	9,188	181	173	17	14
	Philadelphia County	115	129,955	199	199	247	1,034	20	19	2	2
	Pike County	762	864,584	1,325	1,325	1,646	6,882	136	130	12	11
	Potter County	570	646,718	991	991	1,231	5,147	101	97	9	8
	Schuylkill County	286	324,124	497	497	617	2,580	51	49	5	4
	Snyder County	673	763,678	1,170	1,170	1,454	6,078	120	115	11	10
	Somerset County	676	767,500	1,176	1,176	1,461	6,109	120	115	11	10
	Sullivan County	238	269,848	413	413	514	2,148	42	40	4	3
	Susquehanna County	1,259	1,428,743	2,189	2,189	2,720	11,372	224	214	21	18
	Tioga County	1,136	1,289,614	1,976	1,976	2,455	10,264	202	193	19	16
	Union County	427	484,657	743	743	923	3,858	76	73	7	6
	Venango County	845	958,611	1,469	1,469	1,825	7,630	150	144	14	12
	Warren County	957	1,085,508	1,663	1,663	2,067	8,640	170	163	16	14
	Washington County	748	849,296	1,301	1,301	1,617	6,760	133	127	12	11
	Wayne County	989	1,122,202	1,719	1,719	2,136	8,932	176	168	16	14
	Westmoreland County	1,025	1,163,481	1,782	1,782	2,215	9,261	183	175	17	15
	Wyoming County	509	577,154	884	884	1,099	4,594	91	87	8	7
	York County	2,226	2,526,482	3,871	3,871	4,810	20,109	396	379	36	32
	Total Pennsylvania	51,234	58,143,496	89,078	89,078	110,695	462,783	9,120	8,722	839	727
Rhode Island	Bristol County	64	72,622	111	111	138	578	11	11	1	1
	Kent County	393	446,434	684	684	850	3,553	70	67	6	6
	Newport County	212	240,799	369	369	458	1,917	38	36	3	3
	Providence County	769	872,993	1,337	1,337	1,662	6,948	137	131	13	11
	Washington County	992	1,126,024	1,725	1,725	2,144	8,962	177	169	16	14
	Total Rhode Island	2,431	2,758,873	4,227	4,227	5,252	21,959	433	414	40	34
District of Columbia	District of Columbia	60	68,035	104	104	130	542	11	10	1	1
	Total D.C.	60	68,035	104	104	130	542	11	10	1	1
Vermont	Addison County	1,078	1,223,108	1,874	1,874	2,329	9,735	192	183	18	15
	Bennington County	647	733,865	1,124	1,124	1,397	5,841	115	110	11	9
	Caledonia County	1,126	1,277,383	1,957	1,957	2,432	10,167	200	192	18	16

State	County	Total pellet heaters	Total dry mass of pellets burned by pellet heaters (kg/yr)	PM _{2.5} (kg/yr)	PM ₁₀ (kg/yr)	NO _x (kg/yr) as NO ₂	CO (kg/yr)	SO ₂ (kg/yr)	NH ₃ (kg/yr)	Benzene (kg/yr)	Phenol (kg/yr)
	Chittenden County	1,235	1,401,988	2,148	2,148	2,669	11,159	220	210	20	18
	Essex County	261	296,604	454	454	565	2,361	47	44	4	4
	Franklin County	1,041	1,181,828	1,811	1,811	2,250	9,407	185	177	17	15
	Grand Isle County	131	149,066	228	228	284	1,186	23	22	2	2
	Lamoille County	785	891,340	1,366	1,366	1,697	7,094	140	134	13	11
	Orange County	1,404	1,593,098	2,441	2,441	3,033	12,680	250	239	23	20
	Orleans County	1,283	1,456,263	2,231	2,231	2,772	11,591	228	218	21	18
	Rutland County	1,243	1,411,161	2,162	2,162	2,687	11,232	221	212	20	18
	Washington County	1,532	1,739,107	2,664	2,664	3,311	13,842	273	261	25	22
	Windham County	1,803	2,045,648	3,134	3,134	3,895	16,282	321	307	30	26
	Windsor County	1,664	1,888,173	2,893	2,893	3,595	15,029	296	283	27	24
	Total Vermont	15,234	17,288,631	26,487	26,487	32,915	137,606	2,712	2,593	249	216
	Total MANE-VU	201,279	228,423,826	349,954	349,954	434,879	1,818,100	35,830	34,264	3,295	2,855

HDD Range	HDD	Total pellet heaters	Total dry mass of pellets burned by pellet heaters (kg/yr)	PM _{2.5} (kg/yr)	PM ₁₀ (kg/yr)	NO _x (kg/yr) as NO ₂	CO (kg/yr)	SO ₂ (kg/yr)	NH ₃ (kg/yr)	Benzene (kg/yr)	Phenol (kg/yr)
> 6500	High	138,289	156,938,515	240,436	240,436	298,784	1,249,125	24,617	23,541	2,264	1,962
5500-6499	Med.	40,286	45,719,012	70,043	70,043	87,041	363,893	7,171	6,858	660	571
< 5499	Low	22,704	25,766,299	39,475	39,475	49,055	205,082	4,042	3,865	372	322

Section 3.2

Table 3.2

Emission Inventory for Pellet Heaters (2002 Base Year)

Section 2

State	County	Total pellet heaters	Total dry mass of pellets burned by pellet heaters (kg/yr)	7-PAH (kg/yr)	16-PAH (kg/yr)	Benzo(a)pyrene (g/yr)	Naphthalene (kg/yr)	1,3-Butadiene (kg/yr)	Formaldehyde (kg/yr)	Acetaldehyde (kg/yr)	Acrolein (kg/yr)
Connecticut	Fairfield County	556	630,665	19	219	2,108	133	0.30	100	30	3.19
	Hartford County	953	1,081,686	33	375	3,615	229	0.51	171	51	5.46
	Litchfield County	1,403	1,592,334	49	552	5,321	337	0.76	252	75	8.04
	Middlesex County	744	844,709	26	293	2,823	179	0.40	133	40	4.27
	New Haven County	1,027	1,165,010	36	404	3,893	246	0.55	184	55	5.89
	New London County	1,188	1,347,712	41	467	4,504	285	0.64	213	63	6.81
	Tolland County	921	1,045,757	32	362	3,495	221	0.50	165	49	5.28
	Windham County	1,212	1,375,996	42	477	4,598	291	0.65	217	65	6.95
	Total Connecticut		8,004	9,083,870	279	3,148	30,357	1,922	4.31	1,435	427
Delaware	Kent County	525	595,501	18	206	1,990	126	0.28	94	28	3.01
	New Castle County	222	251,502	8	87	840	53	0.12	40	12	1.27
	Sussex County	670	760,620	23	264	2,542	161	0.36	120	36	3.84
Total Delaware		1,417	1,607,623	49	557	5,372	340	0.76	254	76	8.12
Maine	Androscoggin County	1,118	1,268,975	39	440	4,241	268	0.60	200	60	6.41
	Aroostook County	1,878	2,131,266	65	738	7,122	451	1.01	337	100	10.77
	Cumberland County	1,700	1,929,453	59	669	6,448	408	0.92	305	91	9.75
	Franklin County	1,208	1,370,645	42	475	4,581	290	0.65	217	64	6.92
	Hancock County	1,386	1,572,458	48	545	5,255	333	0.75	248	74	7.94
	Kennebec County	2,050	2,326,199	71	806	7,774	492	1.10	368	109	11.75
	Knox County	802	910,451	28	315	3,043	193	0.43	144	43	4.60
	Lincoln County	816	925,740	28	321	3,094	196	0.44	146	44	4.68
	Oxford County	1,849	2,098,395	64	727	7,013	444	1.00	332	99	10.60
	Penobscot County	2,298	2,607,513	80	904	8,714	552	1.24	412	123	13.17
	Piscataquis County	771	874,522	27	303	2,923	185	0.42	138	41	4.42
	Sagadahoc County	624	707,874	22	245	2,366	150	0.34	112	33	3.58
	Somerset County	1,712	1,943,213	60	673	6,494	411	0.92	307	91	9.82
Waldo County	1,439	1,633,614	50	566	5,459	346	0.78	258	77	8.25	
Washington County	898	1,019,002	31	353	3,405	216	0.48	161	48	5.15	

State	County	Total pellet heaters	Total dry mass of pellets burned by pellet heaters (kg/yr)	7-PAH (kg/yr)	16-PAH (kg/yr)	Benzo(a)pyrene (g/yr)	Naphthalene (kg/yr)	1,3-Butadiene (kg/yr)	Formaldehyde (kg/yr)	Acetaldehyde (kg/yr)	Acrolein (kg/yr)
	York County	1,943	2,204,652	68	764	7,368	466	1.05	348	104	11.14
	Total Maine	22,491	25,523,970	783	8,844	85,298	5,400	12.12	4,033	1,200	128.95
Maryland	Allegany County	821	931,855	29	323	3,114	197	0.44	147	44	4.71
	Anne Arundel County	715	811,838	25	281	2,713	172	0.39	128	38	4.10
	Baltimore County	724	821,776	25	285	2,746	174	0.39	130	39	4.15
	Calvert County	456	517,528	16	179	1,730	109	0.25	82	24	2.61
	Caroline County	370	420,443	13	146	1,405	89	0.20	66	20	2.12
	Carroll County	1,320	1,498,307	46	519	5,007	317	0.71	237	70	7.57
	Cecil County	483	548,105	17	190	1,832	116	0.26	87	26	2.77
	Charles County	581	658,949	20	228	2,202	139	0.31	104	31	3.33
	Dorchester County	113	128,426	4	44	429	27	0.06	20	6	0.65
	Frederick County	1,346	1,527,356	47	529	5,104	323	0.73	241	72	7.72
	Garrett County	1,049	1,191,001	37	413	3,980	252	0.57	188	56	6.02
	Harford County	770	873,758	27	303	2,920	185	0.42	138	41	4.41
	Howard County	253	287,430	9	100	961	61	0.14	45	14	1.45
	Kent County	163	184,995	6	64	618	39	0.09	29	9	0.93
	Montgomery County	255	288,959	9	100	966	61	0.14	46	14	1.46
	Prince George's County	347	393,688	12	136	1,316	83	0.19	62	19	1.99
	Queen Anne's County	360	408,212	13	141	1,364	86	0.19	64	19	2.06
	St. Mary's County	752	853,882	26	296	2,854	181	0.41	135	40	4.31
	Somerset County	186	210,986	6	73	705	45	0.10	33	10	1.07
	Talbot County	235	266,790	8	92	892	56	0.13	42	13	1.35
	Washington County	1,194	1,354,592	42	469	4,527	287	0.64	214	64	6.84
	Wicomico County	429	486,950	15	169	1,627	103	0.23	77	23	2.46
	Worcester County	277	314,186	10	109	1,050	66	0.15	50	15	1.59
	Baltimore city	84	95,555	3	33	319	20	0.05	15	4	0.48
	Total Maryland	13,284	15,075,570	462	5,224	50,381	3,189	7.16	2,382	709	76.16
Massachusetts	Barnstable County	609	691,056	21	239	2,309	146	0.33	109	32	3.49
	Berkshire County	1,248	1,415,748	43	491	4,731	300	0.67	224	67	7.15
	Bristol County	775	879,873	27	305	2,940	186	0.42	139	41	4.45
	Dukes County	227	257,617	8	89	861	54	0.12	41	12	1.30

State	County	Total pellet heaters	Total dry mass of pellets burned by pellet heaters (kg/yr)	7-PAH (kg/yr)	16-PAH (kg/yr)	Benzo(a)pyrene (g/yr)	Naphthalene (kg/yr)	1,3-Butadiene (kg/yr)	Formaldehyde (kg/yr)	Acetaldehyde (kg/yr)	Acrolein (kg/yr)
	Essex County	872	989,189	30	343	3,306	209	0.47	156	46	5.00
	Franklin County	1,624	1,843,071	57	639	6,159	390	0.88	291	87	9.31
	Hampden County	1,231	1,396,636	43	484	4,667	295	0.66	221	66	7.06
	Hampshire County	1,470	1,668,014	51	578	5,574	353	0.79	264	78	8.43
	Middlesex County	860	975,429	30	338	3,260	206	0.46	154	46	4.93
	Nantucket County	76	86,382	3	30	289	18	0.04	14	4	0.44
	Norfolk County	315	357,759	11	124	1,196	76	0.17	57	17	1.81
	Plymouth County	794	901,278	28	312	3,012	191	0.43	142	42	4.55
	Suffolk County	11	12,996	0	5	43	3	0.01	2	1	0.07
	Worcester County	3,033	3,441,520	106	1,192	11,501	728	1.63	544	162	17.39
	Total Massachusetts	13,144	14,916,566	458	5,169	49,849	3,156	7.09	2,357	701	75.36
New Hampshire	Belknap County	725	822,540	25	285	2,749	174	0.39	130	39	4.16
	Carroll County	1,186	1,346,183	41	466	4,499	285	0.64	213	63	6.80
	Cheshire County	1,730	1,963,088	60	680	6,560	415	0.93	310	92	9.92
	Coos County	614	696,407	21	241	2,327	147	0.33	110	33	3.52
	Grafton County	1,987	2,255,105	69	781	7,536	477	1.07	356	106	11.39
	Hillsborough County	2,133	2,420,989	74	839	8,091	512	1.15	383	114	12.23
	Merrimack County	1,701	1,930,217	59	669	6,451	408	0.92	305	91	9.75
	Rockingham County	1,771	2,009,719	62	696	6,716	425	0.95	318	94	10.15
	Strafford County	785	891,340	27	309	2,979	189	0.42	141	42	4.50
	Sullivan County	992	1,126,024	35	390	3,763	238	0.53	178	53	5.69
	Total New Hampshire	13,624	15,461,614	474	5,357	51,671	3,271	7.34	2,443	727	78.11
New Jersey	Atlantic County	417	473,190	15	164	1,581	100	0.22	75	22	2.39
	Bergen County	67	75,680	2	26	253	16	0.04	12	4	0.38
	Burlington County	382	433,439	13	150	1,448	92	0.21	68	20	2.19
	Camden County	120	136,071	4	47	455	29	0.06	21	6	0.69
	Cape May County	305	346,292	11	120	1,157	73	0.16	55	16	1.75
	Cumberland County	225	255,324	8	88	853	54	0.12	40	12	1.29
	Essex County	42	47,395	1	16	158	10	0.02	7	2	0.24
	Gloucester County	233	264,497	8	92	884	56	0.13	42	12	1.34
	Hudson County	6	6,880	0	2	23	1	0.00	1	0	0.03

State	County	Total pellet heaters	Total dry mass of pellets burned by pellet heaters (kg/yr)	7-PAH (kg/yr)	16-PAH (kg/yr)	Benzo(a)pyrene (g/yr)	Naphthalene (kg/yr)	1,3-Butadiene (kg/yr)	Formaldehyde (kg/yr)	Acetaldehyde (kg/yr)	Acrolein (kg/yr)
	Hunterdon County	278	315,715	10	109	1,055	67	0.15	50	15	1.60
	Mercer County	88	100,142	3	35	335	21	0.05	16	5	0.51
	Middlesex County	130	147,537	5	51	493	31	0.07	23	7	0.75
	Monmouth County	195	221,688	7	77	741	47	0.11	35	10	1.12
	Morris County	302	342,470	11	119	1,144	72	0.16	54	16	1.73
	Ocean County	401	454,843	14	158	1,520	96	0.22	72	21	2.30
	Passaic County	113	128,426	4	44	429	27	0.06	20	6	0.65
	Salem County	174	197,991	6	69	662	42	0.09	31	9	1.00
	Somerset County	112	127,662	4	44	427	27	0.06	20	6	0.64
	Sussex County	678	769,029	24	266	2,570	163	0.37	122	36	3.89
	Union County	53	60,391	2	21	202	13	0.03	10	3	0.31
	Warren County	386	438,026	13	152	1,464	93	0.21	69	21	2.21
	Total New Jersey	4,708	5,342,689	164	1,851	17,855	1,130	2.54	844	251	26.99
New York	Albany County	592	671,945	21	233	2,246	142	0.32	106	32	3.39
	Allegany County	1,332	1,511,303	46	524	5,051	320	0.72	239	71	7.64
	Bronx County	53	59,627	2	21	199	13	0.03	9	3	0.30
	Broome County	1,095	1,242,219	38	430	4,151	263	0.59	196	58	6.28
	Cattaraugus County	1,914	2,172,546	67	753	7,260	460	1.03	343	102	10.98
	Cayuga County	944	1,070,984	33	371	3,579	227	0.51	169	50	5.41
	Chautauqua County	1,652	1,874,413	58	649	6,264	397	0.89	296	88	9.47
	Chemung County	647	733,865	23	254	2,452	155	0.35	116	34	3.71
	Chenango County	1,355	1,538,058	47	533	5,140	325	0.73	243	72	7.77
	Clinton County	938	1,064,104	33	369	3,556	225	0.51	168	50	5.38
	Columbia County	714	810,309	25	281	2,708	171	0.38	128	38	4.09
	Cortland County	734	833,242	26	289	2,785	176	0.40	132	39	4.21
	Delaware County	1,541	1,748,280	54	606	5,843	370	0.83	276	82	8.83
	Dutchess County	864	980,780	30	340	3,278	207	0.47	155	46	4.96
	Erie County	1,507	1,710,058	52	593	5,715	362	0.81	270	80	8.64
	Essex County	756	858,469	26	297	2,869	182	0.41	136	40	4.34
	Franklin County	1,083	1,229,224	38	426	4,108	260	0.58	194	58	6.21
	Fulton County	782	887,518	27	308	2,966	188	0.42	140	42	4.48

State	County	Total pellet heaters	Total dry mass of pellets burned by pellet heaters (kg/yr)	7-PAH (kg/yr)	16-PAH (kg/yr)	Benzo(a)pyrene (g/yr)	Naphthalene (kg/yr)	1,3-Butadiene (kg/yr)	Formaldehyde (kg/yr)	Acetaldehyde (kg/yr)	Acrolein (kg/yr)
	Genesee County	440	499,181	15	173	1,668	106	0.24	79	23	2.52
	Greene County	684	776,674	24	269	2,596	164	0.37	123	37	3.92
	Hamilton County	242	274,435	8	95	917	58	0.13	43	13	1.39
	Herkimer County	919	1,042,700	32	361	3,485	221	0.50	165	49	5.27
	Jefferson County	1,511	1,714,645	53	594	5,730	363	0.81	271	81	8.66
	Kings County	118	133,777	4	46	447	28	0.06	21	6	0.68
	Lewis County	1,627	1,846,129	57	640	6,170	391	0.88	292	87	9.33
	Livingston County	792	898,984	28	311	3,004	190	0.43	142	42	4.54
	Madison County	875	993,011	30	344	3,319	210	0.47	157	47	5.02
	Monroe County	994	1,127,553	35	391	3,768	239	0.54	178	53	5.70
	Montgomery County	480	545,047	17	189	1,821	115	0.26	86	26	2.75
	Nassau County	106	120,017	4	42	401	25	0.06	19	6	0.61
	New York County	86	97,849	3	34	327	21	0.05	15	5	0.49
	Niagara County	534	606,203	19	210	2,026	128	0.29	96	28	3.06
	Oneida County	1,685	1,911,871	59	662	6,389	404	0.91	302	90	9.66
	Onondaga County	1,115	1,265,152	39	438	4,228	268	0.60	200	59	6.39
	Ontario County	951	1,079,393	33	374	3,607	228	0.51	171	51	5.45
	Orange County	626	710,932	22	246	2,376	150	0.34	112	33	3.59
	Orleans County	464	526,701	16	183	1,760	111	0.25	83	25	2.66
	Oswego County	1,685	1,912,635	59	663	6,392	405	0.91	302	90	9.66
	Otsego County	1,427	1,619,854	50	561	5,413	343	0.77	256	76	8.18
	Putnam County	339	384,515	12	133	1,285	81	0.18	61	18	1.94
	Queens County	42	48,160	1	17	161	10	0.02	8	2	0.24
	Rensselaer County	1,353	1,535,765	47	532	5,132	325	0.73	243	72	7.76
	Richmond County	14	16,053	0	6	54	3	0.01	3	1	0.08
	Rockland County	73	83,324	3	29	278	18	0.04	13	4	0.42
	St. Lawrence County	2,379	2,700,011	83	936	9,023	571	1.28	427	127	13.64
	Saratoga County	1,672	1,897,346	58	657	6,341	401	0.90	300	89	9.59
	Schenectady County	289	327,946	10	114	1,096	69	0.16	52	15	1.66
	Schoharie County	812	921,153	28	319	3,078	195	0.44	146	43	4.65
	Schuyler County	468	531,288	16	184	1,775	112	0.25	84	25	2.68

State	County	Total pellet heaters	Total dry mass of pellets burned by pellet heaters (kg/yr)	7-PAH (kg/yr)	16-PAH (kg/yr)	Benzo(a)pyrene (g/yr)	Naphthalene (kg/yr)	1,3-Butadiene (kg/yr)	Formaldehyde (kg/yr)	Acetaldehyde (kg/yr)	Acrolein (kg/yr)
	Seneca County	236	267,555	8	93	894	57	0.13	42	13	1.35
	Steuben County	1,933	2,193,186	67	760	7,329	464	1.04	347	103	11.08
	Suffolk County	556	631,430	19	219	2,110	134	0.30	100	30	3.19
	Sullivan County	909	1,031,233	32	357	3,446	218	0.49	163	48	5.21
	Tioga County	941	1,067,926	33	370	3,569	226	0.51	169	50	5.40
	Tompkins County	1,142	1,296,494	40	449	4,333	274	0.62	205	61	6.55
	Ulster County	1,621	1,839,249	56	637	6,147	389	0.87	291	86	9.29
	Warren County	905	1,026,646	31	356	3,431	217	0.49	162	48	5.19
	Washington County	1,414	1,604,565	49	556	5,362	339	0.76	254	75	8.11
	Wayne County	1,201	1,363,001	42	472	4,555	288	0.65	215	64	6.89
	Westchester County	177	201,048	6	70	672	43	0.10	32	9	1.02
	Wyoming County	804	912,744	28	316	3,050	193	0.43	144	43	4.61
	Yates County	505	572,567	18	198	1,913	121	0.27	90	27	2.89
	Total New York	55,648	63,152,888	1,937	21,882	211,049	13,360	30.00	9,978	2,968	319.06
Pennsylvania	Adams County	1,232	1,398,165	43	484	4,672	296	0.66	221	66	7.06
	Allegheny County	502	569,510	17	197	1,903	120	0.27	90	27	2.88
	Armstrong County	296	335,590	10	116	1,122	71	0.16	53	16	1.70
	Beaver County	421	477,777	15	166	1,597	101	0.23	75	22	2.41
	Bedford County	1,456	1,652,725	51	573	5,523	350	0.79	261	78	8.35
	Berks County	1,270	1,441,739	44	500	4,818	305	0.68	228	68	7.28
	Blair County	600	681,118	21	236	2,276	144	0.32	108	32	3.44
	Bradford County	1,478	1,677,187	51	581	5,605	355	0.80	265	79	8.47
	Bucks County	888	1,008,300	31	349	3,370	213	0.48	159	47	5.09
	Butler County	701	795,785	24	276	2,659	168	0.38	126	37	4.02
	Cambria County	381	431,910	13	150	1,443	91	0.21	68	20	2.18
	Cameron County	102	116,195	4	40	388	25	0.06	18	5	0.59
	Carbon County	174	197,991	6	69	662	42	0.09	31	9	1.00
	Centre County	1,105	1,254,450	38	435	4,192	265	0.60	198	59	6.34
	Chester County	973	1,103,855	34	382	3,689	234	0.52	174	52	5.58
	Clarion County	364	413,563	13	143	1,382	87	0.20	65	19	2.09
	Clearfield County	350	397,510	12	138	1,328	84	0.19	63	19	2.01

State	County	Total pellet heaters	Total dry mass of pellets burned by pellet heaters (kg/yr)	7-PAH (kg/yr)	16-PAH (kg/yr)	Benzo(a)pyrene (g/yr)	Naphthalene (kg/yr)	1,3-Butadiene (kg/yr)	Formaldehyde (kg/yr)	Acetaldehyde (kg/yr)	Acrolein (kg/yr)
	Clinton County	465	527,465	16	183	1,763	112	0.25	83	25	2.66
	Columbia County	449	509,119	16	176	1,701	108	0.24	80	24	2.57
	Crawford County	1,915	2,173,310	67	753	7,263	460	1.03	343	102	10.98
	Cumberland County	1,077	1,222,344	37	424	4,085	259	0.58	193	57	6.18
	Dauphin County	545	618,434	19	214	2,067	131	0.29	98	29	3.12
	Delaware County	85	96,320	3	33	322	20	0.05	15	5	0.49
	Elk County	305	346,292	11	120	1,157	73	0.16	55	16	1.75
	Erie County	1,153	1,308,726	40	453	4,374	277	0.62	207	62	6.61
	Fayette County	650	737,687	23	256	2,465	156	0.35	117	35	3.73
	Forest County	174	197,991	6	69	662	42	0.09	31	9	1.00
	Franklin County	1,902	2,158,786	66	748	7,214	457	1.03	341	101	10.91
	Fulton County	742	842,416	26	292	2,815	178	0.40	133	40	4.26
	Greene County	334	379,163	12	131	1,267	80	0.18	60	18	1.92
	Huntingdon County	1,177	1,335,481	41	463	4,463	283	0.63	211	63	6.75
	Indiana County	604	684,940	21	237	2,289	145	0.33	108	32	3.46
	Jefferson County	372	421,972	13	146	1,410	89	0.20	67	20	2.13
	Juniata County	831	942,558	29	327	3,150	199	0.45	149	44	4.76
	Lackawanna County	316	358,524	11	124	1,198	76	0.17	57	17	1.81
	Lancaster County	2,321	2,634,269	81	913	8,803	557	1.25	416	124	13.31
	Lawrence County	362	411,270	13	143	1,374	87	0.20	65	19	2.08
	Lebanon County	492	558,807	17	194	1,867	118	0.27	88	26	2.82
	Lehigh County	665	754,505	23	261	2,521	160	0.36	119	35	3.81
	Luzerne County	589	668,123	20	232	2,233	141	0.32	106	31	3.38
	Lycoming County	1,373	1,558,698	48	540	5,209	330	0.74	246	73	7.87
	McKean County	538	610,790	19	212	2,041	129	0.29	97	29	3.09
	Mercer County	867	983,837	30	341	3,288	208	0.47	155	46	4.97
	Mifflin County	1,162	1,318,663	40	457	4,407	279	0.63	208	62	6.66
	Monroe County	1,230	1,395,872	43	484	4,665	295	0.66	221	66	7.05
	Montgomery County	672	762,914	23	264	2,550	161	0.36	121	36	3.85
	Montour County	154	175,057	5	61	585	37	0.08	28	8	0.88
	Northampton County	597	677,296	21	235	2,263	143	0.32	107	32	3.42

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	Northumberland County	363	412,035	13	143	1,377	87	0.20	65	19	2.08
	Perry County	1,017	1,154,308	35	400	3,858	244	0.55	182	54	5.83
	Philadelphia County	115	129,955	4	45	434	27	0.06	21	6	0.66
	Pike County	762	864,584	27	300	2,889	183	0.41	137	41	4.37
	Potter County	570	646,718	20	224	2,161	137	0.31	102	30	3.27
	Schuylkill County	286	324,124	10	112	1,083	69	0.15	51	15	1.64
	Snyder County	673	763,678	23	265	2,552	162	0.36	121	36	3.86
	Somerset County	676	767,500	24	266	2,565	162	0.36	121	36	3.88
	Sullivan County	238	269,848	8	94	902	57	0.13	43	13	1.36
	Susquehanna County	1,259	1,428,743	44	495	4,775	302	0.68	226	67	7.22
	Tioga County	1,136	1,289,614	40	447	4,310	273	0.61	204	61	6.52
	Union County	427	484,657	15	168	1,620	103	0.23	77	23	2.45
	Venango County	845	958,611	29	332	3,204	203	0.46	151	45	4.84
	Warren County	957	1,085,508	33	376	3,628	230	0.52	172	51	5.48
	Washington County	748	849,296	26	294	2,838	180	0.40	134	40	4.29
	Wayne County	989	1,122,202	34	389	3,750	237	0.53	177	53	5.67
	Westmoreland County	1,025	1,163,481	36	403	3,888	246	0.55	184	55	5.88
	Wyoming County	509	577,154	18	200	1,929	122	0.27	91	27	2.92
	York County	2,226	2,526,482	78	875	8,443	534	1.20	399	119	12.76
	Total Pennsylvania	51,234	58,143,496	1,784	20,147	194,308	12,300	27.62	9,187	2,733	293.75
Rhode Island	Bristol County	64	72,622	2	25	243	15	0.03	11	3	0.37
	Kent County	393	446,434	14	155	1,492	94	0.21	71	21	2.26
	Newport County	212	240,799	7	83	805	51	0.11	38	11	1.22
	Providence County	769	872,993	27	302	2,917	185	0.41	138	41	4.41
	Washington County	992	1,126,024	35	390	3,763	238	0.53	178	53	5.69
	Total Rhode Island	2,431	2,758,873	85	956	9,220	584	1.31	436	130	13.94
District of Columbia	District of Columbia	60	68,035	2	24	227	14	0.03	11	3	0.34
	Total D.C.	60	68,035	2	24	227	14	0.03	11	3	0.34
Vermont	Addison County	1,078	1,223,108	38	424	4,087	259	0.58	193	57	6.18
	Bennington County	647	733,865	23	254	2,452	155	0.35	116	34	3.71
	Caledonia County	1,126	1,277,383	39	443	4,269	270	0.61	202	60	6.45

State	County	Total pellet heaters	Total dry mass of pellets burned by pellet heaters (kg/yr)	7-PAH (kg/yr)	16-PAH (kg/yr)	Benzo(a)pyrene (g/yr)	Naphthalene (kg/yr)	1,3-Butadiene (kg/yr)	Formaldehyde (kg/yr)	Acetaldehyde (kg/yr)	Acrolein (kg/yr)
	Chittenden County	1,235	1,401,988	43	486	4,685	297	0.67	222	66	7.08
	Essex County	261	296,604	9	103	991	63	0.14	47	14	1.50
	Franklin County	1,041	1,181,828	36	410	3,950	250	0.56	187	56	5.97
	Grand Isle County	131	149,066	5	52	498	32	0.07	24	7	0.75
	Lamoille County	785	891,340	27	309	2,979	189	0.42	141	42	4.50
	Orange County	1,404	1,593,098	49	552	5,324	337	0.76	252	75	8.05
	Orleans County	1,283	1,456,263	45	505	4,867	308	0.69	230	68	7.36
	Rutland County	1,243	1,411,161	43	489	4,716	299	0.67	223	66	7.13
	Washington County	1,532	1,739,107	53	603	5,812	368	0.83	275	82	8.79
	Windham County	1,803	2,045,648	63	709	6,836	433	0.97	323	96	10.33
	Windsor County	1,664	1,888,173	58	654	6,310	399	0.90	298	89	9.54
	Total Vermont	15,234	17,288,631	530	5,991	57,776	3,657	8.21	2,732	813	87.34
	Total MANE-VU	201,279	228,423,826	7,007	79,149	763,364	48,323	109	36,091	10,736	1,154

HDD Range	HDD	Total pellet heaters	Total dry mass of pellets burned by pellet heaters (kg/yr)	7-PAH (kg/yr)	16-PAH (kg/yr)	Benzo(a)pyrene (g/yr)	Naphthalene (kg/yr)	1,3-Butadiene (kg/yr)	Formaldehyde (kg/yr)	Acetaldehyde (kg/yr)	Acrolein (kg/yr)
> 6500	High	138,289	156,938,515	4,814	54,379	524,469	33,200	75	24,796	7,376	793
5500-6499	Med.	40,286	45,719,012	1,403	15,842	152,787	9,672	22	7,224	2,149	231
< 5499	Low	22,704	25,766,299	790	8,928	86,108	5,451	12	4,071	1,211	130

Section 3.2

Table 3.2

Emission Inventory for Pellet Heaters (2002 Base Year)

Section 3

State	County	Total pellet heaters	Total dry mass of pellets burned by pellet heaters (kg/yr)	Cresols (kg/yr)	PCB _{TEQ} (ng/yr)	Dioxin _{TEQ} (ug/yr)	Methane (kg/yr)	VOC (kg/yr)
Connecticut	Fairfield County	556	630,665	5	63	1,198	78	13
	Hartford County	953	1,081,686	8	108	2,055	134	22
	Litchfield County	1,403	1,592,334	12	159	3,025	197	33
	Middlesex County	744	844,709	7	84	1,605	105	17
	New Haven County	1,027	1,165,010	9	117	2,214	144	24
	New London County	1,188	1,347,712	10	135	2,561	167	28
	Tolland County	921	1,045,757	8	105	1,987	130	21
	Windham County	1,212	1,375,996	11	138	2,614	171	28
	Total Connecticut		8,004	9,083,870	70	908	17,259	1,126
Delaware	Kent County	525	595,501	5	60	1,131	74	12
	New Castle County	222	251,502	2	25	478	31	5
	Sussex County	670	760,620	6	76	1,445	94	16
	Total Delaware		1,417	1,607,623	12	161	3,054	199
Maine	Androscoggin County	1,118	1,268,975	10	127	2,411	157	26
	Aroostook County	1,878	2,131,266	17	213	4,049	264	44
	Cumberland County	1,700	1,929,453	15	193	3,666	239	39
	Franklin County	1,208	1,370,645	11	137	2,604	170	28
	Hancock County	1,386	1,572,458	12	157	2,988	195	32
	Kennebec County	2,050	2,326,199	18	233	4,420	288	48
	Knox County	802	910,451	7	91	1,730	113	19
	Lincoln County	816	925,740	7	93	1,759	115	19
	Oxford County	1,849	2,098,395	16	210	3,987	260	43
	Penobscot County	2,298	2,607,513	20	261	4,954	323	53
	Piscataquis County	771	874,522	7	87	1,662	108	18
	Sagadahoc County	624	707,874	5	71	1,345	88	14
	Somerset County	1,712	1,943,213	15	194	3,692	241	40
	Waldo County	1,439	1,633,614	13	163	3,104	203	33
Washington County	898	1,019,002	8	102	1,936	126	21	

State	County	Total pellet heaters	Total dry mass of pellets burned by pellet heaters (kg/yr)	Cresols (kg/yr)	PCB _{TED} (ng/yr)	Dioxin _{TED} (ug/yr)	Methane (kg/yr)	VOC (kg/yr)
	York County	1,943	2,204,652	17	220	4,189	273	45
	Total Maine	22,491	25,523,970	198	2,552	48,496	3,165	521
Maryland	Allegany County	821	931,855	7	93	1,771	116	19
	Anne Arundel County	715	811,838	6	81	1,542	101	17
	Baltimore County	724	821,776	6	82	1,561	102	17
	Calvert County	456	517,528	4	52	983	64	11
	Caroline County	370	420,443	3	42	799	52	9
	Carroll County	1,320	1,498,307	12	150	2,847	186	31
	Cecil County	483	548,105	4	55	1,041	68	11
	Charles County	581	658,949	5	66	1,252	82	13
	Dorchester County	113	128,426	1	13	244	16	3
	Frederick County	1,346	1,527,356	12	153	2,902	189	31
	Garrett County	1,049	1,191,001	9	119	2,263	148	24
	Harford County	770	873,758	7	87	1,660	108	18
	Howard County	253	287,430	2	29	546	36	6
	Kent County	163	184,995	1	18	351	23	4
	Montgomery County	255	288,959	2	29	549	36	6
	Prince George's County	347	393,688	3	39	748	49	8
	Queen Anne's County	360	408,212	3	41	776	51	8
	St. Mary's County	752	853,882	7	85	1,622	106	17
	Somerset County	186	210,986	2	21	401	26	4
	Talbot County	235	266,790	2	27	507	33	5
	Washington County	1,194	1,354,592	11	135	2,574	168	28
	Wicomico County	429	486,950	4	49	925	60	10
	Worcester County	277	314,186	2	31	597	39	6
	Baltimore city	84	95,555	1	10	182	12	2
	Total Maryland	13,284	15,075,570	117	1,508	28,644	1,869	308
Massachusetts	Barnstable County	609	691,056	5	69	1,313	86	14
	Berkshire County	1,248	1,415,748	11	142	2,690	176	29
	Bristol County	775	879,873	7	88	1,672	109	18
	Dukes County	227	257,617	2	26	489	32	5

State	County	Total pellet heaters	Total dry mass of pellets burned by pellet heaters (kg/yr)	Cresols (kg/yr)	PCB _{TEDQ} (ng/yr)	Dioxin _{TEDQ} (ug/yr)	Methane (kg/yr)	VOC (kg/yr)
	Essex County	872	989,189	8	99	1,879	123	20
	Franklin County	1,624	1,843,071	14	184	3,502	229	38
	Hampden County	1,231	1,396,636	11	140	2,654	173	29
	Hampshire County	1,470	1,668,014	13	167	3,169	207	34
	Middlesex County	860	975,429	8	98	1,853	121	20
	Nantucket County	76	86,382	1	9	164	11	2
	Norfolk County	315	357,759	3	36	680	44	7
	Plymouth County	794	901,278	7	90	1,712	112	18
	Suffolk County	11	12,996	0	1	25	2	0
	Worcester County	3,033	3,441,520	27	344	6,539	427	70
	Total Massachusetts	13,144	14,916,566	116	1,492	28,341	1,850	305
New Hampshire	Belknap County	725	822,540	6	82	1,563	102	17
	Carroll County	1,186	1,346,183	10	135	2,558	167	27
	Cheshire County	1,730	1,963,088	15	196	3,730	243	40
	Coos County	614	696,407	5	70	1,323	86	14
	Grafton County	1,987	2,255,105	17	226	4,285	280	46
	Hillsborough County	2,133	2,420,989	19	242	4,600	300	49
	Merrimack County	1,701	1,930,217	15	193	3,667	239	39
	Rockingham County	1,771	2,009,719	16	201	3,818	249	41
	Strafford County	785	891,340	7	89	1,694	111	18
	Sullivan County	992	1,126,024	9	113	2,139	140	23
	Total New Hampshire	13,624	15,461,614	120	1,546	29,377	1,917	316
New Jersey	Atlantic County	417	473,190	4	47	899	59	10
	Bergen County	67	75,680	1	8	144	9	2
	Burlington County	382	433,439	3	43	824	54	9
	Camden County	120	136,071	1	14	259	17	3
	Cape May County	305	346,292	3	35	658	43	7
	Cumberland County	225	255,324	2	26	485	32	5
	Essex County	42	47,395	0	5	90	6	1
	Gloucester County	233	264,497	2	26	503	33	5
	Hudson County	6	6,880	0	1	13	1	0

State	County	Total pellet heaters	Total dry mass of pellets burned by pellet heaters (kg/yr)	Cresols (kg/yr)	PCB _{TED} (ng/yr)	Dioxin _{TED} (ug/yr)	Methane (kg/yr)	VOC (kg/yr)
	Hunterdon County	278	315,715	2	32	600	39	6
	Mercer County	88	100,142	1	10	190	12	2
	Middlesex County	130	147,537	1	15	280	18	3
	Monmouth County	195	221,688	2	22	421	27	5
	Morris County	302	342,470	3	34	651	42	7
	Ocean County	401	454,843	4	45	864	56	9
	Passaic County	113	128,426	1	13	244	16	3
	Salem County	174	197,991	2	20	376	25	4
	Somerset County	112	127,662	1	13	243	16	3
	Sussex County	678	769,029	6	77	1,461	95	16
	Union County	53	60,391	0	6	115	7	1
	Warren County	386	438,026	3	44	832	54	9
	Total New Jersey	4,708	5,342,689	41	534	10,151	662	109
New York	Albany County	592	671,945	5	67	1,277	83	14
	Allegany County	1,332	1,511,303	12	151	2,871	187	31
	Bronx County	53	59,627	0	6	113	7	1
	Broome County	1,095	1,242,219	10	124	2,360	154	25
	Cattaraugus County	1,914	2,172,546	17	217	4,128	269	44
	Cayuga County	944	1,070,984	8	107	2,035	133	22
	Chautauqua County	1,652	1,874,413	15	187	3,561	232	38
	Chemung County	647	733,865	6	73	1,394	91	15
	Chenango County	1,355	1,538,058	12	154	2,922	191	31
	Clinton County	938	1,064,104	8	106	2,022	132	22
	Columbia County	714	810,309	6	81	1,540	100	17
	Cortland County	734	833,242	6	83	1,583	103	17
	Delaware County	1,541	1,748,280	14	175	3,322	217	36
	Dutchess County	864	980,780	8	98	1,863	122	20
	Erie County	1,507	1,710,058	13	171	3,249	212	35
	Essex County	756	858,469	7	86	1,631	106	18
	Franklin County	1,083	1,229,224	10	123	2,336	152	25
	Fulton County	782	887,518	7	89	1,686	110	18

State	County	Total pellet heaters	Total dry mass of pellets burned by pellet heaters (kg/yr)	Cresols (kg/yr)	PCB _{TED} (ng/yr)	Dioxin _{TED} (ug/yr)	Methane (kg/yr)	VOC (kg/yr)
	Genesee County	440	499,181	4	50	948	62	10
	Greene County	684	776,674	6	78	1,476	96	16
	Hamilton County	242	274,435	2	27	521	34	6
	Herkimer County	919	1,042,700	8	104	1,981	129	21
	Jefferson County	1,511	1,714,645	13	171	3,258	213	35
	Kings County	118	133,777	1	13	254	17	3
	Lewis County	1,627	1,846,129	14	185	3,508	229	38
	Livingston County	792	898,984	7	90	1,708	111	18
	Madison County	875	993,011	8	99	1,887	123	20
	Monroe County	994	1,127,553	9	113	2,142	140	23
	Montgomery County	480	545,047	4	55	1,036	68	11
	Nassau County	106	120,017	1	12	228	15	2
	New York County	86	97,849	1	10	186	12	2
	Niagara County	534	606,203	5	61	1,152	75	12
	Oneida County	1,685	1,911,871	15	191	3,633	237	39
	Onondaga County	1,115	1,265,152	10	127	2,404	157	26
	Ontario County	951	1,079,393	8	108	2,051	134	22
	Orange County	626	710,932	6	71	1,351	88	15
	Orleans County	464	526,701	4	53	1,001	65	11
	Oswego County	1,685	1,912,635	15	191	3,634	237	39
	Otsego County	1,427	1,619,854	13	162	3,078	201	33
	Putnam County	339	384,515	3	38	731	48	8
	Queens County	42	48,160	0	5	92	6	1
	Rensselaer County	1,353	1,535,765	12	154	2,918	190	31
	Richmond County	14	16,053	0	2	31	2	0
	Rockland County	73	83,324	1	8	158	10	2
	St. Lawrence County	2,379	2,700,011	21	270	5,130	335	55
	Saratoga County	1,672	1,897,346	15	190	3,605	235	39
	Schenectady County	289	327,946	3	33	623	41	7
	Schoharie County	812	921,153	7	92	1,750	114	19
	Schuyler County	468	531,288	4	53	1,009	66	11

State	County	Total pellet heaters	Total dry mass of pellets burned by pellet heaters (kg/yr)	Cresols (kg/yr)	PCB _{TED} (ng/yr)	Dioxin _{TED} (ug/yr)	Methane (kg/yr)	VOC (kg/yr)
	Seneca County	236	267,555	2	27	508	33	5
	Steuben County	1,933	2,193,186	17	219	4,167	272	45
	Suffolk County	556	631,430	5	63	1,200	78	13
	Sullivan County	909	1,031,233	8	103	1,959	128	21
	Tioga County	941	1,067,926	8	107	2,029	132	22
	Tompkins County	1,142	1,296,494	10	130	2,463	161	26
	Ulster County	1,621	1,839,249	14	184	3,495	228	38
	Warren County	905	1,026,646	8	103	1,951	127	21
	Washington County	1,414	1,604,565	12	160	3,049	199	33
	Wayne County	1,201	1,363,001	11	136	2,590	169	28
	Westchester County	177	201,048	2	20	382	25	4
	Wyoming County	804	912,744	7	91	1,734	113	19
	Yates County	505	572,567	4	57	1,088	71	12
Total New York		55,648	63,152,888	490	6,315	119,990	7,831	1,290
Pennsylvania	Adams County	1,232	1,398,165	11	140	2,657	173	29
	Allegheny County	502	569,510	4	57	1,082	71	12
	Armstrong County	296	335,590	3	34	638	42	7
	Beaver County	421	477,777	4	48	908	59	10
	Bedford County	1,456	1,652,725	13	165	3,140	205	34
	Berks County	1,270	1,441,739	11	144	2,739	179	29
	Blair County	600	681,118	5	68	1,294	84	14
	Bradford County	1,478	1,677,187	13	168	3,187	208	34
	Bucks County	888	1,008,300	8	101	1,916	125	21
	Butler County	701	795,785	6	80	1,512	99	16
	Cambria County	381	431,910	3	43	821	54	9
	Cameron County	102	116,195	1	12	221	14	2
	Carbon County	174	197,991	2	20	376	25	4
	Centre County	1,105	1,254,450	10	125	2,383	156	26
	Chester County	973	1,103,855	9	110	2,097	137	23
	Clarion County	364	413,563	3	41	786	51	8
	Clearfield County	350	397,510	3	40	755	49	8

