
Air



NORTHEAST CORRIDOR REGIONAL MODELING PROJECT ANNUAL EMISSION INVENTORY COMPILATION AND FORMATTING

Volume IV: Maine Emission Inventory

EPA-450/4-82-013d

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Volume IV: Maine Emission Inventory

by
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Bedford, MA

Contract No. 68-02-3510

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Prepared For
U.S. Environmental Protection Agency
Office of Air, Noise and Radiation
Office of Air Quality Planning and Standards
Research Triangle Park, NC 27711

October 1982

This report has been reviewed by the Office of Air Quality Planning and Standards, U.S. Environmental Protection Agency, and approved for publication as received from GCA Corporation, Bedford, MA. Approval does not signify that the contents necessarily reflect the views and policies of the U.S. Environmental Protection Agency, nor does mention of trade names or commercial products constitute endorsement or recommendation for use. Copies of this report are available from the Air Management Technology Branch, Monitoring and Data Analysis Division, Office of Air Quality Planning and Standards, U.S. Environmental Protection Agency, Research Triangle Park, NC 27711.

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SECTION 1

INTRODUCTION

BACKGROUND

On a nationwide basis, nonattainment of the National Ambient Air Quality Standard (NAAQS) for ozone is one of the most serious and widespread air pollution problems facing the air quality management community. The Northeast Corridor, a megalopolis of urban and suburban areas extending from Washington, D.C. to Boston, bears a large extent of the ozone problem. The United States Environmental Protection Agency (USEPA), in cooperation with the northeastern states, local agencies and Metropolitan Planning Organizations (MPOs), has undertaken the Northeast Corridor Regional Modeling Project (NECRMP) to develop regional and urban and ozone control strategies through the use of photochemical air quality simulation models.

To employ a regional model, an inventory of point and area source emissions covering the entire NECRMP study area had to be assembled and placed into a common format. Unfortunately, existing data bases were inadequate to either properly test or validate a regional model. To this end, USEPA's Office of Air Quality Planning and Standards retained GCA/Technology Division to complete an annual inventory for use in NECRMP. The study area, shown in Figure 1, includes the entire northeast quadrant of the United States from longitude 69 degrees to 84 degrees West and latitude 38 degrees to 45 degrees North. The Maine portion of the study area is shown in Figure 2.

OBJECTIVES

The objective of the effort reported in this volume was to assemble the most current, comprehensive and accurate emission inventory possible for the State of Maine. This was achieved through the cooperation of the Maine Department of Environmental Protection (DEP). The intent of the program was to avoid direct contact between GCA and individual facilities in Maine. Rather, GCA worked directly with the Maine DEP, who in turn contacted sources when necessary. GCA reviewed the state supplied data and submitted a list of potential errors back to the Maine DEP, who was responsible for confirming the data or supplying corrections, as necessary. The major pollutants of interest were VOC and NO_x , although TSP, SO_x , and CO emissions were also compiled for point sources. Because of this emphasis, quality assurance checks mainly focused on sources of VOC and NO_x .

