

Appendix B

MACT Source Categories in the 1999 Nonpoint Source NEI

Table B-1

MACT Source Categories Included In The 1999 NEI Nonpoint Source Inventory

Category Name (MACT Code)	Base Year^a	Reference	Notes	Included in Appendix A
Animal Cremation (1807-2)	1999	National activity data from ESD; Emission factors from CARB, EFIG, and USEPA FIRE database.	National estimates were developed by multiplying national activity data by the corresponding emission factors. National activity data provided by ESD for 1990 were scaled up to 1999 using population data.	✓
Asphalt Roofing Manufacturing (0403)	1996	National estimates from ESD.	Estimates were retrieved from 1996 Area NTI.	
Aviation Gas Distribution: Stage I (0601)	1999	National activity data from EIA; emission factors from ESD and L&E documents.	National estimates were developed by multiplying activity data by the corresponding emission factors.	✓
Chromic Acid Anodizing (1607)	1999	National estimates from ESD in 58 FR 65768 adjusted to 1999 levels.	National estimates were multiplied by the percent of area sources (95%). Emission reductions due to a promulgated rule were taken into account.	✓
Decorative Chromium Electroplating (1610)	1999	National 1990 emission estimates have been adjusted to 1999 levels. Estimates reflect the implementation of the applicable standard from ESD in 58 FR 65768.	National estimates were multiplied by the percent of area sources (95%). Emission reductions due to a promulgated rule were taken into account.	✓

Table B-1

MACT Source Categories Included In The 1999 NEI Nonpoint Source Inventory (Continued)

Category Name (MACT Code)	Base Year^a	Reference	Notes	Included in Appendix A
Flexible Polyurethane Foam Fabrication Operations (1341)	1993	National estimates provided by ESD for the draft MACT baseline inventory.	Estimates were retrieved from the 1996 Area NTI.	
Flexible Polyurethane Foam Production (1314)	1993	National estimates provided by ESD for the draft MACT baseline inventory. Emissions allocated evenly among facilities provided by ESD.	Estimates were retrieved from the 1996 Area NTI.	
Gasoline Distribution (Stage 1) (0601)	1999	National estimates provided by ESD for the draft MACT baseline inventory.	National estimates were provided by ESD under previous inventory effort. These estimates were multiplied by the percent of area sources (95%). Emissions attributed to Aviation Gasoline Distribution Stage I were removed.	✓
Halogenated Solvent Cleaners (1614)	1999	National estimates from ESD adjusted to 1999 levels.	Unspeciated national estimates provided by ESD were equally divided among a list of applicable HAPs also provided by ESD. HAPs to be phased out by January 1, 1996 according to the Montreal Protocol were not included. These are 1,1,1 trichloroethane and carbon tetrachloride. The area source component was 30 percent .	✓

Table B-1

MACT Source Categories Included In The 1999 NEI Nonpoint Source Inventory (Continued)

Category Name (MACT Code)	Base Year^a	Reference	Notes	Included in Appendix A
Hard Chromium Electroplating (1615)	1999	National estimates from ESD in 58 FR 65768.	National estimates were multiplied by the percent of area sources (95%). Emission reductions due to a promulgated rule were taken into account.	✓
Hospital Sterilizers (1644)	1999	Ethylene Oxide Industry Council (EOIC).	The EOIC provided total national ethylene oxide sales in tons.	✓
Human Cremation (1807-2)	1999	National activity data from ESD; Emission factors from CARB, ESD, and USEPA FIRE database.	National estimate were developed by multiplying national activity data by the corresponding emission factors. National activity data were provided by ESD and the Cremation Association of North America.	✓
Industrial Boilers: Distillate Oil (0107)	1999	1996 National-level estimates from ESD scaled for 1999 fuel consumption.	Emissions were retrieved from the 1996 Area NTI and were adjusted based on 1999 distillate oil consumption.	
Industrial Boilers: Natural Gas (0107)	1999	1999 National-level estimates from ESD scaled for 1999 fuel consumption.	Emissions were retrieved from the 1996 Area NTI and were adjusted based on 1999 natural gas consumption.	
Industrial Boilers: Residual Oil (0107)	1999	1999 National-level estimates from ESD scaled for 1999 fuel consumption.	Emissions were retrieved from the 1996 Area NTI and were adjusted based on 1999 residual oil consumption.	