State	County	Total pellet heaters	Total dry mass of pellets burned by pellet heaters (kg/yr)	Cresols (kg/yr)	PCB _{TED} (ng/yr)	Dioxin _{TED} (ug/yr)	Methane (kg/yr)	VOC (kg/yr)
	Clinton County	465	527,465	4	53	1,002	65	11
	Columbia County	449	509,119	4	51	967	63	10
	Crawford County	1,915	2,173,310	17	217	4,129	269	44
	Cumberland County	1,077	1,222,344	9	122	2,322	152	25
	Dauphin County	545	618,434	5	62	1,175	77	13
	Delaware County	85	96,320	1	10	183	12	2
	Elk County	305	346,292	3	35	658	43	7
	Erie County	1,153	1,308,726	10	131	2,487	162	27
	Fayette County	650	737,687	6	74	1,402	91	15
	Forest County	174	197,991	2	20	376	25	4
	Franklin County	1,902	2,158,786	17	216	4,102	268	44
	Fulton County	742	842,416	7	84	1,601	104	17
	Greene County	334	379,163	3	38	720	47	8
	Huntingdon County	1,177	1,335,481	10	134	2,537	166	27
	Indiana County	604	684,940	5	68	1,301	85	14
	Jefferson County	372	421,972	3	42	802	52	9
	Juniata County	831	942,558	7	94	1,791	117	19
	Lackawanna County	316	358,524	3	36	681	44	7
	Lancaster County	2,321	2,634,269	20	263	5,005	327	54
	Lawrence County	362	411,270	3	41	781	51	8
	Lebanon County	492	558,807	4	56	1,062	69	11
	Lehigh County	665	754,505	6	75	1,434	94	15
	Luzerne County	589	668,123	5	67	1,269	83	14
	Lycoming County	1,373	1,558,698	12	156	2,962	193	32
	McKean County	538	610,790	5	61	1,161	76	12
	Mercer County	867	983,837	8	98	1,869	122	20
	Mifflin County	1,162	1,318,663	10	132	2,505	164	27
	Monroe County	1,230	1,395,872	11	140	2,652	173	29
	Montgomery County	672	762,914	6	76	1,450	95	16
	Montour County	154	175,057	1	18	333	22	4
	Northampton County	597	677,296	5	68	1,287	84	14

State	County	Total pellet heaters	Total dry mass of pellets burned by pellet heaters (kg/yr)	Cresols (kg/yr)	PCB _{TED} (ng/yr)	Dioxin _{TED} (ug/yr)	Methane (kg/yr)	VOC (kg/yr)
	Northumberland County	363	412,035	3	41	783	51	8
	Perry County	1,017	1,154,308	9	115	2,193	143	24
	Philadelphia County	115	129,955	1	13	247	16	3
	Pike County	762	864,584	7	86	1,643	107	18
	Potter County	570	646,718	5	65	1,229	80	13
	Schuylkill County	286	324,124	3	32	616	40	7
	Snyder County	673	763,678	6	76	1,451	95	16
	Somerset County	676	767,500	6	77	1,458	95	16
	Sullivan County	238	269,848	2	27	513	33	6
	Susquehanna County	1,259	1,428,743	11	143	2,715	177	29
	Tioga County	1,136	1,289,614	10	129	2,450	160	26
	Union County	427	484,657	4	48	921	60	10
	Venango County	845	958,611	7	96	1,821	119	20
	Warren County	957	1,085,508	8	109	2,062	135	22
	Washington County	748	849,296	7	85	1,614	105	17
	Wayne County	989	1,122,202	9	112	2,132	139	23
	Westmoreland County	1,025	1,163,481	9	116	2,211	144	24
	Wyoming County	509	577,154	4	58	1,097	72	12
	York County	2,226	2,526,482	20	253	4,800	313	52
	Total Pennsylvania	51,234	58,143,496	451	5,814	110,473	7,210	1,188
Rhode Island	Bristol County	64	72,622	1	7	138	9	1
	Kent County	393	446,434	3	45	848	55	9
	Newport County	212	240,799	2	24	458	30	5
	Providence County	769	872,993	7	87	1,659	108	18
	Washington County	992	1,126,024	9	113	2,139	140	23
	Total Rhode Island	2,431	2,758,873	21	276	5,242	342	56
District of Columbia	District of Columbia	60	68,035	1	7	129	8	1
	Total D.C.	60	68,035	1	7	129	8	1
Vermont	Addison County	1,078	1,223,108	9	122	2,324	152	25
	Bennington County	647	733,865	6	73	1,394	91	15
	Caledonia County	1,126	1,277,383	10	128	2,427	158	26

State	County	Total pellet heaters	Total dry mass of pellets burned by pellet heaters (kg/yr)	Cresols (kg/yr)	PCB _{TEQ} (ng/yr)	Dioxin _{TEQ} (ug/yr)	Methane (kg/yr)	VOC (kg/yr)
	Chittenden County	1,235	1,401,988	11	140	2,664	174	29
	Essex County	261	296,604	2	30	564	37	6
	Franklin County	1,041	1,181,828	9	118	2,245	147	24
	Grand Isle County	131	149,066	1	15	283	18	3
	Lamoille County	785	891,340	7	89	1,694	111	18
	Orange County	1,404	1,593,098	12	159	3,027	198	33
	Orleans County	1,283	1,456,263	11	146	2,767	181	30
	Rutland County	1,243	1,411,161	11	141	2,681	175	29
	Washington County	1,532	1,739,107	13	174	3,304	216	36
	Windham County	1,803	2,045,648	16	205	3,887	254	42
	Windsor County	1,664	1,888,173	15	189	3,588	234	39
	Total Vermont	15,234	17,288,631	134	1,729	32,848	2,144	353
	Total MANE-VU	201,279	228,423,826	1,771	22,842	434,005	28,324	4,666

HDD Range	HDD	Total pellet heaters	Total dry mass of pellets burned by pellet heaters (kg/yr)	Cresols (kg/yr)	PCB _{TEQ} (ng/yr)	Dioxin _{TEQ} (ug/yr)	Methane (kg/yr)	VOC (kg/yr)
> 6500	High	138,289	156,938,515	1,217	15,694	298,183	19,460	3,205
5500-6499	Med.	40,286	45,719,012	355	4,572	86,866	5,669	934
< 5499	Low	22,704	25,766,299	200	2,577	48,956	3,195	526

3.3 Fireplaces without Inserts

3.3.1 Emission Inventory for Fireplaces without Inserts Burning Cordwood

Section 1: PM_{2.5}, PM₁₀, NO_x, CO, SO₂, NH₃, Benzene, Phenol

Section 2: 7-PAH, 16-PAH, Benzo(a)pyrene, Naphthalene, 1,3-Butadiene,
Formaldehyde, Acetaldehyde, Acrolein

Section 3: Cresols, PCB_{TEQ}, Dioxin_{TEQ}, Methane, VOC

3.3.2 Emission Inventory for Fireplaces without Inserts Burning Wax/Fiber Firelogs

Section 1: PM_{2.5}, PM₁₀, NO_x, CO, SO₂, NH₃, Benzene, Phenol

Section 2: 7-PAH, 16-PAH, Benzo(a)pyrene, Naphthalene, 1,3-Butadiene,
Formaldehyde, Acetaldehyde, Acrolein

Section 3: Cresols, PCB_{TEQ}, Dioxin_{TEQ}, Methane, VOC

Section 3.3.1

Table 3.3.1

Emission Inventory for Fireplaces without Inserts Burning Cordwood (2002 Base Year)

Section 1

State	County	Total fireplaces without inserts burning cordwood	Total dry mass of cordwood burned by fireplaces without inserts (kg/yr)	PM _{2.5} (kg/yr)	PM ₁₀ (kg/yr)	NO _x (kg/yr) as NO ₂	CO (kg/yr)	SO ₂ (kg/yr)	NH ₃ (kg/yr)	Benzene (kg/yr)	Phenol (kg/yr)
Connecticut	Fairfield County	7,943	5,303,130	80,961	80,961	7,690	395,613	1,061	4,773	1,818	1,251
	Hartford County	10,853	7,245,930	110,621	110,621	10,507	540,546	1,449	6,521	2,485	1,710
	Litchfield County	2,567	5,757,357	87,896	87,896	8,348	429,499	1,151	5,182	1,974	1,358
	Middlesex County	2,989	1,995,280	30,461	30,461	2,893	148,848	399	1,796	684	471
	New Haven County	14,557	9,718,563	148,370	148,370	14,092	725,005	1,944	8,747	3,332	2,293
	New London County	7,364	4,916,732	75,062	75,062	7,129	366,788	983	4,425	1,686	1,160
	Tolland County	3,280	7,357,811	112,329	112,329	10,669	548,893	1,472	6,622	2,523	1,736
	Windham County	5,087	11,411,427	174,214	174,214	16,547	851,292	2,282	10,270	3,913	2,693
	Total Connecticut		54,639	53,706,229	819,915	819,915	77,874	4,006,485	10,741	48,336	18,415
Delaware	Kent County	4,736	2,916,393	44,524	44,524	4,229	217,563	583	2,625	1,000	688
	New Castle County	19,556	12,043,210	183,860	183,860	17,463	898,423	2,409	10,839	4,129	2,842
	Sussex County	4,071	2,507,168	38,276	38,276	3,635	187,035	501	2,256	860	592
Total Delaware		28,362	17,466,770	266,659	266,659	25,327	1,303,021	3,493	15,720	5,989	4,121
Maine	Androscoggin County	5,201	9,723,389	148,444	148,444	14,099	725,365	1,945	8,751	3,334	2,294
	Aroostook County	2,707	5,061,677	77,275	77,275	7,339	377,601	1,012	4,556	1,736	1,194
	Cumberland County	8,893	16,627,396	253,845	253,845	24,110	1,240,404	3,325	14,965	5,701	3,923
	Franklin County	1,685	3,150,363	48,096	48,096	4,568	235,017	630	2,835	1,080	743
	Hancock County	1,792	3,350,281	51,148	51,148	4,858	249,931	670	3,015	1,149	791
	Kennebec County	3,332	6,230,257	95,115	95,115	9,034	464,777	1,246	5,607	2,136	1,470
	Knox County	1,284	2,400,181	36,643	36,643	3,480	179,054	480	2,160	823	566
	Lincoln County	1,061	1,982,837	30,271	30,271	2,875	147,920	397	1,785	680	468
	Oxford County	2,592	4,846,262	73,986	73,986	7,027	361,531	969	4,362	1,662	1,143
	Penobscot County	3,919	7,327,462	111,866	111,866	10,625	546,629	1,465	6,595	2,513	1,729
	Piscataquis County	993	1,856,236	28,339	28,339	2,692	138,475	371	1,671	636	438
	Sagadahoc County	1,013	1,893,068	28,901	28,901	2,745	141,223	379	1,704	649	447
	Somerset County	2,506	4,685,296	71,529	71,529	6,794	349,523	937	4,217	1,607	1,106
Waldo County	1,993	3,725,707	56,879	56,879	5,402	277,938	745	3,353	1,278	879	
Washington County	1,175	2,197,162	33,543	33,543	3,186	163,908	439	1,977	753	518	

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	York County	3,424	6,402,012	97,737	97,737	9,283	477,590	1,280	5,762	2,195	1,511
	Total Maine	43,569	81,459,586	1,243,616	1,243,616	118,116	6,076,885	16,292	73,314	27,932	19,221
Maryland	Allegany County	3,899	2,366,211	36,124	36,124	3,431	176,519	473	2,130	811	558
	Anne Arundel County	9,657	5,977,388	91,255	91,255	8,667	445,913	1,195	5,380	2,050	1,410
	Baltimore County	5,668	3,508,576	53,564	53,564	5,087	261,740	702	3,158	1,203	828
	Calvert County	2,059	1,274,806	19,462	19,462	1,848	95,101	255	1,147	437	301
	Caroline County	495	306,621	4,681	4,681	445	22,874	61	276	105	72
	Carroll County	3,776	2,337,416	35,685	35,685	3,389	174,371	467	2,104	801	552
	Cecil County	1,846	1,142,706	17,445	17,445	1,657	85,246	229	1,028	392	270
	Charles County	2,414	1,493,968	22,808	22,808	2,166	111,450	299	1,345	512	353
	Dorchester County	165	101,839	1,555	1,555	148	7,597	20	92	35	24
	Frederick County	5,489	3,397,874	51,874	51,874	4,927	253,481	680	3,058	1,165	802
	Garrett County	1,340	2,733,104	41,725	41,725	3,963	203,890	547	2,460	937	645
	Harford County	3,556	2,201,374	33,608	33,608	3,192	164,222	440	1,981	755	519
	Howard County	2,349	1,453,729	22,194	22,194	2,108	108,448	291	1,308	498	343
	Kent County	218	134,916	2,060	2,060	196	10,065	27	121	46	32
	Montgomery County	7,953	4,922,873	75,156	75,156	7,138	367,246	985	4,431	1,688	1,162
	Prince George's County	11,803	7,305,885	111,537	111,537	10,594	545,019	1,461	6,575	2,505	1,724
	Queen Anne's County	880	544,936	8,319	8,319	790	40,652	109	490	187	129
	St. Mary's County	3,705	2,293,621	35,016	35,016	3,326	171,104	459	2,064	786	541
	Somerset County	291	179,987	2,748	2,748	261	13,427	36	162	62	42
	Talbot County	340	210,660	3,216	3,216	305	15,715	42	190	72	50
	Washington County	6,324	3,837,607	58,587	58,587	5,565	286,286	768	3,454	1,316	905
	Wicomico County	838	518,726	7,919	7,919	752	38,697	104	467	178	122
	Worcester County	511	316,617	4,834	4,834	459	23,620	63	285	109	75
	Baltimore city	1,052	651,266	9,943	9,943	944	48,584	130	586	223	154
	Total Maryland	76,629	49,212,706	751,314	751,314	71,358	3,671,268	9,843	44,291	16,875	11,612
Massachusetts	Barnstable County	5,924	3,777,616	57,672	57,672	5,478	281,810	756	3,400	1,295	891
	Berkshire County	6,091	13,049,470	199,222	199,222	18,922	973,490	2,610	11,745	4,475	3,079
	Bristol County	6,724	4,287,548	65,457	65,457	6,217	319,851	858	3,859	1,470	1,012
	Dukes County	321	204,489	3,122	3,122	297	15,255	41	184	70	48

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	Essex County	7,600	4,845,923	73,981	73,981	7,027	361,506	969	4,361	1,662	1,143
	Franklin County	2,551	5,465,913	83,446	83,446	7,926	407,757	1,093	4,919	1,874	1,290
	Hampden County	11,493	24,623,371	375,917	375,917	35,704	1,836,903	4,925	22,161	8,443	5,810
	Hampshire County	8,156	17,473,735	266,766	266,766	25,337	1,303,541	3,495	15,726	5,992	4,123
	Middlesex County	9,217	19,748,067	301,487	301,487	28,635	1,473,206	3,950	17,773	6,771	4,660
	Nantucket County	195	124,508	1,901	1,901	181	9,288	25	112	43	29
	Norfolk County	4,148	2,644,805	40,377	40,377	3,835	197,302	529	2,380	907	624
	Plymouth County	4,820	3,073,577	46,923	46,923	4,457	229,289	615	2,766	1,054	725
	Suffolk County	1,089	694,121	10,597	10,597	1,006	51,781	139	625	238	164
	Worcester County	21,540	46,149,788	704,553	704,553	66,917	3,442,774	9,230	41,535	15,824	10,889
	Total Massachusetts	89,868	146,162,932	2,231,421	2,231,421	211,936	10,903,755	29,233	131,547	50,118	34,488
New Hampshire	Belknap County	1,142	2,327,914	35,539	35,539	3,375	173,662	466	2,095	798	549
	Carroll County	1,455	2,965,831	45,278	45,278	4,300	221,251	593	2,669	1,017	700
	Cheshire County	2,624	5,346,516	81,623	81,623	7,752	398,850	1,069	4,812	1,833	1,262
	Coos County	961	1,958,449	29,899	29,899	2,840	146,100	392	1,763	672	462
	Grafton County	2,947	6,006,016	91,692	91,692	8,709	448,049	1,201	5,405	2,059	1,417
	Hillsborough County	12,982	26,454,577	403,873	403,873	38,359	1,973,511	5,291	23,809	9,071	6,242
	Merrimack County	2,582	5,261,581	80,327	80,327	7,629	392,514	1,052	4,735	1,804	1,241
	Rockingham County	5,463	11,131,869	169,947	169,947	16,141	830,437	2,226	10,019	3,817	2,627
	Strafford County	3,980	8,110,644	123,823	123,823	11,760	605,054	1,622	7,300	2,781	1,914
	Sullivan County	1,501	3,059,446	46,708	46,708	4,436	228,235	612	2,754	1,049	722
	Total New Hampshire	35,638	72,622,842	1,108,709	1,108,709	105,303	5,417,664	14,525	65,361	24,902	17,136
New Jersey	Atlantic County	2,884	1,770,485	27,029	27,029	2,567	132,078	354	1,593	607	418
	Bergen County	6,172	3,714,174	56,703	56,703	5,386	277,077	743	3,343	1,274	876
	Burlington County	3,004	1,843,910	28,150	28,150	2,674	137,556	369	1,660	632	435
	Camden County	2,823	1,733,099	26,459	26,459	2,513	129,289	347	1,560	594	409
	Cape May County	1,882	1,155,134	17,635	17,635	1,675	86,173	231	1,040	396	273
	Cumberland County	1,394	855,864	13,066	13,066	1,241	63,847	171	770	293	202
	Essex County	2,287	1,376,203	21,010	21,010	1,995	102,665	275	1,239	472	325
	Gloucester County	1,623	996,528	15,214	15,214	1,445	74,341	199	897	342	235
	Hudson County	1,651	993,510	15,168	15,168	1,441	74,116	199	894	341	234

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	Hunterdon County	691	415,977	6,351	6,351	603	31,032	83	374	143	98
	Mercer County	1,098	674,098	10,291	10,291	977	50,288	135	607	231	159
	Middlesex County	3,974	2,439,453	37,242	37,242	3,537	181,983	488	2,196	836	576
	Monmouth County	2,088	1,281,958	19,571	19,571	1,859	95,634	256	1,154	440	302
	Morris County	2,229	1,341,705	20,483	20,483	1,945	100,091	268	1,208	460	317
	Ocean County	3,630	2,228,441	34,021	34,021	3,231	166,242	446	2,006	764	526
	Passaic County	1,538	925,502	14,129	14,129	1,342	69,042	185	833	317	218
	Salem County	727	446,039	6,810	6,810	647	33,274	89	401	153	105
	Somerset County	1,041	626,684	9,567	9,567	909	46,751	125	564	215	148
	Sussex County	1,862	1,120,277	17,103	17,103	1,624	83,573	224	1,008	384	264
	Union County	1,642	987,932	15,082	15,082	1,433	73,700	198	889	339	233
	Warren County	1,571	945,232	14,431	14,431	1,371	70,514	189	851	324	223
	Total New Jersey	45,811	27,872,204	425,516	425,516	40,415	2,079,266	5,574	25,085	9,557	6,577
New York	Albany County	4,660	10,062,147	153,615	153,615	14,590	750,636	2,012	9,056	3,450	2,374
	Allegany County	1,277	2,757,953	42,105	42,105	3,999	205,743	552	2,482	946	651
	Bronx County	277	181,329	2,768	2,768	263	13,527	36	163	62	43
	Broome County	4,687	10,119,043	154,484	154,484	14,673	754,881	2,024	9,107	3,470	2,388
	Cattaraugus County	2,086	4,503,505	68,754	68,754	6,530	335,961	901	4,053	1,544	1,063
	Cayuga County	2,706	5,843,420	89,210	89,210	8,473	435,919	1,169	5,259	2,004	1,379
	Chautauqua County	4,795	10,352,797	158,053	158,053	15,012	772,319	2,071	9,318	3,550	2,443
	Chemung County	2,603	5,619,629	85,793	85,793	8,148	419,224	1,124	5,058	1,927	1,326
	Chenango County	1,673	3,613,197	55,161	55,161	5,239	269,545	723	3,252	1,239	853
	Clinton County	1,517	3,276,143	50,016	50,016	4,750	244,400	655	2,949	1,123	773
	Columbia County	1,004	2,167,475	33,090	33,090	3,143	161,694	433	1,951	743	511
	Cortland County	980	2,116,444	32,311	32,311	3,069	157,887	423	1,905	726	499
	Delaware County	1,904	4,111,043	62,762	62,762	5,961	306,684	822	3,700	1,410	970
	Dutchess County	4,926	10,636,667	162,386	162,386	15,423	793,495	2,127	9,573	3,647	2,510
	Erie County	5,702	12,311,606	187,957	187,957	17,852	918,446	2,462	11,080	4,222	2,905
	Essex County	1,088	2,348,994	35,861	35,861	3,406	175,235	470	2,114	805	554
	Franklin County	1,728	3,731,641	56,970	56,970	5,411	278,380	746	3,358	1,280	880
	Fulton County	1,076	2,322,307	35,454	35,454	3,367	173,244	464	2,090	796	548

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	Genesee County	712	1,537,856	23,478	23,478	2,230	114,724	308	1,384	527	363
	Greene County	995	2,147,778	32,789	32,789	3,114	160,224	430	1,933	736	507
	Hamilton County	279	603,341	9,211	9,211	875	45,009	121	543	207	142
	Herkimer County	2,914	6,291,995	96,058	96,058	9,123	469,383	1,258	5,663	2,157	1,485
	Jefferson County	2,039	4,402,166	67,206	67,206	6,383	328,402	880	3,962	1,509	1,039
	Kings County	523	342,607	5,230	5,230	497	25,558	69	308	117	81
	Lewis County	2,105	4,546,101	69,404	69,404	6,592	339,139	909	4,091	1,559	1,073
	Livingston County	1,289	2,782,790	42,484	42,484	4,035	207,596	557	2,505	954	657
	Madison County	2,605	5,625,561	85,884	85,884	8,157	419,667	1,125	5,063	1,929	1,327
	Monroe County	4,169	9,002,468	137,438	137,438	13,054	671,584	1,800	8,102	3,087	2,124
	Montgomery County	1,762	3,803,463	58,066	58,066	5,515	283,738	761	3,423	1,304	897
	Nassau County	8,214	5,383,830	82,193	82,193	7,807	401,634	1,077	4,845	1,846	1,270
	New York County	454	297,274	4,538	4,538	431	22,177	59	268	102	70
	Niagara County	1,774	3,829,647	58,466	58,466	5,553	285,692	766	3,447	1,313	904
	Oneida County	6,332	13,672,977	208,741	208,741	19,826	1,020,004	2,735	12,306	4,688	3,226
	Onondaga County	6,862	14,816,488	226,198	226,198	21,484	1,105,310	2,963	13,335	5,080	3,496
	Ontario County	376	812,751	12,408	12,408	1,178	60,631	163	731	279	192
	Orange County	2,203	4,756,665	72,618	72,618	6,897	354,847	951	4,281	1,631	1,122
	Orleans County	766	1,654,382	25,257	25,257	2,399	123,417	331	1,489	567	390
	Oswego County	4,240	9,154,848	139,764	139,764	13,275	682,952	1,831	8,239	3,139	2,160
	Otsego County	1,862	4,020,147	61,374	61,374	5,829	299,903	804	3,618	1,378	949
	Putnam County	1,325	2,860,356	43,668	43,668	4,148	213,383	572	2,574	981	675
	Queens County	459	300,761	4,592	4,592	436	22,437	60	271	103	71
	Rensselaer County	6,091	13,152,499	200,795	200,795	19,071	981,176	2,630	11,837	4,510	3,103
	Richmond County	96	62,768	958	958	91	4,682	13	56	22	15
	Rockland County	791	1,707,294	26,065	26,065	2,476	127,364	341	1,537	585	403
	St. Lawrence County	3,130	6,758,833	103,185	103,185	9,800	504,209	1,352	6,083	2,318	1,595
	Saratoga County	7,333	15,833,110	241,719	241,719	22,958	1,181,150	3,167	14,250	5,429	3,736
	Schenectady County	2,265	4,891,331	74,674	74,674	7,092	364,893	978	4,402	1,677	1,154
	Schoharie County	2,344	5,061,081	77,266	77,266	7,339	377,557	1,012	4,555	1,735	1,194
	Schuyler County	536	1,158,175	17,681	17,681	1,679	86,400	232	1,042	397	273

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	Seneca County	290	625,114	9,543	9,543	906	46,634	125	563	214	147
	Steuben County	2,059	4,445,304	67,865	67,865	6,446	331,620	889	4,001	1,524	1,049
	Suffolk County	12,588	8,251,354	125,971	125,971	11,964	615,551	1,650	7,426	2,829	1,947
	Sullivan County	1,292	2,789,324	42,584	42,584	4,045	208,084	558	2,510	956	658
	Tioga County	2,743	5,923,727	90,436	90,436	8,589	441,910	1,185	5,331	2,031	1,398
	Tompkins County	1,589	3,430,837	52,377	52,377	4,975	255,940	686	3,088	1,176	810
	Ulster County	2,657	5,737,526	87,593	87,593	8,319	428,019	1,148	5,164	1,967	1,354
	Warren County	3,593	7,758,385	118,445	118,445	11,250	578,776	1,552	6,983	2,660	1,831
	Washington County	4,235	9,143,118	139,585	139,585	13,258	682,077	1,829	8,229	3,135	2,157
	Wayne County	1,758	3,796,302	57,957	57,957	5,505	283,204	759	3,417	1,302	896
	Westchester County	2,959	6,389,579	97,548	97,548	9,265	476,663	1,278	5,751	2,191	1,508
	Wyoming County	878	1,896,530	28,954	28,954	2,750	141,481	379	1,707	650	447
	Yates County	567	1,224,296	18,691	18,691	1,775	91,333	245	1,102	420	289
	Total New York	158,743	308,758,078	4,713,707	4,713,707	447,699	23,033,353	61,752	277,882	105,870	72,853
Pennsylvania	Adams County	1,654	1,078,374	16,463	16,463	1,564	80,447	216	971	370	254
	Allegheny County	12,693	8,274,814	126,329	126,329	11,998	617,301	1,655	7,447	2,837	1,952
	Armstrong County	278	181,231	2,767	2,767	263	13,520	36	163	62	43
	Beaver County	1,739	1,133,402	17,303	17,303	1,643	84,552	227	1,020	389	267
	Bedford County	1,990	1,297,264	19,805	19,805	1,881	96,776	259	1,168	445	306
	Berks County	7,070	4,701,178	71,771	71,771	6,817	350,708	940	4,231	1,612	1,109
	Blair County	2,752	1,793,728	27,384	27,384	2,601	133,812	359	1,614	615	423
	Bradford County	1,813	3,970,879	60,622	60,622	5,758	296,228	794	3,574	1,362	937
	Bucks County	6,208	4,128,143	63,023	63,023	5,986	307,959	826	3,715	1,415	974
	Butler County	1,892	1,233,479	18,831	18,831	1,789	92,018	247	1,110	423	291
	Cambria County	1,644	1,071,531	16,359	16,359	1,554	79,936	214	964	367	253
	Cameron County	129	283,321	4,325	4,325	411	21,136	57	255	97	67
	Carbon County	720	469,335	7,165	7,165	681	35,012	94	422	161	111
	Centre County	5,586	12,236,425	186,809	186,809	17,743	912,837	2,447	11,013	4,196	2,887
	Chester County	4,770	3,171,584	48,420	48,420	4,599	236,600	634	2,854	1,088	748
	Clarion County	303	664,652	10,147	10,147	964	49,583	133	598	228	157
	Clearfield County	517	1,131,811	17,279	17,279	1,641	84,433	226	1,019	388	267

State	County	Total fireplaces without inserts burning cordwood	Total dry mass of cordwood burned by fireplaces without inserts (kg/yr)	PM _{2.5} (kg/yr)	PM ₁₀ (kg/yr)	NO _x (kg/yr) as NO ₂	CO (kg/yr)	SO ₂ (kg/yr)	NH ₃ (kg/yr)	Benzene (kg/yr)	Phenol (kg/yr)
	Clinton County	777	1,701,298	25,973	25,973	2,467	126,917	340	1,531	583	401
	Columbia County	1,851	1,206,491	18,419	18,419	1,749	90,004	241	1,086	414	285
	Crawford County	2,038	4,464,321	68,155	68,155	6,473	333,038	893	4,018	1,531	1,053
	Cumberland County	6,564	4,279,291	65,331	65,331	6,205	319,235	856	3,851	1,467	1,010
	Dauphin County	4,434	2,948,556	45,015	45,015	4,275	219,962	590	2,654	1,011	696
	Delaware County	4,629	3,077,939	46,990	46,990	4,463	229,614	616	2,770	1,055	726
	Elk County	329	720,593	11,001	11,001	1,045	53,756	144	649	247	170
	Erie County	5,246	11,490,083	175,415	175,415	16,661	857,160	2,298	10,341	3,940	2,711
	Fayette County	1,828	1,191,703	18,193	18,193	1,728	88,901	238	1,073	409	281
	Forest County	150	329,212	5,026	5,026	477	24,559	66	296	113	78
	Franklin County	3,232	2,106,844	32,164	32,164	3,055	157,171	421	1,896	722	497
	Fulton County	958	624,290	9,531	9,531	905	46,572	125	562	214	147
	Greene County	347	226,347	3,456	3,456	328	16,885	45	204	78	53
	Huntingdon County	1,730	1,127,482	17,213	17,213	1,635	84,110	225	1,015	387	266
	Indiana County	690	450,094	6,871	6,871	653	33,577	90	405	154	106
	Jefferson County	351	228,941	3,495	3,495	332	17,079	46	206	79	54
	Juniata County	1,137	741,336	11,318	11,318	1,075	55,304	148	667	254	175
	Lackawanna County	1,821	3,988,591	60,892	60,892	5,783	297,549	798	3,590	1,368	941
	Lancaster County	14,353	9,543,665	145,700	145,700	13,838	711,957	1,909	8,589	3,272	2,252
	Lawrence County	477	310,755	4,744	4,744	451	23,182	62	280	107	73
	Lebanon County	2,652	1,763,618	26,925	26,925	2,557	131,566	353	1,587	605	416
	Lehigh County	7,123	4,643,668	70,893	70,893	6,733	346,418	929	4,179	1,592	1,096
	Luzerne County	3,454	7,566,554	115,516	115,516	10,972	564,465	1,513	6,810	2,594	1,785
	Lycoming County	6,316	4,117,550	62,861	62,861	5,970	307,169	824	3,706	1,412	972
	McKean County	463	1,014,276	15,485	15,485	1,471	75,665	203	913	348	239
	Mercer County	2,449	5,364,371	81,896	81,896	7,778	400,182	1,073	4,828	1,839	1,266
	Mifflin County	1,842	1,200,624	18,330	18,330	1,741	89,567	240	1,081	412	283
	Monroe County	2,229	4,882,740	74,543	74,543	7,080	364,252	977	4,394	1,674	1,152
	Montgomery County	3,694	2,456,047	37,496	37,496	3,561	183,221	491	2,210	842	580
	Montour County	229	149,496	2,282	2,282	217	11,152	30	135	51	35
	Northampton County	4,908	3,199,665	48,848	48,848	4,640	238,695	640	2,880	1,097	755

State	County	Total fireplaces without inserts burning cordwood	Total dry mass of cordwood burned by fireplaces without inserts (kg/yr)	PM _{2.5} (kg/yr)	PM ₁₀ (kg/yr)	NO _x (kg/yr) as NO ₂	CO (kg/yr)	SO ₂ (kg/yr)	NH ₃ (kg/yr)	Benzene (kg/yr)	Phenol (kg/yr)
	Northumberland County	653	425,411	6,495	6,495	617	31,736	85	383	146	100
	Perry County	2,952	1,924,373	29,379	29,379	2,790	143,558	385	1,732	660	454
	Philadelphia County	2,736	1,819,254	27,774	27,774	2,638	135,716	364	1,637	624	429
	Pike County	2,110	4,622,280	70,567	70,567	6,702	344,822	924	4,160	1,585	1,091
	Potter County	454	994,096	15,177	15,177	1,441	74,160	199	895	341	235
	Schuylkill County	583	380,027	5,802	5,802	551	28,350	76	342	130	90
	Snyder County	955	622,709	9,507	9,507	903	46,454	125	560	214	147
	Somerset County	1,982	1,292,316	19,729	19,729	1,874	96,407	258	1,163	443	305
	Sullivan County	301	659,817	10,073	10,073	957	49,222	132	594	226	156
	Susquehanna County	1,640	3,591,701	54,833	54,833	5,208	267,941	718	3,233	1,232	847
	Tioga County	993	2,175,615	33,214	33,214	3,155	162,301	435	1,958	746	513
	Union County	790	515,007	7,862	7,862	747	38,420	103	464	177	122
	Venango County	848	1,858,144	28,368	28,368	2,694	138,618	372	1,672	637	438
	Warren County	938	2,054,195	31,361	31,361	2,979	153,243	411	1,849	704	485
	Washington County	2,316	1,510,014	23,053	23,053	2,190	112,647	302	1,359	518	356
	Wayne County	1,251	2,740,803	41,843	41,843	3,974	204,464	548	2,467	940	647
	Westmoreland County	3,545	2,311,187	35,284	35,284	3,351	172,415	462	2,080	792	545
	Wyoming County	1,407	3,081,538	47,045	47,045	4,468	229,883	616	2,773	1,057	727
	York County	10,487	6,836,518	104,371	104,371	9,913	510,004	1,367	6,153	2,344	1,613
	Total Pennsylvania	177,004	173,352,595	2,646,516	2,646,516	251,361	12,932,104	34,671	156,017	59,441	40,903
Rhode Island	Bristol County	745	497,759	7,599	7,599	722	37,133	100	448	171	117
	Kent County	2,640	1,764,068	26,931	26,931	2,558	131,599	353	1,588	605	416
	Newport County	691	461,699	7,049	7,049	669	34,443	92	416	158	109
	Providence County	5,944	3,972,109	60,641	60,641	5,760	296,319	794	3,575	1,362	937
	Washington County	2,963	1,980,002	30,228	30,228	2,871	147,708	396	1,782	679	467
	Total Rhode Island	12,982	8,675,637	132,448	132,448	12,580	647,202	1,735	7,808	2,975	2,047
District of Columbia	District of Columbia	5,085	3,147,865	48,057	48,057	4,564	234,831	630	2,833	1,079	743
	Total D.C.	5,085	3,147,865	48,057	48,057	4,564	234,831	630	2,833	1,079	743
Vermont	Addison County	1,482	3,111,077	47,496	47,496	4,511	232,086	622	2,800	1,067	734
	Bennington County	1,105	2,319,633	35,413	35,413	3,363	173,045	464	2,088	795	547
	Caledonia County	1,456	3,056,476	46,662	46,662	4,432	228,013	611	2,751	1,048	721

State	County	Total fireplaces without inserts burning cordwood	Total dry mass of cordwood burned by fireplaces without inserts (kg/yr)	PM _{2.5} (kg/yr)	PM ₁₀ (kg/yr)	NO _x (kg/yr) as NO ₂	CO (kg/yr)	SO ₂ (kg/yr)	NH ₃ (kg/yr)	Benzene (kg/yr)	Phenol (kg/yr)
	Chittenden County	4,348	9,129,234	139,373	139,373	13,237	681,041	1,826	8,216	3,130	2,154
	Essex County	323	678,736	10,362	10,362	984	50,634	136	611	233	160
	Franklin County	1,272	2,671,192	40,780	40,780	3,873	199,271	534	2,404	916	630
	Grand Isle County	421	884,594	13,505	13,505	1,283	65,991	177	796	303	209
	Lamoille County	994	2,087,135	31,864	31,864	3,026	155,700	417	1,878	716	492
	Orange County	1,507	3,164,024	48,304	48,304	4,588	236,036	633	2,848	1,085	747
	Orleans County	1,662	3,489,520	53,273	53,273	5,060	260,318	698	3,141	1,197	823
	Rutland County	2,122	4,456,270	68,032	68,032	6,462	332,438	891	4,011	1,528	1,051
	Washington County	2,349	4,932,690	75,306	75,306	7,152	367,979	987	4,439	1,691	1,164
	Windham County	2,395	5,029,142	76,778	76,778	7,292	375,174	1,006	4,526	1,724	1,187
	Windsor County	2,359	4,953,129	75,618	75,618	7,182	369,503	991	4,458	1,698	1,169
	Total Vermont	23,795	49,962,852	762,766	762,766	72,446	3,727,229	9,993	44,967	17,132	11,789
	Total MANE-VU	752,127	992,400,295	15,150,645	15,150,645	1,438,980	74,033,062	198,480	893,160	340,284	234,161

HDD Range	HDD	Total fireplaces without inserts burning cordwood	Total dry mass of cordwood burned by fireplaces without inserts (kg/yr)	PM _{2.5} (kg/yr)	PM ₁₀ (kg/yr)	NO _x (kg/yr) as NO ₂	CO (kg/yr)	SO ₂ (kg/yr)	NH ₃ (kg/yr)	Benzene (kg/yr)	Phenol (kg/yr)
> 6500	High	347,705	733,340,795	11,195,669	11,195,669	1,063,344	54,707,223	146,668	660,007	251,455	173,035
5500-6499	Med.	207,623	134,314,166	2,050,530	2,050,530	194,756	10,019,837	26,863	120,883	46,055	31,692
< 5499	Low	196,798	124,745,334	1,904,445	1,904,445	180,881	9,306,002	24,949	112,271	42,774	29,434

Section 3.3.1

Table 3.3.1

Emission Inventory for Fireplaces without Inserts Burning Cordwood (2002 Base Year)

Section 2

State	County	Total fireplaces without inserts burning cordwood	Total dry mass of cordwood burned by fireplaces without inserts (kg/yr)	7-PAH (kg/yr)	16-PAH (kg/yr)	Benzo(a)pyrene (g/yr)	Naphthalene (kg/yr)	1,3-Butadiene (kg/yr)	Formaldehyde (kg/yr)	Acetaldehyde (kg/yr)	Acrolein (kg/yr)
Connecticut	Fairfield County	7,943	5,303,130	583	1,989	1,961	703	417	4,755	2,834	327
	Hartford County	10,853	7,245,930	797	2,717	2,679	960	570	6,497	3,873	447
	Litchfield County	2,567	5,757,357	633	2,159	2,129	763	453	5,162	3,077	355
	Middlesex County	2,989	1,995,280	219	748	738	264	157	1,789	1,066	123
	New Haven County	14,557	9,718,563	1,069	3,644	3,594	1,288	764	8,714	5,194	600
	New London County	7,364	4,916,732	541	1,844	1,818	652	387	4,409	2,628	303
	Tolland County	3,280	7,357,811	809	2,759	2,721	975	579	6,597	3,932	454
	Windham County	5,087	11,411,427	1,255	4,279	4,220	1,512	898	10,232	6,099	704
	Total Connecticut		54,639	53,706,229	5,908	20,140	19,859	7,117	4,224	48,156	28,704
Delaware	Kent County	4,736	2,916,393	321	1,094	1,078	386	229	2,615	1,559	180
	New Castle County	19,556	12,043,210	1,325	4,516	4,453	1,596	947	10,799	6,437	743
	Sussex County	4,071	2,507,168	276	940	927	332	197	2,248	1,340	155
Total Delaware		28,362	17,466,770	1,921	6,550	6,459	2,315	1,374	15,662	9,335	1,078
Maine	Androscoggin County	5,201	9,723,389	1,070	3,646	3,595	1,288	765	8,719	5,197	600
	Aroostook County	2,707	5,061,677	557	1,898	1,872	671	398	4,539	2,705	312
	Cumberland County	8,893	16,627,396	1,829	6,235	6,148	2,203	1,308	14,909	8,887	1,026
	Franklin County	1,685	3,150,363	347	1,181	1,165	417	248	2,825	1,684	194
	Hancock County	1,792	3,350,281	369	1,256	1,239	444	263	3,004	1,791	207
	Kennebec County	3,332	6,230,257	685	2,336	2,304	826	490	5,586	3,330	384
	Knox County	1,284	2,400,181	264	900	888	318	189	2,152	1,283	148
	Lincoln County	1,061	1,982,837	218	744	733	263	156	1,778	1,060	122
	Oxford County	2,592	4,846,262	533	1,817	1,792	642	381	4,345	2,590	299
	Penobscot County	3,919	7,327,462	806	2,748	2,710	971	576	6,570	3,916	452
	Piscataquis County	993	1,856,236	204	696	686	246	146	1,664	992	115
	Sagadahoc County	1,013	1,893,068	208	710	700	251	149	1,697	1,012	117
	Somerset County	2,506	4,685,296	515	1,757	1,733	621	368	4,201	2,504	289
Waldo County	1,993	3,725,707	410	1,397	1,378	494	293	3,341	1,991	230	
Washington County	1,175	2,197,162	242	824	812	291	173	1,970	1,174	136	

State	County	Total fireplaces without inserts burning cordwood	Total dry mass of cordwood burned by fireplaces without inserts (kg/yr)	7-PAH (kg/yr)	16-PAH (kg/yr)	Benzo(a)pyrene (g/yr)	Naphthalene (kg/yr)	1,3-Butadiene (kg/yr)	Formaldehyde (kg/yr)	Acetaldehyde (kg/yr)	Acrolein (kg/yr)
	York County	3,424	6,402,012	704	2,401	2,367	848	504	5,740	3,422	395
	Total Maine	43,569	81,459,586	8,961	30,547	30,122	10,794	6,407	73,041	43,537	5,026
Maryland	Allegany County	3,899	2,366,211	260	887	875	314	186	2,122	1,265	146
	Anne Arundel County	9,657	5,977,388	658	2,242	2,210	792	470	5,360	3,195	369
	Baltimore County	5,668	3,508,576	386	1,316	1,297	465	276	3,146	1,875	216
	Calvert County	2,059	1,274,806	140	478	471	169	100	1,143	681	79
	Caroline County	495	306,621	34	115	113	41	24	275	164	19
	Carroll County	3,776	2,337,416	257	877	864	310	184	2,096	1,249	144
	Cecil County	1,846	1,142,706	126	429	423	151	90	1,025	611	71
	Charles County	2,414	1,493,968	164	560	552	198	118	1,340	798	92
	Dorchester County	165	101,839	11	38	38	13	8	91	54	6
	Frederick County	5,489	3,397,874	374	1,274	1,256	450	267	3,047	1,816	210
	Garrett County	1,340	2,733,104	301	1,025	1,011	362	215	2,451	1,461	169
	Harford County	3,556	2,201,374	242	826	814	292	173	1,974	1,177	136
	Howard County	2,349	1,453,729	160	545	538	193	114	1,303	777	90
	Kent County	218	134,916	15	51	50	18	11	121	72	8
	Montgomery County	7,953	4,922,873	542	1,846	1,820	652	387	4,414	2,631	304
	Prince George's County	11,803	7,305,885	804	2,740	2,702	968	575	6,551	3,905	451
	Queen Anne's County	880	544,936	60	204	202	72	43	489	291	34
	St. Mary's County	3,705	2,293,621	252	860	848	304	180	2,057	1,226	142
	Somerset County	291	179,987	20	67	67	24	14	161	96	11
	Talbot County	340	210,660	23	79	78	28	17	189	113	13
	Washington County	6,324	3,837,607	422	1,439	1,419	509	302	3,441	2,051	237
	Wicomico County	838	518,726	57	195	192	69	41	465	277	32
	Worcester County	511	316,617	35	119	117	42	25	284	169	20
	Baltimore city	1,052	651,266	72	244	241	86	51	584	348	40
	Total Maryland	76,629	49,212,706	5,413	18,455	18,198	6,521	3,871	44,127	26,302	3,036
Massachusetts	Barnstable County	5,924	3,777,616	416	1,417	1,397	501	297	3,387	2,019	233
	Berkshire County	6,091	13,049,470	1,435	4,894	4,825	1,729	1,026	11,701	6,974	805
	Bristol County	6,724	4,287,548	472	1,608	1,585	568	337	3,844	2,292	265
	Dukes County	321	204,489	22	77	76	27	16	183	109	13