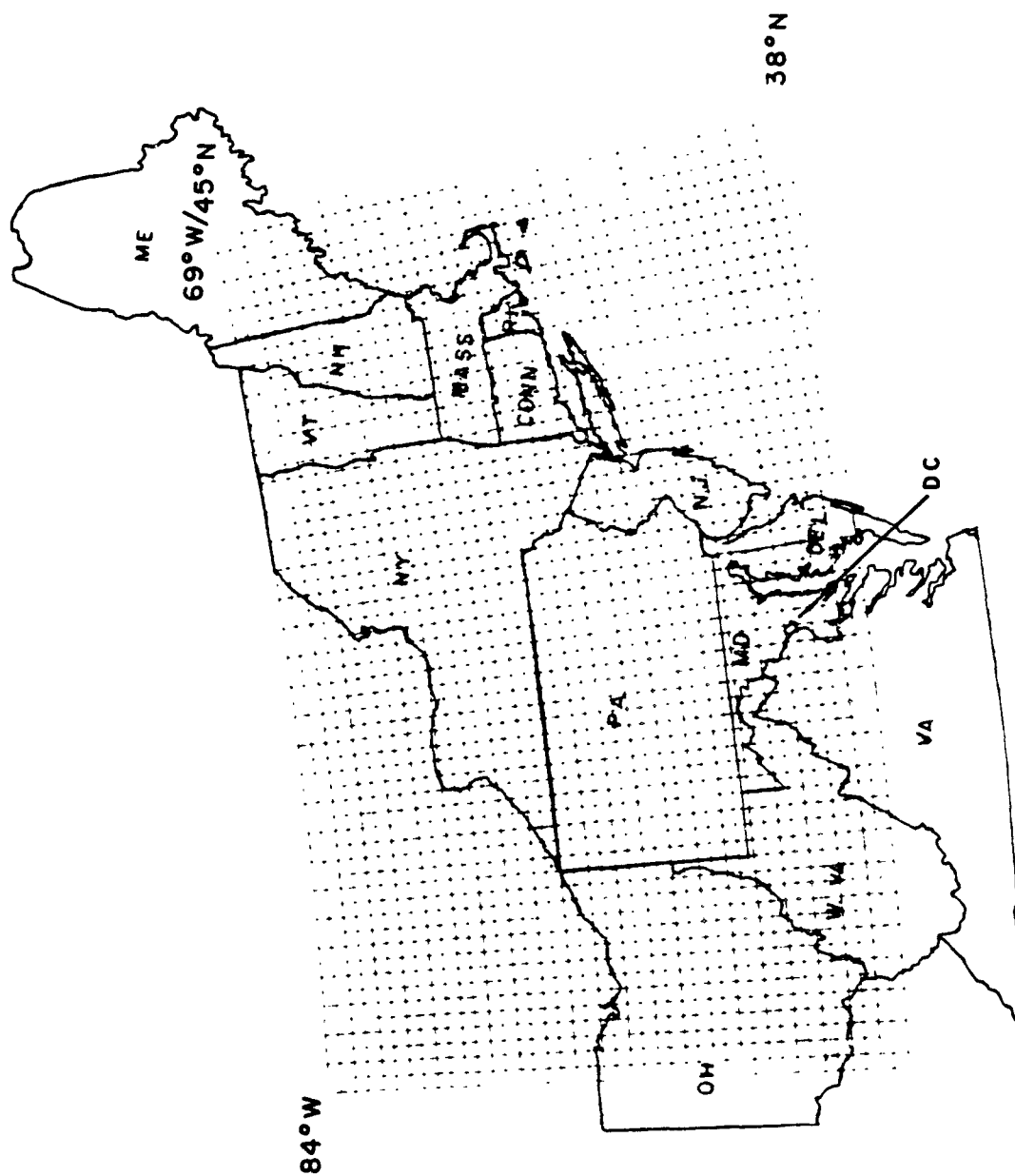


Figure 1. Boundaries of regional model grid system.

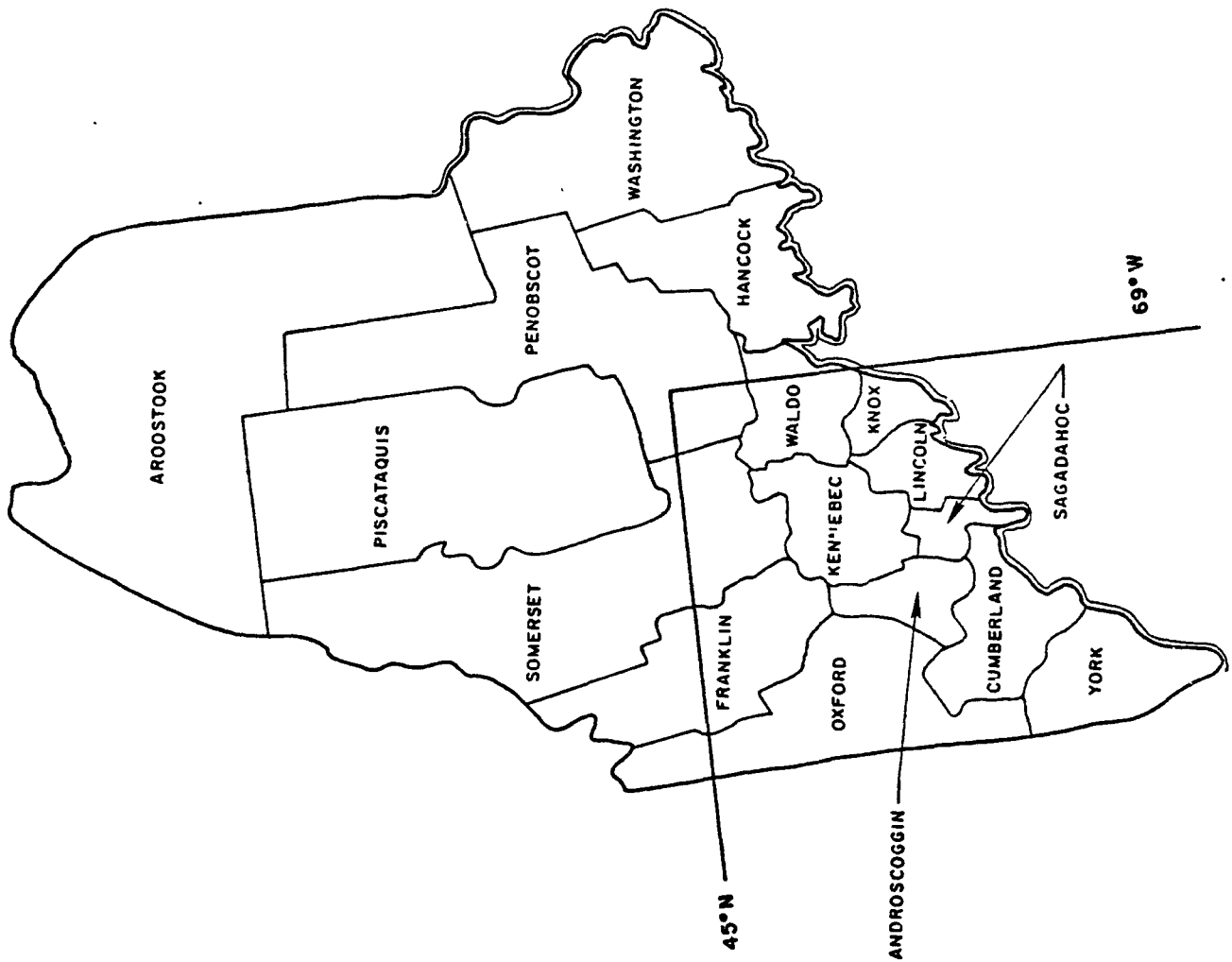


Figure 2. Maine counties included in the NECRMP Study Area.

The completed inventories were computerized for further use in the NECRMP study. Point source data were computerized in the format specified in the Emission Inventory System/Point Source (EIS/PS) User's Guide¹ and area source data were coded into EIS/AS² format.

REPORT ORGANIZATION

The results of the NECRMP annual emission inventory are reported in an 18 volume set of documents. Volume I in this series describes the background of the program and discusses the methods used to compile and verify the annual emission inventory. Volumes II through XVI present a more detailed discussion of each state's inventory effort. Volume XVII describes the spatial, temporal, and species allocation factors developed to allow for the creation of modeler's tapes from the completed inventory. Volume XVIII presents a summary of the point and area source inventories for the entire study area. Also included in Volume XVIII is a detailed analysis of the overall quality of the data base and an assessment of the data's suitability for use in the photochemical modeling. A directory of the NECRMP annual emission inventory reports is presented in Table 1.