Table B-1

MACT Source Categories Included In The 1999 NEI Nonpoint Source Inventory (Continued)

Category Name (MACT Code)	Base Year^a	Reference	Notes	Included in Appendix A
Industrial Boilers: Waste Oil (0107)	1994	National estimates from ESD.	Emissions were retrieved from the 1996 Area NTI and could not be adjusted for a 1999 base year.	
Institutional/Commercial Heating: Distillate Oil (0107)	1999	National activity data from EIA, emission factors from ESD.	ESD indicated a 100% area source component.	✓
Institutional/Commercial Heating: Natural Gas (0107)	1999	National activity data from EIA, emission factors from ESD.	ESD indicated a 100% area source component.	✓
Institutional/Commercial Heating: POTW Digester Gas (0107)	1996	1996 National estimates from ESD.	Estimates were retrieved from 1996 Area NTI, and could not be adjusted for 1999 base year.	
Institutional/Commercial Heating: Residual Oil (0107)	1999	National activity data from EIA, emission factors from ESD.	ESD indicated a 100% area source component.	✓
Miscellaneous Organic Chemical Processes (1641)	1995	1995 National estimates from ESD	Estimates were retrieved from the 1996 Area NTI, and could not be adjusted for 1999 base year. Note: This category is now split into two MACTs. However, at this time, there is not enough information to split this MACT. As MACT point source data becomes available, this category may be removed entirely or in part in future versions of this inventory.	

Table B-1

MACT Source Categories Included In The 1999 NEI Nonpoint Source Inventory (Continued)

Category Name (MACT Code)	Base Year^a	Reference	Notes	Included in Appendix A
Natural Gas Transmissions and Storage (0504)	1998	1998 National estimates from ESD.	Estimates were retrieved from the 1996 Area NTI, and could not be adjusted for 1999 base year.	
Oil and Natural Gas Production (0501)	1993	1993 National estimates from ESD.	Estimates were retrieved from the 1996 Area NTI, and could not be adjusted for 1999 base year.	
Paint Stripping Operations (1621)	1998	1998 National estimates from ESD.	Estimates were retrieved from the 1996 Area NTI, and could not be adjusted for 1999 base year.	
Perchloroethylene Dry Cleaning (1643)	1999	National consumption from Halogenated Solvents Industry Alliance.	National estimates (100% area) were reduced due to a promulgated MACT rule for Perchloroethylene Dry Cleaning.	✓
Publicly Owned Treatment Works (POTW) Emissions (0803)	1999	National 1999 activity data from EPA Office of Water	1999 national area estimates from ESD were scaled to 1999 estimates.	✓
Refractories Manufacturing (0406)	1996	1996 national estimates from ESD	Estimates were retrieved from the 1996 NTI, and could not be adjusted for 1999 base year.	

Table B-1

MACT Source Categories Included In The 1999 NEI Nonpoint Source Inventory (Continued)

Category Name (MACT Code)	Base Year^a	Reference	Notes	Included in Appendix A
Steel Pickling HCl Process	1991	National 1991 estimates for ESD	Estimates were retrieved from the 1996 NTI, and could not be adjusted for 1999 base year. Note: It is anticipated that this source category will be removed entirely or in part as MACT point source data become available in future versions of this inventory.	

^a For some source categories, the necessary activity or emissions data were not available to compile 1999 estimates.

Appendix C

Allocation Methods Used in the 1999 Nonpoint Source NEI for National-Level Emissions

This appendix briefly describes the methods (referred to as allocation schemes) used in the NEI to allocate national-level area source emissions to the county level. National-level emissions were assigned to individual counties using various surrogate approaches. Some examples of the surrogate approaches used include apportioning national-level emissions to counties based on population, apportioning emissions from some industrial sectors to counties based on Standard Industrial Classification (SIC) code employment estimates, and assigning emissions from forest fires to counties based on forested acres.

Table C-1 summarizes the allocation schemes used to allocate national-level area source emissions in the 1999 area source inventory. Table C-2 lists specific details for the allocation of emissions to individual counties for each source category with national-level emission estimates. SIC codes and groups used for allocation are listed in Table C-3. County-level source category records in the 1996 Area NTI which could not be updated for 1999 base year are listed in Table C-4. Figure C-1 depicts the approach used for each national-level allocation scheme.