State	County	Total fireplaces without inserts burning cordwood	Total dry mass of cordwood burned by fireplaces without inserts (kg/yr)	7-PAH (kg/yr)	16-PAH (kg/yr)	Benzo(a)pyrene (g/yr)	Naphthalene (kg/yr)	1,3-Butadiene (kg/yr)	Formaldehyde (kg/yr)	Acetaldehyde (kg/yr)	Acrolein (kg/yr)
	Essex County	7,600	4,845,923	533	1,817	1,792	642	381	4,345	2,590	299
	Franklin County	2,551	5,465,913	601	2,050	2,021	724	430	4,901	2,921	337
	Hampden County	11,493	24,623,371	2,709	9,234	9,105	3,263	1,937	22,079	13,160	1,519
	Hampshire County	8,156	17,473,735	1,922	6,553	6,461	2,315	1,374	15,668	9,339	1,078
	Middlesex County	9,217	19,748,067	2,172	7,406	7,302	2,617	1,553	17,707	10,555	1,218
	Nantucket County	195	124,508	14	47	46	16	10	112	67	8
	Norfolk County	4,148	2,644,805	291	992	978	350	208	2,371	1,414	163
	Plymouth County	4,820	3,073,577	338	1,153	1,137	407	242	2,756	1,643	190
	Suffolk County	1,089	694,121	76	260	257	92	55	622	371	43
	Worcester County	21,540	46,149,788	5,076	17,306	17,065	6,115	3,630	41,381	24,665	2,847
	Total Massachusetts	89,868	146,162,932	16,078	54,811	54,048	19,368	11,496	131,058	78,119	9,018
New Hampshire	Belknap County	1,142	2,327,914	256	873	861	308	183	2,087	1,244	144
	Carroll County	1,455	2,965,831	326	1,112	1,097	393	233	2,659	1,585	183
	Cheshire County	2,624	5,346,516	588	2,005	1,977	708	421	4,794	2,858	330
	Coos County	961	1,958,449	215	734	724	260	154	1,756	1,047	121
	Grafton County	2,947	6,006,016	661	2,252	2,221	796	472	5,385	3,210	371
	Hillsborough County	12,982	26,454,577	2,910	9,920	9,782	3,505	2,081	23,721	14,139	1,632
	Merrimack County	2,582	5,261,581	579	1,973	1,946	697	414	4,718	2,812	325
	Rockingham County	5,463	11,131,869	1,225	4,174	4,116	1,475	876	9,981	5,950	687
	Strafford County	3,980	8,110,644	892	3,041	2,999	1,075	638	7,272	4,335	500
	Sullivan County	1,501	3,059,446	337	1,147	1,131	405	241	2,743	1,635	189
	Total New Hampshire	35,638	72,622,842	7,989	27,234	26,854	9,623	5,712	65,118	38,814	4,481
New Jersey	Atlantic County	2,884	1,770,485	195	664	655	235	139	1,588	946	109
	Bergen County	6,172	3,714,174	409	1,393	1,373	492	292	3,330	1,985	229
	Burlington County	3,004	1,843,910	203	691	682	244	145	1,653	986	114
	Camden County	2,823	1,733,099	191	650	641	230	136	1,554	926	107
	Cape May County	1,882	1,155,134	127	433	427	153	91	1,036	617	71
	Cumberland County	1,394	855,864	94	321	316	113	67	767	457	53
	Essex County	2,287	1,376,203	151	516	509	182	108	1,234	736	85
	Gloucester County	1,623	996,528	110	374	368	132	78	894	533	61
	Hudson County	1,651	993,510	109	373	367	132	78	891	531	61

State	County	Total fireplaces without inserts burning cordwood	Total dry mass of cordwood burned by fireplaces without inserts (kg/yr)	7-PAH (kg/yr)	16-PAH (kg/yr)	Benzo(a)pyrene (g/yr)	Naphthalene (kg/yr)	1,3-Butadiene (kg/yr)	Formaldehyde (kg/yr)	Acetaldehyde (kg/yr)	Acrolein (kg/yr)
	Hunterdon County	691	415,977	46	156	154	55	33	373	222	26
	Mercer County	1,098	674,098	74	253	249	89	53	604	360	42
	Middlesex County	3,974	2,439,453	268	915	902	323	192	2,187	1,304	151
	Monmouth County	2,088	1,281,958	141	481	474	170	101	1,149	685	79
	Morris County	2,229	1,341,705	148	503	496	178	106	1,203	717	83
	Ocean County	3,630	2,228,441	245	836	824	295	175	1,998	1,191	137
	Passaic County	1,538	925,502	102	347	342	123	73	830	495	57
	Salem County	727	446,039	49	167	165	59	35	400	238	28
	Somerset County	1,041	626,684	69	235	232	83	49	562	335	39
	Sussex County	1,862	1,120,277	123	420	414	148	88	1,005	599	69
	Union County	1,642	987,932	109	370	365	131	78	886	528	61
	Warren County	1,571	945,232	104	354	350	125	74	848	505	58
	Total New Jersey	45,811	27,872,204	3,066	10,452	10,307	3,693	2,192	24,992	14,897	1,720
New York	Albany County	4,660	10,062,147	1,107	3,773	3,721	1,333	791	9,022	5,378	621
	Allegany County	1,277	2,757,953	303	1,034	1,020	365	217	2,473	1,474	170
	Bronx County	277	181,329	20	68	67	24	14	163	97	11
	Broome County	4,687	10,119,043	1,113	3,795	3,742	1,341	796	9,073	5,408	624
	Cattaraugus County	2,086	4,503,505	495	1,689	1,665	597	354	4,038	2,407	278
	Cayuga County	2,706	5,843,420	643	2,191	2,161	774	460	5,240	3,123	361
	Chautauqua County	4,795	10,352,797	1,139	3,882	3,828	1,372	814	9,283	5,533	639
	Chemung County	2,603	5,619,629	618	2,107	2,078	745	442	5,039	3,003	347
	Chenango County	1,673	3,613,197	397	1,355	1,336	479	284	3,240	1,931	223
	Clinton County	1,517	3,276,143	360	1,229	1,211	434	258	2,938	1,751	202
	Columbia County	1,004	2,167,475	238	813	801	287	170	1,943	1,158	134
	Cortland County	980	2,116,444	233	794	783	280	166	1,898	1,131	131
	Delaware County	1,904	4,111,043	452	1,542	1,520	545	323	3,686	2,197	254
	Dutchess County	4,926	10,636,667	1,170	3,989	3,933	1,409	837	9,537	5,685	656
	Erie County	5,702	12,311,606	1,354	4,617	4,553	1,631	968	11,039	6,580	760
	Essex County	1,088	2,348,994	258	881	869	311	185	2,106	1,255	145
	Franklin County	1,728	3,731,641	410	1,399	1,380	494	293	3,346	1,994	230
	Fulton County	1,076	2,322,307	255	871	859	308	183	2,082	1,241	143

State	County	Total fireplaces without inserts burning cordwood	Total dry mass of cordwood burned by fireplaces without inserts (kg/yr)	7-PAH (kg/yr)	16-PAH (kg/yr)	Benzo(a)pyrene (g/yr)	Naphthalene (kg/yr)	1,3-Butadiene (kg/yr)	Formaldehyde (kg/yr)	Acetaldehyde (kg/yr)	Acrolein (kg/yr)
	Genesee County	712	1,537,856	169	577	569	204	121	1,379	822	95
	Greene County	995	2,147,778	236	805	794	285	169	1,926	1,148	133
	Hamilton County	279	603,341	66	226	223	80	47	541	322	37
	Herkimer County	2,914	6,291,995	692	2,359	2,327	834	495	5,642	3,363	388
	Jefferson County	2,039	4,402,166	484	1,651	1,628	583	346	3,947	2,353	272
	Kings County	523	342,607	38	128	127	45	27	307	183	21
	Lewis County	2,105	4,546,101	500	1,705	1,681	602	358	4,076	2,430	280
	Livingston County	1,289	2,782,790	306	1,044	1,029	369	219	2,495	1,487	172
	Madison County	2,605	5,625,561	619	2,110	2,080	745	442	5,044	3,007	347
	Monroe County	4,169	9,002,468	990	3,376	3,329	1,193	708	8,072	4,812	555
	Montgomery County	1,762	3,803,463	418	1,426	1,406	504	299	3,410	2,033	235
	Nassau County	8,214	5,383,830	592	2,019	1,991	713	423	4,827	2,877	332
	New York County	454	297,274	33	111	110	39	23	267	159	18
	Niagara County	1,774	3,829,647	421	1,436	1,416	507	301	3,434	2,047	236
	Oneida County	6,332	13,672,977	1,504	5,127	5,056	1,812	1,075	12,260	7,308	844
	Onondaga County	6,862	14,816,488	1,630	5,556	5,479	1,963	1,165	13,285	7,919	914
	Ontario County	376	812,751	89	305	301	108	64	729	434	50
	Orange County	2,203	4,756,665	523	1,784	1,759	630	374	4,265	2,542	293
	Orleans County	766	1,654,382	182	620	612	219	130	1,483	884	102
	Oswego County	4,240	9,154,848	1,007	3,433	3,385	1,213	720	8,209	4,893	565
	Otsego County	1,862	4,020,147	442	1,508	1,487	533	316	3,605	2,149	248
	Putnam County	1,325	2,860,356	315	1,073	1,058	379	225	2,565	1,529	176
	Queens County	459	300,761	33	113	111	40	24	270	161	19
	Rensselaer County	6,091	13,152,499	1,447	4,932	4,864	1,743	1,034	11,793	7,030	811
	Richmond County	96	62,768	7	24	23	8	5	56	34	4
	Rockland County	791	1,707,294	188	640	631	226	134	1,531	912	105
	St. Lawrence County	3,130	6,758,833	743	2,535	2,499	896	532	6,060	3,612	417
	Saratoga County	7,333	15,833,110	1,742	5,937	5,855	2,098	1,245	14,197	8,462	977
	Schenectady County	2,265	4,891,331	538	1,834	1,809	648	385	4,386	2,614	302
	Schoharie County	2,344	5,061,081	557	1,898	1,871	671	398	4,538	2,705	312
	Schuyler County	536	1,158,175	127	434	428	153	91	1,038	619	71

State	County	Total fireplaces without inserts burning cordwood	Total dry mass of cordwood burned by fireplaces without inserts (kg/yr)	7-PAH (kg/yr)	16-PAH (kg/yr)	Benzo(a)pyrene (g/yr)	Naphthalene (kg/yr)	1,3-Butadiene (kg/yr)	Formaldehyde (kg/yr)	Acetaldehyde (kg/yr)	Acrolein (kg/yr)
	Seneca County	290	625,114	69	234	231	83	49	561	334	39
	Steuben County	2,059	4,445,304	489	1,667	1,644	589	350	3,986	2,376	274
	Suffolk County	12,588	8,251,354	908	3,094	3,051	1,093	649	7,399	4,410	509
	Sullivan County	1,292	2,789,324	307	1,046	1,031	370	219	2,501	1,491	172
	Tioga County	2,743	5,923,727	652	2,221	2,190	785	466	5,312	3,166	365
	Tompkins County	1,589	3,430,837	377	1,287	1,269	455	270	3,076	1,834	212
	Ulster County	2,657	5,737,526	631	2,152	2,122	760	451	5,145	3,067	354
	Warren County	3,593	7,758,385	853	2,909	2,869	1,028	610	6,957	4,147	479
	Washington County	4,235	9,143,118	1,006	3,429	3,381	1,212	719	8,198	4,887	564
	Wayne County	1,758	3,796,302	418	1,424	1,404	503	299	3,404	2,029	234
	Westchester County	2,959	6,389,579	703	2,396	2,363	847	503	5,729	3,415	394
	Wyoming County	878	1,896,530	209	711	701	251	149	1,701	1,014	117
	Yates County	567	1,224,296	135	459	453	162	96	1,098	654	76
	Total New York	158,743	308,758,078	33,963	115,784	114,172	40,914	24,284	276,851	165,021	19,050
Pennsylvania	Adams County	1,654	1,078,374	119	404	399	143	85	967	576	67
	Allegheny County	12,693	8,274,814	910	3,103	3,060	1,096	651	7,420	4,423	511
	Armstrong County	278	181,231	20	68	67	24	14	163	97	11
	Beaver County	1,739	1,133,402	125	425	419	150	89	1,016	606	70
	Bedford County	1,990	1,297,264	143	486	480	172	102	1,163	693	80
	Berks County	7,070	4,701,178	517	1,763	1,738	623	370	4,215	2,513	290
	Blair County	2,752	1,793,728	197	673	663	238	141	1,608	959	111
	Bradford County	1,813	3,970,879	437	1,489	1,468	526	312	3,561	2,122	245
	Bucks County	6,208	4,128,143	454	1,548	1,526	547	325	3,702	2,206	255
	Butler County	1,892	1,233,479	136	463	456	163	97	1,106	659	76
	Cambria County	1,644	1,071,531	118	402	396	142	84	961	573	66
	Cameron County	129	283,321	31	106	105	38	22	254	151	17
	Carbon County	720	469,335	52	176	174	62	37	421	251	29
	Centre County	5,586	12,236,425	1,346	4,589	4,525	1,621	962	10,972	6,540	755
	Chester County	4,770	3,171,584	349	1,189	1,173	420	249	2,844	1,695	196
	Clarion County	303	664,652	73	249	246	88	52	596	355	41
	Clearfield County	517	1,131,811	124	424	419	150	89	1,015	605	70

State	County	Total fireplaces without inserts burning cordwood	Total dry mass of cordwood burned by fireplaces without inserts (kg/yr)	7-PAH (kg/yr)	16-PAH (kg/yr)	Benzo(a)pyrene (g/yr)	Naphthalene (kg/yr)	1,3-Butadiene (kg/yr)	Formaldehyde (kg/yr)	Acetaldehyde (kg/yr)	Acrolein (kg/yr)
	Clinton County	777	1,701,298	187	638	629	225	134	1,525	909	105
	Columbia County	1,851	1,206,491	133	452	446	160	95	1,082	645	74
	Crawford County	2,038	4,464,321	491	1,674	1,651	592	351	4,003	2,386	275
	Cumberland County	6,564	4,279,291	471	1,605	1,582	567	337	3,837	2,287	264
	Dauphin County	4,434	2,948,556	324	1,106	1,090	391	232	2,644	1,576	182
	Delaware County	4,629	3,077,939	339	1,154	1,138	408	242	2,760	1,645	190
	Elk County	329	720,593	79	270	266	95	57	646	385	44
	Erie County	5,246	11,490,083	1,264	4,309	4,249	1,523	904	10,303	6,141	709
	Fayette County	1,828	1,191,703	131	447	441	158	94	1,069	637	74
	Forest County	150	329,212	36	123	122	44	26	295	176	20
	Franklin County	3,232	2,106,844	232	790	779	279	166	1,889	1,126	130
	Fulton County	958	624,290	69	234	231	83	49	560	334	39
	Greene County	347	226,347	25	85	84	30	18	203	121	14
	Huntingdon County	1,730	1,127,482	124	423	417	149	89	1,011	603	70
	Indiana County	690	450,094	50	169	166	60	35	404	241	28
	Jefferson County	351	228,941	25	86	85	30	18	205	122	14
	Juniata County	1,137	741,336	82	278	274	98	58	665	396	46
	Lackawanna County	1,821	3,988,591	439	1,496	1,475	529	314	3,576	2,132	246
	Lancaster County	14,353	9,543,665	1,050	3,579	3,529	1,265	751	8,557	5,101	589
	Lawrence County	477	310,755	34	117	115	41	24	279	166	19
	Lebanon County	2,652	1,763,618	194	661	652	234	139	1,581	943	109
	Lehigh County	7,123	4,643,668	511	1,741	1,717	615	365	4,164	2,482	287
	Luzerne County	3,454	7,566,554	832	2,837	2,798	1,003	595	6,785	4,044	467
	Lycoming County	6,316	4,117,550	453	1,544	1,523	546	324	3,692	2,201	254
	McKean County	463	1,014,276	112	380	375	134	80	909	542	63
	Mercer County	2,449	5,364,371	590	2,012	1,984	711	422	4,810	2,867	331
	Mifflin County	1,842	1,200,624	132	450	444	159	94	1,077	642	74
	Monroe County	2,229	4,882,740	537	1,831	1,806	647	384	4,378	2,610	301
	Montgomery County	3,694	2,456,047	270	921	908	325	193	2,202	1,313	152
	Montour County	229	149,496	16	56	55	20	12	134	80	9
	Northampton County	4,908	3,199,665	352	1,200	1,183	424	252	2,869	1,710	197

State	County	Total fireplaces without inserts burning cordwood	Total dry mass of cordwood burned by fireplaces without inserts (kg/yr)	7-PAH (kg/yr)	16-PAH (kg/yr)	Benzo(a)pyrene (g/yr)	Naphthalene (kg/yr)	1,3-Butadiene (kg/yr)	Formaldehyde (kg/yr)	Acetaldehyde (kg/yr)	Acrolein (kg/yr)
	Northumberland County	653	425,411	47	160	157	56	33	381	227	26
	Perry County	2,952	1,924,373	212	722	712	255	151	1,726	1,029	119
	Philadelphia County	2,736	1,819,254	200	682	673	241	143	1,631	972	112
	Pike County	2,110	4,622,280	508	1,733	1,709	612	364	4,145	2,470	285
	Potter County	454	994,096	109	373	368	132	78	891	531	61
	Schuylkill County	583	380,027	42	143	141	50	30	341	203	23
	Snyder County	955	622,709	68	234	230	83	49	558	333	38
	Somerset County	1,982	1,292,316	142	485	478	171	102	1,159	691	80
	Sullivan County	301	659,817	73	247	244	87	52	592	353	41
	Susquehanna County	1,640	3,591,701	395	1,347	1,328	476	282	3,221	1,920	222
	Tioga County	993	2,175,615	239	816	804	288	171	1,951	1,163	134
	Union County	790	515,007	57	193	190	68	41	462	275	32
	Venango County	848	1,858,144	204	697	687	246	146	1,666	993	115
	Warren County	938	2,054,195	226	770	760	272	162	1,842	1,098	127
	Washington County	2,316	1,510,014	166	566	558	200	119	1,354	807	93
	Wayne County	1,251	2,740,803	301	1,028	1,013	363	216	2,458	1,465	169
	Westmoreland County	3,545	2,311,187	254	867	855	306	182	2,072	1,235	143
	Wyoming County	1,407	3,081,538	339	1,156	1,139	408	242	2,763	1,647	190
	York County	10,487	6,836,518	752	2,564	2,528	906	538	6,130	3,654	422
	Total Pennsylvania	177,004	173,352,595	19,069	65,007	64,102	22,971	13,634	155,438	92,651	10,696
Rhode Island	Bristol County	745	497,759	55	187	184	66	39	446	266	31
	Kent County	2,640	1,764,068	194	662	652	234	139	1,582	943	109
	Newport County	691	461,699	51	173	171	61	36	414	247	28
	Providence County	5,944	3,972,109	437	1,490	1,469	526	312	3,562	2,123	245
	Washington County	2,963	1,980,002	218	743	732	262	156	1,775	1,058	122
	Total Rhode Island	12,982	8,675,637	954	3,253	3,208	1,150	682	7,779	4,637	535
District of Columbia	District of Columbia	5,085	3,147,865	346	1,180	1,164	417	248	2,823	1,682	194
	Total D.C.	5,085	3,147,865	346	1,180	1,164	417	248	2,823	1,682	194
Vermont	Addison County	1,482	3,111,077	342	1,167	1,150	412	245	2,790	1,663	192
	Bennington County	1,105	2,319,633	255	870	858	307	182	2,080	1,240	143
	Caledonia County	1,456	3,056,476	336	1,146	1,130	405	240	2,741	1,634	189

State	County	Total fireplaces without inserts burning cordwood	Total dry mass of cordwood burned by fireplaces without inserts (kg/yr)	7-PAH (kg/yr)	16-PAH (kg/yr)	Benzo(a)pyrene (g/yr)	Naphthalene (kg/yr)	1,3-Butadiene (kg/yr)	Formaldehyde (kg/yr)	Acetaldehyde (kg/yr)	Acrolein (kg/yr)
	Chittenden County	4,348	9,129,234	1,004	3,423	3,376	1,210	718	8,186	4,879	563
	Essex County	323	678,736	75	255	251	90	53	609	363	42
	Franklin County	1,272	2,671,192	294	1,002	988	354	210	2,395	1,428	165
	Grand Isle County	421	884,594	97	332	327	117	70	793	473	55
	Lamoille County	994	2,087,135	230	783	772	277	164	1,871	1,116	129
	Orange County	1,507	3,164,024	348	1,187	1,170	419	249	2,837	1,691	195
	Orleans County	1,662	3,489,520	384	1,309	1,290	462	274	3,129	1,865	215
	Rutland County	2,122	4,456,270	490	1,671	1,648	591	350	3,996	2,382	275
	Washington County	2,349	4,932,690	543	1,850	1,824	654	388	4,423	2,636	304
	Windham County	2,395	5,029,142	553	1,886	1,860	666	396	4,509	2,688	310
	Windsor County	2,359	4,953,129	545	1,857	1,832	656	390	4,441	2,647	306
	Total Vermont	23,795	49,962,852	5,496	18,736	18,475	6,621	3,930	44,800	26,703	3,083
	Total MANE-VU	752,127	992,400,295	109,164	372,150	366,968	131,503	78,052	889,844	530,404	61,230

HDD Range	HDD	Total fireplaces without inserts burning cordwood	Total dry mass of cordwood burned by fireplaces without inserts (kg/yr)	7-PAH (kg/yr)	16-PAH (kg/yr)	Benzo(a)pyrene (g/yr)	Naphthalene (kg/yr)	1,3-Butadiene (kg/yr)	Formaldehyde (kg/yr)	Acetaldehyde (kg/yr)	Acrolein (kg/yr)
> 6500	High	347,705	515,084,606	80,667	275,003	271,173	97,175	57,677	657,556	391,945	45,247
5500-6499	Med.	207,623	104,765,050	14,775	50,368	49,666	17,798	10,564	120,434	71,786	8,287
< 5499	Low	196,798	92,949,026	13,722	46,780	46,128	16,530	9,811	111,854	66,672	7,697

Section 3.3.1

Table 3.3.1

Emission Inventory for Fireplaces without Inserts Burning Cordwood (2002 Base Year)

Section 3

State	County	Total fireplaces without inserts burning cordwood	Total dry mass of cordwood burned by fireplaces without inserts (kg/yr)	Cresols (kg/yr)	PCB _{TEQ} (ng/yr)	Dioxin _{TEQ} (ug/yr)	Methane (kg/yr)	VOC (kg/yr)
Connecticut	Fairfield County	7,943	5,303,130	946	1,991	2,086	38,218	49,988
	Hartford County	10,853	7,245,930	1,292	2,721	2,851	52,219	68,301
	Litchfield County	2,567	5,757,357	1,027	2,162	2,265	41,491	54,269
	Middlesex County	2,989	1,995,280	356	749	785	14,379	18,808
	New Haven County	14,557	9,718,563	1,733	3,649	3,824	70,038	91,608
	New London County	7,364	4,916,732	877	1,846	1,934	35,433	46,346
	Tolland County	3,280	7,357,811	1,312	2,763	2,895	53,025	69,356
	Windham County	5,087	11,411,427	2,035	4,285	4,490	82,238	107,565
	Total Connecticut		54,639	53,706,229	9,577	20,167	21,130	387,043
Delaware	Kent County	4,736	2,916,393	520	1,095	1,147	21,017	27,490
	New Castle County	19,556	12,043,210	2,147	4,522	4,738	86,791	113,521
	Sussex County	4,071	2,507,168	447	941	986	18,068	23,633
Total Delaware		28,362	17,466,770	3,115	6,559	6,872	125,877	164,644
Maine	Androscoggin County	5,201	9,723,389	1,734	3,651	3,826	70,073	91,654
	Aroostook County	2,707	5,061,677	903	1,901	1,991	36,478	47,712
	Cumberland County	8,893	16,627,396	2,965	6,244	6,542	119,828	156,732
	Franklin County	1,685	3,150,363	562	1,183	1,239	22,704	29,696
	Hancock County	1,792	3,350,281	597	1,258	1,318	24,144	31,580
	Kennebec County	3,332	6,230,257	1,111	2,340	2,451	44,899	58,727
	Knox County	1,284	2,400,181	428	901	944	17,297	22,624
	Lincoln County	1,061	1,982,837	354	745	780	14,290	18,690
	Oxford County	2,592	4,846,262	864	1,820	1,907	34,925	45,681
	Penobscot County	3,919	7,327,462	1,307	2,752	2,883	52,807	69,069
	Piscataquis County	993	1,856,236	331	697	730	13,377	17,497
	Sagadahoc County	1,013	1,893,068	338	711	745	13,643	17,844
	Somerset County	2,506	4,685,296	835	1,759	1,843	33,765	44,164
Waldo County	1,993	3,725,707	664	1,399	1,466	26,850	35,119	
Washington County	1,175	2,197,162	392	825	864	15,834	20,711	

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	York County	3,424	6,402,012	1,142	2,404	2,519	46,137	60,346
	Total Maine	43,569	81,459,586	14,525	30,589	32,050	587,052	767,847
Maryland	Allegany County	3,899	2,366,211	422	889	931	17,052	22,304
	Anne Arundel County	9,657	5,977,388	1,066	2,245	2,352	43,077	56,344
	Baltimore County	5,668	3,508,576	626	1,318	1,380	25,285	33,072
	Calvert County	2,059	1,274,806	227	479	502	9,187	12,016
	Caroline County	495	306,621	55	115	121	2,210	2,890
	Carroll County	3,776	2,337,416	417	878	920	16,845	22,033
	Cecil County	1,846	1,142,706	204	429	450	8,235	10,771
	Charles County	2,414	1,493,968	266	561	588	10,767	14,082
	Dorchester County	165	101,839	18	38	40	734	960
	Frederick County	5,489	3,397,874	606	1,276	1,337	24,487	32,029
	Garrett County	1,340	2,733,104	487	1,026	1,075	19,697	25,763
	Harford County	3,556	2,201,374	393	827	866	15,865	20,750
	Howard County	2,349	1,453,729	259	546	572	10,477	13,703
	Kent County	218	134,916	24	51	53	972	1,272
	Montgomery County	7,953	4,922,873	878	1,849	1,937	35,478	46,404
	Prince George's County	11,803	7,305,885	1,303	2,743	2,874	52,651	68,866
	Queen Anne's County	880	544,936	97	205	214	3,927	5,137
	St. Mary's County	3,705	2,293,621	409	861	902	16,529	21,620
	Somerset County	291	179,987	32	68	71	1,297	1,697
	Talbot County	340	210,660	38	79	83	1,518	1,986
	Washington County	6,324	3,837,607	684	1,441	1,510	27,656	36,174
	Wicomico County	838	518,726	92	195	204	3,738	4,890
	Worcester County	511	316,617	56	119	125	2,282	2,984
	Baltimore city	1,052	651,266	116	245	256	4,693	6,139
	Total Maryland	76,629	49,212,706	8,775	18,480	19,362	354,660	463,884
Massachusetts	Barnstable County	5,924	3,777,616	674	1,419	1,486	27,224	35,608
	Berkshire County	6,091	13,049,470	2,327	4,900	5,134	94,043	123,006
	Bristol County	6,724	4,287,548	765	1,610	1,687	30,899	40,415
	Dukes County	321	204,489	36	77	80	1,474	1,928

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	Essex County	7,600	4,845,923	864	1,820	1,907	34,923	45,678
	Franklin County	2,551	5,465,913	975	2,053	2,151	39,391	51,522
	Hampden County	11,493	24,623,371	4,391	9,246	9,688	177,452	232,103
	Hampshire County	8,156	17,473,735	3,116	6,562	6,875	125,927	164,709
	Middlesex County	9,217	19,748,067	3,521	7,416	7,770	142,318	186,147
	Nantucket County	195	124,508	22	47	49	897	1,174
	Norfolk County	4,148	2,644,805	472	993	1,041	19,060	24,930
	Plymouth County	4,820	3,073,577	548	1,154	1,209	22,150	28,972
	Suffolk County	1,089	694,121	124	261	273	5,002	6,543
	Worcester County	21,540	46,149,788	8,229	17,330	18,157	332,586	435,013
	Total Massachusetts	89,868	146,162,932	26,063	54,886	57,507	1,053,348	1,377,748
New Hampshire	Belknap County	1,142	2,327,914	415	874	916	16,777	21,943
	Carroll County	1,455	2,965,831	529	1,114	1,167	21,374	27,956
	Cheshire County	2,624	5,346,516	953	2,008	2,104	38,531	50,397
	Coos County	961	1,958,449	349	735	771	14,114	18,461
	Grafton County	2,947	6,006,016	1,071	2,255	2,363	43,283	56,613
	Hillsborough County	12,982	26,454,577	4,717	9,934	10,408	190,649	249,364
	Merrimack County	2,582	5,261,581	938	1,976	2,070	37,918	49,596
	Rockingham County	5,463	11,131,869	1,985	4,180	4,380	80,224	104,930
	Strafford County	3,980	8,110,644	1,446	3,046	3,191	58,451	76,452
	Sullivan County	1,501	3,059,446	546	1,149	1,204	22,048	28,839
	Total New Hampshire	35,638	72,622,842	12,950	27,271	28,573	523,369	684,551
New Jersey	Atlantic County	2,884	1,770,485	316	665	697	12,759	16,689
	Bergen County	6,172	3,714,174	662	1,395	1,461	26,767	35,010
	Burlington County	3,004	1,843,910	329	692	725	13,288	17,381
	Camden County	2,823	1,733,099	309	651	682	12,490	16,336
	Cape May County	1,882	1,155,134	206	434	454	8,325	10,888
	Cumberland County	1,394	855,864	153	321	337	6,168	8,067
	Essex County	2,287	1,376,203	245	517	541	9,918	12,972
	Gloucester County	1,623	996,528	178	374	392	7,182	9,393
	Hudson County	1,651	993,510	177	373	391	7,160	9,365

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	Hunterdon County	691	415,977	74	156	164	2,998	3,921
	Mercer County	1,098	674,098	120	253	265	4,858	6,354
	Middlesex County	3,974	2,439,453	435	916	960	17,580	22,995
	Monmouth County	2,088	1,281,958	229	481	504	9,239	12,084
	Morris County	2,229	1,341,705	239	504	528	9,669	12,647
	Ocean County	3,630	2,228,441	397	837	877	16,060	21,006
	Passaic County	1,538	925,502	165	348	364	6,670	8,724
	Salem County	727	446,039	80	167	175	3,214	4,204
	Somerset County	1,041	626,684	112	235	247	4,516	5,907
	Sussex County	1,862	1,120,277	200	421	441	8,073	10,560
	Union County	1,642	987,932	176	371	389	7,120	9,312
	Warren County	1,571	945,232	169	355	372	6,812	8,910
	Total New Jersey	45,811	27,872,204	4,970	10,466	10,966	200,866	262,726
New York	Albany County	4,660	10,062,147	1,794	3,778	3,959	72,515	94,847
	Allegany County	1,277	2,757,953	492	1,036	1,085	19,876	25,997
	Bronx County	277	181,329	32	68	71	1,307	1,709
	Broome County	4,687	10,119,043	1,804	3,800	3,981	72,925	95,383
	Cattaraugus County	2,086	4,503,505	803	1,691	1,772	32,455	42,451
	Cayuga County	2,706	5,843,420	1,042	2,194	2,299	42,112	55,081
	Chautauqua County	4,795	10,352,797	1,846	3,888	4,073	74,609	97,587
	Chemung County	2,603	5,619,629	1,002	2,110	2,211	40,499	52,971
	Chenango County	1,673	3,613,197	644	1,357	1,422	26,039	34,058
	Clinton County	1,517	3,276,143	584	1,230	1,289	23,610	30,881
	Columbia County	1,004	2,167,475	386	814	853	15,620	20,431
	Cortland County	980	2,116,444	377	795	833	15,253	19,950
	Delaware County	1,904	4,111,043	733	1,544	1,617	29,627	38,751
	Dutchess County	4,926	10,636,667	1,897	3,994	4,185	76,655	100,262
	Erie County	5,702	12,311,606	2,195	4,623	4,844	88,726	116,051
	Essex County	1,088	2,348,994	419	882	924	16,928	22,142
	Franklin County	1,728	3,731,641	665	1,401	1,468	26,893	35,175
	Fulton County	1,076	2,322,307	414	872	914	16,736	21,890

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	Genesee County	712	1,537,856	274	577	605	11,083	14,496
	Greene County	995	2,147,778	383	807	845	15,478	20,245
	Hamilton County	279	603,341	108	227	237	4,348	5,687
	Herkimer County	2,914	6,291,995	1,122	2,363	2,476	45,344	59,309
	Jefferson County	2,039	4,402,166	785	1,653	1,732	31,725	41,495
	Kings County	523	342,607	61	129	135	2,469	3,229
	Lewis County	2,105	4,546,101	811	1,707	1,789	32,762	42,852
	Livingston County	1,289	2,782,790	496	1,045	1,095	20,055	26,231
	Madison County	2,605	5,625,561	1,003	2,112	2,213	40,542	53,027
	Monroe County	4,169	9,002,468	1,605	3,381	3,542	64,878	84,858
	Montgomery County	1,762	3,803,463	678	1,428	1,496	27,410	35,852
	Nassau County	8,214	5,383,830	960	2,022	2,118	38,799	50,749
	New York County	454	297,274	53	112	117	2,142	2,802
	Niagara County	1,774	3,829,647	683	1,438	1,507	27,599	36,099
	Oneida County	6,332	13,672,977	2,438	5,134	5,380	98,537	128,883
	Onondaga County	6,862	14,816,488	2,642	5,564	5,829	106,777	139,662
	Ontario County	376	812,751	145	305	320	5,857	7,661
	Orange County	2,203	4,756,665	848	1,786	1,871	34,280	44,837
	Orleans County	766	1,654,382	295	621	651	11,923	15,594
	Oswego County	4,240	9,154,848	1,632	3,438	3,602	65,976	86,295
	Otsego County	1,862	4,020,147	717	1,510	1,582	28,972	37,894
	Putnam County	1,325	2,860,356	510	1,074	1,125	20,614	26,962
	Queens County	459	300,761	54	113	118	2,167	2,835
	Rensselaer County	6,091	13,152,499	2,345	4,939	5,175	94,786	123,977
	Richmond County	96	62,768	11	24	25	452	592
	Rockland County	791	1,707,294	304	641	672	12,304	16,093
	St. Lawrence County	3,130	6,758,833	1,205	2,538	2,659	48,709	63,710
	Saratoga County	7,333	15,833,110	2,823	5,946	6,229	114,104	149,245
	Schenectady County	2,265	4,891,331	872	1,837	1,924	35,250	46,106
	Schoharie County	2,344	5,061,081	902	1,901	1,991	36,474	47,706
	Schuyler County	536	1,158,175	207	435	456	8,347	10,917

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	Seneca County	290	625,114	111	235	246	4,505	5,892
	Steuben County	2,059	4,445,304	793	1,669	1,749	32,036	41,902
	Suffolk County	12,588	8,251,354	1,471	3,099	3,246	59,465	77,778
	Sullivan County	1,292	2,789,324	497	1,047	1,097	20,102	26,292
	Tioga County	2,743	5,923,727	1,056	2,224	2,331	42,690	55,838
	Tompkins County	1,589	3,430,837	612	1,288	1,350	24,725	32,339
	Ulster County	2,657	5,737,526	1,023	2,155	2,257	41,348	54,083
	Warren County	3,593	7,758,385	1,383	2,913	3,052	55,912	73,131
	Washington County	4,235	9,143,118	1,630	3,433	3,597	65,891	86,184
	Wayne County	1,758	3,796,302	677	1,426	1,494	27,359	35,784
	Westchester County	2,959	6,389,579	1,139	2,399	2,514	46,048	60,229
	Wyoming County	878	1,896,530	338	712	746	13,668	17,877
	Yates County	567	1,224,296	218	460	482	8,823	11,540
	Total New York	158,743	308,758,078	55,056	115,943	121,479	2,225,117	2,910,388
Pennsylvania	Adams County	1,654	1,078,374	192	405	424	7,771	10,165
	Allegheny County	12,693	8,274,814	1,476	3,107	3,256	59,634	77,999
	Armstrong County	278	181,231	32	68	71	1,306	1,708
	Beaver County	1,739	1,133,402	202	426	446	8,168	10,684
	Bedford County	1,990	1,297,264	231	487	510	9,349	12,228
	Berks County	7,070	4,701,178	838	1,765	1,850	33,880	44,314
	Blair County	2,752	1,793,728	320	674	706	12,927	16,908
	Bradford County	1,813	3,970,879	708	1,491	1,562	28,617	37,430
	Bucks County	6,208	4,128,143	736	1,550	1,624	29,750	38,912
	Butler County	1,892	1,233,479	220	463	485	8,889	11,627
	Cambria County	1,644	1,071,531	191	402	422	7,722	10,100
	Cameron County	129	283,321	51	106	111	2,042	2,671
	Carbon County	720	469,335	84	176	185	3,382	4,424
	Centre County	5,586	12,236,425	2,182	4,595	4,814	88,184	115,342
	Chester County	4,770	3,171,584	566	1,191	1,248	22,857	29,896
	Clarion County	303	664,652	119	250	262	4,790	6,265
	Clearfield County	517	1,131,811	202	425	445	8,157	10,669

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	Clinton County	777	1,701,298	303	639	669	12,261	16,037
	Columbia County	1,851	1,206,491	215	453	475	8,695	11,373
	Crawford County	2,038	4,464,321	796	1,676	1,756	32,173	42,081
	Cumberland County	6,564	4,279,291	763	1,607	1,684	30,839	40,337
	Dauphin County	4,434	2,948,556	526	1,107	1,160	21,249	27,793
	Delaware County	4,629	3,077,939	549	1,156	1,211	22,182	29,013
	Elk County	329	720,593	128	271	284	5,193	6,792
	Erie County	5,246	11,490,083	2,049	4,315	4,521	82,805	108,307
	Fayette County	1,828	1,191,703	212	448	469	8,588	11,233
	Forest County	150	329,212	59	124	130	2,373	3,103
	Franklin County	3,232	2,106,844	376	791	829	15,183	19,859
	Fulton County	958	624,290	111	234	246	4,499	5,885
	Greene County	347	226,347	40	85	89	1,631	2,134
	Huntingdon County	1,730	1,127,482	201	423	444	8,125	10,628
	Indiana County	690	450,094	80	169	177	3,244	4,243
	Jefferson County	351	228,941	41	86	90	1,650	2,158
	Juniata County	1,137	741,336	132	278	292	5,343	6,988
	Lackawanna County	1,821	3,988,591	711	1,498	1,569	28,744	37,597
	Lancaster County	14,353	9,543,665	1,702	3,584	3,755	68,778	89,960
	Lawrence County	477	310,755	55	117	122	2,240	2,929
	Lebanon County	2,652	1,763,618	314	662	694	12,710	16,624
	Lehigh County	7,123	4,643,668	828	1,744	1,827	33,465	43,772
	Luzerne County	3,454	7,566,554	1,349	2,841	2,977	54,530	71,323
	Lycoming County	6,316	4,117,550	734	1,546	1,620	29,674	38,812
	McKean County	463	1,014,276	181	381	399	7,310	9,561
	Mercer County	2,449	5,364,371	957	2,014	2,111	38,659	50,565
	Mifflin County	1,842	1,200,624	214	451	472	8,652	11,317
	Monroe County	2,229	4,882,740	871	1,834	1,921	35,188	46,025
	Montgomery County	3,694	2,456,047	438	922	966	17,700	23,151
	Montour County	229	149,496	27	56	59	1,077	1,409
	Northampton County	4,908	3,199,665	571	1,202	1,259	23,059	30,160

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	Northumberland County	653	425,411	76	160	167	3,066	4,010
	Perry County	2,952	1,924,373	343	723	757	13,868	18,139
	Philadelphia County	2,736	1,819,254	324	683	716	13,111	17,148
	Pike County	2,110	4,622,280	824	1,736	1,819	33,311	43,570
	Potter County	454	994,096	177	373	391	7,164	9,370
	Schuylkill County	583	380,027	68	143	150	2,739	3,582
	Snyder County	955	622,709	111	234	245	4,488	5,870
	Somerset County	1,982	1,292,316	230	485	508	9,313	12,182
	Sullivan County	301	659,817	118	248	260	4,755	6,220
	Susquehanna County	1,640	3,591,701	640	1,349	1,413	25,884	33,856
	Tioga County	993	2,175,615	388	817	856	15,679	20,508
	Union County	790	515,007	92	193	203	3,711	4,855
	Venango County	848	1,858,144	331	698	731	13,391	17,515
	Warren County	938	2,054,195	366	771	808	14,804	19,363
	Washington County	2,316	1,510,014	269	567	594	10,882	14,234
	Wayne County	1,251	2,740,803	489	1,029	1,078	19,752	25,835
	Westmoreland County	3,545	2,311,187	412	868	909	16,656	21,786
	Wyoming County	1,407	3,081,538	549	1,157	1,212	22,208	29,047
	York County	10,487	6,836,518	1,219	2,567	2,690	49,269	64,442
	Total Pennsylvania	177,004	173,352,595	30,911	65,096	68,205	1,249,294	1,634,041
Rhode Island	Bristol County	745	497,759	89	187	196	3,587	4,692
	Kent County	2,640	1,764,068	315	662	694	12,713	16,628
	Newport County	691	461,699	82	173	182	3,327	4,352
	Providence County	5,944	3,972,109	708	1,492	1,563	28,626	37,442
	Washington County	2,963	1,980,002	353	744	779	14,269	18,664
	Total Rhode Island	12,982	8,675,637	1,547	3,258	3,413	62,522	81,778
District of Columbia	District of Columbia	5,085	3,147,865	561	1,182	1,239	22,686	29,672
	Total D.C.	5,085	3,147,865	561	1,182	1,239	22,686	29,672
Vermont	Addison County	1,482	3,111,077	555	1,168	1,224	22,420	29,325
	Bennington County	1,105	2,319,633	414	871	913	16,717	21,865
	Caledonia County	1,456	3,056,476	545	1,148	1,203	22,027	28,811

State	County	Total fireplaces without inserts burning cordwood	Total dry mass of cordwood burned by fireplaces without inserts (kg/yr)	Cresols (kg/yr)	PCB _{TEQ} (ng/yr)	Dioxin _{TEQ} (ug/yr)	Methane (kg/yr)	VOC (kg/yr)
	Chittenden County	4,348	9,129,234	1,628	3,428	3,592	65,791	86,053
	Essex County	323	678,736	121	255	267	4,891	6,398
	Franklin County	1,272	2,671,192	476	1,003	1,051	19,250	25,179
	Grand Isle County	421	884,594	158	332	348	6,375	8,338
	Lamoille County	994	2,087,135	372	784	821	15,041	19,674
	Orange County	1,507	3,164,024	564	1,188	1,245	22,802	29,824
	Orleans County	1,662	3,489,520	622	1,310	1,373	25,148	32,893
	Rutland County	2,122	4,456,270	795	1,673	1,753	32,115	42,005
	Washington County	2,349	4,932,690	880	1,852	1,941	35,548	46,496
	Windham County	2,395	5,029,142	897	1,889	1,979	36,243	47,405
	Windsor County	2,359	4,953,129	883	1,860	1,949	35,696	46,689
	Total Vermont	23,795	49,962,852	8,909	18,762	19,658	360,066	470,955
	Total MANE-VU	752,127	992,400,295	176,960	372,661	390,454	7,151,898	9,354,475

HDD Range	HDD	Total fireplaces without inserts burning cordwood	Total dry mass of cordwood burned by fireplaces without inserts (kg/yr)	Cresols (kg/yr)	PCB _{TEQ} (ng/yr)	Dioxin _{TEQ} (ug/yr)	Methane (kg/yr)	VOC (kg/yr)
> 6500	High	347,705	733,340,795	130,766	275,380	288,529	5,284,943	6,912,552
5500-6499	Med.	207,623	134,314,166	23,950	50,437	52,845	967,957	1,266,060
< 5499	Low	196,798	124,745,334	22,244	46,844	49,080	898,998	1,175,863

Section 3.3.2

Table 3.3.2

Emission Inventory for Fireplaces without Inserts Burning Manufactured Wax/Sawdust Firelogs (2002 Base Year)

Section 1

State	County	Total dry mass of firelogs burned by fireplaces without inserts (kg/yr)	PM _{2.5} (kg/yr)	PM ₁₀ (kg/yr)	NO _x (kg/yr) as NO ₂	CO (kg/yr)	SO ₂ (kg/yr)	NH ₃ (kg/yr)	Benzene (kg/yr)	Phenol (kg/yr)
Connecticut	Fairfield County	324,987	7,843	7,843	1,051	22,251	676	0.65	145	5.94
	Hartford County	444,046	10,716	10,716	1,436	30,402	924	0.89	198	8.12
	Litchfield County	105,007	2,534	2,534	340	7,189	218	0.21	47	1.92
	Middlesex County	122,275	2,951	2,951	395	8,372	254	0.24	55	2.24
	New Haven County	595,574	14,373	14,373	1,926	40,777	1,239	1.19	265	10.89
	New London County	301,308	7,272	7,272	974	20,630	627	0.60	134	5.51
	Tolland County	134,197	3,239	3,239	434	9,188	279	0.27	60	2.45
	Windham County	208,130	5,023	5,023	673	14,250	433	0.42	93	3.80
	Total Connecticut		2,235,525	53,951	53,951	7,228	153,059	4,650	4.47	996
Delaware	Kent County	193,755	4,676	4,676	626	13,266	403	0.39	86	3.54
	New Castle County	800,108	19,309	19,309	2,587	54,781	1,664	1.60	357	14.63
	Sussex County	54,088	1,305	1,305	175	3,703	113	0.11	24	0.99
Total Delaware		1,047,951	25,291	25,291	3,388	71,750	2,180	2.10	467	19.16
Maine	Androscoggin County	212,779	5,135	5,135	688	14,568	443	0.43	95	3.89
	Aroostook County	110,766	2,673	2,673	358	7,584	230	0.22	49	2.02
	Cumberland County	363,860	8,781	8,781	1,176	24,912	757	0.73	162	6.65
	Franklin County	68,940	1,664	1,664	223	4,720	143	0.14	31	1.26
	Hancock County	73,315	1,769	1,769	237	5,020	152	0.15	33	1.34
	Kennebec County	136,338	3,290	3,290	441	9,335	284	0.27	61	2.49
	Knox County	52,524	1,268	1,268	170	3,596	109	0.11	23	0.96
	Lincoln County	43,391	1,047	1,047	140	2,971	90	0.09	19	0.79
	Oxford County	106,052	2,559	2,559	343	7,261	221	0.21	47	1.94
	Penobscot County	160,348	3,870	3,870	518	10,979	334	0.32	71	2.93
	Piscataquis County	40,620	980	980	131	2,781	84	0.08	18	0.74
	Sagadahoc County	41,426	1,000	1,000	134	2,836	86	0.08	18	0.76
	Somerset County	102,529	2,474	2,474	332	7,020	213	0.21	46	1.87
Waldo County	81,530	1,968	1,968	264	5,582	170	0.16	36	1.49	
Washington County	48,081	1,160	1,160	155	3,292	100	0.10	21	0.88	