This volume, which presents a discussion of the annual emission inventory for Maine, consists of five sections. Section 2 describes the project history and includes a summary of the major events that relate to the Maine inventory development. Section 3 discusses in greater detail the point source inventory task while the area source inventory development is covered in Section 4. All references cited in the volume are identified in Section 5. Appendices A and B present county emissions for point and area sources, respectively. The computer routine used to fix a "generic" problem with the Maine data is provided in Appendix C. The method used by GCA to calculate exhaust gas flow rates from boilers in Maine whose point source records did not contain these data is presented in Appendix D.

TABLE 1. DIRECTORY OF THE NECRMP ANNUAL REGIONAL
EMISSION INVENTORY REPORTS

Volume	Contents
I	Project Approach
II	Connecticut Emission Inventory
III	Delaware Emission Inventory
IV	Maine Emission Inventory
V	Maryland Emission Inventory
VI	Massachusetts Emission Inventory
VII	New Hampshire Emission Inventory
VIII	New Jersey Emission Inventory
IX	New York Emission Inventory
X	Ohio Emission Inventory
XI	Pennsylvania Emission Inventory
XII	Rhode Island Emission Inventory
XIII	Vermont Emission Inventory
XIV	Virginia Emission Inventory
XV	Washington, D.C. Emission Inventory
XVI	West Virginia Emission Inventory
XVII	Development of Allocation Factors
XVIII	Inventory Review and Evaluation

SECTION 2
PROJECT HISTORY

AGENCY CONTACTS

The EPA Project Officer provided agency contacts in the Maine Department of Environmental Protection (DEP) and the Environmental Protection Agency, Region I (EPA/Region I). The Maine DEP contact was responsible for confirming data, supplying required corrections or additional data, interfacing with individual sources as necessary, and concurring on the comprehensiveness and accuracy of the final data base. The Maine DEP contact was Mr. Norm Anderson, (207) 289-2437.

SUMMARY OF EVENTS

Summaries of major milestones pertaining to the Maine portion of the NECRMP annual emission inventory are provided separately for the point source and area source data, as follows.

Point Sources

Work on the Maine point source inventory occurred between March and July, 1981. A computer tape was forwarded to the Agency in January 1981 and the data were received in early March. The completed data were forwarded to EPA on October 5, 1981. Major milestones are identified below.

- Computer tape sent to DEP for point source data 1/05/81
- NEDS data (1979) received 3/05/81
- QA audit completed, lists of questions/problems sent to Project Officer, agency contacts 4/02/81
- Error resolution meeting held in Augusta, Maine 5/19/81
- Point source growth factors developed 5/26/81
- Lists of outstanding questions sent to DEP, Project Officer 5/26/81
- Remaining information sent to GCA 6/24/81

- EIS/AS master file (1979) adjusted to reflect corrections 6/30/81
- EIS/AS master file adjusted to 1980 6/30/81
- First completed Master Files (1979, 1980) sent to EPA 10/05/81
- Revised master files sent to EPA (see Text, Section 3) 3/02/82

Area Sources

Work on the Maine area source inventory occurred sporadically between May, 1981 and April, 1982. For most of this period, GCA was awaiting additional information from the Maine DEP, which was forwarded to GCA on 5 February 1982. Major milestones are provided as follows.

- Maine supplied some input data, identified categories that would not be inventoried by the DEP 5/19/81
- GCA completed estimates for above categories 5/29/81
- GCA sent computer tape for Maine EIS/AS inventory 10/28/81
- Computer tape determined to have been lost enroute from Maine to GCA 12/30/81
- GCA sent 2nd tape for Maine EIS/AS inventory 1/04/82
- Maine sent EIS/AS file to GCA 2/05/82
- Maine and GCA EIS/AS files merged 3/12/82
- Remaining categories completed, coded 4/09/82
- EIS/AS master file completed 4/15/82
- Completed Master File sent to EPA 4/20/82

SECTION 3

POINT SOURCE INVENTORY

DATA PROCUREMENT

A computer tape was forwarded to the Maine Department of Environmental Protection on 5 January 1981. The point source inventory data were received on March 5, 1981. The inventory reflected 1979 data and were supplied in NEDS format. The tape contained data on 713 individual emission points at 487 facilities.

DATA REVIEW AND UPDATE

The Maine NEDS file was converted into EIS/PS format using the GCA-modified version of the NEDS-to-EIS/PS Conversion Editor¹ described previously in Volume I.³ Although the point source inventory reflected 1979 data, the NEDS file erroneously reported 1980 as the year of record. The NEDS year of record fields were changed to 1979 prior to conversion to EIS/PS format using the computer routine presented in Appendix C. The data were then subjected to the quality assurance (QA) program described in Volume I.³

One QA measure was to cross-check sources listed in the Directory of Volatile Organic Compound (VOC) Sources Covered by Reasonably Available Control Technology Requirements (RACT)⁴, the "Organic Chemical Producers Data Base"⁵, and the Emissions Inventory for the SURE Region⁶ against those facilities included in the Maine point source inventory, to identify possible omissions. It was noted that the NEDS ID numbers were not consistent between the Maine and SURE⁶ inventories. Table 2 identifies sources listed in the above data bases, but not in the Maine inventory and the Maine DEP's resolution of these potential omissions.

A manual review of all sources emitting more than 100 tons/yr of VOC or NO_x or 500 tons/yr of any criteria pollutant was undertaken. Additionally all "error," "conditional," or "warning" messages resulting from the conversion of data from NEDS format to EIS/PS format were examined.