Table C-1

**Summary of Allocation Schemes Used in the 1999 Nonpoint Source Inventory
for Source Categories with National-Level Emission Estimates**

Allocation Scheme Code	Original Emissions	Allocation Scheme Description
17	National	National emissions were allocated to counties based on county proportion of national SIC code group employment for 1999.
18	National	National emissions were allocated to counties based on county proportion of 1999 national population.
22	National	National emissions were allocated to counties according to county proportion of national emissions (various base year activity listed in Table C-2).
27	National	National emissions were allocated to state based on state proportion of national value. State emissions were then allocated to counties based on county proportion of state value (various base year activity listed in Table C-2).

Table C-2

**Description of Allocation Schemes (17, 18, 22, and 27) and Activity Data Used
in the 1999 Nonpoint Source Inventory for Source Categories
With National-Level Emission Estimates**

Source Category Name	Allocation Scheme	Activity Data or Other Information Used in Allocation Scheme
Animal Cremation	17	County proportion of national 1999 County Business Patterns (CBP) employment for SIC code 0750: Animal Services, Except Veterinary. ^a
Asphalt Paving: Cutback Asphalt	27	State proportion of 1999 federal highway funds used for pavement; county proportion of 1999 population. ^{b,c}
Autobody Refinishing Paint Application	17	County proportion of national 1999 CBP employment for SIC code 7532: Top & Body Repair & Paint Shops. ^a
Aviation Gasoline Distribution: Stage I	22	County proportion of landing and takeoffs (LTOs) from FAA for General Aviation. ^d
Aviation Gasoline Distribution: Stage II	22	County proportion of landing and takeoffs (LTOs) from FAA for General Aviation. ^d
Chromic Acid Anodizing Plating	17	County proportion of national 1999 CBP employment for SIC code 3471: Plating and polishing. ^a
Commercial and Consumer Product Usage-all subtypes	18	County proportion of national 1999 population estimate. ^c
Decorative Chromium Electroplating	17	County proportion of national 1999 CBP employment for SIC code 3471: Plating and polishing. ^a
Dental Preparation and Use	17	County proportion of national 1999 CBP employment for SIC code 8072: Dental Laboratories. ^a
Drum and Barrel Reclamation	22	National activity allocated evenly across a facility list obtained from the 112(c)(6) report. ^e
Fluorescent Lamp Recycling	18	County proportion of national 1999 population estimate. ^c
Gasoline Distribution Stage I	22	Bulk plants, bulk terminals, and pipeline processes allocated to the county proportion of national 1999 CBP employment for SIC code 5171: Petroleum bulk stations and terminals. ^a For the service station process, emissions were allocated by the county proportion of national 1999 vehicle miles traveled. ^f
Gasoline Distribution Stage II	22	County proportion of national 1999 vehicle miles traveled. ^f
General Laboratory Activities	18	County proportion of national 1999 population estimate. ^c
Grain Elevators	27	State proportion of 1999 survey of states with grain elevators; county proportion of state 1999 farm acreage. ^{g,h}

Table C-2

**Description of Allocation Schemes (17, 18, 22, and 27) and Activity Data Used
in the 1999 Nonpoint Source Inventory for Source Categories
With National-Level Emission Estimates (Continued)**

Source Category Name	Allocation Scheme	Activity Data or Other Information Used in Allocation Scheme
Graphic Arts	17	County proportion of national 1999 CBP employment for SIC code = 2754: Commercial Printing, Gravure. ^a
Halogenated Solvent Cleaners	17	County proportion of national 1999 CBP employment for SICGROUP=COMMIND. ^a
Hard Chromium Electroplating	17	County proportion of national 1999 CBP employment for SIC code 3471: Plating and polishing. ^a
Hospital Sterilization	27	State proportion of 1999 hospital beds; county proportion of state 1999 CBP employment for SIC codes 8060; Hospitals. ^{a,i}
Human Cremation	27	State proportion of 1999 number of cremations; county proportion of national 1999 population estimate. ^{c,j}
Institutional/Commercial Heating: Distillate Oil	17	County proportion of national 1999 CBP employment for SICGROUP=COMM. ^a
Institutional/Commercial Heating: Natural Gas	17	County proportion of national 1999 CBP employment for SICGROUP=COMM. ^a
Institutional/Commercial Heating: Residual Oil	17	County proportion of national 1999 CBP employment for SICGROUP=COMM. ^a
Lamp Breakage	18	County proportion of national 1999 population estimate. ^c
Open Burning: Forest and Wildfires	22	County-level records from EFIG for 1999 base year. Allocation to county-level using acreage data in Biogenic Emissions and Database Version 2 (BELD2).
Open Burning: Land Clearing Debris	22	County-level records from EFIG for 1999 base year. Allocation to county-level using acreage data in Biogenic Emissions and Database Version 2 (BELD2).
Open Burning: Prescribed Burnings	22	County-level records from EFIG for 1999 base year. Allocation to county-level using acreage data in Biogenic Emissions and Database Version 2 (BELD2).
Open Burning: Scrap Tires	22	County proportion of national 1999 population estimate ONLY for counties that reported tire fires in 1999. ^k
Open Burning: Residential, House Waste	22	County-level records from EFIG for 1999 base year. Allocation to county-level based on county proportion of national 1999 population estimate. ^c