State	County	Total dry mass of firelogs burned by fireplaces without inserts (kg/yr)	PM _{2.5} (kg/yr)	PM ₁₀ (kg/yr)	NO _x (kg/yr) as NO ₂	CO (kg/yr)	SO ₂ (kg/yr)	NH ₃ (kg/yr)	Benzene (kg/yr)	Phenol (kg/yr)
	York County	140,096	3,381	3,381	453	9,592	291	0.28	62	2.56
	Total Maine	1,782,595	43,020	43,020	5,764	122,048	3,708	3.57	795	32.59
Maryland	Allegany County	159,528	3,850	3,850	516	10,922	332	0.32	71	2.92
	Anne Arundel County	395,089	9,535	9,535	1,277	27,050	822	0.79	176	7.22
	Baltimore County	231,907	5,597	5,597	750	15,878	482	0.46	103	4.24
	Calvert County	84,261	2,034	2,034	272	5,769	175	0.17	38	1.54
	Caroline County	20,267	489	489	66	1,388	42	0.04	9	0.37
	Carroll County	154,497	3,729	3,729	500	10,578	321	0.31	69	2.82
	Cecil County	75,530	1,823	1,823	244	5,171	157	0.15	34	1.38
	Charles County	98,747	2,383	2,383	319	6,761	205	0.20	44	1.81
	Dorchester County	6,731	162	162	22	461	14	0.01	3	0.12
	Frederick County	224,590	5,420	5,420	726	15,377	467	0.45	100	4.11
	Garrett County	54,840	1,323	1,323	177	3,755	114	0.11	24	1.00
	Harford County	145,505	3,512	3,512	470	9,962	303	0.29	65	2.66
	Howard County	96,088	2,319	2,319	311	6,579	200	0.19	43	1.76
	Kent County	8,918	215	215	29	611	19	0.02	4	0.16
	Montgomery County	325,389	7,853	7,853	1,052	22,278	677	0.65	145	5.95
	Prince George's County	482,899	11,654	11,654	1,561	33,063	1,004	0.97	215	8.83
	Queen Anne's County	36,019	869	869	116	2,466	75	0.07	16	0.66
	St. Mary's County	151,602	3,659	3,659	490	10,380	315	0.30	68	2.77
	Somerset County	11,897	287	287	38	815	25	0.02	5	0.22
	Talbot County	13,924	336	336	45	953	29	0.03	6	0.25
	Washington County	258,729	6,244	6,244	837	17,714	538	0.52	115	4.73
	Wicomico County	34,286	827	827	111	2,347	71	0.07	15	0.63
	Worcester County	20,928	505	505	68	1,433	44	0.04	9	0.38
	Baltimore city	43,047	1,039	1,039	139	2,947	90	0.09	19	0.79
	Total Maryland	3,135,219	75,663	75,663	10,137	214,658	6,521	6.27	1,397	57.31
Massachusetts	Barnstable County	242,386	5,850	5,850	784	16,595	504	0.48	108	4.43
	Berkshire County	249,198	6,014	6,014	806	17,062	518	0.50	111	4.56
	Bristol County	275,106	6,639	6,639	890	18,836	572	0.55	123	5.03
	Dukes County	13,121	317	317	42	898	27	0.03	6	0.24

State	County	Total dry mass of firelogs burned by fireplaces without inserts (kg/yr)	PM _{2.5} (kg/yr)	PM ₁₀ (kg/yr)	NO _x (kg/yr) as NO ₂	CO (kg/yr)	SO ₂ (kg/yr)	NH ₃ (kg/yr)	Benzene (kg/yr)	Phenol (kg/yr)
	Essex County	310,933	7,504	7,504	1,005	21,289	647	0.62	139	5.68
	Franklin County	104,379	2,519	2,519	337	7,146	217	0.21	47	1.91
	Hampden County	470,217	11,348	11,348	1,520	32,194	978	0.94	210	8.60
	Hampshire County	333,685	8,053	8,053	1,079	22,846	694	0.67	149	6.10
	Middlesex County	377,117	9,101	9,101	1,219	25,820	784	0.75	168	6.89
	Nantucket County	7,989	193	193	26	547	17	0.02	4	0.15
	Norfolk County	169,701	4,095	4,095	549	11,619	353	0.34	76	3.10
	Plymouth County	197,213	4,759	4,759	638	13,502	410	0.39	88	3.61
	Suffolk County	44,537	1,075	1,075	144	3,049	93	0.09	20	0.81
	Worcester County	881,294	21,269	21,269	2,850	60,339	1,833	1.76	393	16.11
	Total Massachusetts	3,676,876	88,735	88,735	11,889	251,743	7,648	7.35	1,639	67.21
New Hampshire	Belknap County	46,739	1,128	1,128	151	3,200	97	0.09	21	0.85
	Carroll County	59,547	1,437	1,437	193	4,077	124	0.12	27	1.09
	Cheshire County	107,346	2,591	2,591	347	7,350	223	0.21	48	1.96
	Coos County	39,321	949	949	127	2,692	82	0.08	18	0.72
	Grafton County	120,588	2,910	2,910	390	8,256	251	0.24	54	2.20
	Hillsborough County	531,149	12,818	12,818	1,717	36,366	1,105	1.06	237	9.71
	Merrimack County	105,641	2,549	2,549	342	7,233	220	0.21	47	1.93
	Rockingham County	223,503	5,394	5,394	723	15,303	465	0.45	100	4.09
	Strafford County	162,844	3,930	3,930	527	11,149	339	0.33	73	2.98
	Sullivan County	61,427	1,482	1,482	199	4,206	128	0.12	27	1.12
	Total New Hampshire	1,458,106	35,189	35,189	4,715	99,832	3,033	2.92	650	26.65
New Jersey	Atlantic County	118,007	2,848	2,848	382	8,080	245	0.24	53	2.16
	Bergen County	252,509	6,094	6,094	816	17,288	525	0.51	113	4.62
	Burlington County	122,901	2,966	2,966	397	8,415	256	0.25	55	2.25
	Camden County	93,151	2,248	2,248	301	6,378	194	0.19	42	1.70
	Cape May County	76,992	1,858	1,858	249	5,271	160	0.15	34	1.41
	Cumberland County	57,045	1,377	1,377	184	3,906	119	0.11	25	1.04
	Essex County	68,886	1,662	1,662	223	4,716	143	0.14	31	1.26
	Gloucester County	66,421	1,603	1,603	215	4,548	138	0.13	30	1.21
	Hudson County	46,664	1,126	1,126	151	3,195	97	0.09	21	0.85

State	County	Total dry mass of firelogs burned by fireplaces without inserts (kg/yr)	PM _{2.5} (kg/yr)	PM ₁₀ (kg/yr)	NO _x (kg/yr) as NO ₂	CO (kg/yr)	SO ₂ (kg/yr)	NH ₃ (kg/yr)	Benzene (kg/yr)	Phenol (kg/yr)
	Hunterdon County	28,280	682	682	91	1,936	59	0.06	13	0.52
	Mercer County	44,930	1,084	1,084	145	3,076	93	0.09	20	0.82
	Middlesex County	162,595	3,924	3,924	526	11,132	338	0.33	72	2.97
	Monmouth County	85,445	2,062	2,062	276	5,850	178	0.17	38	1.56
	Morris County	91,216	2,201	2,201	295	6,245	190	0.18	41	1.67
	Ocean County	148,531	3,585	3,585	480	10,169	309	0.30	66	2.72
	Passaic County	60,627	1,463	1,463	196	4,151	126	0.12	27	1.11
	Salem County	29,729	717	717	96	2,035	62	0.06	13	0.54
	Somerset County	42,605	1,028	1,028	138	2,917	89	0.09	19	0.78
	Sussex County	76,162	1,838	1,838	246	5,215	158	0.15	34	1.39
	Union County	53,600	1,294	1,294	173	3,670	111	0.11	24	0.98
	Warren County	64,262	1,551	1,551	208	4,400	134	0.13	29	1.17
	Total New Jersey	1,790,560	43,212	43,212	5,789	122,594	3,724	3.58	798	32.73
New York	Albany County	190,667	4,601	4,601	616	13,054	397	0.38	85	3.49
	Allegany County	52,260	1,261	1,261	169	3,578	109	0.10	23	0.96
	Bronx County	11,319	273	273	37	775	24	0.02	5	0.21
	Broome County	191,745	4,627	4,627	620	13,128	399	0.38	85	3.51
	Cattaraugus County	85,337	2,059	2,059	276	5,843	178	0.17	38	1.56
	Cayuga County	110,727	2,672	2,672	358	7,581	230	0.22	49	2.02
	Chautauqua County	196,174	4,734	4,734	634	13,431	408	0.39	87	3.59
	Chemung County	106,486	2,570	2,570	344	7,291	221	0.21	47	1.95
	Chenango County	68,466	1,652	1,652	221	4,688	142	0.14	31	1.25
	Clinton County	62,079	1,498	1,498	201	4,250	129	0.12	28	1.13
	Columbia County	41,071	991	991	133	2,812	85	0.08	18	0.75
	Cortland County	40,104	968	968	130	2,746	83	0.08	18	0.73
	Delaware County	77,900	1,880	1,880	252	5,334	162	0.16	35	1.42
	Dutchess County	201,553	4,864	4,864	652	13,800	419	0.40	90	3.68
	Erie County	233,292	5,630	5,630	754	15,973	485	0.47	104	4.26
	Essex County	44,511	1,074	1,074	144	3,048	93	0.09	20	0.81
	Franklin County	70,711	1,706	1,706	229	4,841	147	0.14	32	1.29
	Fulton County	44,005	1,062	1,062	142	3,013	92	0.09	20	0.80

State	County	Total dry mass of firelogs burned by fireplaces without inserts (kg/yr)	PM _{2.5} (kg/yr)	PM ₁₀ (kg/yr)	NO _x (kg/yr) as NO ₂	CO (kg/yr)	SO ₂ (kg/yr)	NH ₃ (kg/yr)	Benzene (kg/yr)	Phenol (kg/yr)
	Genesee County	29,141	703	703	94	1,995	61	0.06	13	0.53
	Greene County	40,698	982	982	132	2,786	85	0.08	18	0.74
	Hamilton County	11,433	276	276	37	783	24	0.02	5	0.21
	Herkimer County	119,227	2,877	2,877	385	8,163	248	0.24	53	2.18
	Jefferson County	83,416	2,013	2,013	270	5,711	174	0.17	37	1.52
	Kings County	21,385	516	516	69	1,464	44	0.04	10	0.39
	Lewis County	86,144	2,079	2,079	279	5,898	179	0.17	38	1.57
	Livingston County	52,731	1,273	1,273	170	3,610	110	0.11	24	0.96
	Madison County	106,598	2,573	2,573	345	7,298	222	0.21	48	1.95
	Monroe County	170,587	4,117	4,117	552	11,680	355	0.34	76	3.12
	Montgomery County	72,072	1,739	1,739	233	4,934	150	0.14	32	1.32
	Nassau County	336,059	8,110	8,110	1,087	23,009	699	0.67	150	6.14
	New York County	18,556	448	448	60	1,270	39	0.04	8	0.34
	Niagara County	72,568	1,751	1,751	235	4,968	151	0.15	32	1.33
	Oneida County	259,088	6,253	6,253	838	17,739	539	0.52	115	4.74
	Onondaga County	280,756	6,776	6,776	908	19,222	584	0.56	125	5.13
	Ontario County	15,401	372	372	50	1,054	32	0.03	7	0.28
	Orange County	90,134	2,175	2,175	291	6,171	187	0.18	40	1.65
	Orleans County	31,349	757	757	101	2,146	65	0.06	14	0.57
	Oswego County	173,474	4,187	4,187	561	11,877	361	0.35	77	3.17
	Otsego County	76,177	1,838	1,838	246	5,216	158	0.15	34	1.39
	Putnam County	54,201	1,308	1,308	175	3,711	113	0.11	24	0.99
	Queens County	18,774	453	453	61	1,285	39	0.04	8	0.34
	Rensselaer County	249,226	6,015	6,015	806	17,064	518	0.50	111	4.56
	Richmond County	3,918	95	95	13	268	8	0.01	2	0.07
	Rockland County	32,351	781	781	105	2,215	67	0.06	14	0.59
	St. Lawrence County	128,073	3,091	3,091	414	8,769	266	0.26	57	2.34
	Saratoga County	300,020	7,240	7,240	970	20,541	624	0.60	134	5.48
	Schenectady County	92,685	2,237	2,237	300	6,346	193	0.19	41	1.69
	Schoharie County	95,902	2,314	2,314	310	6,566	199	0.19	43	1.75
	Schuyler County	21,946	530	530	71	1,503	46	0.04	10	0.40

State	County	Total dry mass of firelogs burned by fireplaces without inserts (kg/yr)	PM _{2.5} (kg/yr)	PM ₁₀ (kg/yr)	NO _x (kg/yr) as NO ₂	CO (kg/yr)	SO ₂ (kg/yr)	NH ₃ (kg/yr)	Benzene (kg/yr)	Phenol (kg/yr)
	Seneca County	11,845	286	286	38	811	25	0.02	5	0.22
	Steuben County	84,234	2,033	2,033	272	5,767	175	0.17	38	1.54
	Suffolk County	515,049	12,430	12,430	1,665	35,264	1,071	1.03	230	9.42
	Sullivan County	52,855	1,276	1,276	171	3,619	110	0.11	24	0.97
	Tioga County	112,248	2,709	2,709	363	7,685	233	0.22	50	2.05
	Tompkins County	65,011	1,569	1,569	210	4,451	135	0.13	29	1.19
	Ulster County	108,720	2,624	2,624	352	7,444	226	0.22	48	1.99
	Warren County	147,013	3,548	3,548	475	10,065	306	0.29	66	2.69
	Washington County	173,252	4,181	4,181	560	11,862	360	0.35	77	3.17
	Wayne County	71,936	1,736	1,736	233	4,925	150	0.14	32	1.31
	Westchester County	101,757	2,456	2,456	329	6,967	212	0.20	45	1.86
	Wyoming County	35,937	867	867	116	2,461	75	0.07	16	0.66
	Yates County	23,199	560	560	75	1,588	48	0.05	10	0.42
	Total New York	6,475,552	156,277	156,277	20,938	443,359	13,469	12.95	2,886	118.37
Pennsylvania	Adams County	67,681	1,633	1,633	219	4,634	141	0.14	30	1.24
	Allegheny County	519,344	12,533	12,533	1,679	35,558	1,080	1.04	231	9.49
	Armstrong County	11,374	275	275	37	779	24	0.02	5	0.21
	Beaver County	71,135	1,717	1,717	230	4,870	148	0.14	32	1.30
	Bedford County	81,419	1,965	1,965	263	5,574	169	0.16	36	1.49
	Berks County	289,270	6,981	6,981	935	19,805	602	0.58	129	5.29
	Blair County	112,578	2,717	2,717	364	7,708	234	0.23	50	2.06
	Bradford County	74,173	1,790	1,790	240	5,078	154	0.15	33	1.36
	Bucks County	254,010	6,130	6,130	821	17,391	528	0.51	113	4.64
	Butler County	77,416	1,868	1,868	250	5,300	161	0.15	35	1.42
	Cambria County	67,251	1,623	1,623	217	4,604	140	0.13	30	1.23
	Cameron County	5,292	128	128	17	362	11	0.01	2	0.10
	Carbon County	29,456	711	711	95	2,017	61	0.06	13	0.54
	Centre County	228,566	5,516	5,516	739	15,649	475	0.46	102	4.18
	Chester County	195,152	4,710	4,710	631	13,361	406	0.39	87	3.57
	Clarion County	12,415	300	300	40	850	26	0.02	6	0.23
	Clearfield County	21,141	510	510	68	1,447	44	0.04	9	0.39

State	County	Total dry mass of firelogs burned by fireplaces without inserts (kg/yr)	PM _{2.5} (kg/yr)	PM ₁₀ (kg/yr)	NO _x (kg/yr) as NO ₂	CO (kg/yr)	SO ₂ (kg/yr)	NH ₃ (kg/yr)	Benzene (kg/yr)	Phenol (kg/yr)
	Clinton County	31,779	767	767	103	2,176	66	0.06	14	0.58
	Columbia County	75,722	1,827	1,827	245	5,184	158	0.15	34	1.38
	Crawford County	83,390	2,012	2,012	270	5,709	173	0.17	37	1.52
	Cumberland County	268,577	6,482	6,482	868	18,389	559	0.54	120	4.91
	Dauphin County	181,429	4,378	4,378	587	12,422	377	0.36	81	3.32
	Delaware County	189,390	4,571	4,571	612	12,967	394	0.38	84	3.46
	Elk County	13,460	325	325	44	922	28	0.03	6	0.25
	Erie County	214,625	5,180	5,180	694	14,695	446	0.43	96	3.92
	Fayette County	74,794	1,805	1,805	242	5,121	156	0.15	33	1.37
	Forest County	6,149	148	148	20	421	13	0.01	3	0.11
	Franklin County	132,230	3,191	3,191	428	9,053	275	0.26	59	2.42
	Fulton County	39,182	946	946	127	2,683	81	0.08	17	0.72
	Greene County	14,206	343	343	46	973	30	0.03	6	0.26
	Huntingdon County	70,763	1,708	1,708	229	4,845	147	0.14	32	1.29
	Indiana County	28,249	682	682	91	1,934	59	0.06	13	0.52
	Jefferson County	14,369	347	347	46	984	30	0.03	6	0.26
	Juniata County	46,528	1,123	1,123	150	3,186	97	0.09	21	0.85
	Lackawanna County	74,504	1,798	1,798	241	5,101	155	0.15	33	1.36
	Lancaster County	587,235	14,172	14,172	1,899	40,206	1,221	1.17	262	10.73
	Lawrence County	19,504	471	471	63	1,335	41	0.04	9	0.36
	Lebanon County	108,518	2,619	2,619	351	7,430	226	0.22	48	1.98
	Lehigh County	291,446	7,034	7,034	942	19,954	606	0.58	130	5.33
	Luzerne County	141,337	3,411	3,411	457	9,677	294	0.28	63	2.58
	Lycoming County	258,426	6,237	6,237	836	17,694	538	0.52	115	4.72
	McKean County	18,946	457	457	61	1,297	39	0.04	8	0.35
	Mercer County	100,202	2,418	2,418	324	6,860	208	0.20	45	1.83
	Mifflin County	75,354	1,819	1,819	244	5,159	157	0.15	34	1.38
	Monroe County	91,205	2,201	2,201	295	6,245	190	0.18	41	1.67
	Montgomery County	151,124	3,647	3,647	489	10,347	314	0.30	67	2.76
	Montour County	9,383	226	226	30	642	20	0.02	4	0.17
	Northampton County	200,817	4,846	4,846	649	13,749	418	0.40	90	3.67

State	County	Total dry mass of firelogs burned by fireplaces without inserts (kg/yr)	PM _{2.5} (kg/yr)	PM ₁₀ (kg/yr)	NO _x (kg/yr) as NO ₂	CO (kg/yr)	SO ₂ (kg/yr)	NH ₃ (kg/yr)	Benzene (kg/yr)	Phenol (kg/yr)
	Northumberland County	26,700	644	644	86	1,828	56	0.05	12	0.49
	Perry County	120,777	2,915	2,915	391	8,269	251	0.24	54	2.21
	Philadelphia County	111,941	2,702	2,702	362	7,664	233	0.22	50	2.05
	Pike County	86,340	2,084	2,084	279	5,911	180	0.17	38	1.58
	Potter County	18,569	448	448	60	1,271	39	0.04	8	0.34
	Schuylkill County	23,851	576	576	77	1,633	50	0.05	11	0.44
	Snyder County	39,082	943	943	126	2,676	81	0.08	17	0.71
	Somerset County	81,108	1,957	1,957	262	5,553	169	0.16	36	1.48
	Sullivan County	12,325	297	297	40	844	26	0.02	5	0.23
	Susquehanna County	67,090	1,619	1,619	217	4,593	140	0.13	30	1.23
	Tioga County	40,639	981	981	131	2,782	85	0.08	18	0.74
	Union County	32,323	780	780	105	2,213	67	0.06	14	0.59
	Venango County	34,709	838	838	112	2,376	72	0.07	15	0.63
	Warren County	38,371	926	926	124	2,627	80	0.08	17	0.70
	Washington County	94,771	2,287	2,287	306	6,489	197	0.19	42	1.73
	Wayne County	51,196	1,236	1,236	166	3,505	106	0.10	23	0.94
	Westmoreland County	145,055	3,501	3,501	469	9,931	302	0.29	65	2.65
	Wyoming County	57,561	1,389	1,389	186	3,941	120	0.12	26	1.05
	York County	429,073	10,355	10,355	1,387	29,377	892	0.86	191	7.84
	Total Pennsylvania	7,241,992	174,773	174,773	23,416	495,835	15,063	14.48	3,228	132.38
Rhode Island	Bristol County	30,475	735	735	99	2,087	63	0.06	14	0.56
	Kent County	108,004	2,606	2,606	349	7,395	225	0.22	48	1.97
	Newport County	28,267	682	682	91	1,935	59	0.06	13	0.52
	Providence County	243,189	5,869	5,869	786	16,650	506	0.49	108	4.45
	Washington County	121,224	2,926	2,926	392	8,300	252	0.24	54	2.22
	Total Rhode Island	531,158	12,819	12,819	1,717	36,367	1,105	1.06	237	9.71
District of Columbia	District of Columbia	208,065	5,021	5,021	673	14,246	433	0.42	93	3.80
	Total D.C.	208,065	5,021	5,021	673	14,246	433	0.42	93	3.80
Vermont	Addison County	60,622	1,463	1,463	196	4,151	126	0.12	27	1.11
	Bennington County	45,200	1,091	1,091	146	3,095	94	0.09	20	0.83
	Caledonia County	59,558	1,437	1,437	193	4,078	124	0.12	27	1.09

State	County	Total dry mass of firelogs burned by fireplaces without inserts (kg/yr)	PM _{2.5} (kg/yr)	PM ₁₀ (kg/yr)	NO _x (kg/yr) as NO ₂	CO (kg/yr)	SO ₂ (kg/yr)	NH ₃ (kg/yr)	Benzene (kg/yr)	Phenol (kg/yr)
	Chittenden County	177,890	4,293	4,293	575	12,180	370	0.36	79	3.25
	Essex County	13,226	319	319	43	906	28	0.03	6	0.24
	Franklin County	52,050	1,256	1,256	168	3,564	108	0.10	23	0.95
	Grand Isle County	17,237	416	416	56	1,180	36	0.03	8	0.32
	Lamoille County	40,669	981	981	131	2,784	85	0.08	18	0.74
	Orange County	61,653	1,488	1,488	199	4,221	128	0.12	27	1.13
	Orleans County	67,996	1,641	1,641	220	4,655	141	0.14	30	1.24
	Rutland County	86,834	2,096	2,096	281	5,945	181	0.17	39	1.59
	Washington County	96,117	2,320	2,320	311	6,581	200	0.19	43	1.76
	Windham County	97,997	2,365	2,365	317	6,709	204	0.20	44	1.79
	Windsor County	96,515	2,329	2,329	312	6,608	201	0.19	43	1.76
	Total Vermont	973,563	23,495	23,495	3,148	66,657	2,025	1.95	434	17.80
	Total MANE-VU	30,557,162	737,446	737,446	98,801	2,092,147	63,559	61	13,620	559

HDD Range	HDD	Total dry mass of firelogs burned by fireplaces without inserts (kg/yr)	PM _{2.5} (kg/yr)	PM ₁₀ (kg/yr)	NO _x (kg/yr) as NO ₂	CO (kg/yr)	SO ₂ (kg/yr)	NH ₃ (kg/yr)	Benzene (kg/yr)	Phenol (kg/yr)
> 6500	High	14,206,804	342,858	342,858	45,935	972,692	29,550	28.41	6,332	260
5500-6499	Med.	8,433,345	203,525	203,525	27,268	577,403	17,541	16.87	3,759	154
< 5499	Low	7,917,013	191,064	191,064	25,598	542,052	16,467	15.83	3,529	145

Section 3.3.2

Table 3.3.2

Emission Inventory for Fireplaces without Inserts Burning Manufactured Wax/Sawdust Firelogs (2002 Base Year)

Section 2

State	County	Total dry mass of firelogs burned by fireplaces without inserts (kg/yr)	7-PAH (kg/yr)	16-PAH (kg/yr)	Benzo(a)pyrene (g/yr)	Naphthalene (kg/yr)	1,3-Butadiene (kg/yr)	Formaldehyde (kg/yr)	Acetaldehyde (kg/yr)	Acrolein (kg/yr)
Connecticut	Fairfield County	324,987	575	8,226	21,937	2,375	5,134	18,994	8,050	1,189
	Hartford County	444,046	996	14,265	38,041	4,118	8,903	32,937	13,959	2,062
	Litchfield County	105,007	365	5,227	13,940	1,509	3,262	12,069	5,115	756
	Middlesex County	122,275	228	3,267	8,713	943	2,039	7,544	3,197	472
	New Haven County	595,574	694	9,940	26,506	2,869	6,203	22,950	9,726	1,437
	New London County	301,308	325	4,654	12,411	1,344	2,905	10,746	4,554	673
	Tolland County	134,197	303	4,334	11,557	1,251	2,705	10,007	4,241	627
	Windham County	208,130	309	4,423	11,794	1,277	2,760	10,211	4,328	639
	Total Connecticut		2,235,525	3,795	54,338	144,900	15,686	33,910	125,458	53,170
Delaware	Kent County	193,755	70	1,006	2,682	290	628	2,322	984	145
	New Castle County	800,108	141	2,015	5,374	582	1,258	4,653	1,972	291
	Sussex County	54,088	91	1,306	3,483	377	815	3,016	1,278	189
Total Delaware		1,047,951	302	4,327	11,539	1,249	2,700	9,991	4,234	626
Maine	Androscoggin County	212,779	314	4,495	11,986	1,298	2,805	10,378	4,398	650
	Aroostook County	110,766	266	3,810	10,159	1,100	2,377	8,796	3,728	551
	Cumberland County	363,860	503	7,201	19,201	2,079	4,494	16,625	7,046	1,041
	Franklin County	68,940	140	2,010	5,360	580	1,254	4,641	1,967	291
	Hancock County	73,315	234	3,352	8,940	968	2,092	7,740	3,280	485
	Kennebec County	136,338	375	5,373	14,327	1,551	3,353	12,405	5,257	777
	Knox County	52,524	170	2,434	6,490	703	1,519	5,620	2,382	352
	Lincoln County	43,391	148	2,121	5,657	612	1,324	4,898	2,076	307
	Oxford County	106,052	239	3,427	9,138	989	2,138	7,912	3,353	495
	Penobscot County	160,348	428	6,135	16,359	1,771	3,828	14,164	6,003	887
	Piscataquis County	40,620	83	1,189	3,170	343	742	2,745	1,163	172
	Sagadahoc County	41,426	141	2,016	5,376	582	1,258	4,655	1,973	291
	Somerset County	102,529	213	3,052	8,140	881	1,905	7,047	2,987	441
Waldo County	81,530	197	2,815	7,507	813	1,757	6,500	2,755	407	
Washington County	48,081	123	1,755	4,680	507	1,095	4,052	1,717	254	

State	County	Total dry mass of firelogs burned by fireplaces without inserts (kg/yr)	7-PAH (kg/yr)	16-PAH (kg/yr)	Benzo(a)pyrene (g/yr)	Naphthalene (kg/yr)	1,3-Butadiene (kg/yr)	Formaldehyde (kg/yr)	Acetaldehyde (kg/yr)	Acrolein (kg/yr)
	York County	140,096	407	5,829	15,544	1,683	3,638	13,458	5,704	843
	Total Maine	1,782,595	3,982	57,013	152,035	16,458	35,580	131,635	55,788	8,242
Maryland	Allegany County	159,528	201	2,873	7,661	829	1,793	6,633	2,811	415
	Anne Arundel County	395,089	369	5,277	14,072	1,523	3,293	12,183	5,163	763
	Baltimore County	231,907	378	5,408	14,420	1,561	3,375	12,485	5,291	782
	Calvert County	84,261	56	805	2,145	232	502	1,858	787	116
	Caroline County	20,267	23	331	883	96	207	764	324	48
	Carroll County	154,497	100	1,427	3,804	412	890	3,294	1,396	206
	Cecil County	75,530	55	781	2,083	226	488	1,804	765	113
	Charles County	98,747	63	899	2,396	259	561	2,075	879	130
	Dorchester County	6,731	15	213	568	62	133	492	209	31
	Frederick County	224,590	124	1,777	4,739	513	1,109	4,103	1,739	257
	Garrett County	54,840	143	2,055	5,479	593	1,282	4,744	2,010	297
	Harford County	145,505	109	1,555	4,147	449	970	3,590	1,522	225
	Howard County	96,088	85	1,224	3,264	353	764	2,826	1,198	177
	Kent County	8,918	13	180	479	52	112	415	176	26
	Montgomery County	325,389	277	3,960	10,560	1,143	2,471	9,143	3,875	573
	Prince George's County	482,899	453	6,487	17,298	1,873	4,048	14,977	6,347	938
	Queen Anne's County	36,019	29	419	1,117	121	261	967	410	61
	St. Mary's County	151,602	153	2,185	5,826	631	1,364	5,045	2,138	316
	Somerset County	11,897	15	215	574	62	134	497	211	31
	Talbot County	13,924	21	305	813	88	190	704	298	44
	Washington County	258,729	262	3,751	10,004	1,083	2,341	8,661	3,671	542
	Wicomico County	34,286	48	692	1,846	200	432	1,598	677	100
	Worcester County	20,928	30	430	1,147	124	268	993	421	62
	Baltimore city	43,047	18	263	702	76	164	608	258	38
	Total Maryland	3,135,219	3,039	43,510	116,028	12,560	27,153	100,459	42,575	6,290
Massachusetts	Barnstable County	242,386	316	4,526	12,068	1,306	2,824	10,449	4,428	654
	Berkshire County	249,198	360	5,158	13,756	1,489	3,219	11,910	5,048	746
	Bristol County	275,106	441	6,312	16,831	1,822	3,939	14,573	6,176	912
	Dukes County	13,121	39	558	1,488	161	348	1,288	546	81

State	County	Total dry mass of firelogs burned by fireplaces without inserts (kg/yr)	7-PAH (kg/yr)	16-PAH (kg/yr)	Benzo(a)pyrene (g/yr)	Naphthalene (kg/yr)	1,3-Butadiene (kg/yr)	Formaldehyde (kg/yr)	Acetaldehyde (kg/yr)	Acrolein (kg/yr)
	Essex County	310,933	626	8,969	23,917	2,589	5,597	20,707	8,776	1,297
	Franklin County	104,379	289	4,138	11,035	1,195	2,582	9,554	4,049	598
	Hampden County	470,217	599	8,580	22,880	2,477	5,355	19,810	8,396	1,240
	Hampshire County	333,685	408	5,848	15,596	1,688	3,650	13,503	5,723	846
	Middlesex County	377,117	1,058	15,153	40,407	4,374	9,456	34,985	14,827	2,191
	Nantucket County	7,989	20	290	773	84	181	669	284	42
	Norfolk County	169,701	473	6,772	18,059	1,955	4,226	15,636	6,626	979
	Plymouth County	197,213	371	5,315	14,173	1,534	3,317	12,271	5,201	768
	Suffolk County	44,537	28	399	1,065	115	249	922	391	58
	Worcester County	881,294	1,102	15,782	42,084	4,556	9,849	36,438	15,442	2,282
	Total Massachusetts	3,676,876	6,132	87,800	234,132	25,346	54,793	202,717	85,913	12,693
New Hampshire	Belknap County	46,739	151	2,156	5,751	623	1,346	4,979	2,110	312
	Carroll County	59,547	177	2,538	6,768	733	1,584	5,860	2,484	367
	Cheshire County	107,346	275	3,941	10,509	1,138	2,459	9,099	3,856	570
	Coos County	39,321	106	1,522	4,060	439	950	3,515	1,490	220
	Grafton County	120,588	315	4,514	12,037	1,303	2,817	10,422	4,417	653
	Hillsborough County	531,149	664	9,511	25,363	2,746	5,936	21,960	9,307	1,375
	Merrimack County	105,641	328	4,695	12,520	1,355	2,930	10,840	4,594	679
	Rockingham County	223,503	485	6,943	18,515	2,004	4,333	16,031	6,794	1,004
	Strafford County	162,844	230	3,294	8,785	951	2,056	7,606	3,224	476
	Sullivan County	61,427	162	2,319	6,185	670	1,447	5,355	2,269	335
	Total New Hampshire	1,458,106	2,894	41,434	110,491	11,961	25,858	95,666	40,544	5,990
New Jersey	Atlantic County	118,007	80	1,144	3,052	330	714	2,642	1,120	165
	Bergen County	252,509	595	8,525	22,734	2,461	5,320	19,683	8,342	1,232
	Burlington County	122,901	114	1,635	4,360	472	1,020	3,775	1,600	236
	Camden County	93,151	193	2,765	7,373	798	1,725	6,384	2,705	400
	Cape May County	76,992	51	728	1,941	210	454	1,680	712	105
	Cumberland County	57,045	48	694	1,851	200	433	1,603	679	100
	Essex County	68,886	213	3,051	8,135	881	1,904	7,044	2,985	441
	Gloucester County	66,421	66	943	2,514	272	588	2,177	922	136
	Hudson County	46,664	26	372	992	107	232	859	364	54

State	County	Total dry mass of firelogs burned by fireplaces without inserts (kg/yr)	7-PAH (kg/yr)	16-PAH (kg/yr)	Benzo(a)pyrene (g/yr)	Naphthalene (kg/yr)	1,3-Butadiene (kg/yr)	Formaldehyde (kg/yr)	Acetaldehyde (kg/yr)	Acrolein (kg/yr)
	Hunterdon County	28,280	108	1,546	4,122	446	965	3,569	1,513	223
	Mercer County	44,930	82	1,171	3,123	338	731	2,704	1,146	169
	Middlesex County	162,595	162	2,319	6,183	669	1,447	5,354	2,269	335
	Monmouth County	85,445	149	2,135	5,693	616	1,332	4,929	2,089	309
	Morris County	91,216	228	3,258	8,687	940	2,033	7,521	3,188	471
	Ocean County	148,531	157	2,244	5,984	648	1,400	5,181	2,196	324
	Passaic County	60,627	228	3,266	8,709	943	2,038	7,541	3,196	472
	Salem County	29,729	31	437	1,166	126	273	1,010	428	63
	Somerset County	42,605	137	1,961	5,231	566	1,224	4,529	1,919	284
	Sussex County	76,162	158	2,266	6,043	654	1,414	5,232	2,217	328
	Union County	53,600	233	3,336	8,895	963	2,082	7,702	3,264	482
	Warren County	64,262	125	1,789	4,770	516	1,116	4,130	1,750	259
	Total New Jersey	1,790,560	3,184	45,584	121,557	13,159	28,447	105,247	44,604	6,590
New York	Albany County	190,667	360	5,157	13,752	1,489	3,218	11,907	5,046	746
	Allegany County	52,260	215	3,085	8,228	891	1,925	7,124	3,019	446
	Bronx County	11,319	22	320	854	92	200	740	313	46
	Broome County	191,745	419	6,001	16,003	1,732	3,745	13,856	5,872	868
	Cattaraugus County	85,337	342	4,899	13,065	1,414	3,058	11,312	4,794	708
	Cayuga County	110,727	260	3,717	9,913	1,073	2,320	8,583	3,638	537
	Chautauqua County	196,174	453	6,481	17,284	1,871	4,045	14,965	6,342	937
	Chemung County	106,486	246	3,516	9,375	1,015	2,194	8,117	3,440	508
	Chenango County	68,466	212	3,033	8,089	876	1,893	7,004	2,968	439
	Clinton County	62,079	197	2,823	7,527	815	1,762	6,517	2,762	408
	Columbia County	41,071	153	2,193	5,847	633	1,368	5,062	2,145	317
	Cortland County	40,104	155	2,217	5,913	640	1,384	5,120	2,170	321
	Delaware County	77,900	226	3,236	8,630	934	2,020	7,472	3,167	468
	Dutchess County	201,553	323	4,627	12,339	1,336	2,888	10,684	4,528	669
	Erie County	233,292	1,567	22,443	59,849	6,479	14,006	51,819	21,961	3,245
	Essex County	44,511	130	1,861	4,963	537	1,161	4,297	1,821	269
	Franklin County	70,711	181	2,588	6,900	747	1,615	5,974	2,532	374
	Fulton County	44,005	167	2,393	6,380	691	1,493	5,524	2,341	346

State	County	Total dry mass of firelogs burned by fireplaces without inserts (kg/yr)	7-PAH (kg/yr)	16-PAH (kg/yr)	Benzo(a)pyrene (g/yr)	Naphthalene (kg/yr)	1,3-Butadiene (kg/yr)	Formaldehyde (kg/yr)	Acetaldehyde (kg/yr)	Acrolein (kg/yr)
	Genesee County	29,141	133	1,898	5,062	548	1,185	4,383	1,858	274
	Greene County	40,698	132	1,893	5,049	547	1,181	4,371	1,853	274
	Hamilton County	11,433	33	466	1,243	135	291	1,076	456	67
	Herkimer County	119,227	235	3,363	8,969	971	2,099	7,765	3,291	486
	Jefferson County	83,416	295	4,224	11,264	1,219	2,636	9,752	4,133	611
	Kings County	21,385	42	606	1,617	175	378	1,400	593	88
	Lewis County	86,144	209	2,986	7,962	862	1,863	6,894	2,922	432
	Livingston County	52,731	176	2,518	6,715	727	1,571	5,814	2,464	364
	Madison County	106,598	226	3,233	8,621	933	2,018	7,465	3,164	467
	Monroe County	170,587	931	13,331	35,550	3,848	8,319	30,780	13,045	1,927
	Montgomery County	72,072	146	2,085	5,560	602	1,301	4,814	2,040	301
	Nassau County	336,059	41	584	1,558	169	365	1,349	572	84
	New York County	18,556	37	525	1,401	152	328	1,213	514	76
	Niagara County	72,568	338	4,843	12,916	1,398	3,023	11,183	4,739	700
	Oneida County	259,088	534	7,645	20,387	2,207	4,771	17,651	7,481	1,105
	Onondaga County	280,756	589	8,427	22,473	2,433	5,259	19,457	8,246	1,218
	Ontario County	15,401	386	5,532	14,751	1,597	3,452	12,772	5,413	800
	Orange County	90,134	246	3,520	9,387	1,016	2,197	8,128	3,445	509
	Orleans County	31,349	109	1,562	4,164	451	975	3,606	1,528	226
	Oswego County	173,474	400	5,729	15,278	1,654	3,575	13,228	5,606	828
	Otsego County	76,177	235	3,371	8,988	973	2,103	7,782	3,298	487
	Putnam County	54,201	114	1,628	4,341	470	1,016	3,758	1,593	235
	Queens County	18,774	37	532	1,418	154	332	1,228	520	77
	Rensselaer County	249,226	399	5,719	15,250	1,651	3,569	13,204	5,596	827
	Richmond County	3,918	8	111	296	32	69	256	108	16
	Rockland County	32,351	91	1,296	3,457	374	809	2,993	1,269	187
	St. Lawrence County	128,073	388	5,555	14,813	1,604	3,467	12,826	5,436	803
	Saratoga County	300,020	530	7,584	20,225	2,189	4,733	17,511	7,421	1,096
	Schenectady County	92,685	218	3,115	8,306	899	1,944	7,192	3,048	450
	Schoharie County	95,902	160	2,296	6,121	663	1,433	5,300	2,246	332
	Schuyler County	21,946	77	1,102	2,938	318	688	2,544	1,078	159

State	County	Total dry mass of firelogs burned by fireplaces without inserts (kg/yr)	7-PAH (kg/yr)	16-PAH (kg/yr)	Benzo(a)pyrene (g/yr)	Naphthalene (kg/yr)	1,3-Butadiene (kg/yr)	Formaldehyde (kg/yr)	Acetaldehyde (kg/yr)	Acrolein (kg/yr)
	Seneca County	11,845	69	991	2,643	286	618	2,288	970	143
	Steuben County	84,234	364	5,217	13,911	1,506	3,256	12,044	5,105	754
	Suffolk County	515,049	370	5,298	14,129	1,529	3,307	12,233	5,184	766
	Sullivan County	52,855	184	2,634	7,023	760	1,644	6,081	2,577	381
	Tioga County	112,248	215	3,075	8,200	888	1,919	7,100	3,009	445
	Tompkins County	65,011	273	3,905	10,413	1,127	2,437	9,015	3,821	565
	Ulster County	108,720	365	5,228	13,943	1,509	3,263	12,072	5,116	756
	Warren County	147,013	247	3,530	9,412	1,019	2,203	8,149	3,454	510
	Washington County	173,252	296	4,245	11,320	1,225	2,649	9,801	4,154	614
	Wayne County	71,936	266	3,815	10,173	1,101	2,381	8,808	3,733	552
	Westchester County	101,757	707	10,124	26,998	2,923	6,318	23,376	9,907	1,464
	Wyoming County	35,937	144	2,065	5,507	596	1,289	4,768	2,021	299
	Yates County	23,199	86	1,239	3,303	358	773	2,860	1,212	179
	Total New York	6,475,552	1.7E+04	2.4E+05	6.4E+05	6.9E+04	1.5E+05	5.5E+05	2.3E+05	3.5E+04
Pennsylvania	Adams County	67,681	219	3,134	8,357	905	1,956	7,235	3,066	453
	Allegheny County	519,344	975	13,965	37,241	4,031	8,715	32,244	13,665	2,019
	Armstrong County	11,374	99	1,415	3,774	409	883	3,268	1,385	205
	Beaver County	71,135	219	3,139	8,369	906	1,959	7,246	3,071	454
	Bedford County	81,419	184	2,628	7,009	759	1,640	6,068	2,572	380
	Berks County	289,270	160	2,294	6,116	662	1,431	5,296	2,244	332
	Blair County	112,578	202	2,893	7,714	835	1,805	6,679	2,830	418
	Bradford County	74,173	250	3,587	9,564	1,035	2,238	8,281	3,510	519
	Bucks County	254,010	186	2,659	7,090	768	1,659	6,139	2,602	384
	Butler County	77,416	234	3,357	8,953	969	2,095	7,752	3,285	485
	Cambria County	67,251	170	2,437	6,499	704	1,521	5,627	2,385	352
	Cameron County	5,292	22	309	825	89	193	714	303	45
	Carbon County	29,456	80	1,147	3,059	331	716	2,648	1,122	166
	Centre County	228,566	316	4,524	12,064	1,306	2,823	10,445	4,427	654
	Chester County	195,152	147	2,108	5,622	609	1,316	4,867	2,063	305
	Clarion County	12,415	90	1,284	3,424	371	801	2,964	1,256	186
	Clearfield County	21,141	137	1,961	5,230	566	1,224	4,528	1,919	284

State	County	Total dry mass of firelogs burned by fireplaces without inserts (kg/yr)	7-PAH (kg/yr)	16-PAH (kg/yr)	Benzo(a)pyrene (g/yr)	Naphthalene (kg/yr)	1,3-Butadiene (kg/yr)	Formaldehyde (kg/yr)	Acetaldehyde (kg/yr)	Acrolein (kg/yr)
	Clinton County	31,779	101	1,450	3,867	419	905	3,348	1,419	210
	Columbia County	75,722	125	1,788	4,767	516	1,116	4,128	1,749	258
	Crawford County	83,390	347	4,962	13,233	1,433	3,097	11,458	4,856	717
	Cumberland County	268,577	336	4,809	12,825	1,388	3,001	11,104	4,706	695
	Dauphin County	181,429	94	1,348	3,595	389	841	3,112	1,319	195
	Delaware County	189,390	126	1,808	4,820	522	1,128	4,174	1,769	261
	Elk County	13,460	83	1,182	3,151	341	737	2,728	1,156	171
	Erie County	214,625	470	6,724	17,930	1,941	4,196	15,524	6,579	972
	Fayette County	74,794	204	2,919	7,784	843	1,822	6,740	2,856	422
	Forest County	6,149	26	378	1,007	109	236	872	370	55
	Franklin County	132,230	311	4,460	11,893	1,287	2,783	10,297	4,364	645
	Fulton County	39,182	81	1,164	3,104	336	726	2,687	1,139	168
	Greene County	14,206	70	1,004	2,676	290	626	2,317	982	145
	Huntingdon County	70,763	158	2,256	6,016	651	1,408	5,208	2,207	326
	Indiana County	28,249	144	2,055	5,481	593	1,283	4,745	2,011	297
	Jefferson County	14,369	83	1,188	3,169	343	742	2,744	1,163	172
	Juniata County	46,528	99	1,415	3,774	409	883	3,268	1,385	205
	Lackawanna County	74,504	263	3,763	10,034	1,086	2,348	8,687	3,682	544
	Lancaster County	587,235	247	3,534	9,425	1,020	2,206	8,160	3,458	511
	Lawrence County	19,504	129	1,854	4,943	535	1,157	4,279	1,814	268
	Lebanon County	108,518	65	928	2,474	268	579	2,142	908	134
	Lehigh County	291,446	299	4,275	11,401	1,234	2,668	9,871	4,183	618
	Luzerne County	141,337	330	4,722	12,592	1,363	2,947	10,902	4,621	683
	Lycoming County	258,426	297	4,247	11,327	1,226	2,651	9,807	4,156	614
	McKean County	18,946	122	1,749	4,664	505	1,091	4,038	1,711	253
	Mercer County	100,202	271	3,876	10,337	1,119	2,419	8,950	3,793	560
	Mifflin County	75,354	167	2,390	6,374	690	1,492	5,519	2,339	346
	Monroe County	91,205	291	4,169	11,117	1,203	2,602	9,625	4,079	603
	Montgomery County	151,124	480	6,873	18,328	1,984	4,289	15,869	6,725	994
	Montour County	9,383	33	474	1,263	137	296	1,094	464	68
	Northampton County	200,817	248	3,558	9,488	1,027	2,220	8,215	3,481	514