The most frequent problems encountered were missing UTM coordinates and stack exhaust flow rates. These problems were documented in correspondence to the Maine DEP dated April 3, 1981. An error resolution meeting was held on May 19, 1981 at the DEP offices in Augusta, Maine. Many of the problems were resolved at that time. The Maine DEP provided the remaining missing UTM

TABLE 2. MAINE SOURCES LISTED IN THE RACT DIRECTORY,⁴ THE ORGANIC CHEMICAL PRODUCERS DATA BASE,⁵ AND THE SURE INVENTORY⁶ BUT NOT IN THE MAINE INVENTORY

Data base	Name	County	Resolution
RACT	Maine Rubber International	York	<10 TPY
RACT	Pratt-Abbott (3 locations)	Cumberland	<10 TPY, included in area sources
RACT, OCPDB	LOF Plastic Production	Androscoggin	Name changed to Pioneer Plastics
RACT	Cities Service	Lincoln	DEP has no record of this source
RACT	B.P. Oil Corp.	Cumberland	Name changed to Astroline
RACT	Bancroft-Martin Gulf	Cumberland	Name changed to Kock Fuels, Inc.
RACT	N. E. Petroleum Corp.	Cumberland	DEP has no file on this source
SURE	Lewiston Dump	Androscoggin	Insignificant VOC source
SURE	South Portland Dump	Cumberland	Insignificant VOC source
SURE	Augusta Dump	Kennebec	Insignificant VOC source
SURE	Waterville Dump	Kennebec	Insignificant VOC source

coordinates in a letter dated June 24, 1981⁷. Most of the missing flow rates were calculated by GCA using default equations with which the Maine DEP contact concurred. These equations, and their derivations are provided in Appendix D.

The point source data were updated to reflect the corrections by coding NEDS update transactions in compliance with the instructions provided in AEROS, Volume II.⁸ The NEDS update transactions were edited and translated into EIS/PS update transactions using the NEDS to EIS Conversion-Editor. The EIS/PS Masterfile was updated using the EIS/PS update transactions and the EIS/PS Masterfile Maintenance Program. A detailed list of the changes, additions, and deletions performed is provided in Table 3. Updates listed in Table 3 are in addition to the year of record problem which was addressed by the Appendix C computer routine.

GROWTH FACTORS

The Maine point source inventory reflected 1979 data and had to be adjusted to 1980 for the NECRMP. GCA developed growth factors to 1980 on a 2-digit SIC basis. County-specific factors were developed for the ten SIC codes which accounted for 90 percent of the VOC and NO_x emissions in the 1979 inventory, and statewide growth factors were developed for the remaining SICs.

Growth factors were calculated based on employment data from County Business Patterns,^{9,10} using the following equation:

$$GF_{79-80} = \frac{\text{Employment 1979}}{\text{Employment 1978}}$$

As shown in the above equation, employment change from 1978 to 1979 was assumed to approximate 1979 to 1980 change. This approach was used due to the unavailability of 1980 employment information. Table 4 presents the county-specific growth factors used for the ten most significant SICs, while Table 5 presents the statewide growth factors used for the remaining SICs.

As discussed in Volume I,³ it was determined that for all states that supplied 1979 inventories, the 1979 emissions were probably a more accurate estimate of 1980 emissions than the adjusted emissions were. More accurate adjustment techniques would have required significant additional resources and were not explored. As a result, only 1979 data are reported here, although both 1979 and 1980 data were supplied to EPA on computer tape.

RESULTS

For reporting purposes, point source emissions for Maine were aggregated into 70 categories based on specific SCC-SIC combinations. A complete description of the codes used to aggregate emissions is presented in Volume I.³ For points with multiple SCCs, no attempt was made to split emissions into more than one category. In these instances, the primary SCC was used to account for all emissions at that point.

TABLE 3. UPDATES MADE TO MAINE POINT SOURCES

Facility	NEDS ID	Update action taken	Comments
<u>Androscoggin County (0027)</u>			
Lewiston Animal Clinic	0001	Delete source	No data
Stultz Electric	0003	Delete source	No data
Lewiston Animal Hospital	0011	Delete source	No data
Pioneer Plastics	0027	Change % annual thruput, operating hours	
		Add temperature	
		Add TSP emissions	Stack test
Livermore Shoe	0038	Add UTM coordinates	
Livermore Falls High School	0039	Add UTM coordinates	
Belle Moc Shoe	0064	Add UTM coordinates	
Etonic Inc.	0065	Add UTM coordinates	
Bottoms USA Inc.	0066	Add UTM coordinates	
Geiger Bros.	0067	Add UTM coordinates	
<u>Cumberland County (0277)</u>			
Lyman Moore Jr. High	0016	Change % annual thruput	
Fred P. Hall School	0020	Change % annual thruput	
General Electric	0047	Add operating rate	
Cape Elizabeth Middle School	0065	Change % annual thruput	
University of Southern Maine	0067	Change % annual thruput	
GTE Sylvania	0076	Add UTM coordinates	
Coca Cola Bottling	0078	Change % annual thruput	
Windham High School	0081	Add UTM coordinates	
Freeport High School	0082	Add UTM coordinates	
Greely High School	0083	Add UTM coordinates	
Fryeburg Academy	0084	Add UTM coordinates	
Sacopec Valley High School	0085	Add UTM coordinates	
Longfellow School	0093	Add UTM coordinates	

(continued)

TABLE 3 (continued)