Table C-2

**Description of Allocation Schemes (17, 18, 22, and 27) and Activity Data Used
in the 1999 Nonpoint Source Inventory for Source Categories
With National-Level Emission Estimates (Continued)**

Source Category Name	Allocation Scheme	Activity Data or Other Information Used in Allocation Scheme
Open Burning: Yard Waste, Brush Species Unspecified	22	County-level records from EFIG for 1999 base year. Allocation to county-level using acreage data in Biogenic Emissions and Database Version 2 (BELD2).
Open Burning: Yard Waste, Leaf Brush Unspecified	22	County-level records from EFIG for 1999 base year. Allocation to county-level using acreage data in Biogenic Emissions and Database Version 2 (BELD2).
Perchloroethylene (PERC) Dry Cleaning	17	County proportion of national 1999 CBP employment for SICGROUP=DRYCLEAN. ^a
Pesticide Application	22	State proportion of pesticide applied. County proportion of agricultural farm acreage land available from USDA. ^{h,l}
Publicly Owned Treatment Works (POTWs)	18	County proportion of national 1999 population estimate. ^c
Residential Heating: Anthracite Coal	27	County proportion of houses using anthracite coal for states reporting residential coal consumption. ^m
Residential Heating: Bituminous and Lignite Coal	27	County proportion of houses using bituminous coal for states reporting residential coal consumption. ^m
Residential Heating: Distillate Oil	27	County proportion of houses using distillate oil for states reporting residential distillate oil consumption. ^m
Residential Heating: Natural Gas	27	County proportion of houses using natural gas for states reporting natural gas consumption. ^m
Residential Heating: Wood/Wood Residue - all subtypes	22	County-level records from EFIG for the 1999 base year. Allocation based on amount of degree heating and cooling degree days by region in the U.S. See Appendix A for more details.
Structure Fires	18	County-level records from EFIG for the 1999 base year. Allocation based on number of structure fires by county. See Appendix A for more details.
Surface Coating Operations: Architectural	18	County proportion of national 1999 population estimate. ^c
Surface Coating Operations: Industrial Maintenance Coatings	17	County proportion of national 1999 CBP employment for SICGROUP=IND. ^a
Surface Coating Operations: Traffic Markings	27	State proportion of 1999 national disbursements and county proportion of state 1999 population estimate. ^{b,c}

Table C-2

**Description of Allocation Schemes (17, 18, 22, and 27) and Activity Data Used
in the 1999 Nonpoint Source Inventory for Source Categories
With National-Level Emission Estimates (Continued)**

Source Category Name	Allocation Scheme	Activity Data or Other Information Used in Allocation Scheme
Swimming pools	17	County proportion of national 1999 CBP employment for SICGROUP = SWIMPOOL. ^a

^a County Business Patterns 1999. United States Department of Commerce, Bureau of the Census. CBP-99-1. June 2001.

^b Total Disbursements for Highways, All Units of Government - 1999. Table HF-2. United States Department of Transportation.

^c Estimates of the Population of Counties: Annual Time Series, July 1, 1990 to July 1, 1999 (includes revised April 1, 1990 census population counts). CO-99-4. Population Estimates Program, Population Division. U.S. Bureau of the Census, Washington, D.C.

^d FAA ATADS = Federal Aviation Administration Air Traffic Activity Data System for General Aviation.

^e U.S. Environmental Protection Agency. 1990 Inventory of Section 112(c)(6) Pollutants: Polycyclic Organic Matter (POM), 2,3,7,8-Tetrachlorodibenzo-P-Dioxin (TCDD)/ 2,3,7,8-Tetrachlorodibenzofuran (TCDF), Polychlorinated Biphenyl Compounds (PCBs), Hexachlorobenzene, Mercury, and Alkylated Lead. Final Report. Research Triangle Park, North Carolina. June 1997.