State	County	Total dry mass of firelogs burned by fireplaces without inserts (kg/yr)	7-PAH (kg/yr)	16-PAH (kg/yr)	Benzo(a)pyrene (g/yr)	Naphthalene (kg/yr)	1,3-Butadiene (kg/yr)	Formaldehyde (kg/yr)	Acetaldehyde (kg/yr)	Acrolein (kg/yr)
	Northumberland County	26,700	132	1,894	5,052	547	1,182	4,374	1,854	274
	Perry County	120,777	172	2,465	6,573	712	1,538	5,691	2,412	356
	Philadelphia County	111,941	136	1,949	5,198	563	1,216	4,500	1,907	282
	Pike County	86,340	185	2,650	7,066	765	1,654	6,118	2,593	383
	Potter County	18,569	88	1,260	3,359	364	786	2,909	1,233	182
	Schuylkill County	23,851	141	2,016	5,376	582	1,258	4,654	1,973	291
	Snyder County	39,082	100	1,429	3,811	413	892	3,300	1,399	207
	Somerset County	81,108	163	2,332	6,219	673	1,455	5,384	2,282	337
	Sullivan County	12,325	33	479	1,277	138	299	1,106	469	69
	Susquehanna County	67,090	192	2,748	7,328	793	1,715	6,345	2,689	397
	Tioga County	40,639	186	2,670	7,120	771	1,666	6,165	2,613	386
	Union County	32,323	80	1,141	3,043	329	712	2,635	1,117	165
	Venango County	34,709	181	2,587	6,898	747	1,614	5,973	2,531	374
	Warren County	38,371	182	2,603	6,940	751	1,624	6,009	2,547	376
	Washington County	94,771	276	3,945	10,520	1,139	2,462	9,108	3,860	570
	Wayne County	51,196	169	2,423	6,462	700	1,512	5,595	2,371	350
	Westmoreland County	145,055	763	10,929	29,145	3,155	6,821	25,234	10,694	1,580
	Wyoming County	57,561	111	1,586	4,229	458	990	3,662	1,552	229
	York County	429,073	597	8,552	22,806	2,469	5,337	19,746	8,368	1,236
	Total Pennsylvania	7,241,992	1.4E+04	2.0E+05	5.2E+05	5.7E+04	1.2E+05	4.5E+05	1.9E+05	2.8E+04
Rhode Island	Bristol County	30,475	72	1,024	2,730	296	639	2,364	1,002	148
	Kent County	108,004	236	3,382	9,018	976	2,111	7,808	3,309	489
	Newport County	28,267	123	1,763	4,701	509	1,100	4,070	1,725	255
	Providence County	243,189	533	7,638	20,368	2,205	4,766	17,635	7,474	1,104
	Washington County	121,224	218	3,128	8,342	903	1,952	7,223	3,061	452
	Total Rhode Island	531,158	1,183	16,935	45,159	4,889	10,568	39,100	16,571	2,448
District of Columbia	District of Columbia	208,065	38	538	1,434	155	335	1,241	526	78
	Total D.C.	208,065	38	538	1,434	155	335	1,241	526	78
Vermont	Addison County	60,622	192	2,755	7,347	795	1,719	6,361	2,696	398
	Bennington County	45,200	147	2,105	5,614	608	1,314	4,861	2,060	304
	Caledonia County	59,558	184	2,637	7,031	761	1,645	6,088	2,580	381

State	County	Total dry mass of firelogs burned by fireplaces without inserts (kg/yr)	7-PAH (kg/yr)	16-PAH (kg/yr)	Benzo(a)pyrene (g/yr)	Naphthalene (kg/yr)	1,3-Butadiene (kg/yr)	Formaldehyde (kg/yr)	Acetaldehyde (kg/yr)	Acrolein (kg/yr)
	Chittenden County	177,890	411	5,880	15,680	1,697	3,669	13,576	5,754	850
	Essex County	13,226	41	593	1,581	171	370	1,369	580	86
	Franklin County	52,050	183	2,619	6,984	756	1,634	6,047	2,563	379
	Grand Isle County	17,237	48	686	1,830	198	428	1,585	672	99
	Lamoille County	40,669	135	1,930	5,147	557	1,205	4,457	1,889	279
	Orange County	61,653	196	2,805	7,479	810	1,750	6,476	2,744	405
	Orleans County	67,996	203	2,913	7,768	841	1,818	6,726	2,850	421
	Rutland County	86,834	277	3,971	10,589	1,146	2,478	9,168	3,885	574
	Washington County	96,117	299	4,283	11,420	1,236	2,673	9,888	4,191	619
	Windham County	97,997	299	4,277	11,405	1,235	2,669	9,874	4,185	618
	Windsor County	96,515	311	4,449	11,864	1,284	2,776	10,272	4,353	643
	Total Vermont	973,563	2,927	41,903	111,740	12,096	26,150	96,747	41,002	6,058
	Total MANE-VU	30,557,162	5.8E+04	8.3E+05	2.2E+06	2.4E+05	5.2E+05	1.9E+06	8.1E+05	1.2E+05

HDD Range	HDD	Total dry mass of firelogs burned by fireplaces without inserts (kg/yr)	7-PAH (kg/yr)	16-PAH (kg/yr)	Benzo(a)pyrene (g/yr)	Naphthalene (kg/yr)	1,3-Butadiene (kg/yr)	Formaldehyde (kg/yr)	Acetaldehyde (kg/yr)	Acrolein (kg/yr)
> 6500	High	14,206,804	25.57	920	6,819	493	120.47	10,712	875	259
5500-6499	Med.	8,433,345	15.18	546	4,048	293	71.51	6,359	519	154
< 5499	Low	7,917,013	14.25	512	3,800	275	67.14	5,969	487	144

Section 3.3.2

Table 3.3.2

Emission Inventory for Fireplaces without Inserts Burning Manufactured Wax/Sawdust Firelogs (2002 Base Year)

Section 3

State	County	Total dry mass of firelogs burned by fireplaces without inserts (kg/yr)	Cresols (kg/yr)	PCB _{TEQ} (ng/yr)	Dioxin _{TEQ} (ug/yr)	Methane (kg/yr)	VOC (kg/yr)
Connecticut	Fairfield County	324,987	6.82	530	397	12,593	5,503
	Hartford County	444,046	9.32	724	542	17,207	7,519
	Litchfield County	105,007	2.21	171	128	4,069	1,778
	Middlesex County	122,275	2.57	199	149	4,738	2,070
	New Haven County	595,574	12.51	971	728	23,079	10,085
	New London County	301,308	6.33	491	368	11,676	5,102
	Tolland County	134,197	2.82	219	164	5,200	2,272
	Windham County	208,130	4.37	339	254	8,065	3,524
	Total Connecticut		2,235,525	46.95	3,643	2,731	86,627
Delaware	Kent County	193,755	4.07	316	237	7,508	3,281
	New Castle County	800,108	16.80	1,304	977	31,004	13,548
	Sussex County	54,088	1.14	88	66	2,096	916
Total Delaware		1,047,951	22.01	1,708	1,280	40,608	17,744
Maine	Androscoggin County	212,779	4.47	347	260	8,245	3,603
	Aroostook County	110,766	2.33	181	135	4,292	1,876
	Cumberland County	363,860	7.64	593	445	14,100	6,161
	Franklin County	68,940	1.45	112	84	2,671	1,167
	Hancock County	73,315	1.54	119	90	2,841	1,241
	Kennebec County	136,338	2.86	222	167	5,283	2,309
	Knox County	52,524	1.10	86	64	2,035	889
	Lincoln County	43,391	0.91	71	53	1,681	735
	Oxford County	106,052	2.23	173	130	4,110	1,796
	Penobscot County	160,348	3.37	261	196	6,213	2,715
	Piscataquis County	40,620	0.85	66	50	1,574	688
	Sagadahoc County	41,426	0.87	68	51	1,605	701
	Somerset County	102,529	2.15	167	125	3,973	1,736
	Waldo County	81,530	1.71	133	100	3,159	1,381
Washington County	48,081	1.01	78	59	1,863	814	

State	County	Total dry mass of firelogs burned by fireplaces without inserts (kg/yr)	Cresols (kg/yr)	PCB _{TEDQ} (ng/yr)	Dioxin _{TEDQ} (ug/yr)	Methane (kg/yr)	VOC (kg/yr)
	York County	140,096	2.94	228	171	5,429	2,372
	Total Maine	1,782,595	37.43	2,905	2,178	69,076	30,184
Maryland	Allegany County	159,528	3.35	260	195	6,182	2,701
	Anne Arundel County	395,089	8.30	644	483	15,310	6,690
	Baltimore County	231,907	4.87	378	283	8,986	3,927
	Calvert County	84,261	1.77	137	103	3,265	1,427
	Caroline County	20,267	0.43	33	25	785	343
	Carroll County	154,497	3.24	252	189	5,987	2,616
	Cecil County	75,530	1.59	123	92	2,927	1,279
	Charles County	98,747	2.07	161	121	3,826	1,672
	Dorchester County	6,731	0.14	11	8	261	114
	Frederick County	224,590	4.72	366	274	8,703	3,803
	Garrett County	54,840	1.15	89	67	2,125	929
	Harford County	145,505	3.06	237	178	5,638	2,464
	Howard County	96,088	2.02	157	117	3,723	1,627
	Kent County	8,918	0.19	15	11	346	151
	Montgomery County	325,389	6.83	530	398	12,609	5,510
	Prince George's County	482,899	10.14	787	590	18,712	8,177
	Queen Anne's County	36,019	0.76	59	44	1,396	610
	St. Mary's County	151,602	3.18	247	185	5,875	2,567
	Somerset County	11,897	0.25	19	15	461	201
	Talbot County	13,924	0.29	23	17	540	236
	Washington County	258,729	5.43	422	316	10,026	4,381
	Wicomico County	34,286	0.72	56	42	1,329	581
	Worcester County	20,928	0.44	34	26	811	354
	Baltimore city	43,047	0.90	70	53	1,668	729
	Total Maryland	3,135,219	65.84	5,109	3,830	121,490	53,087
Massachusetts	Barnstable County	242,386	5.09	395	296	9,392	4,104
	Berkshire County	249,198	5.23	406	304	9,656	4,220
	Bristol County	275,106	5.78	448	336	10,660	4,658
	Dukes County	13,121	0.28	21	16	508	222

State	County	Total dry mass of firelogs burned by fireplaces without inserts (kg/yr)	Cresols (kg/yr)	PCB _{TEQ} (ng/yr)	Dioxin _{TEQ} (ug/yr)	Methane (kg/yr)	VOC (kg/yr)
	Essex County	310,933	6.53	507	380	12,049	5,265
	Franklin County	104,379	2.19	170	128	4,045	1,767
	Hampden County	470,217	9.87	766	574	18,221	7,962
	Hampshire County	333,685	7.01	544	408	12,930	5,650
	Middlesex County	377,117	7.92	615	461	14,613	6,386
	Nantucket County	7,989	0.17	13	10	310	135
	Norfolk County	169,701	3.56	277	207	6,576	2,873
	Plymouth County	197,213	4.14	321	241	7,642	3,339
	Suffolk County	44,537	0.94	73	54	1,726	754
	Worcester County	881,294	18.51	1,436	1,077	34,150	14,923
	Total Massachusetts	3,676,876	77.21	5,992	4,492	142,479	62,259
New Hampshire	Belknap County	46,739	0.98	76	57	1,811	791
	Carroll County	59,547	1.25	97	73	2,307	1,008
	Cheshire County	107,346	2.25	175	131	4,160	1,818
	Coos County	39,321	0.83	64	48	1,524	666
	Grafton County	120,588	2.53	197	147	4,673	2,042
	Hillsborough County	531,149	11.15	866	649	20,582	8,994
	Merrimack County	105,641	2.22	172	129	4,094	1,789
	Rockingham County	223,503	4.69	364	273	8,661	3,784
	Strafford County	162,844	3.42	265	199	6,310	2,757
	Sullivan County	61,427	1.29	100	75	2,380	1,040
	Total New Hampshire	1,458,106	30.62	2,376	1,781	56,502	24,689
New Jersey	Atlantic County	118,007	2.48	192	144	4,573	1,998
	Bergen County	252,509	5.30	411	308	9,785	4,276
	Burlington County	122,901	2.58	200	150	4,762	2,081
	Camden County	93,151	1.96	152	114	3,610	1,577
	Cape May County	76,992	1.62	125	94	2,983	1,304
	Cumberland County	57,045	1.20	93	70	2,211	966
	Essex County	68,886	1.45	112	84	2,669	1,166
	Gloucester County	66,421	1.39	108	81	2,574	1,125
	Hudson County	46,664	0.98	76	57	1,808	790

State	County	Total dry mass of firelogs burned by fireplaces without inserts (kg/yr)	Cresols (kg/yr)	PCB _{TEDQ} (ng/yr)	Dioxin _{TEDQ} (ug/yr)	Methane (kg/yr)	VOC (kg/yr)
	Hunterdon County	28,280	0.59	46	35	1,096	479
	Mercer County	44,930	0.94	73	55	1,741	761
	Middlesex County	162,595	3.41	265	199	6,301	2,753
	Monmouth County	85,445	1.79	139	104	3,311	1,447
	Morris County	91,216	1.92	149	111	3,535	1,545
	Ocean County	148,531	3.12	242	181	5,756	2,515
	Passaic County	60,627	1.27	99	74	2,349	1,027
	Salem County	29,729	0.62	48	36	1,152	503
	Somerset County	42,605	0.89	69	52	1,651	721
	Sussex County	76,162	1.60	124	93	2,951	1,290
	Union County	53,600	1.13	87	65	2,077	908
	Warren County	64,262	1.35	105	79	2,490	1,088
	Total New Jersey	1,790,560	37.60	2,918	2,187	69,384	30,319
New York	Albany County	190,667	4.00	311	233	7,388	3,228
	Allegany County	52,260	1.10	85	64	2,025	885
	Bronx County	11,319	0.24	18	14	439	192
	Broome County	191,745	4.03	312	234	7,430	3,247
	Cattaraugus County	85,337	1.79	139	104	3,307	1,445
	Cayuga County	110,727	2.33	180	135	4,291	1,875
	Chautauqua County	196,174	4.12	320	240	7,602	3,322
	Chemung County	106,486	2.24	174	130	4,126	1,803
	Chenango County	68,466	1.44	112	84	2,653	1,159
	Clinton County	62,079	1.30	101	76	2,406	1,051
	Columbia County	41,071	0.86	67	50	1,592	695
	Cortland County	40,104	0.84	65	49	1,554	679
	Delaware County	77,900	1.64	127	95	3,019	1,319
	Dutchess County	201,553	4.23	328	246	7,810	3,413
	Erie County	233,292	4.90	380	285	9,040	3,950
	Essex County	44,511	0.93	73	54	1,725	754
	Franklin County	70,711	1.48	115	86	2,740	1,197
	Fulton County	44,005	0.92	72	54	1,705	745

State	County	Total dry mass of firelogs burned by fireplaces without inserts (kg/yr)	Cresols (kg/yr)	PCB _{TEQ} (ng/yr)	Dioxin _{TEQ} (ug/yr)	Methane (kg/yr)	VOC (kg/yr)
	Genesee County	29,141	0.61	47	36	1,129	493
	Greene County	40,698	0.85	66	50	1,577	689
	Hamilton County	11,433	0.24	19	14	443	194
	Herkimer County	119,227	2.50	194	146	4,620	2,019
	Jefferson County	83,416	1.75	136	102	3,232	1,412
	Kings County	21,385	0.45	35	26	829	362
	Lewis County	86,144	1.81	140	105	3,338	1,459
	Livingston County	52,731	1.11	86	64	2,043	893
	Madison County	106,598	2.24	174	130	4,131	1,805
	Monroe County	170,587	3.58	278	208	6,610	2,888
	Montgomery County	72,072	1.51	117	88	2,793	1,220
	Nassau County	336,059	7.06	548	411	13,022	5,690
	New York County	18,556	0.39	30	23	719	314
	Niagara County	72,568	1.52	118	89	2,812	1,229
	Oneida County	259,088	5.44	422	317	10,040	4,387
	Onondaga County	280,756	5.90	458	343	10,879	4,754
	Ontario County	15,401	0.32	25	19	597	261
	Orange County	90,134	1.89	147	110	3,493	1,526
	Orleans County	31,349	0.66	51	38	1,215	531
	Oswego County	173,474	3.64	283	212	6,722	2,937
	Otsego County	76,177	1.60	124	93	2,952	1,290
	Putnam County	54,201	1.14	88	66	2,100	918
	Queens County	18,774	0.39	31	23	727	318
	Rensselaer County	249,226	5.23	406	304	9,657	4,220
	Richmond County	3,918	0.08	6	5	152	66
	Rockland County	32,351	0.68	53	40	1,254	548
	St. Lawrence County	128,073	2.69	209	156	4,963	2,169
	Saratoga County	300,020	6.30	489	367	11,626	5,080
	Schenectady County	92,685	1.95	151	113	3,592	1,569
	Schoharie County	95,902	2.01	156	117	3,716	1,624
	Schuyler County	21,946	0.46	36	27	850	372

State	County	Total dry mass of firelogs burned by fireplaces without inserts (kg/yr)	Cresols (kg/yr)	PCB _{TEDQ} (ng/yr)	Dioxin _{TEDQ} (ug/yr)	Methane (kg/yr)	VOC (kg/yr)
	Seneca County	11,845	0.25	19	14	459	201
	Steuben County	84,234	1.77	137	103	3,264	1,426
	Suffolk County	515,049	10.82	839	629	19,958	8,721
	Sullivan County	52,855	1.11	86	65	2,048	895
	Tioga County	112,248	2.36	183	137	4,350	1,901
	Tompkins County	65,011	1.37	106	79	2,519	1,101
	Ulster County	108,720	2.28	177	133	4,213	1,841
	Warren County	147,013	3.09	240	180	5,697	2,489
	Washington County	173,252	3.64	282	212	6,714	2,934
	Wayne County	71,936	1.51	117	88	2,788	1,218
	Westchester County	101,757	2.14	166	124	3,943	1,723
	Wyoming County	35,937	0.75	59	44	1,393	609
	Yates County	23,199	0.49	38	28	899	393
Total New York		6,475,552	135.99	10,553	7,911	250,928	109,647
Pennsylvania	Adams County	67,681	1.42	110	83	2,623	1,146
	Allegheny County	519,344	10.91	846	634	20,125	8,794
	Armstrong County	11,374	0.24	19	14	441	193
	Beaver County	71,135	1.49	116	87	2,756	1,204
	Bedford County	81,419	1.71	133	99	3,155	1,379
	Berks County	289,270	6.07	471	353	11,209	4,898
	Blair County	112,578	2.36	183	138	4,362	1,906
	Bradford County	74,173	1.56	121	91	2,874	1,256
	Bucks County	254,010	5.33	414	310	9,843	4,301
	Butler County	77,416	1.63	126	95	3,000	1,311
	Cambria County	67,251	1.41	110	82	2,606	1,139
	Cameron County	5,292	0.11	9	6	205	90
	Carbon County	29,456	0.62	48	36	1,141	499
	Centre County	228,566	4.80	372	279	8,857	3,870
	Chester County	195,152	4.10	318	238	7,562	3,304
	Clarion County	12,415	0.26	20	15	481	210
	Clearfield County	21,141	0.44	34	26	819	358

State	County	Total dry mass of firelogs burned by fireplaces without inserts (kg/yr)	Cresols (kg/yr)	PCB _{TEQ} (ng/yr)	Dioxin _{TEQ} (ug/yr)	Methane (kg/yr)	VOC (kg/yr)
	Clinton County	31,779	0.67	52	39	1,231	538
	Columbia County	75,722	1.59	123	93	2,934	1,282
	Crawford County	83,390	1.75	136	102	3,231	1,412
	Cumberland County	268,577	5.64	438	328	10,407	4,548
	Dauphin County	181,429	3.81	296	222	7,030	3,072
	Delaware County	189,390	3.98	309	231	7,339	3,207
	Elk County	13,460	0.28	22	16	522	228
	Erie County	214,625	4.51	350	262	8,317	3,634
	Fayette County	74,794	1.57	122	91	2,898	1,266
	Forest County	6,149	0.13	10	8	238	104
	Franklin County	132,230	2.78	215	162	5,124	2,239
	Fulton County	39,182	0.82	64	48	1,518	663
	Greene County	14,206	0.30	23	17	550	241
	Huntingdon County	70,763	1.49	115	86	2,742	1,198
	Indiana County	28,249	0.59	46	35	1,095	478
	Jefferson County	14,369	0.30	23	18	557	243
	Juniata County	46,528	0.98	76	57	1,803	788
	Lackawanna County	74,504	1.56	121	91	2,887	1,262
	Lancaster County	587,235	12.33	957	717	22,755	9,943
	Lawrence County	19,504	0.41	32	24	756	330
	Lebanon County	108,518	2.28	177	133	4,205	1,837
	Lehigh County	291,446	6.12	475	356	11,294	4,935
	Luzerne County	141,337	2.97	230	173	5,477	2,393
	Lycoming County	258,426	5.43	421	316	10,014	4,376
	McKean County	18,946	0.40	31	23	734	321
	Mercer County	100,202	2.10	163	122	3,883	1,697
	Mifflin County	75,354	1.58	123	92	2,920	1,276
	Monroe County	91,205	1.92	149	111	3,534	1,544
	Montgomery County	151,124	3.17	246	185	5,856	2,559
	Montour County	9,383	0.20	15	11	364	159
	Northampton County	200,817	4.22	327	245	7,782	3,400

State	County	Total dry mass of firelogs burned by fireplaces without inserts (kg/yr)	Cresols (kg/yr)	PCB _{TEDQ} (ng/yr)	Dioxin _{TEDQ} (ug/yr)	Methane (kg/yr)	VOC (kg/yr)
	Northumberland County	26,700	0.56	44	33	1,035	452
	Perry County	120,777	2.54	197	148	4,680	2,045
	Philadelphia County	111,941	2.35	182	137	4,338	1,895
	Pike County	86,340	1.81	141	105	3,346	1,462
	Potter County	18,569	0.39	30	23	720	314
	Schuylkill County	23,851	0.50	39	29	924	404
	Snyder County	39,082	0.82	64	48	1,514	662
	Somerset County	81,108	1.70	132	99	3,143	1,373
	Sullivan County	12,325	0.26	20	15	478	209
	Susquehanna County	67,090	1.41	109	82	2,600	1,136
	Tioga County	40,639	0.85	66	50	1,575	688
	Union County	32,323	0.68	53	39	1,253	547
	Venango County	34,709	0.73	57	42	1,345	588
	Warren County	38,371	0.81	63	47	1,487	650
	Washington County	94,771	1.99	154	116	3,672	1,605
	Wayne County	51,196	1.08	83	63	1,984	867
	Westmoreland County	145,055	3.05	236	177	5,621	2,456
	Wyoming County	57,561	1.21	94	70	2,230	975
	York County	429,073	9.01	699	524	16,627	7,265
	Total Pennsylvania	7,241,992	152.08	11,802	8,847	280,627	122,625
Rhode Island	Bristol County	30,475	0.64	50	37	1,181	516
	Kent County	108,004	2.27	176	132	4,185	1,829
	Newport County	28,267	0.59	46	35	1,095	479
	Providence County	243,189	5.11	396	297	9,424	4,118
	Washington County	121,224	2.55	198	148	4,697	2,053
	Total Rhode Island	531,158	11.15	866	649	20,582	8,994
District of Columbia	District of Columbia	208,065	4.37	339	254	8,063	3,523
	Total D.C.	208,065	4.37	339	254	8,063	3,523
Vermont	Addison County	60,622	1.27	99	74	2,349	1,026
	Bennington County	45,200	0.95	74	55	1,751	765
	Caledonia County	59,558	1.25	97	73	2,308	1,008

State	County	Total dry mass of firelogs burned by fireplaces without inserts (kg/yr)	Cresols (kg/yr)	PCB _{TEQ} (ng/yr)	Dioxin _{TEQ} (ug/yr)	Methane (kg/yr)	VOC (kg/yr)
	Chittenden County	177,890	3.74	290	217	6,893	3,012
	Essex County	13,226	0.28	22	16	512	224
	Franklin County	52,050	1.09	85	64	2,017	881
	Grand Isle County	17,237	0.36	28	21	668	292
	Lamoille County	40,669	0.85	66	50	1,576	689
	Orange County	61,653	1.29	100	75	2,389	1,044
	Orleans County	67,996	1.43	111	83	2,635	1,151
	Rutland County	86,834	1.82	142	106	3,365	1,470
	Washington County	96,117	2.02	157	117	3,725	1,628
	Windham County	97,997	2.06	160	120	3,797	1,659
	Windsor County	96,515	2.03	157	118	3,740	1,634
Total Vermont		973,563	20.44	1,587	1,189	37,726	16,485
Total MANE-VU		30,557,162	642	49,797	37,331	1,184,090	517,409

HDD Range	HDD	Total dry mass of firelogs burned by fireplaces without inserts (kg/yr)	Cresols (kg/yr)	PCB _{TEQ} (ng/yr)	Dioxin _{TEQ} (ug/yr)	Methane (kg/yr)	VOC (kg/yr)
> 6500	High	14,206,804	298	23,152	17,356	550,514	240,557
5500-6499	Med.	8,433,345	177	13,743	10,303	326,792	142,798
< 5499	Low	7,917,013	166	12,902	9,672	306,784	134,055

3.4 Emission Inventory for Centralized Cordwood Heating Systems

Section 1: PM_{2.5}, PM₁₀, NO_x, CO, SO₂, NH₃, Benzene, Phenol

Section 2: 7-PAH, 16-PAH, Benzo(a)pyrene, Naphthalene, 1,3-Butadiene,
Formaldehyde, Acetaldehyde, Acrolein

Section 3: Cresols, PCB_{TEQ}, Dioxin_{TEQ}, Methane, VOC

Section 3.4

Table 3.4

Emission Inventory for Centralized Cordwood Heating Systems (2002 Base Year)

Section 1

State	County	Total centralized cordwood heating systems	Total dry mass of cordwood burned by centralized cordwood heating systems (kg/yr)	PM _{2.5} (kg/yr)	PM ₁₀ (kg/yr)	NO _x (kg/yr) as NO ₂	CO (kg/yr)	SO ₂ (kg/yr)	NH ₃ (kg/yr)	Benzene (kg/yr)	Phenol (kg/yr)
Connecticut	Fairfield County	251	613,176	8,474	8,474	565	56,272	621	552	848	74
	Hartford County	429	1,049,256	14,501	14,501	966	96,291	1,063	944	1,451	127
	Litchfield County	639	4,593,151	63,477	63,477	4,229	421,518	4,652	4,134	6,353	554
	Middlesex County	341	833,623	11,521	11,521	767	76,502	844	750	1,153	101
	New Haven County	463	1,131,901	15,643	15,643	1,042	103,876	1,146	1,019	1,566	136
	New London County	536	1,310,504	18,111	18,111	1,207	120,266	1,327	1,179	1,813	158
	Tolland County	429	3,078,509	42,545	42,545	2,834	282,518	3,118	2,771	4,258	371
	Windham County	550	3,952,462	54,623	54,623	3,639	362,721	4,003	3,557	5,467	477
	Total Connecticut		3,639	16,562,582	228,895	228,895	15,249	1,519,964	16,773	14,906	22,907
Delaware	Kent County	243	219,891	3,039	3,039	202	20,180	223	198	304	27
	New Castle County	101	91,170	1,260	1,260	84	8,367	92	82	126	11
	Sussex County	313	283,447	3,917	3,917	261	26,012	287	255	392	34
Total Delaware		656	594,508	8,216	8,216	547	54,559	602	535	822	72
Maine	Androscoggin County	505	3,022,945	41,777	41,777	2,783	277,419	3,061	2,721	4,181	365
	Aroostook County	827	4,954,550	68,472	68,472	4,561	454,684	5,017	4,459	6,853	597
	Cumberland County	769	4,606,416	63,661	63,661	4,241	422,735	4,665	4,146	6,371	555
	Franklin County	543	3,249,362	44,906	44,906	2,992	298,197	3,291	2,924	4,494	392
	Hancock County	622	3,726,994	51,507	51,507	3,431	342,030	3,774	3,354	5,155	449
	Kennebec County	925	5,537,623	76,530	76,530	5,098	508,193	5,608	4,984	7,659	668
	Knox County	365	2,187,947	30,237	30,237	2,014	200,790	2,216	1,969	3,026	264
	Lincoln County	373	2,231,062	30,833	30,833	2,054	204,747	2,259	2,008	3,086	269
	Oxford County	840	5,028,589	69,495	69,495	4,630	461,478	5,092	4,526	6,955	606
	Penobscot County	1,037	6,210,608	85,831	85,831	5,718	569,953	6,290	5,590	8,590	749
	Piscataquis County	344	2,057,853	28,440	28,440	1,895	188,851	2,084	1,852	2,846	248
	Sagadahoc County	284	1,700,092	23,495	23,495	1,565	156,019	1,722	1,530	2,351	205
	Somerset County	765	4,579,802	63,293	63,293	4,216	420,293	4,638	4,122	6,334	552
Waldo County	667	3,991,189	55,158	55,158	3,675	366,275	4,042	3,592	5,520	481	
Washington County	394	2,357,039	32,574	32,574	2,170	216,308	2,387	2,121	3,260	284	

State	County	Total centralized cordwood heating systems	Total dry mass of cordwood burned by centralized cordwood heating systems (kg/yr)	PM _{2.5} (kg/yr)	PM ₁₀ (kg/yr)	NO _x (kg/yr) as NO ₂	CO (kg/yr)	SO ₂ (kg/yr)	NH ₃ (kg/yr)	Benzene (kg/yr)	Phenol (kg/yr)
	York County	907	5,428,872	75,027	75,027	4,998	498,213	5,498	4,886	7,509	655
	Total Maine	10,167	60,870,943	841,236	841,236	56,042	5,586,185	61,644	54,784	84,190	7,341
Maryland	Allegany County	361	802,171	11,086	11,086	739	73,616	812	722	1,109	97
	Anne Arundel County	327	297,379	4,110	4,110	274	27,291	301	268	411	36
	Baltimore County	329	299,148	4,134	4,134	275	27,453	303	269	414	36
	Calvert County	220	200,606	2,772	2,772	185	18,410	203	181	277	24
	Caroline County	168	153,100	2,116	2,116	141	14,050	155	138	212	18
	Carroll County	621	565,142	7,810	7,810	520	51,864	572	509	782	68
	Cecil County	226	205,862	2,845	2,845	190	18,892	208	185	285	25
	Charles County	275	250,378	3,460	3,460	231	22,977	254	225	346	30
	Dorchester County	50	45,610	630	630	42	4,186	46	41	63	6
	Frederick County	642	584,263	8,075	8,075	538	53,618	592	526	808	70
	Garrett County	468	3,059,108	42,277	42,277	2,816	280,737	3,098	2,753	4,231	369
	Harford County	357	324,665	4,487	4,487	299	29,795	329	292	449	39
	Howard County	118	107,677	1,488	1,488	99	9,882	109	97	149	13
	Kent County	73	66,876	924	924	62	6,137	68	60	92	8
	Montgomery County	118	107,087	1,480	1,480	99	9,827	108	96	148	13
	Prince George's County	160	145,236	2,007	2,007	134	13,328	147	131	201	18
	Queen Anne's County	169	154,145	2,130	2,130	142	14,146	156	139	213	19
	St. Mary's County	350	318,273	4,399	4,399	293	29,208	322	286	440	38
	Somerset County	85	77,559	1,072	1,072	71	7,118	79	70	107	9
	Talbot County	106	96,872	1,339	1,339	89	8,890	98	87	134	12
	Washington County	543	1,206,381	16,672	16,672	1,111	110,711	1,222	1,086	1,669	145
	Wicomico County	195	177,077	2,447	2,447	163	16,251	179	159	245	21
	Worcester County	127	115,811	1,601	1,601	107	10,628	117	104	160	14
	Baltimore city	37	33,349	461	461	31	3,060	34	30	46	4
	Total Maryland	6,125	9,393,776	129,822	129,822	8,649	862,076	9,513	8,454	12,992	1,133
Massachusetts	Barnstable County	278	648,261	8,959	8,959	597	59,492	656	583	897	78
	Berkshire County	549	3,765,758	52,043	52,043	3,467	345,587	3,814	3,389	5,208	454
	Bristol County	351	819,709	11,328	11,328	755	75,225	830	738	1,134	99
	Dukes County	104	242,718	3,354	3,354	223	22,274	246	218	336	29

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	Essex County	395	922,412	12,748	12,748	849	84,651	934	830	1,276	111
	Franklin County	727	4,991,252	68,979	68,979	4,595	458,052	5,055	4,492	6,903	602
	Hampden County	552	3,788,613	52,359	52,359	3,488	347,685	3,837	3,410	5,240	457
	Hampshire County	656	4,502,135	62,219	62,219	4,145	413,165	4,559	4,052	6,227	543
	Middlesex County	384	2,632,338	36,379	36,379	2,424	241,572	2,666	2,369	3,641	317
	Nantucket County	35	82,100	1,135	1,135	76	7,534	83	74	114	10
	Norfolk County	141	329,381	4,552	4,552	303	30,228	334	296	456	40
	Plymouth County	363	846,056	11,692	11,692	779	77,643	857	761	1,170	102
	Suffolk County	5	11,823	163	163	11	1,085	12	11	16	1
	Worcester County	1,384	9,496,052	131,235	131,235	8,743	871,462	9,617	8,546	13,134	1,145
	Total Massachusetts	5,925	33,078,605	457,146	457,146	30,454	3,035,655	33,499	29,771	45,750	3,989
New Hampshire	Belknap County	339	2,213,333	30,588	30,588	2,038	203,120	2,241	1,992	3,061	267
	Carroll County	548	3,577,682	49,444	49,444	3,294	328,327	3,623	3,220	4,948	431
	Cheshire County	785	5,122,593	70,794	70,794	4,716	470,105	5,188	4,610	7,085	618
	Coos County	276	1,799,277	24,866	24,866	1,657	165,121	1,822	1,619	2,489	217
	Grafton County	898	5,859,458	80,978	80,978	5,395	537,728	5,934	5,274	8,104	707
	Hillsborough County	979	6,386,628	88,263	88,263	5,880	586,107	6,468	5,748	8,833	770
	Merrimack County	789	5,146,123	71,119	71,119	4,738	472,265	5,211	4,632	7,118	621
	Rockingham County	819	5,342,597	73,835	73,835	4,919	490,295	5,410	4,808	7,389	644
	Strafford County	362	2,360,717	32,625	32,625	2,173	216,645	2,391	2,125	3,265	285
	Sullivan County	453	2,955,659	40,847	40,847	2,721	271,244	2,993	2,660	4,088	356
	Total New Hampshire	6,247	40,764,066	563,359	563,359	37,530	3,740,958	41,282	36,688	56,380	4,916
New Jersey	Atlantic County	191	172,111	2,379	2,379	158	15,795	174	155	238	21
	Bergen County	30	66,212	915	915	61	6,076	67	60	92	8
	Burlington County	176	158,771	2,194	2,194	146	14,571	161	143	220	19
	Camden County	54	48,501	670	670	45	4,451	49	44	67	6
	Cape May County	135	122,040	1,687	1,687	112	11,200	124	110	169	15
	Cumberland County	101	91,442	1,264	1,264	84	8,392	93	82	126	11
	Essex County	19	41,113	568	568	38	3,773	42	37	57	5
	Gloucester County	107	96,612	1,335	1,335	89	8,866	98	87	134	12
	Hudson County	3	5,953	82	82	5	546	6	5	8	1

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	Hunterdon County	129	283,603	3,919	3,919	261	26,027	287	255	392	34
	Mercer County	40	36,171	500	500	33	3,319	37	33	50	4
	Middlesex County	59	53,654	742	742	49	4,924	54	48	74	6
	Monmouth County	89	80,213	1,109	1,109	74	7,361	81	72	111	10
	Morris County	137	301,440	4,166	4,166	278	27,663	305	271	417	36
	Ocean County	188	169,498	2,342	2,342	156	15,555	172	153	234	20
	Passaic County	51	112,833	1,559	1,559	104	10,355	114	102	156	14
	Salem County	78	70,660	977	977	65	6,485	72	64	98	9
	Somerset County	52	114,220	1,579	1,579	105	10,482	116	103	158	14
	Sussex County	312	686,461	9,487	9,487	632	62,997	695	618	949	83
	Union County	24	52,901	731	731	49	4,855	54	48	73	6
	Warren County	180	397,353	5,491	5,491	366	36,465	402	358	550	48
	Total New Jersey	2,154	3,161,762	43,696	43,696	2,911	290,158	3,202	2,846	4,373	381
New York	Albany County	265	1,832,260	25,322	25,322	1,687	168,148	1,856	1,649	2,534	221
	Allegany County	599	4,139,458	57,207	57,207	3,811	379,882	4,192	3,726	5,725	499
	Bronx County	24	23,000	318	318	21	2,111	23	21	32	3
	Broome County	486	3,359,192	46,424	46,424	3,093	308,276	3,402	3,023	4,646	405
	Cattaraugus County	847	5,855,596	80,924	80,924	5,391	537,374	5,930	5,270	8,099	706
	Cayuga County	420	2,904,268	40,137	40,137	2,674	266,527	2,941	2,614	4,017	350
	Chautauqua County	729	5,037,859	69,623	69,623	4,638	462,329	5,102	4,534	6,968	608
	Chemung County	287	1,986,010	27,447	27,447	1,828	182,258	2,011	1,787	2,747	239
	Chenango County	604	4,175,243	57,702	57,702	3,844	383,166	4,228	3,758	5,775	504
	Clinton County	422	2,920,728	40,364	40,364	2,689	268,038	2,958	2,629	4,040	352
	Columbia County	319	2,202,659	30,441	30,441	2,028	202,140	2,231	1,982	3,046	266
	Cortland County	326	2,256,031	31,178	31,178	2,077	207,038	2,285	2,030	3,120	272
	Delaware County	676	4,674,371	64,600	64,600	4,304	428,972	4,734	4,207	6,465	564
	Dutchess County	396	2,735,223	37,801	37,801	2,518	251,014	2,770	2,462	3,783	330
	Erie County	665	4,598,047	63,545	63,545	4,233	421,967	4,656	4,138	6,359	554
	Essex County	339	2,344,020	32,394	32,394	2,158	215,113	2,374	2,110	3,242	283
	Franklin County	480	3,317,115	45,843	45,843	3,054	304,415	3,359	2,985	4,588	400
	Fulton County	349	2,411,266	33,324	33,324	2,220	221,284	2,442	2,170	3,335	291

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	Genesee County	194	1,344,664	18,583	18,583	1,238	123,401	1,362	1,210	1,860	162
	Greene County	307	2,122,246	29,329	29,329	1,954	194,761	2,149	1,910	2,935	256
	Hamilton County	106	730,575	10,097	10,097	673	67,046	740	658	1,010	88
	Herkimer County	405	2,798,470	38,675	38,675	2,576	256,818	2,834	2,519	3,871	337
	Jefferson County	686	4,744,322	65,567	65,567	4,368	435,391	4,805	4,270	6,562	572
	Kings County	53	51,007	705	705	47	4,681	52	46	71	6
	Lewis County	716	4,952,694	68,446	68,446	4,560	454,513	5,016	4,457	6,850	597
	Livingston County	355	2,453,862	33,912	33,912	2,259	225,193	2,485	2,208	3,394	296
	Madison County	392	2,708,955	37,438	37,438	2,494	248,603	2,743	2,438	3,747	327
	Monroe County	442	3,058,791	42,272	42,272	2,816	280,708	3,098	2,753	4,231	369
	Montgomery County	212	1,465,661	20,255	20,255	1,349	134,505	1,484	1,319	2,027	177
	Nassau County	47	45,570	630	630	42	4,182	46	41	63	5
	New York County	39	37,311	516	516	34	3,424	38	34	52	4
	Niagara County	236	1,633,702	22,578	22,578	1,504	149,926	1,654	1,470	2,260	197
	Oneida County	746	5,158,415	71,289	71,289	4,749	473,393	5,224	4,643	7,135	622
	Onondaga County	497	3,435,775	47,482	47,482	3,163	315,304	3,479	3,092	4,752	414
	Ontario County	431	2,978,098	41,157	41,157	2,742	273,303	3,016	2,680	4,119	359
	Orange County	291	2,014,136	27,835	27,835	1,854	184,839	2,040	1,813	2,786	243
	Orleans County	205	1,419,982	19,624	19,624	1,307	130,313	1,438	1,278	1,964	171
	Oswego County	753	5,207,360	71,966	71,966	4,794	477,884	5,274	4,687	7,202	628
	Otsego County	639	4,417,812	61,054	61,054	4,067	405,427	4,474	3,976	6,110	533
	Putnam County	156	1,075,564	14,864	14,864	990	98,706	1,089	968	1,488	130
	Queens County	19	18,321	253	253	17	1,681	19	16	25	2
	Rensselaer County	603	4,167,204	57,591	57,591	3,837	382,428	4,220	3,750	5,764	503
	Richmond County	6	6,239	86	86	6	573	6	6	9	1
	Rockland County	33	229,749	3,175	3,175	212	21,084	233	207	318	28
	St. Lawrence County	1,052	7,276,773	100,565	100,565	6,699	667,796	7,369	6,549	10,064	878
	Saratoga County	768	5,313,572	73,434	73,434	4,892	487,632	5,381	4,782	7,349	641
	Schenectady County	129	891,839	12,325	12,325	821	81,845	903	803	1,233	108
	Schoharie County	362	2,505,860	34,631	34,631	2,307	229,965	2,538	2,255	3,466	302
	Schuyler County	211	1,456,681	20,131	20,131	1,341	133,681	1,475	1,311	2,015	176

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	Seneca County	110	762,370	10,536	10,536	702	69,963	772	686	1,054	92
	Steuben County	868	5,998,970	82,906	82,906	5,523	550,531	6,075	5,399	8,297	723
	Suffolk County	254	244,942	3,385	3,385	226	22,479	248	220	339	30
	Sullivan County	407	2,810,990	38,848	38,848	2,588	257,967	2,847	2,530	3,888	339
	Tioga County	419	2,899,452	40,070	40,070	2,669	266,086	2,936	2,610	4,010	350
	Tompkins County	518	3,584,581	49,539	49,539	3,300	328,960	3,630	3,226	4,958	432
	Ulster County	733	5,065,775	70,009	70,009	4,664	464,891	5,130	4,559	7,006	611
	Warren County	408	2,821,737	38,996	38,996	2,598	258,953	2,858	2,540	3,903	340
	Washington County	635	4,388,327	60,647	60,647	4,040	402,721	4,444	3,949	6,069	529
	Wayne County	535	3,699,931	51,133	51,133	3,406	339,546	3,747	3,330	5,117	446
	Westchester County	80	554,084	7,657	7,657	510	50,849	561	499	766	67
	Wyoming County	356	2,463,842	34,050	34,050	2,268	226,109	2,495	2,217	3,408	297
	Yates County	224	1,547,956	21,393	21,393	1,425	142,057	1,568	1,393	2,141	187
	Total New York	24,871	169,336,512	2,340,230	2,340,230	155,902	15,540,174	171,488	152,403	234,207	20,421
Pennsylvania	Adams County	568	1,355,685	18,736	18,736	1,248	124,413	1,373	1,220	1,875	163
	Allegheny County	221	526,821	7,281	7,281	485	48,347	534	474	729	64
	Armstrong County	131	311,793	4,309	4,309	287	28,614	316	281	431	38
	Beaver County	185	441,943	6,108	6,108	407	40,558	448	398	611	53
	Bedford County	647	1,544,765	21,349	21,349	1,422	141,765	1,564	1,390	2,137	186
	Berks County	578	565,436	7,814	7,814	521	51,891	573	509	782	68
	Blair County	264	630,478	8,713	8,713	580	57,860	638	567	872	76
	Bradford County	658	4,615,555	63,787	63,787	4,249	423,574	4,674	4,154	6,384	557
	Bucks County	403	394,476	5,452	5,452	363	36,201	399	355	546	48
	Butler County	320	762,764	10,541	10,541	702	70,000	772	686	1,055	92
	Cambria County	167	398,605	5,509	5,509	367	36,580	404	359	551	48
	Cameron County	45	313,164	4,328	4,328	288	28,739	317	282	433	38
	Carbon County	79	188,389	2,604	2,604	173	17,289	191	170	261	23
	Centre County	503	3,525,455	48,722	48,722	3,246	323,534	3,570	3,173	4,876	425
	Chester County	450	439,761	6,078	6,078	405	40,357	445	396	608	53
	Clarion County	160	1,123,909	15,532	15,532	1,035	103,142	1,138	1,012	1,554	136
	Clearfield County	156	1,094,116	15,121	15,121	1,007	100,408	1,108	985	1,513	132