Facility	NEDS ID	Update action taken	Comments
<u>Cumberland County (cont.)</u>			
Hawthorne Elementary	0094	Add UTM coordinates	
Arrow Hart	0096	Change % annual thruput	
Chevron Oil	0098	Add temperature	
		Add flow rate	GCA calc.
Sabre Yachts	0101	Add UTM Coordinates	
St. Joseph's College	0110	Add UTM Coordinates	
Exxon Co. USA	0122	Add temperature	
Mobil Oil Corp.	0123	Add temperature	
Astroline Petroleum	0125	Add temperature	
Gulf Oil	0126	Add temperature	
Yarmouth High School	0127	Add UTM Coordinates	
Data General	0129	Add UTM Coordinates	
Phoenix Resources	0130	Add UTM Coordinates	
Pleasant Mountain Moc.	0132	Add UTM Coordinates	
Sebago, Inc.	0133	Add UTM Coordinates	
Joseph Herman Shoe	0134	Add UTM Coordinates	
Central Maine Power	0135	Add SCC	Pt 2
		Add annual thruput	Pt 2
		Add max design rate	Pt 2
		Add S%, A%	Pt 2
		Add heat content	Pt 2
		Add flow rate	Pts 1-4, GCA calc.
	0138	Add flow rate	Pts 1-5, GCA calc.
		Add temperature	
<u>Franklin County (0445)</u>			
G. H. Bass & Co.	0018	Add UTM coordinates	
International Paper	0021	Add flow rate	GCA calc.
		Add design rate	

(continued)

TABLE 3 (continued)

Facility	NEDS ID	Update action taken	Comments
<u>Kennebec County (0547)</u>			
Diamond Match	0052	Add UTM coordinates	GCA calc.
Scott Paper	0062	Add flow rate	
Bille Oil Service	0065	Add UTM coordinates	
Dead River Co.	0066	Add UTM coordinates	
Central Maine Morning Sentinel	0067	Add UTM coordinates	
<u>Knox County (0595)</u>			
Martin Marietta Cement	0028	Add temperature Add flow rates	Pts 1-16 GCA calc.-Pts 2, 15-16
		Add stack height, diameter, temp. Recode as plumes	Pts 15,16 Pts 3-14
<u>Lincoln County (0645)</u>			
Central Maine Power-Mason John Puckey Oil	0010 0011	Add flow rate Add UTM coordinates	GCA calc., Pts 1-6
<u>Oxford County (0885)</u>			
Forest Industries	0001	Add UTM coordinates	
Bailey Manufacturing	0002	Add UTM coordinates	
Stowell Wood Products	0005	Add UTM coordinates	
Rumford Center School	0018	Add UTM coordinates	
Yield House	0037	Add UTM coordinates	
G. H. Bass & Sons	0039	Add UTM coordinates	
C. N. Brown Co.	0040	Add UTM coordinates	
A. D. Rafuse Oil	0041	Add UTM coordinates	

(continued)

TABLE 3 (continued)

Facility	NEDS ID	Update action taken	Comments
<u>Oxford County (cont.)</u>			
W. H. Knightly Oxford Paper	0042 0045	Add UTM coordinates Add flow rate	GCA calc.
<u>Sagadahoe County (1065)</u>			
Charles Eaton Co.	0012	Add UTM coordinates	
<u>Somerset County (1125)</u>			
Northeast Shoe Co. Scott Paper Co.	0008 0027	Add UTM coordinates Add flow rate	GCA calc., Pts 1-5
<u>Waldo County (1183)</u>			
Mount View High School Waldo Shoe Corp.	0011 0018	Add UTM coordinates Add UTM coordinates	
<u>York County (1325)</u>			
Prime Tanning Co.	0028	Add flow Add temperature, recode as plume	GCA calc., Pts 1,3 Pt 4
Dutchess Footwear Corp. Massabesic High School Hussey Manufacturing Corey Shoe South Berwick Shoe Limerick Footwear Inc. G. W. Jerwitt & Sons	0036 0042 0047 0048 0049 0050 0052	Add UTM coordinates Add UTM coordinates Add UTM coordinates Add UTM coordinates Add UTM coordinates Add UTM coordinates Add UTM coordinates	

TABLE 4. COUNTY SPECIFIC GROWTH FACTORS (1979 to 1980) FOR MAINE POINT SOURCES

County	Growth factors by SIC										
	22	24	26	28	30	31	32	36	37	49	
Androscoggin	0.977	0.850	1.001	—*	0.755	0.939	0.962	1.024	—	1.000	
Cumberland	0.836	1.065	1.000	1.472	1.000	0.934	1.244	1.212	0.920	1.000	
Franklin	—	0.798	1.000	—	—	1.000	—	—	—	—	
Kennebec	0.962	0.964	—	—	1.000	—	—	—	—	1.000	
Knox	1.000	0.984	—	1.000	—	—	1.000	1.000	1.218	1.208	
Lincoln	—	—	—	—	—	—	—	1.000	1.230	1.000	
Oxford	1.000	0.755	1.000	—	—	1.124	—	—	—	—	
Sagadahoc	—	—	1.000	—	—	1.000	—	1.000	—	—	
Somerset	0.636	1.116	1.080	—	—	1.151	—	1.000	—	1.000	
Waldo	—	0.850	—	—	—	1.000	—	—	—	—	
York	1.046	0.873	1.073	—	1.712	0.736	1.339	1.391	—	1.000	
Statewide Default	0.965	0.927	1.010	1.147	1.130	0.986	0.980	1.241	1.000	1.049	

*Dash indicates insufficient data, statewide default used.

Source: GCA Calculations, 1981.