^f Vehicle Miles Travelled (VMT). Data from Mobile Source database from the 1999 National Emissions Inventory.

^g Survey data was found in the USDA's "Agricultural Chemical Usage Data" series for oats, soybeans, corn, wheat, peanuts, rice and sorghum. See Appendix A for more details on "Grain Elevators."

^h USDA. Data from the 1997 Census of Agriculture farm acres by county downloaded from <http://www.nass.usda.gov/census/census97/county/farms/index.htm>.

ⁱ Information on the number of hospital beds by State was provided by Advancing Health in America (AHA) on June 5, 2001.

^j State cremation totals for 1999 were provided by the Cremation Association of North America. See Appendix A for more details on "Human Cremation."

^k A nationwide literature search of newspapers was performed for tire fires for 1999. See Appendix A for more details on "Open Burning: Scrap Tires."

^l Survey data was found in the USDA's "Agricultural Chemical Usage Data" series for 64 crops. See Appendix A for more details on "Pesticide Application".

^m U.S. Environmental Protection Agency. EFIG. Final Summary of the Development and Results of a Methodology for Calculating Area Source Emissions from Residential Fuel Combustion. September 2002.

Table C-3

**List of SIC Codes and SIC Groups Used
in NEI Allocation Scheme 17**

SIC Code or SIC Group Code	Individual SIC Code or SIC Group Description from 1999 County Business Patterns SIC Reference File (Includes Broad Component SIC Definitions for Groups)
0750	Animal services, except veterinary
2754	Commercial printing, gravure
3312	Blast furnaces and steel mills
3471	Plating and polishing
5171	Petroleum bulk stations and terminals
7532	Top and body repair and paint shops
8060	Hospitals
8072	Dental laboratories
COMM	<u>Commercial Sector (50-89):</u> 50-- (WHOLESALE TRADE) 52-- (RETAIL TRADE) 60-- (FINANCE, INSURANCE, AND REAL ESTATE) 70-- (SERVICES) except: 519\ (Administrative and auxiliary for 50--) 599\ (Administrative and auxiliary for 52--) 679\ (Administrative and auxiliary for 60--) 899\ (Administrative and auxiliary for 70--) <u>Commercial Sector (50-89)/Manufacturing Sector (20-39) and Electric, Gas, and Sanitary Services (49):</u> 50-- (WHOLESALE TRADE) 52-- (RETAIL TRADE) 60-- (FINANCE, INSURANCE, AND REAL ESTATE) 70-- (SERVICES) except: 519\ (Administrative and auxiliary for 50--) 599\ (Administrative and auxiliary for 52--) 679\ (Administrative and auxiliary for 60--) 899\ (Administrative and auxiliary for 70--) 20-- (MANUFACTURING) 4900 (Electric, gas, and sanitary services) except: 399\ (Administrative and auxiliary for 20--) 497\ (Administrative and auxiliary for 4900)
DRYCLEAN	<u>Dry Cleaning Industry:</u> 7215 (Coin-operated laundries and cleaning) 7216 (Dry cleaning plants except rug) 7218 (Industrial launderers)

Table C-3

Continued

SIC Code or SIC Group Code	Individual SIC Code or SIC Group Description from 1999 County Business Patterns SIC Reference File (Includes Broad Component SIC Definitions for Groups)
IND	<u>Manufacturing Sector (20-39) and Electric, Gas, and Sanitary Services (49):</u> 20-- (MANUFACTURING) 4900 (Electric, gas, and sanitary services) except: 399\ (Administrative and auxiliary for 20--) 497\ (Administrative and auxiliary for 4900)
SWIMPOOL	7389 (Business Services, NEC for Swimming Pool Cleaning and Maintenance) 7997 (Membership Sports and Recreation Clubs for Recreation Clubs with Facilities)

Notes:

- (1) Dashes (“-”) are used to represent any or all numbers from 0 to 9, and represent summations up to the non-dashed numbers indicated.
- (2) Back slashes (“\”) are used to represent the auxiliary or administrative services portion of an SIC grouping.