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	Clinton County	205	1,438,194	19,876	19,876	1,324	131,984	1,456	1,294	1,989	173
	Columbia County	201	479,445	6,626	6,626	441	43,999	486	432	663	58
	Crawford County	851	5,966,827	82,462	82,462	5,493	547,581	6,043	5,370	8,253	720
	Cumberland County	488	1,165,329	16,105	16,105	1,073	106,943	1,180	1,049	1,612	141
	Dauphin County	244	238,175	3,292	3,292	219	21,858	241	214	329	29
	Delaware County	38	37,142	513	513	34	3,409	38	33	51	4
	Elk County	134	937,619	12,958	12,958	863	86,046	950	844	1,297	113
	Erie County	516	3,622,301	50,060	50,060	3,335	332,422	3,668	3,260	5,010	437
	Fayette County	286	682,017	9,425	9,425	628	62,589	691	614	943	82
	Forest County	78	548,986	7,587	7,587	505	50,381	556	494	759	66
	Franklin County	861	2,055,320	28,405	28,405	1,892	188,619	2,081	1,850	2,843	248
	Fulton County	332	793,272	10,963	10,963	730	72,799	803	714	1,097	96
	Greene County	148	353,413	4,884	4,884	325	32,433	358	318	489	43
	Huntingdon County	527	1,257,164	17,374	17,374	1,157	115,371	1,273	1,131	1,739	152
	Indiana County	267	637,626	8,812	8,812	587	58,516	646	574	882	77
	Jefferson County	165	394,079	5,446	5,446	363	36,165	399	355	545	48
	Juniata County	371	885,885	12,243	12,243	816	81,299	897	797	1,225	107
	Lackawanna County	139	976,627	13,497	13,497	899	89,626	989	879	1,351	118
	Lancaster County	1,051	1,027,910	14,206	14,206	946	94,332	1,041	925	1,422	124
	Lawrence County	160	381,779	5,276	5,276	351	35,036	387	344	528	46
	Lebanon County	222	216,769	2,996	2,996	200	19,893	220	195	300	26
	Lehigh County	301	718,282	9,927	9,927	661	65,917	727	646	993	87
	Luzerne County	259	1,813,264	25,059	25,059	1,669	166,405	1,836	1,632	2,508	219
	Lycoming County	605	1,444,598	19,964	19,964	1,330	132,572	1,463	1,300	1,998	174
	McKean County	237	1,664,881	23,009	23,009	1,533	152,788	1,686	1,498	2,303	201
	Mercer County	385	2,697,747	37,283	37,283	2,484	247,575	2,732	2,428	3,731	325
	Mifflin County	518	1,235,468	17,074	17,074	1,137	113,380	1,251	1,112	1,709	149
	Monroe County	589	4,133,903	57,131	57,131	3,806	379,372	4,186	3,721	5,718	499
	Montgomery County	305	298,371	4,123	4,123	275	27,382	302	269	413	36
	Montour County	69	163,483	2,259	2,259	151	15,003	166	147	226	20
	Northampton County	272	649,893	8,982	8,982	598	59,641	658	585	899	78

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	Northumberland County	160	381,449	5,272	5,272	351	35,006	386	343	528	46
	Perry County	456	1,089,160	15,052	15,052	1,003	99,953	1,103	980	1,506	131
	Philadelphia County	50	48,857	675	675	45	4,484	49	44	68	6
	Pike County	367	2,574,490	35,579	35,579	2,370	236,263	2,607	2,317	3,561	310
	Potter County	255	1,788,822	24,722	24,722	1,647	164,162	1,812	1,610	2,474	216
	Schuylkill County	126	300,447	4,152	4,152	277	27,572	304	270	416	36
	Snyder County	303	722,379	9,983	9,983	665	66,293	732	650	999	87
	Somerset County	300	715,215	9,884	9,884	658	65,636	724	644	989	86
	Sullivan County	105	739,879	10,225	10,225	681	67,899	749	666	1,023	89
	Susquehanna County	557	3,908,393	54,014	54,014	3,598	358,677	3,958	3,518	5,406	471
	Tioga County	509	3,570,839	49,349	49,349	3,288	327,699	3,616	3,214	4,939	431
	Union County	193	460,140	6,359	6,359	424	42,227	466	414	636	55
	Venango County	372	2,608,380	36,048	36,048	2,401	239,374	2,642	2,348	3,608	315
	Warren County	420	2,942,833	40,670	40,670	2,709	270,067	2,980	2,649	4,070	355
	Washington County	335	798,930	11,041	11,041	736	73,319	809	719	1,105	96
	Wayne County	447	3,137,951	43,366	43,366	2,889	287,973	3,178	2,824	4,340	378
	Westmoreland County	455	1,084,953	14,994	14,994	999	99,567	1,099	976	1,501	131
	Wyoming County	226	1,584,405	21,896	21,896	1,459	145,402	1,605	1,426	2,191	191
	York County	1,012	2,415,575	33,383	33,383	2,224	221,680	2,446	2,174	3,341	291
	Total Pennsylvania	23,009	88,021,982	1,216,463	1,216,463	81,039	8,077,862	89,140	79,220	121,742	10,615
Rhode Island	Bristol County	29	71,770	992	992	66	6,586	73	65	99	9
	Kent County	178	436,133	6,027	6,027	402	40,024	442	393	603	53
	Newport County	95	231,808	3,204	3,204	213	21,273	235	209	321	28
	Providence County	350	854,940	11,815	11,815	787	78,459	866	769	1,182	103
	Washington County	454	1,109,359	15,331	15,331	1,021	101,807	1,123	998	1,534	134
	Total Rhode Island	1,106	2,704,011	37,369	37,369	2,489	248,150	2,738	2,434	3,740	326
District of Columbia	District of Columbia	26	23,990	332	332	22	2,202	24	22	33	3
	Total D.C.	26	23,990	332	332	22	2,202	24	22	33	3
Vermont	Addison County	487	3,272,943	45,232	45,232	3,013	300,361	3,315	2,946	4,527	395
	Bennington County	289	1,943,175	26,855	26,855	1,789	178,327	1,968	1,749	2,688	234
	Caledonia County	506	3,401,863	47,014	47,014	3,132	312,192	3,445	3,062	4,705	410

State	County	Total centralized cordwood heating systems	Total dry mass of cordwood burned by centralized cordwood heating systems (kg/yr)	PM _{2.5} (kg/yr)	PM ₁₀ (kg/yr)	NO _x (kg/yr) as NO ₂	CO (kg/yr)	SO ₂ (kg/yr)	NH ₃ (kg/yr)	Benzene (kg/yr)	Phenol (kg/yr)
	Chittenden County	557	3,748,339	51,802	51,802	3,451	343,989	3,796	3,374	5,184	452
	Essex County	118	794,191	10,976	10,976	731	72,884	804	715	1,098	96
	Franklin County	476	3,202,800	44,263	44,263	2,949	293,924	3,243	2,883	4,430	386
	Grand Isle County	62	417,012	5,763	5,763	384	38,270	422	375	577	50
	Lamoille County	361	2,429,825	33,580	33,580	2,237	222,987	2,461	2,187	3,361	293
	Orange County	639	4,297,112	59,386	59,386	3,956	394,350	4,352	3,867	5,943	518
	Orleans County	581	3,903,340	53,944	53,944	3,594	358,213	3,953	3,513	5,399	471
	Rutland County	553	3,719,610	51,405	51,405	3,425	341,352	3,767	3,348	5,145	449
	Washington County	693	4,660,171	64,404	64,404	4,290	427,668	4,719	4,194	6,445	562
	Windham County	802	5,395,505	74,566	74,566	4,967	495,151	5,464	4,856	7,462	651
	Windsor County	747	5,024,522	69,439	69,439	4,626	461,105	5,088	4,522	6,949	606
	Total Vermont	6,872	46,210,408	638,628	638,628	42,544	4,240,774	46,797	41,589	63,913	5,573
	Total MANE-VU	90,797	470,723,145	6,505,392	6,505,392	433,378	43,198,715	476,703	423,651	651,049	56,766

HDD Range	HDD	Total centralized cordwood heating systems	Total dry mass of cordwood burned by centralized cordwood heating systems (kg/yr)	PM _{2.5} (kg/yr)	PM ₁₀ (kg/yr)	NO _x (kg/yr) as NO ₂	CO (kg/yr)	SO ₂ (kg/yr)	NH ₃ (kg/yr)	Benzene (kg/yr)	Phenol (kg/yr)
> 6500	High	62,226	417,943,456	5,775,977	5,775,977	384,786	38,355,073	423,253	376,149	578,051	50,401
5500-6499	Med.	18,134	43,042,117	594,842	594,842	39,627	3,950,016	43,589	38,738	59,531	5,191
< 5499	Low	10,437	9,737,572	134,573	134,573	8,965	893,626	9,861	8,764	13,468	1,174

Section 3.4

Table 3.4

Emission Inventory for Centralized Cordwood Heating Systems (2002 Base Year)

Section 2

State	County	Total centralized cordwood heating systems	Total dry mass of cordwood burned by centralized cordwood heating systems (kg/yr)	7-PAH (kg/yr)	16-PAH (kg/yr)	Benzo(a)pyrene (g/yr)	Naphthalene (kg/yr)	1,3-Butadiene (kg/yr)	Formaldehyde (kg/yr)	Acetaldehyde (kg/yr)	Acrolein (kg/yr)
Connecticut	Fairfield County	251	613,176	11.03	158	838	46	8.90	215	209	13
	Hartford County	429	1,049,256	18.87	270	1,434	78	15.23	367	358	23
	Litchfield County	639	4,593,151	82.62	1,183	6,277	341	66.67	1,608	1,566	101
	Middlesex County	341	833,623	14.99	215	1,139	62	12.10	292	284	18
	New Haven County	463	1,131,901	20.36	292	1,547	84	16.43	396	386	25
	New London County	536	1,310,504	23.57	338	1,791	97	19.02	459	447	29
	Tolland County	429	3,078,509	55.37	793	4,207	229	44.69	1,077	1,050	67
	Windham County	550	3,952,462	71.09	1,018	5,402	294	57.37	1,383	1,348	87
	Total Connecticut		3,639	16,562,582	297.90	4,265	22,636	1,231	240.42	5,797	5,648
Delaware	Kent County	243	219,891	3.96	57	301	16	3.19	77	75	5
	New Castle County	101	91,170	1.64	23	125	7	1.32	32	31	2
	Sussex County	313	283,447	5.10	73	387	21	4.11	99	97	6
	Total Delaware		656	594,508	10.69	153	812	44	8.63	208	203
Maine	Androscoggin County	505	3,022,945	54.37	779	4,131	225	43.88	1,058	1,031	66
	Aroostook County	827	4,954,550	89.12	1,276	6,771	368	71.92	1,734	1,690	108
	Cumberland County	769	4,606,416	82.85	1,186	6,295	342	66.87	1,612	1,571	101
	Franklin County	543	3,249,362	58.45	837	4,441	241	47.17	1,137	1,108	71
	Hancock County	622	3,726,994	67.04	960	5,094	277	54.10	1,304	1,271	82
	Kennebec County	925	5,537,623	99.60	1,426	7,568	412	80.38	1,938	1,888	121
	Knox County	365	2,187,947	39.35	563	2,990	163	31.76	766	746	48
	Lincoln County	373	2,231,062	40.13	575	3,049	166	32.39	781	761	49
	Oxford County	840	5,028,589	90.45	1,295	6,872	374	73.00	1,760	1,715	110
	Penobscot County	1,037	6,210,608	111.71	1,599	8,488	462	90.15	2,174	2,118	136
	Piscataquis County	344	2,057,853	37.01	530	2,812	153	29.87	720	702	45
	Sagadahoc County	284	1,700,092	30.58	438	2,323	126	24.68	595	580	37
	Somerset County	765	4,579,802	82.38	1,179	6,259	340	66.48	1,603	1,562	100
Waldo County	667	3,991,189	71.79	1,028	5,455	297	57.94	1,397	1,361	87	
Washington County	394	2,357,039	42.40	607	3,221	175	34.21	825	804	52	

State	County	Total centralized cordwood heating systems	Total dry mass of cordwood burned by centralized cordwood heating systems (kg/yr)	7-PAH (kg/yr)	16-PAH (kg/yr)	Benzo(a)pyrene (g/yr)	Naphthalene (kg/yr)	1,3-Butadiene (kg/yr)	Formaldehyde (kg/yr)	Acetaldehyde (kg/yr)	Acrolein (kg/yr)
	York County	907	5,428,872	97.65	1,398	7,419	403	78.81	1,900	1,851	119
	Total Maine	10,167	60,870,943	1,094.86	15,676	83,190	4,524	883.60	21,305	20,757	1,333
Maryland	Allegany County	361	802,171	14.43	207	1,096	60	11.64	281	274	18
	Anne Arundel County	327	297,379	5.35	77	406	22	4.32	104	101	7
	Baltimore County	329	299,148	5.38	77	409	22	4.34	105	102	7
	Calvert County	220	200,606	3.61	52	274	15	2.91	70	68	4
	Caroline County	168	153,100	2.75	39	209	11	2.22	54	52	3
	Carroll County	621	565,142	10.16	146	772	42	8.20	198	193	12
	Cecil County	226	205,862	3.70	53	281	15	2.99	72	70	5
	Charles County	275	250,378	4.50	64	342	19	3.63	88	85	5
	Dorchester County	50	45,610	0.82	12	62	3	0.66	16	16	1
	Frederick County	642	584,263	10.51	150	798	43	8.48	204	199	13
	Garrett County	468	3,059,108	55.02	788	4,181	227	44.41	1,071	1,043	67
	Harford County	357	324,665	5.84	84	444	24	4.71	114	111	7
	Howard County	118	107,677	1.94	28	147	8	1.56	38	37	2
	Kent County	73	66,876	1.20	17	91	5	0.97	23	23	1
	Montgomery County	118	107,087	1.93	28	146	8	1.55	37	37	2
	Prince George's County	160	145,236	2.61	37	198	11	2.11	51	50	3
	Queen Anne's County	169	154,145	2.77	40	211	11	2.24	54	53	3
	St. Mary's County	350	318,273	5.72	82	435	24	4.62	111	109	7
	Somerset County	85	77,559	1.40	20	106	6	1.13	27	26	2
	Talbot County	106	96,872	1.74	25	132	7	1.41	34	33	2
	Washington County	543	1,206,381	21.70	311	1,649	90	17.51	422	411	26
	Wicomico County	195	177,077	3.19	46	242	13	2.57	62	60	4
	Worcester County	127	115,811	2.08	30	158	9	1.68	41	39	3
	Baltimore city	37	33,349	0.60	9	46	2	0.48	12	11	1
	Total Maryland	6,125	9,393,776	168.96	2,419	12,838	698	136.36	3,288	3,203	206
Massachusetts	Barnstable County	278	648,261	11.66	167	886	48	9.41	227	221	14
	Berkshire County	549	3,765,758	67.73	970	5,147	280	54.66	1,318	1,284	82
	Bristol County	351	819,709	14.74	211	1,120	61	11.90	287	280	18
	Dukes County	104	242,718	4.37	63	332	18	3.52	85	83	5

State	County	Total centralized cordwood heating systems	Total dry mass of cordwood burned by centralized cordwood heating systems (kg/yr)	7-PAH (kg/yr)	16-PAH (kg/yr)	Benzo(a)pyrene (g/yr)	Naphthalene (kg/yr)	1,3-Butadiene (kg/yr)	Formaldehyde (kg/yr)	Acetaldehyde (kg/yr)	Acrolein (kg/yr)
	Essex County	395	922,412	16.59	238	1,261	69	13.39	323	315	20
	Franklin County	727	4,991,252	89.78	1,285	6,821	371	72.45	1,747	1,702	109
	Hampden County	552	3,788,613	68.14	976	5,178	282	55.00	1,326	1,292	83
	Hampshire County	656	4,502,135	80.98	1,159	6,153	335	65.35	1,576	1,535	99
	Middlesex County	384	2,632,338	47.35	678	3,598	196	38.21	921	898	58
	Nantucket County	35	82,100	1.48	21	112	6	1.19	29	28	2
	Norfolk County	141	329,381	5.92	85	450	24	4.78	115	112	7
	Plymouth County	363	846,056	15.22	218	1,156	63	12.28	296	289	19
	Suffolk County	5	11,823	0.21	3	16	1	0.17	4	4	0
	Worcester County	1,384	9,496,052	170.80	2,446	12,978	706	137.84	3,324	3,238	208
	Total Massachusetts	5,925	33,078,605	594.97	8,519	45,207	2,458	480.17	11,578	11,280	724
New Hampshire	Belknap County	339	2,213,333	39.81	570	3,025	164	32.13	775	755	48
	Carroll County	548	3,577,682	64.35	921	4,889	266	51.93	1,252	1,220	78
	Cheshire County	785	5,122,593	92.14	1,319	7,001	381	74.36	1,793	1,747	112
	Coos County	276	1,799,277	32.36	463	2,459	134	26.12	630	614	39
	Grafton County	898	5,859,458	105.39	1,509	8,008	435	85.06	2,051	1,998	128
	Hillsborough County	979	6,386,628	114.87	1,645	8,728	475	92.71	2,235	2,178	140
	Merrimack County	789	5,146,123	92.56	1,325	7,033	382	74.70	1,801	1,755	113
	Rockingham County	819	5,342,597	96.10	1,376	7,302	397	77.55	1,870	1,822	117
	Strafford County	362	2,360,717	42.46	608	3,226	175	34.27	826	805	52
	Sullivan County	453	2,955,659	53.16	761	4,039	220	42.90	1,034	1,008	65
	Total New Hampshire	6,247	40,764,066	733.21	10,498	55,711	3,029	591.73	14,267	13,901	893
New Jersey	Atlantic County	191	172,111	3.10	44	235	13	2.50	60	59	4
	Bergen County	30	66,212	1.19	17	90	5	0.96	23	23	1
	Burlington County	176	158,771	2.86	41	217	12	2.30	56	54	3
	Camden County	54	48,501	0.87	12	66	4	0.70	17	17	1
	Cape May County	135	122,040	2.20	31	167	9	1.77	43	42	3
	Cumberland County	101	91,442	1.64	24	125	7	1.33	32	31	2
	Essex County	19	41,113	0.74	11	56	3	0.60	14	14	1
	Gloucester County	107	96,612	1.74	25	132	7	1.40	34	33	2
	Hudson County	3	5,953	0.11	2	8	0	0.09	2	2	0

State	County	Total centralized cordwood heating systems	Total dry mass of cordwood burned by centralized cordwood heating systems (kg/yr)	7-PAH (kg/yr)	16-PAH (kg/yr)	Benzo(a)pyrene (g/yr)	Naphthalene (kg/yr)	1,3-Butadiene (kg/yr)	Formaldehyde (kg/yr)	Acetaldehyde (kg/yr)	Acrolein (kg/yr)
	Hunterdon County	129	283,603	5.10	73	388	21	4.12	99	97	6
	Mercer County	40	36,171	0.65	9	49	3	0.53	13	12	1
	Middlesex County	59	53,654	0.97	14	73	4	0.78	19	18	1
	Monmouth County	89	80,213	1.44	21	110	6	1.16	28	27	2
	Morris County	137	301,440	5.42	78	412	22	4.38	106	103	7
	Ocean County	188	169,498	3.05	44	232	13	2.46	59	58	4
	Passaic County	51	112,833	2.03	29	154	8	1.64	39	38	2
	Salem County	78	70,660	1.27	18	97	5	1.03	25	24	2
	Somerset County	52	114,220	2.05	29	156	8	1.66	40	39	3
	Sussex County	312	686,461	12.35	177	938	51	9.96	240	234	15
	Union County	24	52,901	0.95	14	72	4	0.77	19	18	1
	Warren County	180	397,353	7.15	102	543	30	5.77	139	135	9
	Total New Jersey	2,154	3,161,762	56.87	814	4,321	235	45.90	1,107	1,078	69
New York	Albany County	265	1,832,260	32.96	472	2,504	136	26.60	641	625	40
	Allegany County	599	4,139,458	74.45	1,066	5,657	308	60.09	1,449	1,412	91
	Bronx County	24	23,000	0.41	6	31	2	0.33	8	8	1
	Broome County	486	3,359,192	60.42	865	4,591	250	48.76	1,176	1,145	74
	Cattaraugus County	847	5,855,596	105.32	1,508	8,003	435	85.00	2,049	1,997	128
	Cayuga County	420	2,904,268	52.24	748	3,969	216	42.16	1,016	990	64
	Chautauqua County	729	5,037,859	90.61	1,297	6,885	374	73.13	1,763	1,718	110
	Chemung County	287	1,986,010	35.72	511	2,714	148	28.83	695	677	43
	Chenango County	604	4,175,243	75.10	1,075	5,706	310	60.61	1,461	1,424	91
	Clinton County	422	2,920,728	52.53	752	3,992	217	42.40	1,022	996	64
	Columbia County	319	2,202,659	39.62	567	3,010	164	31.97	771	751	48
	Cortland County	326	2,256,031	40.58	581	3,083	168	32.75	790	769	49
	Delaware County	676	4,674,371	84.08	1,204	6,388	347	67.85	1,636	1,594	102
	Dutchess County	396	2,735,223	49.20	704	3,738	203	39.70	957	933	60
	Erie County	665	4,598,047	82.70	1,184	6,284	342	66.75	1,609	1,568	101
	Essex County	339	2,344,020	42.16	604	3,203	174	34.03	820	799	51
	Franklin County	480	3,317,115	59.66	854	4,533	247	48.15	1,161	1,131	73
	Fulton County	349	2,411,266	43.37	621	3,295	179	35.00	844	822	53

State	County	Total centralized cordwood heating systems	Total dry mass of cordwood burned by centralized cordwood heating systems (kg/yr)	7-PAH (kg/yr)	16-PAH (kg/yr)	Benzo(a)pyrene (g/yr)	Naphthalene (kg/yr)	1,3-Butadiene (kg/yr)	Formaldehyde (kg/yr)	Acetaldehyde (kg/yr)	Acrolein (kg/yr)
	Genesee County	194	1,344,664	24.19	346	1,838	100	19.52	471	459	29
	Greene County	307	2,122,246	38.17	547	2,900	158	30.81	743	724	46
	Hamilton County	106	730,575	13.14	188	998	54	10.61	256	249	16
	Herkimer County	405	2,798,470	50.34	721	3,825	208	40.62	979	954	61
	Jefferson County	686	4,744,322	85.33	1,222	6,484	353	68.87	1,661	1,618	104
	Kings County	53	51,007	0.92	13	70	4	0.74	18	17	1
	Lewis County	716	4,952,694	89.08	1,275	6,769	368	71.89	1,733	1,689	108
	Livingston County	355	2,453,862	44.14	632	3,354	182	35.62	859	837	54
	Madison County	392	2,708,955	48.72	698	3,702	201	39.32	948	924	59
	Monroe County	442	3,058,791	55.02	788	4,180	227	44.40	1,071	1,043	67
	Montgomery County	212	1,465,661	26.36	377	2,003	109	21.28	513	500	32
	Nassau County	47	45,570	0.82	12	62	3	0.66	16	16	1
	New York County	39	37,311	0.67	10	51	3	0.54	13	13	1
	Niagara County	236	1,633,702	29.38	421	2,233	121	23.71	572	557	36
	Oneida County	746	5,158,415	92.78	1,328	7,050	383	74.88	1,805	1,759	113
	Onondaga County	497	3,435,775	61.80	885	4,696	255	49.87	1,203	1,172	75
	Ontario County	431	2,978,098	53.57	767	4,070	221	43.23	1,042	1,016	65
	Orange County	291	2,014,136	36.23	519	2,753	150	29.24	705	687	44
	Orleans County	205	1,419,982	25.54	366	1,941	106	20.61	497	484	31
	Oswego County	753	5,207,360	93.66	1,341	7,117	387	75.59	1,823	1,776	114
	Otsego County	639	4,417,812	79.46	1,138	6,038	328	64.13	1,546	1,506	97
	Putnam County	156	1,075,564	19.35	277	1,470	80	15.61	376	367	24
	Queens County	19	18,321	0.33	5	25	1	0.27	6	6	0
	Rensselaer County	603	4,167,204	74.95	1,073	5,695	310	60.49	1,459	1,421	91
	Richmond County	6	6,239	0.11	2	9	0	0.09	2	2	0
	Rockland County	33	229,749	4.13	59	314	17	3.34	80	78	5
	St. Lawrence County	1,052	7,276,773	130.88	1,874	9,945	541	105.63	2,547	2,481	159
	Saratoga County	768	5,313,572	95.57	1,368	7,262	395	77.13	1,860	1,812	116
	Schenectady County	129	891,839	16.04	230	1,219	66	12.95	312	304	20
	Schoharie County	362	2,505,860	45.07	645	3,425	186	36.38	877	854	55
	Schuyler County	211	1,456,681	26.20	375	1,991	108	21.15	510	497	32

State	County	Total centralized cordwood heating systems	Total dry mass of cordwood burned by centralized cordwood heating systems (kg/yr)	7-PAH (kg/yr)	16-PAH (kg/yr)	Benzo(a)pyrene (g/yr)	Naphthalene (kg/yr)	1,3-Butadiene (kg/yr)	Formaldehyde (kg/yr)	Acetaldehyde (kg/yr)	Acrolein (kg/yr)
	Seneca County	110	762,370	13.71	196	1,042	57	11.07	267	260	17
	Steuben County	868	5,998,970	107.90	1,545	8,199	446	87.08	2,100	2,046	131
	Suffolk County	254	244,942	4.41	63	335	18	3.56	86	84	5
	Sullivan County	407	2,810,990	50.56	724	3,842	209	40.80	984	959	62
	Tioga County	419	2,899,452	52.15	747	3,963	215	42.09	1,015	989	63
	Tompkins County	518	3,584,581	64.47	923	4,899	266	52.03	1,255	1,222	78
	Ulster County	733	5,065,775	91.12	1,305	6,923	376	73.53	1,773	1,727	111
	Warren County	408	2,821,737	50.75	727	3,856	210	40.96	988	962	62
	Washington County	635	4,388,327	78.93	1,130	5,997	326	63.70	1,536	1,496	96
	Wayne County	535	3,699,931	66.55	953	5,057	275	53.71	1,295	1,262	81
	Westchester County	80	554,084	9.97	143	757	41	8.04	194	189	12
	Wyoming County	356	2,463,842	44.32	635	3,367	183	35.77	862	840	54
	Yates County	224	1,547,956	27.84	399	2,116	115	22.47	542	528	34
	Total New York	24,871	169,336,512	3,045.79	43,610	231,427	12,585	2,458.09	59,268	57,744	3,708
Pennsylvania	Adams County	568	1,355,685	24.38	349	1,853	101	19.68	474	462	30
	Allegheny County	221	526,821	9.48	136	720	39	7.65	184	180	12
	Armstrong County	131	311,793	5.61	80	426	23	4.53	109	106	7
	Beaver County	185	441,943	7.95	114	604	33	6.42	155	151	10
	Bedford County	647	1,544,765	27.79	398	2,111	115	22.42	541	527	34
	Berks County	578	565,436	10.17	146	773	42	8.21	198	193	12
	Blair County	264	630,478	11.34	162	862	47	9.15	221	215	14
	Bradford County	658	4,615,555	83.02	1,189	6,308	343	67.00	1,615	1,574	101
	Bucks County	403	394,476	7.10	102	539	29	5.73	138	135	9
	Butler County	320	762,764	13.72	196	1,042	57	11.07	267	260	17
	Cambria County	167	398,605	7.17	103	545	30	5.79	140	136	9
	Cameron County	45	313,164	5.63	81	428	23	4.55	110	107	7
	Carbon County	79	188,389	3.39	49	257	14	2.73	66	64	4
	Centre County	503	3,525,455	63.41	908	4,818	262	51.18	1,234	1,202	77
	Chester County	450	439,761	7.91	113	601	33	6.38	154	150	10
	Clarion County	160	1,123,909	20.22	289	1,536	84	16.31	393	383	25
	Clearfield County	156	1,094,116	19.68	282	1,495	81	15.88	383	373	24

State	County	Total centralized cordwood heating systems	Total dry mass of cordwood burned by centralized cordwood heating systems (kg/yr)	7-PAH (kg/yr)	16-PAH (kg/yr)	Benzo(a)pyrene (g/yr)	Naphthalene (kg/yr)	1,3-Butadiene (kg/yr)	Formaldehyde (kg/yr)	Acetaldehyde (kg/yr)	Acrolein (kg/yr)
	Clinton County	205	1,438,194	25.87	370	1,966	107	20.88	503	490	31
	Columbia County	201	479,445	8.62	123	655	36	6.96	168	163	10
	Crawford County	851	5,966,827	107.32	1,537	8,155	443	86.61	2,088	2,035	131
	Cumberland County	488	1,165,329	20.96	300	1,593	87	16.92	408	397	26
	Dauphin County	244	238,175	4.28	61	326	18	3.46	83	81	5
	Delaware County	38	37,142	0.67	10	51	3	0.54	13	13	1
	Elk County	134	937,619	16.86	241	1,281	70	13.61	328	320	21
	Erie County	516	3,622,301	65.15	933	4,950	269	52.58	1,268	1,235	79
	Fayette County	286	682,017	12.27	176	932	51	9.90	239	233	15
	Forest County	78	548,986	9.87	141	750	41	7.97	192	187	12
	Franklin County	861	2,055,320	36.97	529	2,809	153	29.84	719	701	45
	Fulton County	332	793,272	14.27	204	1,084	59	11.52	278	271	17
	Greene County	148	353,413	6.36	91	483	26	5.13	124	121	8
	Huntingdon County	527	1,257,164	22.61	324	1,718	93	18.25	440	429	28
	Indiana County	267	637,626	11.47	164	871	47	9.26	223	217	14
	Jefferson County	165	394,079	7.09	101	539	29	5.72	138	134	9
	Juniata County	371	885,885	15.93	228	1,211	66	12.86	310	302	19
	Lackawanna County	139	976,627	17.57	252	1,335	73	14.18	342	333	21
	Lancaster County	1,051	1,027,910	18.49	265	1,405	76	14.92	360	351	23
	Lawrence County	160	381,779	6.87	98	522	28	5.54	134	130	8
	Lebanon County	222	216,769	3.90	56	296	16	3.15	76	74	5
	Lehigh County	301	718,282	12.92	185	982	53	10.43	251	245	16
	Luzerne County	259	1,813,264	32.61	467	2,478	135	26.32	635	618	40
	Lycoming County	605	1,444,598	25.98	372	1,974	107	20.97	506	493	32
	McKean County	237	1,664,881	29.95	429	2,275	124	24.17	583	568	36
	Mercer County	385	2,697,747	48.52	695	3,687	200	39.16	944	920	59
	Mifflin County	518	1,235,468	22.22	318	1,688	92	17.93	432	421	27
	Monroe County	589	4,133,903	74.35	1,065	5,650	307	60.01	1,447	1,410	91
	Montgomery County	305	298,371	5.37	77	408	22	4.33	104	102	7
	Montour County	69	163,483	2.94	42	223	12	2.37	57	56	4
	Northampton County	272	649,893	11.69	167	888	48	9.43	227	222	14

State	County	Total centralized cordwood heating systems	Total dry mass of cordwood burned by centralized cordwood heating systems (kg/yr)	7-PAH (kg/yr)	16-PAH (kg/yr)	Benzo(a)pyrene (g/yr)	Naphthalene (kg/yr)	1,3-Butadiene (kg/yr)	Formaldehyde (kg/yr)	Acetaldehyde (kg/yr)	Acrolein (kg/yr)
	Northumberland County	160	381,449	6.86	98	521	28	5.54	134	130	8
	Perry County	456	1,089,160	19.59	280	1,489	81	15.81	381	371	24
	Philadelphia County	50	48,857	0.88	13	67	4	0.71	17	17	1
	Pike County	367	2,574,490	46.31	663	3,518	191	37.37	901	878	56
	Potter County	255	1,788,822	32.17	461	2,445	133	25.97	626	610	39
	Schuylkill County	126	300,447	5.40	77	411	22	4.36	105	102	7
	Snyder County	303	722,379	12.99	186	987	54	10.49	253	246	16
	Somerset County	300	715,215	12.86	184	977	53	10.38	250	244	16
	Sullivan County	105	739,879	13.31	191	1,011	55	10.74	259	252	16
	Susquehanna County	557	3,908,393	70.30	1,007	5,341	290	56.73	1,368	1,333	86
	Tioga County	509	3,570,839	64.23	920	4,880	265	51.83	1,250	1,218	78
	Union County	193	460,140	8.28	119	629	34	6.68	161	157	10
	Venango County	372	2,608,380	46.92	672	3,565	194	37.86	913	889	57
	Warren County	420	2,942,833	52.93	758	4,022	219	42.72	1,030	1,004	64
	Washington County	335	798,930	14.37	206	1,092	59	11.60	280	272	17
	Wayne County	447	3,137,951	56.44	808	4,289	233	45.55	1,098	1,070	69
	Westmoreland County	455	1,084,953	19.51	279	1,483	81	15.75	380	370	24
	Wyoming County	226	1,584,405	28.50	408	2,165	118	23.00	555	540	35
	York County	1,012	2,415,575	43.45	622	3,301	180	35.06	845	824	53
	Total Pennsylvania	23,009	88,021,982	1,583.22	22,669	120,297	6,542	1,277.73	30,808	30,015	1,927
Rhode Island	Bristol County	29	71,770	1.29	18	98	5	1.04	25	24	2
	Kent County	178	436,133	7.84	112	596	32	6.33	153	149	10
	Newport County	95	231,808	4.17	60	317	17	3.36	81	79	5
	Providence County	350	854,940	15.38	220	1,168	64	12.41	299	292	19
	Washington County	454	1,109,359	19.95	286	1,516	82	16.10	388	378	24
	Total Rhode Island	1,106	2,704,011	48.64	696	3,695	201	39.25	946	922	59
District of Columbia	District of Columbia	26	23,990	0.43	6	33	2	0.35	8	8	0.53
	Total D.C.	26	23,990	0.43	6	33	2	0.35	8	8	0.53
Vermont	Addison County	487	3,272,943	58.87	843	4,473	243	47.51	1,146	1,116	72
	Bennington County	289	1,943,175	34.95	500	2,656	144	28.21	680	663	43
	Caledonia County	506	3,401,863	61.19	876	4,649	253	49.38	1,191	1,160	74

State	County	Total centralized cordwood heating systems	Total dry mass of cordwood burned by centralized cordwood heating systems (kg/yr)	7-PAH (kg/yr)	16-PAH (kg/yr)	Benzo(a)pyrene (g/yr)	Naphthalene (kg/yr)	1,3-Butadiene (kg/yr)	Formaldehyde (kg/yr)	Acetaldehyde (kg/yr)	Acrolein (kg/yr)
	Chittenden County	557	3,748,339	67.42	965	5,123	279	54.41	1,312	1,278	82
	Essex County	118	794,191	14.28	205	1,085	59	11.53	278	271	17
	Franklin County	476	3,202,800	57.61	825	4,377	238	46.49	1,121	1,092	70
	Grand Isle County	62	417,012	7.50	107	570	31	6.05	146	142	9
	Lamoille County	361	2,429,825	43.70	626	3,321	181	35.27	850	829	53
	Orange County	639	4,297,112	77.29	1,107	5,873	319	62.38	1,504	1,465	94
	Orleans County	581	3,903,340	70.21	1,005	5,335	290	56.66	1,366	1,331	85
	Rutland County	553	3,719,610	66.90	958	5,083	276	53.99	1,302	1,268	81
	Washington County	693	4,660,171	83.82	1,200	6,369	346	67.65	1,631	1,589	102
	Windham County	802	5,395,505	97.05	1,390	7,374	401	78.32	1,888	1,840	118
	Windsor County	747	5,024,522	90.37	1,294	6,867	373	72.94	1,759	1,713	110
	Total Vermont	6,872	46,210,408	831.17	11,901	63,154	3,434	670.79	16,174	15,758	1,012
	Total MANE-VU	90,797	470,723,145	8,467	121,228	643,322	34,983	6,833	164,753	160,517	10,307

HDD Range	HDD	Total centralized cordwood heating systems	Total dry mass of cordwood burned by centralized cordwood heating systems (kg/yr)	7-PAH (kg/yr)	16-PAH (kg/yr)	Benzo(a)pyrene (g/yr)	Naphthalene (kg/yr)	1,3-Butadiene (kg/yr)	Formaldehyde (kg/yr)	Acetaldehyde (kg/yr)	Acrolein (kg/yr)
> 6500	High	62,226	327,052,407	7,517	107,635	571,189	31,061	6,067	146,280	142,519	9,151
5500-6499	Med.	18,134	24,696,296	774	11,085	58,824	3,199	625	15,065	14,677	942
< 5499	Low	10,437	3,895,029	175	2,508	13,308	724	141	3,408	3,321	213

Section 3.4

Table 3.4

Emission Inventory for Centralized Cordwood Heating Systems (2002 Base Year)

Section 3

State	County	Total centralized cordwood heating systems	Total dry mass of cordwood burned by centralized cordwood heating systems (kg/yr)	Cresols (kg/yr)	PCB _{TEQ} (ng/yr)	Dioxin _{TEQ} (ug/yr)	Methane (kg/yr)	VOC (kg/yr)
Connecticut	Fairfield County	251	613,176	40	337	2,552	8,003	3,588
	Hartford County	429	1,049,256	69	577	4,368	13,694	6,140
	Litchfield County	639	4,593,151	301	2,526	19,119	59,948	26,878
	Middlesex County	341	833,623	55	458	3,470	10,880	4,878
	New Haven County	463	1,131,901	74	623	4,712	14,773	6,624
	New London County	536	1,310,504	86	721	5,455	17,104	7,669
	Tolland County	429	3,078,509	202	1,693	12,814	40,179	18,015
	Windham County	550	3,952,462	259	2,174	16,452	51,586	23,129
	Total Connecticut		3,639	16,562,582	1,086	9,109	68,942	216,167
Delaware	Kent County	243	219,891	14	121	915	2,870	1,287
	New Castle County	101	91,170	6	50	379	1,190	534
	Sussex County	313	283,447	19	156	1,180	3,699	1,659
Total Delaware		656	594,508	39	327	2,475	7,759	3,479
Maine	Androscoggin County	505	3,022,945	198	1,663	12,583	39,454	17,690
	Aroostook County	827	4,954,550	325	2,725	20,623	64,664	28,993
	Cumberland County	769	4,606,416	302	2,534	19,174	60,121	26,956
	Franklin County	543	3,249,362	213	1,787	13,525	42,409	19,015
	Hancock County	622	3,726,994	244	2,050	15,514	48,643	21,810
	Kennebec County	925	5,537,623	363	3,046	23,050	72,274	32,405
	Knox County	365	2,187,947	143	1,203	9,107	28,556	12,803
	Lincoln County	373	2,231,062	146	1,227	9,287	29,119	13,056
	Oxford County	840	5,028,589	330	2,766	20,932	65,631	29,426
	Penobscot County	1,037	6,210,608	407	3,416	25,852	81,058	36,343
	Piscataquis County	344	2,057,853	135	1,132	8,566	26,858	12,042
	Sagadahoc County	284	1,700,092	111	935	7,077	22,189	9,949
	Somerset County	765	4,579,802	300	2,519	19,063	59,773	26,800
	Waldo County	667	3,991,189	262	2,195	16,613	52,091	23,356
Washington County	394	2,357,039	155	1,296	9,811	30,763	13,793	

State	County	Total centralized cordwood heating systems	Total dry mass of cordwood burned by centralized cordwood heating systems (kg/yr)	Cresols (kg/yr)	PCB _{TED} (ng/yr)	Dioxin _{TED} (ug/yr)	Methane (kg/yr)	VOC (kg/yr)
	York County	907	5,428,872	356	2,986	22,598	70,855	31,769
	Total Maine	10,167	60,870,943	3,991	33,479	253,375	794,458	356,204
Maryland	Allegany County	361	802,171	53	441	3,339	10,470	4,694
	Anne Arundel County	327	297,379	19	164	1,238	3,881	1,740
	Baltimore County	329	299,148	20	165	1,245	3,904	1,751
	Calvert County	220	200,606	13	110	835	2,618	1,174
	Caroline County	168	153,100	10	84	637	1,998	896
	Carroll County	621	565,142	37	311	2,352	7,376	3,307
	Cecil County	226	205,862	13	113	857	2,687	1,205
	Charles County	275	250,378	16	138	1,042	3,268	1,465
	Dorchester County	50	45,610	3	25	190	595	267
	Frederick County	642	584,263	38	321	2,432	7,626	3,419
	Garrett County	468	3,059,108	201	1,683	12,734	39,926	17,901
	Harford County	357	324,665	21	179	1,351	4,237	1,900
	Howard County	118	107,677	7	59	448	1,405	630
	Kent County	73	66,876	4	37	278	873	391
	Montgomery County	118	107,087	7	59	446	1,398	627
	Prince George's County	160	145,236	10	80	605	1,896	850
	Queen Anne's County	169	154,145	10	85	642	2,012	902
	St. Mary's County	350	318,273	21	175	1,325	4,154	1,862
	Somerset County	85	77,559	5	43	323	1,012	454
	Talbot County	106	96,872	6	53	403	1,264	567
	Washington County	543	1,206,381	79	664	5,022	15,745	7,059
	Wicomico County	195	177,077	12	97	737	2,311	1,036
	Worcester County	127	115,811	8	64	482	1,512	678
	Baltimore city	37	33,349	2	18	139	435	195
	Total Maryland	6,125	9,393,776	616	5,167	39,102	122,603	54,970
Massachusetts	Barnstable County	278	648,261	43	357	2,698	8,461	3,793
	Berkshire County	549	3,765,758	247	2,071	15,675	49,149	22,036
	Bristol County	351	819,709	54	451	3,412	10,698	4,797
	Dukes County	104	242,718	16	133	1,010	3,168	1,420

State	County	Total centralized cordwood heating systems	Total dry mass of cordwood burned by centralized cordwood heating systems (kg/yr)	Cresols (kg/yr)	PCB _{TED} (ng/yr)	Dioxin _{TED} (ug/yr)	Methane (kg/yr)	VOC (kg/yr)
	Essex County	395	922,412	60	507	3,840	12,039	5,398
	Franklin County	727	4,991,252	327	2,745	20,776	65,143	29,208
	Hampden County	552	3,788,613	248	2,084	15,770	49,447	22,170
	Hampshire County	656	4,502,135	295	2,476	18,740	58,760	26,346
	Middlesex County	384	2,632,338	173	1,448	10,957	34,356	15,404
	Nantucket County	35	82,100	5	45	342	1,072	480
	Norfolk County	141	329,381	22	181	1,371	4,299	1,927
	Plymouth County	363	846,056	55	465	3,522	11,042	4,951
	Suffolk County	5	11,823	1	7	49	154	69
	Worcester County	1,384	9,496,052	623	5,223	39,527	123,938	55,569
	Total Massachusetts	5,925	33,078,605	2,169	18,193	137,690	431,726	193,569
New Hampshire	Belknap County	339	2,213,333	145	1,217	9,213	28,887	12,952
	Carroll County	548	3,577,682	235	1,968	14,892	46,694	20,936
	Cheshire County	785	5,122,593	336	2,817	21,323	66,858	29,976
	Coos County	276	1,799,277	118	990	7,489	23,483	10,529
	Grafton County	898	5,859,458	384	3,223	24,390	76,475	34,288
	Hillsborough County	979	6,386,628	419	3,513	26,584	83,355	37,373
	Merrimack County	789	5,146,123	337	2,830	21,421	67,165	30,114
	Rockingham County	819	5,342,597	350	2,938	22,239	69,729	31,264
	Strafford County	362	2,360,717	155	1,298	9,826	30,811	13,814
	Sullivan County	453	2,955,659	194	1,626	12,303	38,576	17,296
	Total New Hampshire	6,247	40,764,066	2,673	22,420	169,680	532,033	238,543
New Jersey	Atlantic County	191	172,111	11	95	716	2,246	1,007
	Bergen County	30	66,212	4	36	276	864	387
	Burlington County	176	158,771	10	87	661	2,072	929
	Camden County	54	48,501	3	27	202	633	284
	Cape May County	135	122,040	8	67	508	1,593	714
	Cumberland County	101	91,442	6	50	381	1,193	535
	Essex County	19	41,113	3	23	171	537	241
	Gloucester County	107	96,612	6	53	402	1,261	565
	Hudson County	3	5,953	0	3	25	78	35