TABLE 5. STATEWIDE GROWTH FACTORS FOR MAINE POINT SOURCES

2-digit SIC	Growth factor	2-digit SIC	Growth factor
07	0.918	52	1.030
08	0.933	53	0.987
09	0.847	54	1.196
10	0.800*	55	1.024
12	1.000*	56	0.942
13	1.000*	57	1.042
14	1.730	58	1.059
15	1.100	59	1.013
16	1.000*	60	1.085
17	0.999	61	1.037
20	0.942	62	1.438
23	1.072	63	1.030
25	1.211	64	1.064
27	1.041	65	1.065
29	1.000*	66	1.100
33	1.193	67	0.640
34	1.267	70	0.936
35	1.451	72	1.016
38	0.911	73	1.146
39	1.009	75	1.028
41	0.836	76	1.023
42	0.924	78	1.052
44	0.852	79	1.090
45	1.177	80	1.077
46	0.343*	81	1.082
47	1.106	82	0.951
48	1.065	83	1.160
49	1.049	84	0.490
50	1.077	86	0.974
51	1.037	89	1.013

*No emissions represented by this SIC.

Source: GCA Calculations, 1981.

Statewide point source emissions for 1980 are presented, by category, in Table 6. County-specific point source emissions are presented, by category, in Appendix A.

A list of "major" facilities was developed by totalling emissions at each facility using a criteria of 100 tons/year of VOC or NO_x to define a major source. These facilities, and their reported 1980 emissions for all five criteria pollutants, are presented in Table 7.

The completed Maine point source inventory was written onto computer tape for delivery to EPA. Included on the tape, which was forwarded on October 5, 1981, were the following files.

- Original NEDS (1979) submission
- NEDS (1979) after computerized corrections
- EIS/PS Master File (1979)
- EIS/PS Master File (1980)
- NEDS (1980) (converted from EIS/PS masterfile)
- Growth factors
- NEDS update transactions

One minor problem was detected with the completed Master Files. Sources that were intended to be deleted remained in the file, but were "marked for extinction" by the Master File maintenance program. Revised 1979 and 1980 Master Files which reflected the deletions were forwarded on March 2, 1982.

Further evaluation of this inventory and improvements made can be found in Volume XVII.

TABLE 6. MAINE POINT SOURCE EMISSIONS (1979) BY CATEGORY FOR THE
MAINE PORTION OF THE STUDY AREA*

STAT. OF MAJOR TOTALS

CATEGORY	POINT COUNT	----- TSP	PRIMARY SO ₂	SCC SO ₂	EMISSIONS NOX	(TONS/YEAR) HC	----- CO
1 OIL MILL AND PRODUCTION & PROCESSING	0	0	0	0	0	0	0
2 SYN. CHEMICALS, STAGE I & TRANSFER	0	0	0	0	0	0	0
3 GASOLINE & LUBRICANT OIL STORAGE	1	0	0	0	0	173	0
4 SHIP AND BOAT FUEL TANKS OF VES.	1	0	0	0	0	270	0
5 BARGE AND TANKER CLEANING	0	0	0	0	0	0	0
6 BULK GASOLINE TERMINALS	49	0	0	0	0	2190	0
7 GASOLINE FILL PLANTS	7	0	0	0	0	122	0
8 TRUCK FUELING	13	0	0	0	0	1373	0
9 SERVICE STATION LUBRICANTS (STAGE II)	0	0	0	0	0	0	0
10 SERVICE STATION LUBRICANTS (STAGE III)	0	0	0	0	0	0	0
11 OTHERS-EST. RATE, TRANSFER, FRT. OF VES.	0	0	0	0	0	0	0
12 LUBE OIL MANUFACTURE	0	0	0	0	0	0	0
13 PETROL OF REFINERIES	0	0	0	0	0	0	0
14 PHARMACEUTICAL MANUFACTURE	0	0	0	0	0	0	0
15 TEXTILE FIBERS & RESIN MANUFACTURE	1	0	0	0	0	224	0
16 SYNTHETIC FIBER MANUFACTURE	0	0	0	0	0	0	0
17 ORGANIC CHEMICAL MANUFACTURE	0	0	0	0	0	0	0
18 INORGANIC CHEMICAL MANUFACTURE	2	0	0	0	0	0	0
19 FERTILIZER PRODUCTION	0	0	1025	0	0	0	0
20 VEGETABLE OIL PROCESSING	0	0	0	0	0	0	0
21 PLASTIC PRODUCTS MANUFACTURE	0	104	0	0	0	964	0
22 RUBBER TIRE MANUFACTURE	0	0	0	0	0	0	0
23 SBR RUBBER MANUFACTURE	0	0	0	0	0	0	0
24 OTHER CHEMICAL MANUFACTURE	3	0	0	0	15	10	0
25 IPCC AND OTHER MANUFACTURE	0	0	0	0	0	0	0
26 LUMBER PRODUCTS	0	0	0	0	0	0	0
27 FERT. PRODUCTS	0	0	0	0	0	0	0
28 FERTILIZER MILL PRODUCTS	0	0	0	0	0	0	0
29 LUMBER AND WOOD PRODUCTS	1	420	0	0	0	25	0
30 PAPER AND ALLIED PRODUCTS	19	1290	2695	0	1018	17	0
31 STONE, CLAY, GLASS, CONCRETE	86	3053	2220	0	570	0	20864
32 PRIMARY & SECONDARY METALS & ELECTRICAL	1	1	0	0	0	0	0
33 FRACTIONATED METAL PRODUCTS	2	0	0	0	0	0	0
34 INTERFACIAL FUEL OIL	1	0	0	0	0	0	0
35 OTHERS - (INDUSTRIAL FACILITIES)	0	0	0	0	0	0	0
36 ADHESIVES	0	0	0	0	0	0	0
37 INK, SEC. COATING-LARGE APPLICATIONS	0	0	0	0	0	0	0
38 INK, SEC. COATING-PAINTS, ETC.	0	0	0	0	0	0	0
39 INK, SEC. COATING-PAINTS, ETC.	0	0	0	0	0	0	0
40 INK, SEC. COATING-PAINTS, ETC.	1	0	0	0	0	139	0
41 INK, SEC. COATING-PAINTS, ETC.	0	0	0	0	0	0	0
42 INK, SEC. COATING-PAINTS, ETC.	0	0	0	0	0	0	0
43 INK, SEC. COATING-PAINTS, ETC.	0	0	0	0	0	0	0
44 INK, SEC. COATING-PAINTS, ETC.	0	0	0	0	0	0	0
45 INK, SEC. COATING-PAINTS, ETC.	1	0	0	0	0	0	0
46 PLASTIC PARTS PAINTING	0	0	0	0	0	27	0
47 LUMBER	4	0	0	0	0	109	0
48 LUMBER	0	0	0	0	0	0	0
49 INK, SEC. COATING-PAINTS, ETC.	4	0	0	0	0	184	0
50 OTHERS - (INDUSTRIAL SURFACE COATING)	14	0	0	0	0	2433	0

TABLE 6 (cont.)