Table C-4

List of Source Categories in which County-Level Emission Records were Pulled Directly from the 1996 Nonpoint NTI into the 1999 Nonpoint NTI

Source Category Name
Asphalt Concrete Manufacturing
Asphalt Roofing and Processing
Flexible Polyurethane Foam Fabrication Operations
Flexible Polyurethane Foam Production
Industrial Boilers: Distillate Oil ^a
Industrial Boilers: Natural Gas ^a
Industrial Boilers: Residual Oil ^a
Industrial Boilers: Waste Oil
Institutional/Commercial Heating: POTW Digester Gas
Miscellaneous Organic Chemical Processes - Continuous Processes (MON)
Natural Gas Transmission and Storage
Oil and Natural Gas Production
Paint Stripping Operations
Refractory Products Manufacturing
Steel Pickling HCl Process

^a Note: The emissions data for these categories were adjusted for 1999 base year activity. However, the 1999 emissions were allocated using the same proportions as the 1996 inventory.

Figure C-1

**Diagram and Calculations for National-Level Allocation Schemes
Used in the NEI**

Allocation Scheme: 17

Given:

National
Emissions



Calculate:

$$\text{County Emissions} = \frac{\text{County SIC Employment}}{\text{National SIC Employment}} \times \text{National Emissions}$$

Allocation Scheme: 18

Given:

National
Emissions



Calculate:

$$\text{County Emissions} = \frac{\text{County Population}}{\text{National Population}} \times \text{National Emissions}$$

Allocation Scheme: 22

Given:

National
Emissions



Calculate:

$$\text{County Emissions} = \text{County Proportion of National Value} \times \text{National Emissions}$$

Allocation Scheme: 27

Given:

National
Emissions



Calculate:

$$\text{State Emissions} = \text{State Proportion of National Value} \times \text{National Emissions}$$



Calculate:

$$\text{County Emissions} = \text{County Proportion of State Value} \times \text{State Emissions}$$

Appendix D

Summary of Information Submitted by State/Local/Tribal Agencies and Incorporated into the 1999 Nonpoint NEI for HAPs

Appendix D - Summary of Information Submitted By State/Local/Tribal Agencies to the 1999 Nonpoint NEI

Comment Number	Commentator/Agency	Source Category Information	Notes on Submission
<i>The following State/Local comments were submitted by June 1, 2001</i>			
1	Cala Obenauf/Alabama Department of Environmental Management	Structure Fires	Submitted additions in NIF 2.0 (536 Emission records) for 4 HAPs in 67 counties.
2	Dale Wells/Colorado Department of Public Health and Environment	Residential Heating (fireplaces and conventional woodstoves)	Submitted additions in NIF 2.0 (1,866 Emission records) for 15 HAPs in 63 counties.
3	Leif Hockstad/Maryland Department of Environment	10 source categories	Submitted additions in NIF 2.0 (856 Emission records) for 25 HAPs in 24 counties.
4	Jen D'Urso/Massachusetts Department of Environmental Protection	Perchloroethylene Dry Cleaning	Submitted additions in NIF 2.0 (14 Emission records) for 1 HAP in 14 counties.
5	Allan Ostrander/Michigan Department of Environmental Quality	Asphalt Concrete Manufacturing - Rotary Dryer; Asphalt Concrete Manufacturing - Drum Dryer;	Submitted additions in NIF 2.0 (8 Emission records) for 8 HAPs in 2 counties.
6	Olga Boyko/New Jersey Department of Environmental Protection	9 source categories	Submitted additions in NIF 2.0 (3,180 Emission records) for 60 HAPs in 21 counties.
7	Lynn Barnes/South Carolina Department of Health and Environmental Control	POTWs	Indicated that their POTW emission records would be included in their point submittal.

Appendix D - Summary of Information Submitted By State/Local/Tribal Agencies to the 1999 Nonpoint NEI (Continued)

Comment Number	Commentator/Agency	Source Category Information	Notes on Submission
8	Kwame Agyei/ Puget Sound Clean Air Agency	64 source categories	Submitted additions in NIF 2.0 (1,577 Emission records) for 46 HAPs in 4 counties.
9	Joe Morgan/ West Virginia Department of Environmental Quality	11 source categories	Submitted additions in NIF 2.0 (7,645 Emission records) for 49 HAPs in 55 counties.
<i>The following State/Local/Tribal comments were submitted by February 2, 2002</i>			
1	West Virginia Department of Environmental Quality	Graphic Arts	Double-counting between point and nonpoint
2	Lynn Barnes/South Carolina Department of Health and Environmental Control	1. Residential Heating: Anthracite Coal; Institutional/Commercial Heating: Anthracite Coal 2. Drum and Barrel Reclamation	1. Anthracite coal is not used in South Carolina. 2. Double-counting between point and nonpoint
3	Allan Ostrander/ Michigan Department of Environmental Quality	1.Gravel Storage; 2. Institutional/Commercial Heating: Liquified Petroleum Gas with Asphalt Kettle Heater	Submitted revisions in NIF 2.0 (1 delete; 7 RA/RD pairs) for 8 HAPs in 2 counties
4	Dale Wells/ Colorado Department of Public Health and Environment	38 source categories	Submitted revisions in NIF 2.0 (1,003 adds; 13762 deletes; 9,833 RA/RD pairs) for 178 HAPs in 63 counties.
5	Chris Nguyen/ California Air Resources Board	97 source categories	Submitted inventory in NIF 2.0 (30,775 adds) for 66 HAPs in 58 counties.