State	County	Total centralized cordwood heating systems	Total dry mass of cordwood burned by centralized cordwood heating systems (kg/yr)	Cresols (kg/yr)	PCB _{TED} (ng/yr)	Dioxin _{TED} (ug/yr)	Methane (kg/yr)	VOC (kg/yr)
	Hunterdon County	129	283,603	19	156	1,180	3,701	1,660
	Mercer County	40	36,171	2	20	151	472	212
	Middlesex County	59	53,654	4	30	223	700	314
	Monmouth County	89	80,213	5	44	334	1,047	469
	Morris County	137	301,440	20	166	1,255	3,934	1,764
	Ocean County	188	169,498	11	93	706	2,212	992
	Passaic County	51	112,833	7	62	470	1,473	660
	Salem County	78	70,660	5	39	294	922	413
	Somerset County	52	114,220	7	63	475	1,491	668
	Sussex County	312	686,461	45	378	2,857	8,959	4,017
	Union County	24	52,901	3	29	220	690	310
	Warren County	180	397,353	26	219	1,654	5,186	2,325
	Total New Jersey	2,154	3,161,762	207	1,739	13,161	41,266	18,502
New York	Albany County	265	1,832,260	120	1,008	7,627	23,914	10,722
	Allegany County	599	4,139,458	271	2,277	17,230	54,026	24,223
	Bronx County	24	23,000	2	13	96	300	135
	Broome County	486	3,359,192	220	1,848	13,983	43,843	19,657
	Cattaraugus County	847	5,855,596	384	3,221	24,374	76,424	34,266
	Cayuga County	420	2,904,268	190	1,597	12,089	37,905	16,995
	Chautauqua County	729	5,037,859	330	2,771	20,970	65,752	29,480
	Chemung County	287	1,986,010	130	1,092	8,267	25,920	11,622
	Chenango County	604	4,175,243	274	2,296	17,379	54,493	24,433
	Clinton County	422	2,920,728	192	1,606	12,158	38,120	17,091
	Columbia County	319	2,202,659	144	1,211	9,169	28,748	12,889
	Cortland County	326	2,256,031	148	1,241	9,391	29,445	13,202
	Delaware County	676	4,674,371	306	2,571	19,457	61,008	27,353
	Dutchess County	396	2,735,223	179	1,504	11,385	35,699	16,006
	Erie County	665	4,598,047	301	2,529	19,139	60,012	26,907
	Essex County	339	2,344,020	154	1,289	9,757	30,593	13,717
	Franklin County	480	3,317,115	218	1,824	13,807	43,293	19,411
	Fulton County	349	2,411,266	158	1,326	10,037	31,471	14,110

State	County	Total centralized cordwood heating systems	Total dry mass of cordwood burned by centralized cordwood heating systems (kg/yr)	Cresols (kg/yr)	PCB _{TED} (ng/yr)	Dioxin _{TED} (ug/yr)	Methane (kg/yr)	VOC (kg/yr)
	Genesee County	194	1,344,664	88	740	5,597	17,550	7,869
	Greene County	307	2,122,246	139	1,167	8,834	27,699	12,419
	Hamilton County	106	730,575	48	402	3,041	9,535	4,275
	Herkimer County	405	2,798,470	183	1,539	11,649	36,524	16,376
	Jefferson County	686	4,744,322	311	2,609	19,748	61,921	27,763
	Kings County	53	51,007	3	28	212	666	298
	Lewis County	716	4,952,694	325	2,724	20,616	64,640	28,982
	Livingston County	355	2,453,862	161	1,350	10,214	32,027	14,359
	Madison County	392	2,708,955	178	1,490	11,276	35,356	15,852
	Monroe County	442	3,058,791	201	1,682	12,732	39,922	17,899
	Montgomery County	212	1,465,661	96	806	6,101	19,129	8,577
	Nassau County	47	45,570	3	25	190	595	267
	New York County	39	37,311	2	21	155	487	218
	Niagara County	236	1,633,702	107	899	6,800	21,322	9,560
	Oneida County	746	5,158,415	338	2,837	21,472	67,325	30,186
	Onondaga County	497	3,435,775	225	1,890	14,301	44,842	20,105
	Ontario County	431	2,978,098	195	1,638	12,396	38,869	17,427
	Orange County	291	2,014,136	132	1,108	8,384	26,288	11,786
	Orleans County	205	1,419,982	93	781	5,911	18,533	8,309
	Oswego County	753	5,207,360	341	2,864	21,676	67,964	30,472
	Otsego County	639	4,417,812	290	2,430	18,389	57,659	25,852
	Putnam County	156	1,075,564	71	592	4,477	14,038	6,294
	Queens County	19	18,321	1	10	76	239	107
	Rensselaer County	603	4,167,204	273	2,292	17,346	54,388	24,386
	Richmond County	6	6,239	0	3	26	81	37
	Rockland County	33	229,749	15	126	956	2,999	1,344
	St. Lawrence County	1,052	7,276,773	477	4,002	30,290	94,973	42,582
	Saratoga County	768	5,313,572	348	2,922	22,118	69,350	31,094
	Schenectady County	129	891,839	58	491	3,712	11,640	5,219
	Schoharie County	362	2,505,860	164	1,378	10,431	32,705	14,664
	Schuyler County	211	1,456,681	96	801	6,063	19,012	8,524

State	County	Total centralized cordwood heating systems	Total dry mass of cordwood burned by centralized cordwood heating systems (kg/yr)	Cresols (kg/yr)	PCB _{TED} (ng/yr)	Dioxin _{TED} (ug/yr)	Methane (kg/yr)	VOC (kg/yr)
	Seneca County	110	762,370	50	419	3,173	9,950	4,461
	Steuben County	868	5,998,970	393	3,299	24,971	78,296	35,105
	Suffolk County	254	244,942	16	135	1,020	3,197	1,433
	Sullivan County	407	2,810,990	184	1,546	11,701	36,688	16,449
	Tioga County	419	2,899,452	190	1,595	12,069	37,842	16,967
	Tompkins County	518	3,584,581	235	1,972	14,921	46,784	20,976
	Ulster County	733	5,065,775	332	2,786	21,086	66,116	29,644
	Warren County	408	2,821,737	185	1,552	11,745	36,828	16,512
	Washington County	635	4,388,327	288	2,414	18,266	57,274	25,680
	Wayne County	535	3,699,931	243	2,035	15,401	48,290	21,651
	Westchester County	80	554,084	36	305	2,306	7,232	3,242
	Wyoming County	356	2,463,842	162	1,355	10,256	32,157	14,418
	Yates County	224	1,547,956	101	851	6,443	20,203	9,058
	Total New York	24,871	169,336,512	11,103	93,135	704,863	2,210,099	990,922
Pennsylvania	Adams County	568	1,355,685	89	746	5,643	17,694	7,933
	Allegheny County	221	526,821	35	290	2,193	6,876	3,083
	Armstrong County	131	311,793	20	171	1,298	4,069	1,825
	Beaver County	185	441,943	29	243	1,840	5,768	2,586
	Bedford County	647	1,544,765	101	850	6,430	20,162	9,040
	Berks County	578	565,436	37	311	2,354	7,380	3,309
	Blair County	264	630,478	41	347	2,624	8,229	3,689
	Bradford County	658	4,615,555	303	2,539	19,212	60,240	27,009
	Bucks County	403	394,476	26	217	1,642	5,149	2,308
	Butler County	320	762,764	50	420	3,175	9,955	4,464
	Cambria County	167	398,605	26	219	1,659	5,202	2,333
	Cameron County	45	313,164	21	172	1,304	4,087	1,833
	Carbon County	79	188,389	12	104	784	2,459	1,102
	Centre County	503	3,525,455	231	1,939	14,675	46,013	20,630
	Chester County	450	439,761	29	242	1,831	5,740	2,573
	Clarion County	160	1,123,909	74	618	4,678	14,669	6,577
	Clearfield County	156	1,094,116	72	602	4,554	14,280	6,403

State	County	Total centralized cordwood heating systems	Total dry mass of cordwood burned by centralized cordwood heating systems (kg/yr)	Cresols (kg/yr)	PCB _{TED} (ng/yr)	Dioxin _{TED} (ug/yr)	Methane (kg/yr)	VOC (kg/yr)
	Clinton County	205	1,438,194	94	791	5,986	18,771	8,416
	Columbia County	201	479,445	31	264	1,996	6,257	2,806
	Crawford County	851	5,966,827	391	3,282	24,837	77,876	34,917
	Cumberland County	488	1,165,329	76	641	4,851	15,209	6,819
	Dauphin County	244	238,175	16	131	991	3,109	1,394
	Delaware County	38	37,142	2	20	155	485	217
	Elk County	134	937,619	61	516	3,903	12,237	5,487
	Erie County	516	3,622,301	238	1,992	15,078	47,277	21,197
	Fayette County	286	682,017	45	375	2,839	8,901	3,991
	Forest County	78	548,986	36	302	2,285	7,165	3,213
	Franklin County	861	2,055,320	135	1,130	8,555	26,825	12,027
	Fulton County	332	793,272	52	436	3,302	10,353	4,642
	Greene County	148	353,413	23	194	1,471	4,613	2,068
	Huntingdon County	527	1,257,164	82	691	5,233	16,408	7,357
	Indiana County	267	637,626	42	351	2,654	8,322	3,731
	Jefferson County	165	394,079	26	217	1,640	5,143	2,306
	Juniata County	371	885,885	58	487	3,687	11,562	5,184
	Lackawanna County	139	976,627	64	537	4,065	12,746	5,715
	Lancaster County	1,051	1,027,910	67	565	4,279	13,416	6,015
	Lawrence County	160	381,779	25	210	1,589	4,983	2,234
	Lebanon County	222	216,769	14	119	902	2,829	1,268
	Lehigh County	301	718,282	47	395	2,990	9,375	4,203
	Luzerne County	259	1,813,264	119	997	7,548	23,666	10,611
	Lycoming County	605	1,444,598	95	795	6,013	18,854	8,453
	McKean County	237	1,664,881	109	916	6,930	21,729	9,743
	Mercer County	385	2,697,747	177	1,484	11,229	35,210	15,787
	Mifflin County	518	1,235,468	81	680	5,143	16,125	7,230
	Monroe County	589	4,133,903	271	2,274	17,207	53,954	24,191
	Montgomery County	305	298,371	20	164	1,242	3,894	1,746
	Montour County	69	163,483	11	90	680	2,134	957
	Northampton County	272	649,893	43	357	2,705	8,482	3,803

State	County	Total centralized cordwood heating systems	Total dry mass of cordwood burned by centralized cordwood heating systems (kg/yr)	Cresols (kg/yr)	PCB _{TED} (ng/yr)	Dioxin _{TED} (ug/yr)	Methane (kg/yr)	VOC (kg/yr)
	Northumberland County	160	381,449	25	210	1,588	4,978	2,232
	Perry County	456	1,089,160	71	599	4,534	14,215	6,374
	Philadelphia County	50	48,857	3	27	203	638	286
	Pike County	367	2,574,490	169	1,416	10,716	33,601	15,065
	Potter County	255	1,788,822	117	984	7,446	23,347	10,468
	Schuylkill County	126	300,447	20	165	1,251	3,921	1,758
	Snyder County	303	722,379	47	397	3,007	9,428	4,227
	Somerset County	300	715,215	47	393	2,977	9,335	4,185
	Sullivan County	105	739,879	49	407	3,080	9,657	4,330
	Susquehanna County	557	3,908,393	256	2,150	16,269	51,010	22,871
	Tioga County	509	3,570,839	234	1,964	14,864	46,605	20,896
	Union County	193	460,140	30	253	1,915	6,006	2,693
	Venango County	372	2,608,380	171	1,435	10,857	34,043	15,264
	Warren County	420	2,942,833	193	1,619	12,250	38,408	17,221
	Washington County	335	798,930	52	439	3,326	10,427	4,675
	Wayne County	447	3,137,951	206	1,726	13,062	40,955	18,363
	Westmoreland County	455	1,084,953	71	597	4,516	14,160	6,349
	Wyoming County	226	1,584,405	104	871	6,595	20,679	9,272
	York County	1,012	2,415,575	158	1,329	10,055	31,527	14,135
	Total Pennsylvania	23,009	88,021,982	5,772	48,412	366,391	1,148,821	515,086
Rhode Island	Bristol County	29	71,770	5	39	299	937	420
	Kent County	178	436,133	29	240	1,815	5,692	2,552
	Newport County	95	231,808	15	127	965	3,025	1,356
	Providence County	350	854,940	56	470	3,559	11,158	5,003
	Washington County	454	1,109,359	73	610	4,618	14,479	6,492
	Total Rhode Island	1,106	2,704,011	177	1,487	11,255	35,291	15,823
District of Columbia	District of Columbia	26	23,990	2	13	100	313	140
	Total D.C.	26	23,990	2	13	100	313	140
Vermont	Addison County	487	3,272,943	215	1,800	13,624	42,717	19,153
	Bennington County	289	1,943,175	127	1,069	8,088	25,361	11,371
	Caledonia County	506	3,401,863	223	1,871	14,160	44,399	19,907

State	County	Total centralized cordwood heating systems	Total dry mass of cordwood burned by centralized cordwood heating systems (kg/yr)	Cresols (kg/yr)	PCB _{TEQ} (ng/yr)	Dioxin _{TEQ} (ug/yr)	Methane (kg/yr)	VOC (kg/yr)
	Chittenden County	557	3,748,339	246	2,062	15,602	48,922	21,934
	Essex County	118	794,191	52	437	3,306	10,365	4,647
	Franklin County	476	3,202,800	210	1,762	13,332	41,801	18,742
	Grand Isle County	62	417,012	27	229	1,736	5,443	2,440
	Lamoille County	361	2,429,825	159	1,336	10,114	31,713	14,219
	Orange County	639	4,297,112	282	2,363	17,887	56,084	25,146
	Orleans County	581	3,903,340	256	2,147	16,248	50,945	22,842
	Rutland County	553	3,719,610	244	2,046	15,483	48,547	21,766
	Washington County	693	4,660,171	306	2,563	19,398	60,822	27,270
	Windham County	802	5,395,505	354	2,968	22,459	70,420	31,573
	Windsor County	747	5,024,522	329	2,763	20,915	65,578	29,402
Total Vermont		6,872	46,210,408	3,030	25,416	192,351	603,116	270,414
Total MANE-VU		90,797	470,723,145	30,865	258,898	1,959,385	6,143,654	2,754,572

HDD Range	HDD	Total centralized cordwood heating systems	Total dry mass of cordwood burned by centralized cordwood heating systems (kg/yr)	Cresols (kg/yr)	PCB _{TEQ} (ng/yr)	Dioxin _{TEQ} (ug/yr)	Methane (kg/yr)	VOC (kg/yr)
> 6500	High	62,226	417,943,456	27,404	229,869	1,739,690	5,454,798	2,445,717
5500-6499	Med.	18,134	43,042,117	2,822	23,673	179,163	561,765	251,873
< 5499	Low	10,437	9,737,572	638	5,356	40,533	127,090	56,982

4. Summary

A summary tabulation of the emission factors for all pollutants used for the calculation of the emission factors for all wood-burning device categories is provided as Table 4.1. The total emission inventory for residential wood combustion (sum of all devices) is provided as Table 4.2 by county, by state and by heating degree day (HDD) category. Table 4.2 is divided into three sections. Section 1 contains the data for PM_{2.5}, PM₁₀, NO_x, CO, SO₂, NH₃, benzene, phenol, 7-PAH, and 16-PAH. Section 2 contains the data for benzo(a)pyrene, naphthalene, 1,3-butadiene, formaldehyde, acetaldehyde, acrolein, cresols, PCB_{TEQ}, and dioxin_{TEQ}. Section 3 contains data for methane and VOC.

Table 4.1
Summary of Emission Factors

Pollutant	Units	Uncertified Conventional Cordwood Heaters	Certified Catalytic Cordwood Heaters	Certified Non-Catalytic Cordwood Heaters	Pellet Heaters	Fireplaces without Inserts Burning Cordwood	Fireplaces without Inserts Burning Manufactured Wax/Fiber Firelogs	Centralized Cordwood Heating Systems
PM _{2.5} [*]	g/kg	16.9	8.37	7.51	1.53	15.27	24.1	13.82
PM ₁₀ [*]	g/kg	16.9	8.37	7.51	1.53	15.27	24.1	13.82
NO _x ^{**}	g/kg	1.28	1.00	1.14	1.90	1.45	3.23	0.92
CO	g/kg	78.4	53.5	70.40	7.96	74.6	68.5	91.8
SO ₂	g/kg	0.10	0.20	0.20	0.16	0.20	2.08	1.01
NH ₃	g/kg	0.85	0.45	0.45	0.15	0.90	0.002	0.90
Benzene	g/kg	1.08	1.12	0.48	0.01	0.34	0.45	1.38
Phenol	g/kg	0.15	0.20	0.24	0.01	0.24	0.02	0.12
7-PAH	g/kg	0.02	0.01	0.01	0.03	0.11	0.002	0.02
16-PAH	g/kg	0.32	0.14	0.16	0.35	0.38	0.06	0.26
Benzo(a)pyrene	mg/kg	0.84	1.97	1.09	3.34	0.37	0.48	1.37
Naphthalene	g/kg	0.09	0.08	0.07	0.21	0.13	0.03	0.07
1,3-Butadiene	g/kg	0.20	0.10	0.09	0.0005	0.08	0.01	0.01
Formaldehyde	g/kg	0.73	0.49	1.11	0.16	0.90	0.75	0.35
Acetaldehyde	g/kg	0.31	0.27	0.32	0.05	0.53	0.06	0.34
Acrolein	g/kg	0.05	0.02	0.02	0.01	0.06	0.02	0.02
Cresols ^{***}	g/kg	0.08	0.27	0.23	0.01	0.18	0.02	0.07
PCB _{TEQ}	pg/kg	0.50	0.25	1.40	0.10	0.38	1.63	0.55
Dioxin _{TEQ}	ng/kg	2.30	1.14	0.40	1.900	0.39	1.22	4.16
Methane	g/kg	32.0	13.0	14.2	0.12	7.21	38.75	13.05
VOC ^{****}	g/kg	18.4	8.60	10.1	0.02	9.43	16.9	5.85

* Reported as EPA Method 5H equivalent

** Reported as NO₂

*** Sum of o, m, and p isomers

**** If not specifically stated, assumed to be non-methane VOC

Table 4.2

Emission Inventory Summary (2002 Base Year)

Section 1

State	County	PM _{2.5} (kg/yr)	PM ₁₀ (kg/yr)	NO _x (kg/yr) as NO ₂	CO (kg/yr)	SO ₂ (kg/yr)	NH ₃ (kg/yr)	Benzene (kg/yr)	Phenol (kg/yr)	7-PAH (kg/yr)	16-PAH (kg/yr)
Connecticut	Fairfield County	667,758	667,758	57,951	3,365,437	7,218	34,558	40,612	7,671	1,387	13,068
	Hartford County	1,125,092	1,125,092	97,244	5,680,965	11,861	58,158	69,684	12,839	2,189	21,915
	Litchfield County	535,758	535,758	47,557	2,793,728	9,443	28,966	33,573	6,153	1,280	11,017
	Middlesex County	272,424	272,424	24,509	1,386,808	3,521	14,246	16,914	3,099	567	5,506
	New Haven County	868,311	868,311	76,606	4,366,405	10,264	45,149	50,844	10,107	2,060	17,285
	New London County	424,723	424,723	38,719	2,151,379	5,842	22,293	25,033	4,923	1,043	8,711
	Tolland County	474,287	474,287	42,135	2,443,167	7,662	25,644	27,730	5,621	1,324	9,823
	Windham County	556,980	556,980	50,221	2,866,096	9,617	30,458	30,794	6,760	1,804	11,808
	Total Connecticut		4,925,335	4,925,335	434,942	25,053,985	65,429	259,472	295,184	57,172	11,654
Delaware	Kent County	135,177	135,177	13,025	671,452	1,988	7,109	6,842	1,638	455	2,908
	New Castle County	369,189	369,189	34,306	1,796,618	5,579	19,370	15,523	4,698	1,558	7,762
	Sussex County	151,209	151,209	14,396	762,772	1,911	8,077	8,357	1,821	449	3,279
Total Delaware		655,574	655,574	61,727	3,230,843	9,478	34,556	30,722	8,157	2,462	13,948
Maine	Androscoggin County	523,540	523,540	47,165	2,680,830	8,375	28,354	29,277	6,306	1,606	10,997
	Aroostook County	428,187	428,187	39,352	2,258,136	8,906	23,481	27,016	4,895	1,086	9,106
	Cumberland County	851,870	851,870	76,740	4,352,067	13,419	46,140	46,943	10,321	2,681	17,916
	Franklin County	242,660	242,660	22,546	1,288,233	5,499	13,430	15,306	2,776	645	5,234
	Hancock County	350,156	350,156	31,791	1,842,651	6,878	19,055	22,505	3,966	814	7,330
	Kennebec County	568,468	568,468	51,490	2,977,172	10,763	30,892	35,767	6,505	1,385	11,892
	Knox County	246,201	246,201	22,115	1,285,987	4,425	13,304	15,608	2,807	571	5,096
	Lincoln County	217,547	217,547	19,660	1,143,356	4,179	11,809	14,016	2,461	496	4,530
	Oxford County	397,970	397,970	36,715	2,107,451	8,691	21,927	25,198	4,544	1,025	8,511
	Penobscot County	650,833	650,833	58,921	3,404,940	12,220	35,357	40,759	7,464	1,602	13,613
	Piscataquis County	145,385	145,385	13,571	774,369	3,398	8,069	9,239	1,657	385	3,150
	Sagadahoc County	200,801	200,801	17,982	1,047,261	3,521	10,826	12,739	2,288	459	4,140
	Somerset County	361,816	361,816	33,498	1,915,077	7,945	19,965	22,716	4,147	958	7,772
	Waldo County	320,836	320,836	29,473	1,698,326	6,921	17,644	20,416	3,654	809	6,829
	Washington County	196,215	196,215	18,063	1,037,158	4,151	10,769	12,502	2,233	488	4,176
	York County	602,604	602,604	54,178	3,147,104	10,952	32,625	37,873	6,900	1,444	12,507
Total Maine		6,305,089	6,305,089	573,259	32,960,116	120,241	343,649	387,879	72,925	16,454	132,800

State	County	PM _{2.5} (kg/yr)	PM ₁₀ (kg/yr)	NO _x (kg/yr) as NO ₂	CO (kg/yr)	SO ₂ (kg/yr)	NH ₃ (kg/yr)	Benzene (kg/yr)	Phenol (kg/yr)	7-PAH (kg/yr)	16-PAH (kg/yr)
Maryland	Allegany County	251,376	251,376	23,029	1,276,436	3,426	13,167	15,203	2,881	573	5,158
	Anne Arundel County	536,540	536,540	47,620	2,687,953	6,044	27,790	31,209	6,249	1,272	10,698
	Baltimore County	505,615	505,615	44,422	2,546,895	5,303	26,117	31,000	5,783	1,015	9,965
	Calvert County	90,683	90,683	8,758	455,971	1,263	4,763	5,114	1,063	249	1,945
	Caroline County	34,933	34,933	3,701	178,506	550	1,858	2,124	397	86	808
	Carroll County	165,881	165,881	16,956	838,458	2,569	8,791	9,395	1,935	471	3,734
	Cecil County	86,678	86,678	8,443	436,629	1,213	4,556	4,947	1,011	233	1,872
	Charles County	102,952	102,952	10,076	517,869	1,474	5,419	5,775	1,208	289	2,234
	Dorchester County	19,925	19,925	1,904	101,352	246	1,041	1,256	225	40	421
	Frederick County	212,643	212,643	21,173	1,069,156	3,190	11,229	11,713	2,507	628	4,687
	Garrett County	236,271	236,271	21,647	1,253,598	5,192	13,021	15,105	2,688	595	5,026
	Harford County	169,782	169,782	16,192	853,742	2,269	8,894	9,698	1,982	447	3,600
	Howard County	126,269	126,269	11,382	633,120	1,479	6,556	7,319	1,471	306	2,551
	Kent County	18,145	18,145	1,860	92,593	265	960	1,118	205	42	408
	Montgomery County	407,923	407,923	35,747	2,038,566	4,515	21,096	23,418	4,775	991	8,053
	Prince George's County	654,886	654,886	57,116	3,275,933	7,097	33,836	38,036	7,638	1,537	12,869
	Queen Anne's County	46,094	46,094	4,671	233,585	690	2,438	2,688	533	122	1,028
	St. Mary's County	222,589	222,589	20,581	1,120,639	2,720	11,597	13,132	2,575	526	4,590
	Somerset County	21,985	21,985	2,235	112,005	319	1,162	1,342	250	51	491
	Talbot County	30,158	30,158	3,019	153,662	419	1,589	1,866	341	67	664
Washington County	343,285	343,285	31,727	1,741,677	4,911	18,031	20,353	3,960	838	7,107	
Wicomico County	68,402	68,402	6,657	347,317	903	3,588	4,192	778	152	1,470	
Worcester County	42,506	42,506	4,154	215,993	567	2,231	2,611	483	94	917	
Baltimore city	33,065	33,065	3,085	164,193	448	1,729	1,715	398	104	692	
Total Maryland		4,428,583	4,428,583	406,153	22,345,848	57,072	231,460	260,329	51,336	10,728	90,986
Massachusetts	Barnstable County	386,848	386,848	34,275	1,951,238	4,644	20,117	23,100	4,466	874	7,715
	Berkshire County	633,862	633,862	57,082	3,244,929	10,294	34,503	34,660	7,719	2,055	13,393
	Bristol County	521,732	521,732	45,939	2,635,416	6,051	27,085	31,735	5,985	1,106	10,337
	Dukes County	45,820	45,820	4,271	236,266	677	2,418	2,979	511	87	954
	Essex County	716,649	716,649	62,491	3,622,028	7,896	37,108	44,292	8,176	1,423	14,064
	Franklin County	458,111	458,111	41,389	2,409,757	9,165	25,055	28,781	5,256	1,155	9,614
	Hampden County	1,064,524	1,064,524	95,253	5,384,034	15,165	57,644	55,238	13,217	3,665	22,405
Hampshire County	764,084	764,084	69,100	3,904,137	12,558	41,748	40,559	9,413	2,631	16,274	

State	County	PM _{2.5} (kg/yr)	PM ₁₀ (kg/yr)	NO _x (kg/yr) as NO ₂	CO (kg/yr)	SO ₂ (kg/yr)	NH ₃ (kg/yr)	Benzene (kg/yr)	Phenol (kg/yr)	7-PAH (kg/yr)	16-PAH (kg/yr)
	Middlesex County	1,448,274	1,448,274	125,759	7,322,184	16,747	76,559	83,575	17,225	3,742	29,074
	Nantucket County	23,428	23,428	2,118	119,759	306	1,226	1,493	264	45	475
	Norfolk County	518,400	518,400	44,426	2,617,999	5,191	26,718	32,553	5,884	944	10,005
	Plymouth County	432,709	432,709	38,243	2,192,382	5,099	22,489	26,741	4,933	880	8,597
	Suffolk County	39,497	39,497	3,489	196,106	477	2,052	2,109	474	115	789
	Worcester County	2,007,793	2,007,793	180,489	10,207,142	30,795	109,205	105,411	24,830	6,908	42,486
	Total Massachusetts	9,061,730	9,061,730	804,325	46,043,377	125,065	483,925	513,226	108,353	25,629	186,182
New Hampshire	Belknap County	225,037	225,037	20,170	1,179,772	4,242	12,219	14,278	2,568	533	4,667
	Carroll County	282,442	282,442	25,697	1,497,994	6,091	15,517	18,236	3,198	682	5,959
	Cheshire County	444,040	444,040	40,382	2,341,492	9,179	24,351	27,974	5,086	1,129	9,376
	Coos County	167,285	167,285	15,155	879,488	3,329	9,140	10,520	1,917	419	3,514
	Grafton County	506,653	506,653	46,080	2,672,344	10,478	27,779	31,990	5,797	1,280	10,695
	Hillsborough County	1,198,996	1,198,996	108,077	6,113,841	19,014	65,241	63,985	14,728	4,036	25,387
	Merrimack County	497,713	497,713	44,772	2,614,340	9,635	27,091	31,609	5,677	1,193	10,366
	Rockingham County	756,198	756,198	67,592	3,906,007	12,630	40,912	44,775	8,903	2,066	15,713
	Strafford County	400,859	400,859	36,078	2,051,778	6,490	21,792	21,999	4,871	1,287	8,454
	Sullivan County	259,104	259,104	23,524	1,365,795	5,317	14,196	16,351	2,965	653	5,460
	Total New Hampshire	4,738,327	4,738,327	427,527	24,622,852	86,406	258,238	281,717	55,710	13,277	99,591
New Jersey	Atlantic County	126,325	126,325	11,784	632,783	1,628	6,595	7,099	1,484	339	2,631
	Bergen County	654,024	654,024	55,576	3,292,143	6,281	33,611	40,643	7,452	1,213	12,522
	Burlington County	167,319	167,319	15,151	839,776	1,968	8,690	9,761	1,945	400	3,392
	Camden County	255,097	255,097	21,905	1,284,088	2,496	13,162	15,669	2,926	502	4,945
	Cape May County	81,070	81,070	7,641	406,235	1,065	4,239	4,543	953	221	1,703
	Cumberland County	72,714	72,714	6,712	365,107	896	3,788	4,206	847	181	1,499
	Essex County	234,509	234,509	19,941	1,181,868	2,233	12,088	14,575	2,680	440	4,509
	Gloucester County	95,445	95,445	8,658	479,526	1,120	4,957	5,611	1,106	224	1,937
	Hudson County	42,129	42,129	3,755	208,372	518	2,218	2,078	522	145	862
	Hunterdon County	118,459	118,459	10,473	603,898	1,373	6,153	7,654	1,327	206	2,348
	Mercer County	107,552	107,552	9,305	541,587	1,079	5,542	6,641	1,228	208	2,091
	Middlesex County	231,263	231,263	20,149	1,157,715	2,485	11,943	13,535	2,690	531	4,538
	Monmouth County	197,221	197,221	17,138	993,145	2,006	10,169	12,147	2,253	386	3,850
	Morris County	252,894	252,894	21,958	1,279,647	2,702	13,069	15,887	2,866	470	4,935
	Ocean County	223,674	223,674	19,982	1,123,175	2,528	11,591	13,217	2,590	511	4,480

State	County	PM _{2.5} (kg/yr)	PM ₁₀ (kg/yr)	NO _x (kg/yr) as NO ₂	CO (kg/yr)	SO ₂ (kg/yr)	NH ₃ (kg/yr)	Benzene (kg/yr)	Phenol (kg/yr)	7-PAH (kg/yr)	16-PAH (kg/yr)
	Passaic County	243,452	243,452	20,723	1,230,458	2,336	12,522	15,506	2,749	415	4,665
	Salem County	44,469	44,469	4,156	224,104	552	2,319	2,633	513	105	925
	Somerset County	148,162	148,162	12,707	749,356	1,485	7,634	9,405	1,674	259	2,858
	Sussex County	186,489	186,489	17,037	952,985	2,510	9,768	11,789	2,103	372	3,811
	Union County	248,127	248,127	21,008	1,253,041	2,303	12,761	15,761	2,809	425	4,740
	Warren County	145,970	145,970	13,094	742,413	1,829	7,610	9,125	1,654	293	2,935
	Total New Jersey	3,876,364	3,876,364	338,852	19,541,421	41,392	200,427	237,485	44,370	7,841	76,176
New York	Albany County	558,881	558,881	49,357	2,834,193	7,499	29,957	30,918	6,769	1,668	11,511
	Allegany County	326,830	326,830	29,513	1,736,162	6,962	17,892	21,576	3,660	728	6,828
	Bronx County	29,578	29,578	2,611	149,300	311	1,530	1,834	337	58	585
	Broome County	643,019	643,019	57,038	3,293,682	9,661	34,603	37,123	7,655	1,803	13,273
	Cattaraugus County	510,678	510,678	45,959	2,698,703	10,322	27,844	33,310	5,752	1,150	10,625
	Cayuga County	403,481	403,481	36,022	2,085,999	6,764	21,839	23,990	4,745	1,094	8,378
	Chautauqua County	705,717	705,717	63,044	3,647,153	11,807	38,202	41,849	8,308	1,925	14,666
	Chemung County	372,110	372,110	32,977	1,907,841	5,605	20,011	21,665	4,414	1,023	7,666
	Chenango County	337,046	337,046	30,575	1,785,475	7,175	18,505	21,677	3,825	818	7,097
	Clinton County	298,386	298,386	26,734	1,563,472	5,622	16,219	18,801	3,418	724	6,196
	Columbia County	224,900	224,900	20,104	1,179,595	4,207	12,197	14,380	2,557	519	4,648
	Cortland County	226,682	226,682	20,270	1,189,982	4,268	12,295	14,556	2,572	517	4,685
	Delaware County	366,809	366,809	33,413	1,945,313	7,956	20,187	23,521	4,169	909	7,762
	Dutchess County	542,412	542,412	48,440	2,768,235	8,278	29,366	29,821	6,590	1,705	11,346
	Erie County	1,888,742	1,888,742	161,805	9,625,675	21,490	98,820	118,806	21,598	3,699	36,963
	Essex County	205,723	205,723	18,596	1,084,798	4,200	11,264	13,043	2,350	510	4,318
	Franklin County	294,215	294,215	26,680	1,549,249	6,016	16,138	18,379	3,385	763	6,207
	Fulton County	244,856	244,856	21,887	1,284,693	4,589	13,278	15,687	2,782	562	5,059
	Genesee County	181,317	181,317	15,991	942,398	2,960	9,719	11,551	2,064	396	3,682
	Greene County	201,704	201,704	18,126	1,060,357	3,934	10,990	12,819	2,301	485	4,201
	Hamilton County	53,824	53,824	4,924	286,423	1,210	2,972	3,471	610	134	1,145
	Herkimer County	383,315	383,315	34,407	1,979,792	6,545	20,827	22,295	4,552	1,106	8,028
	Jefferson County	443,993	443,993	39,826	2,336,892	8,690	24,175	28,477	5,043	1,038	9,223
	Kings County	56,122	56,122	4,989	283,460	599	2,905	3,482	639	110	1,117
	Lewis County	359,476	359,476	33,000	1,912,567	8,205	19,914	22,855	4,104	940	7,690
	Livingston County	261,815	261,815	23,403	1,369,824	4,820	14,199	16,513	2,997	626	5,419

State	County	PM _{2.5} (kg/yr)	PM ₁₀ (kg/yr)	NO _x (kg/yr) as NO ₂	CO (kg/yr)	SO ₂ (kg/yr)	NH ₃ (kg/yr)	Benzene (kg/yr)	Phenol (kg/yr)	7-PAH (kg/yr)	16-PAH (kg/yr)
	Madison County	362,076	362,076	32,436	1,872,728	6,208	19,656	21,309	4,278	1,016	7,560
	Monroe County	1,153,154	1,153,154	99,178	5,876,716	13,519	60,530	71,617	13,269	2,393	22,714
	Montgomery County	232,230	232,230	20,743	1,194,472	3,745	12,567	13,413	2,765	667	4,836
	Nassau County	138,762	138,762	13,133	671,244	2,239	7,343	5,222	1,813	662	2,988
	New York County	48,512	48,512	4,282	244,862	509	2,509	3,007	553	95	960
	Niagara County	435,262	435,262	37,732	2,226,999	5,605	22,994	26,941	5,018	946	8,665
	Oneida County	844,110	844,110	75,281	4,338,562	13,436	45,626	48,788	10,047	2,409	17,543
	Onondaga County	894,057	894,057	78,921	4,549,796	12,339	47,912	50,564	10,732	2,561	18,370
	Ontario County	457,090	457,090	39,474	2,378,365	6,736	24,116	31,063	5,029	721	8,977
	Orange County	359,225	359,225	31,683	1,846,417	5,426	19,273	21,422	4,217	928	7,347
	Orleans County	159,793	159,793	14,253	834,517	2,864	8,645	10,074	1,829	377	3,297
	Oswego County	634,681	634,681	56,914	3,295,377	11,242	34,489	38,040	7,439	1,724	13,248
	Otsego County	371,390	371,390	33,608	1,963,275	7,736	20,354	23,780	4,223	903	7,800
	Putnam County	178,571	178,571	15,887	917,600	2,822	9,645	10,338	2,124	506	3,702
	Queens County	48,746	48,746	4,219	245,605	488	2,514	3,016	556	94	949
	Rensselaer County	681,841	681,841	61,218	3,496,549	11,080	37,056	37,951	8,245	2,132	14,339
	Richmond County	10,202	10,202	893	51,459	105	527	632	116	20	200
	Rockland County	124,243	124,243	10,789	628,196	1,441	6,570	7,163	1,478	322	2,495
	St. Lawrence County	614,169	614,169	55,644	3,245,629	12,781	33,666	39,233	6,991	1,504	12,915
	Saratoga County	875,794	875,794	78,294	4,494,313	14,071	47,482	49,469	10,527	2,643	18,308
	Schenectady County	315,824	315,824	27,673	1,601,489	4,016	16,822	17,959	3,781	871	6,424
	Schoharie County	282,238	282,238	25,590	1,465,822	5,287	15,473	16,313	3,362	856	5,994
	Schuyler County	119,137	119,137	10,766	631,152	2,504	6,525	7,737	1,345	278	2,495
	Seneca County	92,700	92,700	8,148	484,051	1,565	4,969	6,051	1,043	188	1,873
	Steuben County	534,798	534,798	47,960	2,824,284	10,649	29,101	35,016	6,011	1,178	11,079
	Suffolk County	574,902	574,902	51,060	2,868,441	6,681	29,853	32,083	6,799	1,518	11,515
	Sullivan County	275,451	275,451	24,692	1,446,693	5,274	14,976	17,568	3,137	648	5,716
	Tioga County	358,042	358,042	32,249	1,855,304	6,388	19,520	20,917	4,244	1,039	7,532
	Tompkins County	388,884	388,884	34,564	2,035,997	7,024	21,009	24,988	4,410	866	7,979
	Ulster County	542,538	542,538	48,452	2,838,262	9,965	29,415	34,231	6,209	1,294	11,219
	Warren County	418,740	418,740	37,619	2,154,270	7,018	22,783	23,643	5,035	1,283	8,806
	Washington County	514,979	514,979	46,581	2,670,915	9,460	28,183	29,750	6,136	1,552	10,905
	Wayne County	389,799	389,799	34,806	2,041,767	7,184	21,118	24,844	4,439	902	8,047

State	County	PM _{2.5} (kg/yr)	PM ₁₀ (kg/yr)	NO _x (kg/yr) as NO ₂	CO (kg/yr)	SO ₂ (kg/yr)	NH ₃ (kg/yr)	Benzene (kg/yr)	Phenol (kg/yr)	7-PAH (kg/yr)	16-PAH (kg/yr)
	Westchester County	842,819	842,819	71,707	4,260,281	8,225	43,877	51,768	9,750	1,716	16,398
	Wyoming County	215,158	215,158	19,359	1,136,948	4,345	11,730	14,033	2,423	484	4,476
	Yates County	131,415	131,415	11,854	695,115	2,702	7,180	8,544	1,483	302	2,744
	Total New York	24,742,962	24,742,962	2,197,353	127,884,707	402,376	1,331,854	1,500,885	288,052	62,606	508,734
Pennsylvania	Adams County	255,923	255,923	23,766	1,320,112	3,762	13,500	16,691	2,849	480	5,312
	Allegheny County	1,113,835	1,113,835	95,792	5,605,554	11,440	57,474	67,962	12,783	2,249	21,604
	Armstrong County	105,849	105,849	9,389	542,169	1,247	5,507	7,005	1,174	169	2,103
	Beaver County	243,140	243,140	21,291	1,234,951	2,714	12,606	15,457	2,744	442	4,784
	Bedford County	227,607	227,607	21,872	1,179,421	3,774	12,115	14,716	2,538	468	4,875
	Berks County	275,848	275,848	26,602	1,381,958	3,905	14,528	14,957	3,281	826	5,936
	Blair County	240,114	240,114	21,525	1,219,693	3,012	12,530	14,836	2,736	501	4,834
	Bradford County	389,096	389,096	35,128	2,057,559	8,062	21,299	25,077	4,410	924	8,147
	Bucks County	293,004	293,004	27,156	1,468,589	3,724	15,317	16,479	3,450	787	6,083
	Butler County	264,888	264,888	23,620	1,351,591	3,248	13,808	16,947	2,979	489	5,299
	Cambria County	192,879	192,879	17,017	979,661	2,236	10,021	12,151	2,184	367	3,823
	Cameron County	31,406	31,406	2,808	164,924	591	1,703	2,024	356	71	649
	Carbon County	90,185	90,185	7,941	458,303	1,041	4,684	5,706	1,019	169	1,784
	Centre County	571,318	571,318	51,470	2,926,069	9,435	31,174	30,980	6,983	1,894	12,105
	Chester County	232,843	232,843	22,061	1,170,518	3,096	12,213	13,209	2,731	624	4,923
	Clarion County	119,803	119,803	10,590	629,153	2,141	6,440	7,978	1,334	232	2,431
	Clearfield County	175,862	175,862	15,332	910,842	2,631	9,346	11,362	1,987	349	3,515
	Clinton County	152,685	152,685	13,667	798,736	2,826	8,290	9,579	1,752	372	3,168
	Columbia County	151,413	151,413	13,715	770,457	1,999	7,926	9,330	1,726	325	3,079
	Crawford County	516,141	516,141	46,380	2,729,022	10,461	28,142	33,753	5,806	1,154	10,725
	Cumberland County	422,740	422,740	38,211	2,141,678	5,570	22,119	25,310	4,873	981	8,591
	Dauphin County	163,576	163,576	15,418	816,356	2,224	8,586	8,726	1,958	497	3,455
	Delaware County	199,662	199,662	17,576	993,980	2,295	10,362	10,976	2,375	543	3,975
	Elk County	110,585	110,585	9,756	578,165	1,893	5,933	7,246	1,241	223	2,241
	Erie County	720,677	720,677	63,837	3,687,952	10,698	38,766	41,448	8,594	2,031	14,863
	Fayette County	232,641	232,641	20,838	1,186,652	2,890	12,137	14,806	2,621	440	4,673
	Forest County	40,486	40,486	3,664	215,905	895	2,223	2,697	451	89	848
	Franklin County	375,822	375,822	35,207	1,936,784	5,698	19,867	24,143	4,207	754	7,867
	Fulton County	103,311	103,311	10,079	537,142	1,815	5,525	6,688	1,150	218	2,244

State	County	PM _{2.5} (kg/yr)	PM ₁₀ (kg/yr)	NO _x (kg/yr) as NO ₂	CO (kg/yr)	SO ₂ (kg/yr)	NH ₃ (kg/yr)	Benzene (kg/yr)	Phenol (kg/yr)	7-PAH (kg/yr)	16-PAH (kg/yr)
	Greene County	78,747	78,747	7,210	405,449	1,073	4,134	5,189	874	137	1,611
	Huntingdon County	194,510	194,510	18,574	1,006,419	3,161	10,337	12,539	2,172	400	4,143
	Indiana County	159,701	159,701	14,489	820,580	2,091	8,362	10,500	1,774	275	3,241
	Jefferson County	92,200	92,200	8,398	474,504	1,229	4,833	6,095	1,022	157	1,877
	Juniata County	124,102	124,102	11,998	643,822	2,109	6,619	8,015	1,384	259	2,673
	Lackawanna County	349,839	349,839	30,358	1,779,205	4,281	18,495	20,879	4,101	838	6,999
	Lancaster County	466,380	466,380	45,714	2,328,391	6,994	24,659	24,123	5,625	1,541	10,201
	Lawrence County	139,439	139,439	12,338	713,141	1,627	7,250	9,164	1,552	228	2,765
	Lebanon County	109,069	109,069	10,476	546,848	1,518	5,738	5,982	1,293	318	2,337
	Lehigh County	384,984	384,984	34,431	1,938,285	4,855	20,083	22,367	4,488	949	7,758
	Luzerne County	487,744	487,744	42,923	2,482,830	6,614	26,078	27,918	5,826	1,351	9,974
	Lycoming County	385,500	385,500	35,601	1,960,079	5,527	20,285	23,060	4,440	926	7,988
	McKean County	166,821	166,821	14,802	877,911	3,085	8,997	11,091	1,859	332	3,403
	Mercer County	404,460	404,460	35,899	2,088,353	6,520	21,799	24,300	4,734	1,051	8,331
	Mifflin County	204,718	204,718	19,418	1,057,227	3,238	10,857	13,154	2,290	419	4,334
	Monroe County	438,587	438,587	39,046	2,294,414	8,101	23,805	27,531	5,034	1,065	9,060
	Montgomery County	607,020	607,020	52,479	3,068,052	5,914	31,275	38,532	6,861	1,060	11,787
	Montour County	37,837	37,837	3,463	194,423	517	1,986	2,461	422	69	775
	Northampton County	310,023	310,023	27,696	1,565,763	3,881	16,169	18,440	3,584	719	6,235
	Northumberland County	144,188	144,188	12,765	736,496	1,688	7,498	9,394	1,610	244	2,862
	Perry County	219,758	219,758	20,597	1,125,786	3,347	11,616	13,560	2,499	498	4,611
	Philadelphia County	190,333	190,333	16,537	954,621	1,996	9,835	11,293	2,207	421	3,729
	Pike County	301,878	301,878	27,020	1,568,567	5,455	16,447	17,959	3,552	842	6,309
	Potter County	132,774	132,774	11,997	708,141	2,915	7,280	8,900	1,475	285	2,774
	Schuylkill County	150,588	150,588	13,149	767,429	1,647	7,802	9,822	1,682	246	2,951
	Snyder County	120,549	120,549	11,391	622,958	1,884	6,388	7,807	1,344	239	2,543
	Somerset County	194,188	194,188	17,705	991,884	2,621	10,182	12,192	2,197	398	3,968
	Sullivan County	55,770	55,770	5,087	296,280	1,240	3,079	3,566	635	141	1,184
	Susquehanna County	312,122	312,122	28,361	1,653,473	6,708	17,170	19,924	3,556	780	6,594
	Tioga County	279,324	279,324	25,175	1,485,243	5,958	15,281	18,582	3,116	606	5,820
	Union County	94,745	94,745	8,779	487,092	1,373	4,992	6,077	1,062	187	1,963
	Venango County	254,483	254,483	22,675	1,339,564	4,805	13,770	16,733	2,853	535	5,225
	Warren County	263,522	263,522	23,616	1,391,928	5,220	14,325	17,342	2,954	568	5,450