STATE OR REGION TOTALS		-----		-----		-----	
CATEGORY	POINT COUNT	TSP	PRIMARY SO ₂	EMISSIONS NO _x	(TONS/YEAR)	HC	CO
51 DRYCLEANING	12	0	0	0	0	370	0
52 DRY CLEANING	0	0	0	0	0	0	0
53 GRAPHIC ARTS	4	0	0	0	0	104	0
54 OTHER - (SOLVENT USE)	0	0	0	0	0	0	0
55 ARCHITECTURAL COATINGS	0	0	0	0	0	0	0
56 AUTUMN FINISHING	0	0	0	0	0	0	0
57 OTHERS-(NON-INDUSTRIAL SURFACE COATINGS)	0	0	0	0	0	0	0
58 EXT. COMB. BOILERS-ELEC. GENERATION	12	144	13351	3422	43	0	0
59 EXT. COMB. BOILERS-INDUSTRIAL	240	5696	41323	16671	402	1327	0
60 EXT. COMB. BOILERS-COMM/INST.	191	62	3256	542	4	33	0
61 EXT. COMB. SPACE HEATERS-INDUST.	0	0	0	0	0	0	0
62 EXT. COMB. SPACE HEATERS-COMM.	0	0	0	0	0	0	0
63 OTHERS-(FUEL COMBUSTION)	0	0	0	0	0	0	0
64 SOLID WASTE DISPOSAL-COMM.	0	0	5	7	3	70	0
65 SOLID WASTE DISPOSAL-COMM/INST.	0	0	0	0	0	0	0
66 SOLID WASTE DISPOSAL-INDUSTRIAL	0	0	0	0	0	0	0
67 OTHER SOLID WASTE DISPOSAL	0	0	0	0	0	0	0
68 WASTE SOLVENT RECOVERY PROCESSES	24	0	0	0	0	1508	0
69 STATIONARY INTERNAL COMBUSTION ENGINES	0	0	0	0	0	0	0
70 NOT CLASSIFIED	1	0	0	0	0	34	0
STATE OR REGION TOTALS		10611	53573	16645	17651	22330	

*See Figure 2.

TABLE 7. MAINE* SOURCES (1979) EMITTING MORE THAN 100 TONS/YEAR OF VOC OR NO_x

STATE	COUNTY	ROCK	PLANT	FACILITY	TSP (****)	SO ₂ (****)	NO _x (100)	HC (100)	CO (****)
20	27	107	0027	PIONEER PLASTICS PICHINTE RD	133	661	112	968	9
20	27	107	0049	MAINE ELECTRONICS INC RIVER ST	1	44	7	150	1
20	277	110	0078	CHEVRON OIL COMPANY 175 FRONT ST SO PORT	0	15	3	537	0
20	277	110	0119	TEXACO INC 102 MECHANIC ST SO PORTLAND	3	67	18	446	0
20	277	110	0120	CITY REFINING AND MARKETING CO 27 MAIN	0	0	0	278	0
20	277	110	0121	LUCK FUELS INC LINCOLN ST SO PORTLAND	0	0	0	259	0
20	277	110	0122	ARCO COMPANY - USA	0	0	0	571	0
20	277	110	0123	MOBIL OIL CORP SO PORTLAND	0	0	0	732	0
20	277	110	0124	AMOCO OIL COMPANY SO PORTLAND	0	0	0	215	1
20	277	110	0125	ASTROLINE PETROLEUM CO SO PORTLAND	0	0	0	1211	0
20	277	110	0126	SULF OIL CO - USA SO PORTLAND	0	0	0	654	0
20	277	110	0128	WEBER PETROLEUM CO PORTLAND	0	0	0	349	0
20	277	110	0131	PORTLAND PIPELINE CORP SO PORTLAND	0	0	0	443	1
20	277	110	0135	CENTRAL MAINE PAPER CO COUSINS ISLAND	122	7645	3107	37	149
20	277	110	0138	SO WARRINGTON DIV OF SCOTT PAPER	390	5845	1107	910	2189
20	445	107	0023	34 BASS & CO WELD ST	1	17	2	189	0
20	445	107	0027	JAMES RIVER-OTTIS INC JAY	41	1233	203	3	17
20	445	107	0019	3 H BASS & CO CHURCH ST	0	0	0	149	0
20	445	107	0021	INTERNATIONAL PAPER-WORSCOTT MILL J	415	10635	2534	143	8746
20	547	107	0035	STANTLER TISSUE MAPLE STREET	44	1474	242	4	0
20	547	107	0036	KYOS FIBER COLLEGE AVE	27	834	137	2	11
20	547	107	0061	MOBIL OIL CORP HALLOWELL MAINE	0	0	0	126	0
20	547	107	0062	SCOTT PAPER WILSON PLANT NORTHEAST AVE	163	3257	836	71	105
20	545	107	0039	MARINE COLLINGS CRICKETS POINT	30	930	153	89	13
20	545	107	0019	CANDON TANNING CORP 116 WASHINGTON ST	1	33	5	130	0
20	545	107	0008	MARTIN MARITTA CEMENT US RTE 1	2468	21631	557	0	7
20	640	107	0010	CENTRAL MAINE PAPER BIRCH PT WISCASSET	22	2700	712	5	35
20	640	107	0021	DARIS MANUFACTURING CORP 200 WESTERN AV	863	35	230	142	46
20	645	107	0023	A C LAFFINCE LEATHER CO PINE ST	9	240	39	233	3
20	645	107	0039	3 H BASS & SONS RTE 2	0	0	0	189	0
20	645	107	0045	OXFORD PAPER CO	305	6739	2350	247	4835
20	1045	110	0001	PEJESCU PAPER PEJESCU T	26	782	128	2	11
20	1125	107	0002	IRVING TANNING CO MAIN ST HARTLAND	9	274	45	308	4
20	1125	107	0055	MORRISON ARSON FEEL CO UNION ST NORTH AVE	491	24	131	26	26
20	1125	107	0027	SCOTT PAPER COMPANY SOMERSET PLANT	489	1090	1155	144	5830
20	1143	107	0061	SPELL OIL COMPANY STATION AVE SCARSDOR	0	0	0	135	0
20	1325	110	0012	SACO TANNING 72 MAIN ST	6	197	32	432	3
20	1325	110	0013	MARLMONT CORP NE DIVISION 291 NORTH ST	6	171	24	137	2
20	1325	110	0014	BLUF RIBBON SPORTS FACTORY ISLAND	0	11	2	125	0
20	1325	110	0020	CYRUS INDUSTRIES RT 109 INDUSTRIAL PARK	9	275	46	229	4
20	1325	110	0023	PRIME TANNING CO SULLIVAN ST	8	261	42	535	3
20	1325	110	0053	PORTSMOUTH NAVY SHIPYARD SLAVEY ISLAND	58	1773	293	75	25
TOTALS					6823	50294	14275	11792	22185