Appendix D - Summary of Information Submitted By State/Local/Tribal Agencies to the 1999 Nonpoint NEI (Continued)

Comment Number	Commentator/Agency	Source Category Information	Notes on Submission
6	Olga Boyko/ New Jersey Department of Environmental Protection	Pesticide Application	Submitted inventory in NIF 2.0 (4 adds; 16 RA/RD pairs) for 1 HAP in 20 counties.
7	Kwame Agyei/ Puget Sound Clean Air Agency	18 source categories	Submitted revisions in NIF 2.0 (37 adds; 945 deletes; 12 RA/RD pairs) for 71 HAPs in 4 counties.
8	Peter Ogbeide/ Texas Natural Resource Conservation Commission	33 source categories	Submitted inventory in NIF 2.0 (96,100 adds) for 91 HAPs in 254 counties.
9	Rich Greves/ Maine Department of Environmental Protection	57 source categories	Submitted inventory in NIF 2.0 (8,372 adds) for 151 HAPs in 15 counties.
10	Sarah Kelly/ Northern Arizona University (for Ute Mountain Tribe)	Oil and Gas Well Construction and Production	Submitted revisions in NIF 2.0 (4 adds) for 4 HAPs in 1 tribal land.

Appendix D - Summary of Information Submitted By State/Local/Tribal Agencies to the 1999 Nonpoint NEI (Continued)

Comment Number	Commentator/Agency	Source Category Information	Notes on Submission
<i>The following State/Local/Tribal comments were submitted by June 1, 2002</i>			
11	Laura Artates/ Davidson County, TN Metro Health Control	18 source categories	Submitted inventory in NIF 2.0 (170 adds) for 64 HAPs in 1 county.
12	Mark Prettyman/ Delaware Department of Natural Resources and Environmental Control	70 source categories	Submitted inventory in NIF 2.0 (1,954 adds; 667 deletes; 451 RA/RD pairs) for 192 HAPs in 3 counties.
13	Alain Watson/ Hillsborough County, FL Environmental Commission	52 source categories	Submitted inventory in NIF 2.0 (469 adds) for 64 HAPs in 1 county.
14	Pwu-Sheng Liu/ Pinellas County, FL Environmental Management Department	47 source categories	Submitted inventory in NIF 2.0 (351 adds) for 95 HAPs in 1 county.
15	Mike Dubois/ Idaho Department of Environmental Quality	188 source categories	Submitted inventory in NIF 2.0 (40,589 adds) for 214 HAPs in 44 counties.
16	Allan Ostrander/ Michigan Department of Environmental Quality	20 source categories	Submitted inventory in NIF 2.0 (15,424 adds) for 60 HAPs in 83 counties.

Appendix D - Summary of Information Submitted By State/Local/Tribal Agencies to the 1999 Nonpoint NEI (Continued)

Comment Number	Commentator/Agency	Source Category Information	Notes on Submission
17	Chun-Yi Wu/ Minnesota Pollution Control Agency	1. 19 source categories 2. Gasoline Distribution Stage II	1. Submitted inventory in NIF 2.0 (12,855 adds) for 74 HAPs in 87 counties. 2. Incorrect Naphthalene emission factor (change to 0.05) and missing Cumene estimates. Spillage VOC emission factor was added.
18	Karen Slattery/ Rhode Island Department of Environmental Management	5 source categories	Submitted inventory in NIF 2.0 (330 adds) for 40 HAPs in 5 counties.
19	Jeff Merrell/ Vermont Air Pollution Control	9 source categories	Submitted inventory in NIF 2.0 (835 adds) for 31 HAPs in 14 counties.
20	Sarah Kelly/ Northern Arizona University (for Umatilla tribe)	Asphalt Concrete Manufacturing	Submitted inventory in NIF 2.0 (1 add) for 1 HAP in 1 tribal land.
21	Orlando Cabrera-Rivera/ Wisconsin Department of Natural Resources	28 source categories	Submitted inventory in NIF 2.0 (21,565 adds) for 78 HAPs in 71 counties.
22	Syed Alam/ New York Department of Environmental Conservation	20 source categories	Submitted inventory in NIF 2.0 (8,554 adds) for 40 HAPs in 62 counties.
23	David Healy/ New Hampshire Department of Environmental Resources	23 source categories	Submitted inventory in NIF 2.0 (3,395 adds) for 93 HAPs in 10 counties.