State	County	PM _{2.5} (kg/yr)	PM ₁₀ (kg/yr)	NO _x (kg/yr) as NO ₂	CO (kg/yr)	SO ₂ (kg/yr)	NH ₃ (kg/yr)	Benzene (kg/yr)	Phenol (kg/yr)	7-PAH (kg/yr)	16-PAH (kg/yr)
	Washington County	310,786	310,786	27,601	1,583,297	3,725	16,179	19,800	3,502	577	6,195
	Wayne County	264,062	264,062	23,819	1,396,317	5,479	14,459	16,991	2,996	631	5,527
	Westmoreland County	812,188	812,188	70,068	4,125,736	8,370	41,943	52,582	9,106	1,336	15,750
	Wyoming County	186,322	186,322	16,801	967,181	3,393	10,175	10,920	2,206	541	3,926
	York County	744,054	744,054	67,660	3,781,788	10,052	38,999	45,201	8,527	1,677	15,194
	Total Pennsylvania	18,186,651	18,186,651	1,637,825	93,223,376	265,532	963,320	1,118,226	208,708	41,518	372,004
Rhode Island	Bristol County	80,316	80,316	6,929	405,592	840	4,150	4,988	916	154	1,562
	Kent County	270,379	270,379	23,664	1,369,136	3,046	14,026	16,799	3,080	533	5,327
	Newport County	133,349	133,349	11,600	678,093	1,444	6,905	8,594	1,497	228	2,607
	Providence County	608,427	608,427	53,046	3,078,142	6,723	31,529	37,753	6,935	1,197	11,946
	Washington County	266,773	266,773	24,470	1,364,313	3,759	14,030	16,654	3,025	566	5,488
	Total Rhode Island	1,359,244	1,359,244	119,709	6,895,276	15,812	70,639	84,788	15,453	2,679	26,930
District of Columbia	District of Columbia	97,361	97,361	9,042	474,034	1,464	5,109	4,116	1,238	409	2,046
	Total D.C.	97,361	97,361	9,042	474,034	1,464	5,109	4,116	1,238	409	2,046
Vermont	Addison County	296,025	296,025	26,707	1,559,726	5,926	16,160	18,907	3,369	710	6,188
	Bennington County	217,292	217,292	19,426	1,134,739	3,918	11,765	13,654	2,491	520	4,494
	Caledonia County	288,444	288,444	26,132	1,524,329	5,980	15,796	18,497	3,276	696	6,058
	Chittenden County	624,393	624,393	55,487	3,211,262	9,779	33,636	36,734	7,372	1,694	12,891
	Essex County	65,147	65,147	5,908	344,888	1,374	3,572	4,197	738	156	1,370
	Franklin County	278,210	278,210	25,077	1,469,591	5,661	15,190	18,001	3,146	646	5,805
	Grand Isle County	69,732	69,732	6,157	359,110	1,075	3,743	4,196	815	177	1,426
	Lamoille County	207,895	207,895	18,764	1,098,610	4,274	11,367	13,404	2,355	491	4,348
	Orange County	315,190	315,190	28,736	1,678,982	7,064	17,369	20,587	3,549	750	6,667
	Orleans County	322,523	322,523	29,260	1,706,316	6,788	17,690	20,677	3,664	786	6,789
	Rutland County	411,896	411,896	36,863	2,151,561	7,469	22,315	25,856	4,724	991	8,529
	Washington County	455,539	455,539	40,961	2,391,429	8,777	24,799	28,832	5,206	1,102	9,489
	Windham County	467,261	467,261	42,332	2,466,504	9,590	25,571	29,859	5,316	1,134	9,813
	Windsor County	473,197	473,197	42,617	2,488,787	9,275	25,785	30,146	5,391	1,131	9,869
	Total Vermont	4,492,744	4,492,744	404,427	23,585,835	86,952	244,758	283,546	51,412	10,984	93,736
	Total MANE-VU	82,869,965	82,869,965	7,415,142	425,861,668	1,277,218	4,427,407	4,998,103	962,887	206,241	1,702,267

HDD Range	HDD	PM _{2.5} (kg/yr)	PM ₁₀ (kg/yr)	NO _x (kg/yr) as NO ₂	CO (kg/yr)	SO ₂ (kg/yr)	NH ₃ (kg/yr)	Benzene (kg/yr)	Phenol (kg/yr)	7-PAH (kg/yr)	16-PAH (kg/yr)
> 6500	High	54,278,008	54,278,008	4,852,224	281,395,645	931,086	2,938,598	3,274,958	633,981	142,831	1,126,732
5500-6499	Med.	19,194,664	19,194,664	1,704,612	97,396,085	231,226	999,215	1,190,023	218,578	39,041	383,115
< 5499	Low	9,397,294	9,397,294	858,306	47,069,938	114,906	489,594	533,122	110,329	24,369	192,419

Table 4.2
Emission Inventory Summary (2002 Base Year)

State	County	Benzo(a)pyrene (g/yr)	Naphthalene (kg/yr)	1,3-Butadiene (kg/yr)	Formaldehyde (kg/yr)	Acetaldehyde (kg/yr)	Acrolein (kg/yr)	Cresols (kg/yr)	PCB _{TED} (ng/yr)	Dioxin _{TED} (ug/yr)
Connecticut	Fairfield County	41,375	4,203	7,054	34,745	14,803	1,868	5,393	26,660	80,134
	Hartford County	70,911	7,022	12,077	58,406	24,615	3,116	9,001	45,296	137,965
	Litchfield County	37,969	3,650	4,935	26,708	12,526	1,477	4,271	20,834	73,770
	Middlesex County	19,181	1,824	2,802	13,996	6,049	751	2,166	10,920	35,360
	New Haven County	53,196	5,638	8,791	45,305	19,821	2,475	7,140	34,043	100,769
	New London County	28,802	2,917	4,157	21,958	9,782	1,203	3,466	16,624	52,128
	Tolland County	30,544	3,258	4,284	24,197	11,508	1,367	3,953	17,892	58,679
	Windham County	34,787	3,970	4,691	28,579	14,125	1,657	4,787	20,316	65,465
	Total Connecticut		316,766	32,482	48,791	253,894	113,229	13,914	40,178	192,584
Delaware	Kent County	8,692	1,012	1,189	7,171	3,360	410	1,176	5,010	14,074
	New Castle County	16,283	2,639	2,867	19,968	9,909	1,199	3,441	12,753	27,902
	Sussex County	10,676	1,135	1,441	8,014	3,666	450	1,295	5,703	17,503
Total Delaware		35,651	4,786	5,498	35,153	16,935	2,059	5,912	23,466	59,479
Maine	Androscoggin County	32,871	3,685	4,606	26,997	13,008	1,546	4,464	19,386	61,412
	Aroostook County	33,448	3,101	3,688	20,982	10,187	1,170	3,381	16,545	62,678
	Cumberland County	52,389	6,004	7,458	44,108	21,317	2,536	7,324	31,348	97,642
	Franklin County	19,522	1,799	1,993	11,770	5,860	663	1,913	9,301	36,385
	Hancock County	27,137	2,470	3,149	17,186	8,143	946	2,734	13,727	51,482
	Kennebec County	42,576	4,000	5,109	28,147	13,354	1,559	4,505	22,095	80,690
	Knox County	18,209	1,702	2,276	12,231	5,707	672	1,943	9,645	34,769
	Lincoln County	16,714	1,521	1,980	10,695	5,033	587	1,696	8,553	31,859
	Oxford County	31,586	2,909	3,349	19,370	9,524	1,085	3,132	15,335	59,228
	Penobscot County	48,379	4,578	5,849	32,287	15,322	1,791	5,174	25,250	91,663
	Piscataquis County	11,943	1,087	1,180	7,013	3,512	395	1,140	5,579	22,204
	Sagadahoc County	14,738	1,379	1,876	9,997	4,636	548	1,585	7,883	28,203
	Somerset County	28,660	2,663	3,014	17,637	8,719	991	2,863	13,874	53,471
	Waldo County	25,359	2,326	2,729	15,616	7,635	872	2,518	12,407	47,796
	Washington County	15,584	1,424	1,690	9,575	4,648	533	1,538	7,611	29,199
	York County	44,197	4,182	5,506	29,958	14,084	1,655	4,783	23,474	84,375
Total Maine		463,312	44,830	55,453	313,568	150,690	17,549	50,693	242,014	873,055

State	County	Benzo(a)pyrene (g/yr)	Naphthalene (kg/yr)	1,3-Butadiene (kg/yr)	Formaldehyde (kg/yr)	Acetaldehyde (kg/yr)	Acrolein (kg/yr)	Cresols (kg/yr)	PCB _{TEQ} (ng/yr)	Dioxin _{TEQ} (ug/yr)
Maryland	Allegany County	17,843	1,732	2,513	12,948	5,681	701	2,020	9,973	32,043
	Anne Arundel County	32,962	3,501	5,485	28,132	12,208	1,534	4,422	21,073	61,462
	Baltimore County	32,686	3,232	5,413	26,348	11,099	1,407	4,061	20,327	61,702
	Calvert County	6,700	678	867	4,750	2,129	262	753	3,513	10,938
	Caroline County	3,459	299	341	1,806	792	97	277	1,400	5,085
	Carroll County	14,137	1,350	1,548	8,660	3,915	477	1,367	6,440	21,407
	Cecil County	6,635	656	835	4,533	2,022	249	715	3,376	10,709
	Charles County	7,817	785	975	5,393	2,428	298	856	3,981	12,513
	Dorchester County	1,641	145	211	1,031	434	54	156	812	2,737
	Frederick County	16,508	1,667	1,964	11,152	5,081	621	1,779	8,157	25,752
	Garrett County	18,706	1,710	1,995	11,457	5,629	640	1,849	9,133	35,488
	Harford County	12,335	1,243	1,655	8,890	3,945	488	1,403	6,617	20,514
	Howard County	8,056	845	1,278	6,618	2,886	361	1,041	4,952	14,637
	Kent County	1,699	148	182	938	406	50	143	732	2,596
	Montgomery County	23,683	2,610	4,149	21,434	9,343	1,174	3,387	15,930	45,240
	Prince George's County	38,182	4,154	6,735	34,370	14,881	1,875	5,409	25,703	73,470
	Queen Anne's County	3,971	370	443	2,399	1,067	131	375	1,812	6,107
	St. Mary's County	15,572	1,549	2,260	11,626	5,048	631	1,815	8,797	27,159
	Somerset County	2,003	177	220	1,138	494	61	175	882	3,087
	Talbot County	2,694	237	307	1,560	670	83	238	1,218	4,236
Washington County	24,278	2,403	3,343	17,693	7,882	967	2,784	13,487	43,120	
Wicomico County	5,678	514	701	3,548	1,524	189	544	2,750	9,235	
Worcester County	3,572	322	435	2,203	946	118	338	1,711	5,782	
Baltimore city	1,996	235	302	1,753	808	99	286	1,238	3,416	
Total Maryland		302,810	30,561	44,157	230,378	101,318	12,567	36,193	174,015	538,435
Massachusetts	Barnstable County	24,685	2,524	3,953	20,097	8,730	1,090	3,145	15,299	46,448
	Berkshire County	38,695	4,493	5,439	32,779	16,039	1,897	5,480	23,126	72,387
	Bristol County	33,639	3,364	5,435	27,059	11,614	1,457	4,204	20,811	63,806
	Dukes County	3,738	325	469	2,315	999	122	353	1,868	6,609
	Essex County	46,096	4,539	7,620	37,145	15,737	1,985	5,731	28,814	88,573
	Franklin County	34,202	3,234	3,998	22,539	10,892	1,258	3,637	17,671	65,528
	Hampden County	58,883	7,476	9,240	56,162	27,352	3,278	9,467	38,195	109,495
Hampshire County	45,414	5,482	6,381	39,695	19,702	2,323	6,707	27,442	84,273	

State	County	Benzo(a)pyrene (g/yr)	Naphthalene (kg/yr)	1,3-Butadiene (kg/yr)	Formaldehyde (kg/yr)	Acetaldehyde (kg/yr)	Acrolein (kg/yr)	Cresols (kg/yr)	PCB _{TEQ} (ng/yr)	Dioxin _{TEQ} (ug/yr)
	Middlesex County	84,465	9,424	14,388	75,902	34,135	4,219	12,199	55,419	163,751
	Nantucket County	1,730	158	245	1,197	512	64	183	950	3,169
	Norfolk County	32,598	3,181	5,668	26,899	11,193	1,425	4,118	21,029	64,133
	Plymouth County	28,860	2,806	4,536	22,358	9,551	1,197	3,455	17,368	54,429
	Suffolk County	2,100	258	377	2,091	947	118	339	1,493	3,988
	Worcester County	115,002	14,237	17,101	105,107	51,672	6,142	17,738	72,079	213,934
	Total Massachusetts	550,108	61,501	84,850	471,344	219,075	26,573	76,756	341,564	1,040,524
New Hampshire	Belknap County	16,637	1,558	2,037	11,116	5,259	614	1,776	8,774	32,059
	Carroll County	22,259	2,016	2,429	13,689	6,660	760	2,197	10,992	42,594
	Cheshire County	33,827	3,171	3,824	21,759	10,584	1,216	3,514	17,119	64,401
	Coos County	12,575	1,184	1,466	8,236	3,968	459	1,326	6,465	23,970
	Grafton County	38,712	3,617	4,370	24,814	12,058	1,386	4,004	19,556	73,696
	Hillsborough County	70,872	8,523	10,209	62,413	30,658	3,634	10,494	43,329	131,818
	Merrimack County	37,207	3,472	4,454	24,513	11,671	1,357	3,923	19,375	71,504
	Rockingham County	50,373	5,234	6,818	38,380	18,242	2,161	6,245	28,690	96,101
	Strafford County	24,528	2,834	3,455	20,719	10,108	1,197	3,457	14,666	45,937
	Sullivan County	19,697	1,844	2,243	12,701	6,161	709	2,049	10,004	37,565
	Total New Hampshire	326,687	33,453	41,306	238,340	115,368	13,493	38,986	178,970	619,646
New Jersey	Atlantic County	8,480	894	1,229	6,635	2,954	366	1,054	4,890	14,568
	Bergen County	39,469	3,952	7,161	34,055	14,162	1,809	5,228	26,451	78,772
	Burlington County	10,908	1,127	1,700	8,761	3,809	477	1,374	6,582	19,663
	Camden County	15,585	1,576	2,761	13,316	5,592	711	2,056	10,243	30,518
	Cape May County	5,573	583	784	4,259	1,901	235	676	3,135	9,417
	Cumberland County	4,932	505	728	3,809	1,668	208	599	2,850	8,619
	Essex County	14,222	1,425	2,566	12,222	5,099	650	1,880	9,460	28,291
	Gloucester County	6,319	644	975	4,993	2,163	271	781	3,767	11,355
	Hudson County	2,062	285	378	2,259	1,066	131	377	1,526	3,826
	Hunterdon County	8,434	766	1,282	6,074	2,536	319	922	4,851	15,866
	Mercer County	6,745	670	1,165	5,603	2,344	298	862	4,338	13,056
	Middlesex County	13,605	1,463	2,394	12,126	5,228	659	1,903	9,109	26,203
	Monmouth County	12,469	1,238	2,128	10,276	4,309	548	1,581	7,946	23,960
	Morris County	16,475	1,586	2,734	13,086	5,479	694	2,004	10,253	31,808
	Ocean County	14,317	1,473	2,308	11,700	5,043	634	1,828	8,847	26,378

State	County	Benzo(a)pyrene (g/yr)	Naphthalene (kg/yr)	1,3-Butadiene (kg/yr)	Formaldehyde (kg/yr)	Acetaldehyde (kg/yr)	Acrolein (kg/yr)	Cresols (kg/yr)	PCB _{TEQ} (ng/yr)	Dioxin _{TEQ} (ug/yr)
	Passaic County	15,371	1,474	2,705	12,620	5,192	664	1,920	9,946	30,491
	Salem County	3,211	315	451	2,321	1,007	126	362	1,761	5,510
	Somerset County	9,493	909	1,631	7,672	3,175	404	1,169	6,041	18,637
	Sussex County	13,962	1,277	1,924	9,531	4,099	508	1,463	7,539	25,209
	Union County	15,389	1,492	2,765	12,888	5,300	679	1,964	10,119	30,754
	Warren County	10,282	969	1,521	7,503	3,211	400	1,155	5,883	19,004
	Total New Jersey	247,305	24,624	41,291	201,708	85,336	10,792	31,158	155,535	471,904
New York	Albany County	32,428	3,794	5,174	29,257	13,742	1,665	4,813	20,767	61,666
	Allegany County	26,031	2,296	2,883	15,773	7,564	866	2,505	12,883	50,309
	Bronx County	1,969	191	319	1,539	645	82	236	1,194	3,684
	Broome County	40,349	4,392	5,914	33,099	15,580	1,869	5,400	24,240	77,079
	Cattaraugus County	39,643	3,561	4,578	24,872	11,823	1,366	3,950	20,091	76,522
	Cayuga County	26,966	2,789	3,642	20,452	9,719	1,151	3,326	15,326	51,570
	Chautauqua County	47,067	4,884	6,362	35,801	17,024	2,016	5,826	26,775	89,888
	Chemung County	23,566	2,534	3,440	19,117	8,969	1,076	3,110	14,086	45,114
	Chenango County	26,253	2,396	2,907	16,374	7,959	910	2,631	13,096	50,376
	Clinton County	21,852	2,069	2,684	14,762	7,013	819	2,367	11,584	42,129
	Columbia County	16,686	1,549	2,054	11,097	5,222	611	1,766	8,807	32,260
	Cortland County	16,932	1,561	2,072	11,167	5,251	614	1,775	8,893	32,740
	Delaware County	28,765	2,630	3,125	17,796	8,708	992	2,868	14,207	54,970
	Dutchess County	32,460	3,779	4,785	28,158	13,582	1,620	4,680	19,925	61,261
	Erie County	120,528	11,810	19,987	97,276	41,738	5,215	15,089	75,604	238,893
	Essex County	15,575	1,454	1,791	10,076	4,875	561	1,623	7,960	29,894
	Franklin County	22,030	2,095	2,528	14,460	7,049	811	2,344	11,292	42,068
	Fulton County	18,214	1,685	2,238	12,074	5,679	664	1,920	9,597	35,224
	Genesee County	12,874	1,211	1,744	9,071	4,139	495	1,430	7,158	25,065
	Greene County	15,071	1,407	1,799	9,923	4,736	550	1,590	7,846	29,035
	Hamilton County	4,301	389	452	2,596	1,281	145	419	2,084	8,202
	Herkimer County	25,257	2,685	3,377	19,491	9,393	1,108	3,200	14,376	47,926
	Jefferson County	33,429	3,083	3,983	21,785	10,360	1,203	3,477	17,349	64,621
	Kings County	3,808	366	603	2,919	1,225	155	448	2,267	7,046
	Lewis County	28,479	2,624	2,952	17,366	8,667	977	2,824	13,790	54,138
	Livingston County	19,066	1,805	2,381	12,981	6,128	718	2,076	10,189	36,797

State	County	Benzo(a)pyrene (g/yr)	Naphthalene (kg/yr)	1,3-Butadiene (kg/yr)	Formaldehyde (kg/yr)	Acetaldehyde (kg/yr)	Acrolein (kg/yr)	Cresols (kg/yr)	PCB _{TEQ} (ng/yr)	Dioxin _{TEQ} (ug/yr)
	Madison County	24,114	2,524	3,213	18,356	8,809	1,039	3,002	13,657	45,956
	Monroe County	73,054	7,288	12,010	59,452	25,814	3,210	9,287	45,786	144,179
	Montgomery County	14,915	1,610	2,082	11,884	5,674	674	1,948	8,714	28,358
	Nassau County	5,653	1,031	981	7,578	3,899	467	1,339	4,592	9,129
	New York County	3,230	313	523	2,524	1,059	134	387	1,959	6,042
	Niagara County	28,124	2,803	4,415	22,323	9,865	1,213	3,510	17,169	55,163
	Oneida County	54,000	5,834	7,608	43,238	20,582	2,450	7,080	31,715	102,803
	Onondaga County	53,537	6,051	8,333	46,508	21,744	2,631	7,604	33,533	102,246
	Ontario County	33,585	2,891	4,778	22,702	9,757	1,191	3,448	18,812	66,884
	Orange County	23,222	2,418	3,377	18,354	8,522	1,024	2,960	13,762	44,870
	Orleans County	11,555	1,096	1,470	7,945	3,726	438	1,268	6,231	22,309
	Oswego County	43,491	4,428	5,635	31,953	15,320	1,800	5,202	24,109	83,082
	Otsego County	28,573	2,628	3,227	18,107	8,766	1,006	2,909	14,423	54,886
	Putnam County	11,371	1,229	1,615	9,148	4,346	518	1,497	6,717	21,729
	Queens County	3,072	304	529	2,539	1,062	135	390	1,966	5,937
	Rensselaer County	42,277	4,799	5,926	35,133	17,073	2,021	5,840	25,093	79,605
	Richmond County	664	65	110	531	223	28	82	412	1,259
	Rockland County	7,239	809	1,232	6,511	2,931	362	1,047	4,751	14,036
	St. Lawrence County	47,236	4,355	5,330	29,966	14,519	1,667	4,818	23,825	90,553
	Saratoga County	54,701	6,104	7,729	45,031	21,701	2,575	7,442	32,493	103,750
	Schenectady County	18,583	2,101	3,028	16,503	7,588	927	2,680	11,935	35,710
	Schoharie County	19,044	2,023	2,374	14,243	7,035	818	2,362	10,472	35,909
	Schuyler County	9,305	840	1,043	5,782	2,787	320	924	4,659	17,934
	Seneca County	6,759	615	897	4,595	2,086	249	719	3,698	13,275
	Steuben County	41,354	3,702	4,843	26,062	12,315	1,427	4,127	21,108	80,121
	Suffolk County	33,297	3,775	5,684	30,305	13,441	1,679	4,839	22,149	62,170
	Sullivan County	20,533	1,910	2,485	13,567	6,432	749	2,166	10,751	39,627
	Tioga County	24,006	2,527	3,106	18,114	8,801	1,031	2,980	13,412	45,527
	Tompkins County	28,602	2,645	3,620	19,231	8,948	1,053	3,046	15,309	55,589
	Ulster County	39,440	3,735	4,941	26,901	12,690	1,488	4,301	21,120	76,214
	Warren County	26,561	2,949	3,633	21,456	10,434	1,231	3,557	15,486	50,170
	Washington County	34,469	3,674	4,369	26,040	12,804	1,493	4,312	19,133	65,104
	Wayne County	28,704	2,678	3,574	19,277	9,052	1,061	3,069	15,255	55,500

State	County	Benzo(a)pyrene (g/yr)	Naphthalene (kg/yr)	1,3-Butadiene (kg/yr)	Formaldehyde (kg/yr)	Acetaldehyde (kg/yr)	Acrolein (kg/yr)	Cresols (kg/yr)	PCB _{TEQ} (ng/yr)	Dioxin _{TEQ} (ug/yr)
	Westchester County	50,695	5,205	9,060	44,007	18,729	2,368	6,851	33,521	100,680
	Wyoming County	16,693	1,500	1,929	10,480	4,981	576	1,665	8,465	32,229
	Yates County	10,224	922	1,165	6,393	3,059	352	1,019	5,153	19,706
	Total New York	1,671,477	168,419	229,647	1,252,019	584,645	69,664	201,367	952,729	3,216,717
Pennsylvania	Adams County	20,789	1,803	2,629	12,925	5,569	683	1,968	10,444	36,958
	Allegheny County	67,577	6,893	11,909	58,048	24,540	3,111	8,988	44,600	132,618
	Armstrong County	7,868	688	1,159	5,397	2,234	281	812	4,376	14,735
	Beaver County	16,508	1,549	2,624	12,528	5,251	662	1,913	9,889	31,474
	Bedford County	19,755	1,697	2,242	11,429	5,044	609	1,752	9,219	33,791
	Berks County	19,396	2,067	2,557	14,527	6,638	814	2,337	10,490	31,570
	Blair County	16,624	1,596	2,481	12,370	5,330	664	1,915	9,619	30,747
	Bradford County	30,015	2,740	3,409	18,950	9,132	1,050	3,035	15,169	57,832
	Bucks County	19,384	2,059	2,856	15,397	6,863	851	2,449	11,321	33,631
	Butler County	19,015	1,742	2,813	13,568	5,741	718	2,072	10,777	35,426
	Cambria County	13,175	1,246	2,054	9,939	4,202	528	1,524	7,807	24,877
	Cameron County	2,355	216	288	1,546	726	85	245	1,235	4,555
	Carbon County	6,170	581	964	4,644	1,959	246	711	3,657	11,684
	Centre County	34,580	4,065	4,836	29,544	14,567	1,718	4,962	20,718	64,758
	Chester County	16,520	1,693	2,258	12,205	5,444	673	1,934	9,028	27,725
	Clarion County	9,112	801	1,153	5,880	2,675	316	915	4,814	17,833
	Clearfield County	12,328	1,143	1,761	8,832	3,925	476	1,376	7,034	24,251
	Clinton County	11,084	1,057	1,380	7,576	3,591	420	1,215	5,922	21,355
	Columbia County	10,730	1,025	1,542	7,783	3,382	419	1,207	6,050	19,589
	Crawford County	40,074	3,591	4,629	25,111	11,934	1,379	3,986	20,325	77,561
	Cumberland County	28,618	2,857	4,229	21,846	9,605	1,188	3,425	16,686	52,388
	Dauphin County	10,580	1,185	1,516	8,643	3,958	487	1,399	6,178	17,814
	Delaware County	11,003	1,294	1,959	10,550	4,706	588	1,694	7,640	20,912
	Elk County	8,180	737	1,068	5,472	2,486	296	855	4,418	15,990
	Erie County	44,792	4,912	6,635	37,158	17,485	2,099	6,068	27,130	85,672
	Fayette County	16,759	1,542	2,455	11,923	5,064	632	1,824	9,442	31,023
	Forest County	3,285	286	353	1,940	937	107	308	1,598	6,356
	Franklin County	30,552	2,688	3,789	19,005	8,285	1,011	2,913	15,223	53,711
	Fulton County	9,287	790	999	5,164	2,303	276	793	4,178	15,652

State	County	Benzo(a)pyrene (g/yr)	Naphthalene (kg/yr)	1,3-Butadiene (kg/yr)	Formaldehyde (kg/yr)	Acetaldehyde (kg/yr)	Acrolein (kg/yr)	Cresols (kg/yr)	PCB _{TEQ} (ng/yr)	Dioxin _{TEQ} (ug/yr)
	Greene County	6,271	541	831	3,988	1,689	209	603	3,237	11,314
	Huntingdon County	16,589	1,435	1,925	9,786	4,310	521	1,501	7,873	28,565
	Indiana County	12,413	1,080	1,700	8,109	3,418	425	1,226	6,565	22,630
	Jefferson County	7,286	628	981	4,672	1,969	244	705	3,797	13,224
	Juniata County	10,904	935	1,212	6,222	2,760	332	955	5,020	18,540
	Lackawanna County	21,457	2,267	3,505	18,144	8,102	999	2,888	13,576	41,844
	Lancaster County	32,399	3,594	4,125	24,673	11,539	1,404	4,027	17,385	51,161
	Lawrence County	10,202	903	1,523	7,123	2,955	372	1,074	5,748	19,167
	Lebanon County	7,693	812	1,023	5,738	2,605	320	919	4,169	12,610
	Lehigh County	24,231	2,559	3,821	20,049	8,866	1,100	3,172	15,026	45,012
	Luzerne County	29,429	3,276	4,610	25,343	11,750	1,426	4,122	18,422	56,440
	Lycoming County	27,579	2,701	3,768	19,834	8,829	1,082	3,116	15,175	49,066
	McKean County	12,794	1,126	1,581	8,163	3,750	441	1,275	6,679	24,984
	Mercer County	26,946	2,758	3,735	20,525	9,625	1,147	3,315	15,488	51,840
	Mifflin County	17,126	1,494	2,038	10,325	4,532	550	1,584	8,283	29,684
	Monroe County	31,456	3,011	3,965	21,750	10,312	1,207	3,490	17,008	61,154
	Montgomery County	39,681	3,772	6,720	31,510	12,986	1,659	4,794	24,776	76,583
	Montour County	2,960	260	396	1,921	819	101	292	1,546	5,340
	Northampton County	20,136	2,054	3,128	16,083	7,040	875	2,524	12,221	37,457
	Northumberland County	10,430	935	1,565	7,377	3,075	387	1,117	5,921	19,588
	Perry County	16,996	1,576	2,154	11,199	4,970	605	1,743	8,747	29,774
	Philadelphia County	11,364	1,200	1,994	9,969	4,271	540	1,558	7,532	21,932
	Pike County	20,421	2,107	2,639	15,186	7,349	860	2,486	11,395	39,239
	Potter County	10,813	934	1,168	6,359	3,053	348	1,006	5,263	20,953
	Schuylkill County	10,544	953	1,658	7,727	3,192	404	1,168	6,197	20,154
	Snyder County	10,097	874	1,211	6,075	2,652	323	929	4,896	17,590
	Somerset County	14,353	1,328	1,991	9,934	4,295	531	1,531	7,817	25,991
	Sullivan County	4,379	402	467	2,699	1,333	151	437	2,151	8,378
	Susquehanna County	24,194	2,230	2,661	15,173	7,425	847	2,449	12,065	46,361
	Tioga County	22,371	1,954	2,478	13,450	6,429	736	2,129	11,054	43,367
	Union County	7,492	665	967	4,806	2,081	255	736	3,841	13,329
	Venango County	19,444	1,735	2,369	12,460	5,790	678	1,960	10,111	37,816
	Warren County	20,472	1,820	2,402	12,834	6,039	701	2,027	10,435	39,679

State	County	Benzo(a)pyrene (g/yr)	Naphthalene (kg/yr)	1,3-Butadiene (kg/yr)	Formaldehyde (kg/yr)	Acetaldehyde (kg/yr)	Acrolein (kg/yr)	Cresols (kg/yr)	PCB _{TEQ} (ng/yr)	Dioxin _{TEQ} (ug/yr)
	Washington County	21,947	2,030	3,308	15,952	6,741	845	2,438	12,630	41,087
	Wayne County	20,292	1,858	2,308	12,862	6,208	713	2,062	10,283	39,159
	Westmoreland County	54,538	5,035	9,001	41,845	17,226	2,191	6,335	33,356	105,992
	Wyoming County	12,601	1,319	1,605	9,401	4,585	536	1,548	6,978	23,911
	York County	52,229	5,076	7,465	38,295	16,797	2,073	5,976	29,527	94,896
	Total Pennsylvania	1,278,639	123,778	178,548	927,462	414,939	50,520	145,809	717,178	2,378,301
Rhode Island	Bristol County	5,059	500	865	4,169	1,753	222	642	3,238	9,867
	Kent County	17,720	1,725	2,870	13,986	5,933	747	2,156	10,882	33,870
	Newport County	9,087	840	1,460	6,861	2,848	361	1,042	5,458	17,475
	Providence County	39,385	3,856	6,478	31,507	13,343	1,682	4,858	24,486	75,689
	Washington County	19,878	1,846	2,693	13,624	5,950	732	2,109	10,691	35,785
	Total Rhode Island	91,129	8,766	14,365	70,147	29,827	3,743	10,806	54,755	172,686
District of Columbia	District of Columbia	4,320	695	760	5,264	2,608	316	906	3,369	7,411
	Total D.C.	4,320	695	760	5,264	2,608	316	906	3,369	7,411
Vermont	Addison County	22,489	2,078	2,619	14,507	6,952	804	2,324	11,524	43,192
	Bennington County	15,731	1,497	1,989	10,807	5,082	597	1,727	8,456	30,279
	Caledonia County	22,279	2,042	2,517	14,068	6,792	781	2,256	11,221	42,695
	Chittenden County	40,481	4,271	5,739	31,908	15,010	1,793	5,182	23,709	77,453
	Essex County	5,078	462	566	3,167	1,533	176	508	2,537	9,737
	Franklin County	21,460	1,949	2,469	13,566	6,487	749	2,164	10,892	41,359
	Grand Isle County	4,580	470	655	3,550	1,647	198	571	2,681	8,853
	Lamoille County	16,024	1,461	1,830	10,134	4,869	561	1,621	8,116	30,858
	Orange County	25,376	2,261	2,681	15,159	7,421	841	2,431	12,297	48,649
	Orleans County	25,005	2,292	2,792	15,703	7,616	873	2,523	12,527	47,906
	Rutland County	29,865	2,843	3,758	20,479	9,648	1,133	3,276	16,015	57,420
	Washington County	33,870	3,178	4,073	22,465	10,705	1,245	3,600	17,703	65,095
	Windham County	35,909	3,308	4,087	22,836	11,013	1,268	3,664	18,159	68,723
	Windsor County	35,644	3,309	4,220	23,258	11,095	1,288	3,722	18,430	68,470
	Total Vermont	333,791	31,422	39,995	221,608	105,869	12,305	35,569	174,266	640,690
Total MANE-VU		5,621,995	565,318	784,660	4,220,886	1,939,842	233,494	674,333	3,210,444	#####

HDD Range	HDD	Benzo(a)pyrene (g/yr)	Naphthalene (kg/yr)	1,3-Butadiene (kg/yr)	Formaldehyde (kg/yr)	Acetaldehyde (kg/yr)	Acrolein (kg/yr)	Cresols (kg/yr)	PCB _{TEQ} (ng/yr)	Dioxin _{TEQ} (ug/yr)
> 6500	High	3,715,118	375,359	491,111	2,737,082	1,297,804	153,322	443,137	2,074,818	7,108,898
5500-6499	Med.	1,303,068	125,554	200,605	990,161	423,788	52,991	152,931	770,844	2,441,095
< 5499	Low	603,809	64,405	92,944	493,643	218,250	27,181	78,265	364,782	1,073,127

Table 4.2
Emission Inventory Summary (2002 Base Year)

State	County	Methane (kg/yr)	VOC (kg/yr)
Connecticut	Fairfield County	1,130,324	687,431
	Hartford County	1,941,230	1,171,588
	Litchfield County	819,496	501,559
	Middlesex County	455,650	275,335
	New Haven County	1,402,639	867,558
	New London County	670,563	414,639
	Tolland County	690,343	436,729
	Windham County	745,983	488,416
	Total Connecticut		7,856,227
Delaware	Kent County	185,785	122,568
	New Castle County	428,256	308,960
	Sussex County	224,402	143,773
Total Delaware		838,443	575,301
Maine	Androscoggin County	731,689	472,910
	Aroostook County	625,884	383,686
	Cumberland County	1,177,511	766,497
	Franklin County	342,427	210,870
	Hancock County	533,589	323,119
	Kennebec County	856,398	523,737
	Knox County	380,351	231,241
	Lincoln County	334,883	202,381
	Oxford County	572,835	351,350
	Penobscot County	978,095	599,445
	Piscataquis County	204,251	125,445
	Sagadahoc County	312,799	189,943
	Somerset County	514,544	317,166
	Waldo County	466,707	285,321
	Washington County	288,221	175,871
	York County	918,640	561,313
Total Maine		9,238,822	5,720,296

State	County	Methane (kg/yr)	VOC (kg/yr)
Maryland	Allegany County	407,990	249,150
	Anne Arundel County	872,078	539,642
	Baltimore County	868,049	525,384
	Calvert County	138,591	87,028
	Caroline County	55,845	33,929
	Carroll County	249,306	156,368
	Cecil County	133,803	83,573
	Charles County	155,825	98,094
	Dorchester County	34,305	20,520
	Frederick County	313,671	199,186
	Garrett County	342,436	209,139
	Harford County	264,469	165,070
	Howard County	203,447	126,105
	Kent County	29,798	17,995
	Montgomery County	657,167	408,899
	Prince George's County	1,068,681	661,635
	Queen Anne's County	71,632	44,334
	St. Mary's County	361,927	222,681
	Somerset County	35,822	21,724
	Talbot County	50,121	30,220
Washington County	542,183	334,173	
Wicomico County	113,660	68,810	
Worcester County	70,650	42,732	
	Baltimore city	47,212	30,759
Total Maryland		7,088,670	4,377,153
Massachusetts	Barnstable County	634,594	389,191
	Berkshire County	857,413	562,378
	Bristol County	874,423	531,981
	Dukes County	77,861	46,198
	Essex County	1,227,240	741,395
	Franklin County	673,847	413,901
	Hampden County	1,416,900	949,349
	Hampshire County	996,423	665,076

State	County	Methane (kg/yr)	VOC (kg/yr)
	Middlesex County	2,260,496	1,421,370
	Nantucket County	40,042	23,931
	Norfolk County	911,988	546,991
	Plymouth County	733,179	443,239
	Suffolk County	58,886	37,863
	Worcester County	2,646,071	1,769,353
Total Massachusetts		13,409,364	8,542,216
New Hampshire	Belknap County	342,041	208,391
	Carroll County	417,118	253,177
	Cheshire County	647,891	397,799
	Coos County	247,100	151,588
	Grafton County	741,062	454,448
	Hillsborough County	1,593,616	1,057,417
	Merrimack County	750,492	457,496
	Rockingham County	1,106,938	696,016
	Strafford County	545,534	356,856
	Sullivan County	379,846	232,927
Total New Hampshire		6,771,638	4,266,115
New Jersey	Atlantic County	195,246	122,689
	Bergen County	1,147,767	690,832
	Burlington County	271,039	167,517
	Camden County	441,007	267,005
	Cape May County	124,618	78,405
	Cumberland County	116,116	72,038
	Essex County	410,455	247,391
	Gloucester County	155,699	95,919
	Hudson County	57,476	38,591
	Hunterdon County	209,178	124,144
	Mercer County	186,791	112,718
	Middlesex County	380,410	234,729
	Monmouth County	341,234	206,131
	Morris County	441,450	264,775
	Ocean County	368,419	226,456

State	County	Methane (kg/yr)	VOC (kg/yr)
	Passaic County	435,879	259,871
	Salem County	72,404	44,471
	Somerset County	263,141	157,118
	Sussex County	315,225	188,970
	Union County	444,341	265,311
	Warren County	247,498	148,948
	Total New Jersey	6,625,393	4,014,029
New York	Albany County	808,098	521,787
	Allegany County	497,418	298,208
	Bronx County	51,206	30,863
	Broome County	943,813	598,884
	Cattaraugus County	781,472	470,549
	Cayuga County	592,058	371,664
	Chautauqua County	1,033,230	649,454
	Chemung County	550,702	347,945
	Chenango County	497,591	302,597
	Clinton County	449,706	275,085
	Columbia County	345,446	209,606
	Cortland County	349,147	211,420
	Delaware County	535,768	326,610
	Dutchess County	752,139	490,250
	Erie County	3,222,624	1,944,192
	Essex County	303,476	185,660
	Franklin County	426,412	263,020
	Fulton County	376,724	228,358
	Genesee County	289,045	174,888
	Greene County	303,366	184,975
	Hamilton County	77,987	47,475
	Herkimer County	545,859	347,046
	Jefferson County	673,863	408,953
	Kings County	97,041	58,468
	Lewis County	508,684	312,434
	Livingston County	398,081	243,149

State	County	Methane (kg/yr)	VOC (kg/yr)
	Madison County	521,621	329,604
	Monroe County	1,931,904	1,173,213
	Montgomery County	334,106	212,625
	Nassau County	142,067	109,274
	New York County	83,993	50,624
	Niagara County	713,161	434,749
	Oneida County	1,220,074	775,709
	Onondaga County	1,313,382	839,388
	Ontario County	800,800	468,341
	Orange County	544,835	340,062
	Orleans County	244,980	149,502
	Oswego County	923,214	578,530
	Otsego County	550,030	334,980
	Putnam County	259,061	164,526
	Queens County	84,740	51,115
	Rensselaer County	939,932	610,577
	Richmond County	17,692	10,667
	Rockland County	193,588	121,801
	St. Lawrence County	907,508	553,353
	Saratoga County	1,230,965	792,812
	Schenectady County	475,859	302,339
	Schoharie County	386,464	247,838
	Schuyler County	178,743	108,066
	Seneca County	150,260	89,914
	Steuben County	826,196	496,221
	Suffolk County	895,705	564,732
	Sullivan County	418,605	254,568
	Tioga County	504,905	320,971
	Tompkins County	607,375	367,129
	Ulster County	825,852	504,298
	Warren County	580,515	374,793
	Washington County	709,725	454,763
	Wayne County	599,510	364,165

State	County	Methane (kg/yr)	VOC (kg/yr)
	Westchester County	1,439,728	875,952
	Wyoming County	329,317	198,293
	Yates County	199,114	120,182
Total New York		37,496,483	23,249,214
Pennsylvania	Adams County	436,409	258,630
	Allegheny County	1,905,592	1,156,570
	Armstrong County	190,198	111,838
	Beaver County	425,523	254,207
	Bedford County	375,187	223,431
	Berks County	404,589	258,946
	Blair County	402,346	243,458
	Bradford County	581,695	352,946
	Bucks County	452,836	284,795
	Butler County	459,212	273,853
	Cambria County	333,011	199,735
	Cameron County	48,579	29,361
	Carbon County	156,388	93,633
	Centre County	760,935	502,132
	Chester County	359,777	225,501
	Clarion County	195,311	115,877
	Clearfield County	291,096	174,483
	Clinton County	230,357	141,135
	Columbia County	250,782	152,015
	Crawford County	791,164	475,840
	Cumberland County	682,990	419,069
	Dauphin County	238,303	153,572
	Delaware County	307,398	195,109
	Elk County	179,356	107,144
	Erie County	1,056,672	671,589
	Fayette County	400,667	239,466
	Forest County	61,388	36,677
	Franklin County	628,263	374,815
	Fulton County	168,073	100,112

State	County	Methane (kg/yr)	VOC (kg/yr)
	Greene County	137,561	81,110
	Huntingdon County	321,244	191,510
	Indiana County	280,429	165,449
	Jefferson County	162,169	95,478
	Juniata County	203,145	121,073
	Lackawanna County	558,212	345,892
	Lancaster County	647,595	424,014
	Lawrence County	249,436	147,074
	Lebanon County	162,179	103,231
	Lehigh County	611,047	379,471
	Luzerne County	728,543	462,476
	Lycoming County	611,935	376,096
	McKean County	268,651	159,682
	Mercer County	607,192	378,486
	Mifflin County	339,171	202,417
	Monroe County	662,084	405,615
	Montgomery County	1,082,179	645,959
	Montour County	65,304	38,717
	Northampton County	502,790	309,128
	Northumberland County	255,857	151,395
	Perry County	353,941	214,851
	Philadelphia County	317,199	194,737
	Pike County	432,185	272,303
	Potter County	203,332	121,048
	Schuylkill County	270,183	159,728
	Snyder County	201,673	119,941
	Somerset County	325,607	195,872
	Sullivan County	80,318	49,114
	Susquehanna County	454,929	277,961
	Tioga County	428,625	255,940
	Union County	159,655	95,265
	Venango County	402,134	240,541
	Warren County	410,218	245,670

State	County	Methane (kg/yr)	VOC (kg/yr)
	Washington County	538,880	321,844
	Wayne County	393,748	239,153
	Westmoreland County	1,460,030	865,393
	Wyoming County	261,741	166,302
	York County	1,211,611	739,124
Total Pennsylvania		29,136,827	17,785,003
Rhode Island	Bristol County	139,058	83,829
	Kent County	463,117	279,332
	Newport County	237,084	140,844
	Providence County	1,044,086	629,961
	Washington County	441,007	266,163
Total Rhode Island		2,324,351	1,400,128
District of Columbia	District of Columbia	113,559	81,713
Total D.C.		113,559	81,713
Vermont	Addison County	443,825	270,144
	Bennington County	331,402	202,609
	Caledonia County	428,927	260,893
	Chittenden County	924,679	581,887
	Essex County	96,770	58,756
	Franklin County	420,854	254,563
	Grand Isle County	106,230	66,039
	Lamoille County	312,020	189,175
	Orange County	464,453	280,645
	Orleans County	476,679	290,187
	Rutland County	626,396	383,240
	Washington County	685,108	418,383
	Windham County	694,705	423,160
	Windsor County	712,757	434,037
Total Vermont		6,724,805	4,113,719
Total MANE-VU		127,624,584	78,968,142

HDD Range	HDD	Methane (kg/yr)	VOC (kg/yr)
> 6500	High	80,397,177	50,118,238
5500-6499	Med.	32,481,861	19,618,515
< 5499	Low	14,745,546	9,231,389