Appendix D - Summary of Information Submitted By State/Local/Tribal Agencies to the 1999 Nonpoint NEI (Continued)

Comment Number	Commentator/Agency	Source Category Information	Notes on Submission
24	Azin Kavaian/ Massachusetts Department of Environmental Protection	Gasoline Distribution Stage II	Submitted inventory in NIF 2.0 (1,344 adds) for 8 HAPs in 14 counties.
<i>The following State/Local/Tribal Comments were submitted by March 1, 2003</i>			
25	Andy Alexis/ California Air Resources Board	36 source categories	Submitted revisions in NIF 2.0 (1,209 deletes; 8 RA/RD pairs) for 13 HAPs in 58 counties.
26	Pwu-Sheng Liu/ Pinellas County, FL Environmental Management Department	16 source categories	Submitted revisions in NIF 2.0 (266 deletes) for 78 HAPs in 1 county.
27	Allan Ostrander/ Michigan Department of Environmental Quality	12 source categories	Submitted revisions in NIF 2.0 (4,099 adds; 1,909 deletes; 663 RA/RD pairs) for 27 HAPs in 83 counties.
28	Jeff Merrell/ Vermont Air Pollution Control	Open Burning - Residential Household Waste	Submitted revisions in NIF 2.0 (28 adds) for 2 HAPs in 14 counties.
29	Andy Roth/ Ohio Regional Air Pollution Control Agency	8 source categories	Submitted revisions in NIF 2.0 (72 adds; 85 deletes) for 13 HAPs in 6 counties.
30	John Kelly/ Washington Olympic Region Clean Air Agency	9 source categories	Submitted revisions in NIF 2.0 (307 adds; 330 RA/RD pairs) for 34 HAPs in 6 counties.

Appendix D - Summary of Information Submitted By State/Local/Tribal Agencies to the 1999 Nonpoint NEI (Continued)

Comment Number	Commentator/Agency	Source Category Information	Notes on Submission
31	Jeffrey Stocum/ Oregon Department of Environmental Quality	118 source categories	Submitted revisions in NIF 2.0 (29,930 adds; 6,022 deletes; 11,515 RA/RD pairs) for 98 HAPs in 36 counties.
32	Tom Bachman/ North Dakota Department of Health	Open Burning - Forest and Wildfires	Submitted a written comment about revising the fuel loading factor for North Dakota's emissions. This resulted in 1,341 RA/RD pairs for 14 HAPs in 45 counties
33	Chun-Yi Wu/ Minnesota Pollution Control Agency	23 source categories	Submitted revisions in NIF 2.0 (15,715 adds; 435 deletes; 10,798 RA/RD pairs) for 82 HAPs in 87 counties.
34	Orlando Cabrera-Rivera/ Wisconsin Department of Natural Resources	6 source categories	Submitted revisions in NIF 2.0 (405 deletes; 295 RA/RD pairs) for 23 HAPs in 66 counties.
35	Sarah Kelly/ Northern Arizona University (for the Bishop Paiute tribe)	Residential Open Burning	Submitted revisions in NIF 2.0 (5 adds) for 5 HAPs in 1 Tribal land.
36	Lori Tilley/ Duval County, FL Regulatory and Environmental Services Department	42 source categories	Submitted inventory in NIF 2.0 (431 adds) for 76 HAPs in 1 county.

Appendix D - Summary of Information Submitted By State/Local/Tribal Agencies to the 1999 Nonpoint NEI (Continued)

Comment Number	Commentator/Agency	Source Category Information	Notes on Submission
37	Kyrik Rombough/ South Dakota Department of Environment and Natural Resources	Open Burning - Forest and Wildfires and Open Burning - Prescribed Burning	Provided revised fueling factors for these two source categories. This resulted in 7,724 RA/RD pairs for 14 HAPs in 65 countries.