*Study area portion of Maine only. (See Figure 2.)

SECTION 4

AREA SOURCE INVENTORY DEVELOPMENT

OBJECTIVES

The area source emission inventory task entailed reviewing area source inventories prepared by the states for technical accuracy and consistency with EPA-prescribed procedures and developing these area source inventories where state-developed inventories were unavailable. The major objective of this effort was to ensure that all emissions of VOC and NO_x were accounted for and that the procedures used to develop the inventories were consistent from state to state. It was also important that the inventories be disaggregated into sufficient categories to allow for application of temporal and pollutant allocation factors and the evaluation of control scenarios in subsequent modeling efforts.

DATA PROCUREMENT AND REVIEW

The Maine DEP provided a portion of the 1979 Maine area source inventory on May 19, 1981. At that time the DEP indicated that they would likely not be inventorying the following categories:

- Pesticides
- Architectural Surface Coating
- Autobody Refinishing
- Small Industrial Surface Coating

The remainder of the area source inventory was received in EIS/AS transaction format in February, 1982. The Maine EIS file did not conform to the category numbering scheme selected for NECRMP. Rather, the Maine DEP utilized the NEDS numbering system.¹¹ The Maine EIS file was renumbered to match the NECRMP category codes and was merged with the GCA data. For a number of categories, the Maine EIS/AS files reported only emissions. The emission factors, in these instances, were obtained from the hard copy documentation of the area source inventory.¹² In turn, the process rates for these categories were derived by GCA from the DEP reported emissions and emission factors.

In general, the methods used by the Maine DEP in developing the area source inventory were consistent with those reported in Volume I.³ Deviations from these methods, or categories for which GCA developed the emissions estimates, are described below.

Gasoline Marketing

Maine calculated one composite category to cover all gasoline marketing categories. GCA back calculated gasoline sales from the DEP's emissions and composite emission factor. The DEP's factor did not account for spillage during vehicle fueling nor transit losses, although the point source inventory did account for vehicle fueling at bulk plants and terminals. GCA added 0.7 #/10³ gallons and 0.12 #/10³ gallons to cover spillage and transit losses, respectively. Emissions were disaggregated into the four gasoline marketing subcategories being used in NECRMP.

Architectural Surface Coating

GCA calculated emissions from Architectural Surface Coating using the EPA emission factor¹³, and the 1980 Census of Population.¹⁴

Autobody Refinishing

GCA calculated emissions from Autobody Refinishing using the EPA emission factor¹³ and the 1980 Census of Population.¹⁴

Small Industrial Surface Coating

GCA calculated emissions from Small Industrial Surface Coating operations using the method outlined in Volume I.³

Area Source Stationary Fuel Combustion

The Maine DEP reported area source fuel combustion by fuel type but not by user sector. Therefore, Commercial/Institutional and Industrial Distillate Oil Combustion, for example, were included with Residential Distillate Oil Combustion in a single composite category.

On-Highway Motorcycles

The Maine DEP did not provide an estimate of motorcycle emissions. In developing the mobile source inventory, the VMT distribution did not account for motorcycles. Since the actual motorcycle VMT in Maine is estimated to be quite small, the category was not included.

DEVELOPMENT OF THE EIS/AS MASTER FILE

After emissions were verified for all area source categories on a countywide basis, the completed inventory was coded and keypunched in EIS/AS format and subjected to the series of computerized QA checks included in the EIS/AS system.² The completed Master File was then manually verified for accuracy before the finalized data were written onto computer tape for delivery to EPA.

Table 8 presents a list of the area source categories included in the Maine portion of the NECRMP inventory. Also identified for each category is the type of VOC represented by the emission factor (total or reactive).

RESULTS

Regionwide totals of VOC and NO_x emissions from area sources in the Maine portion of the NECRMP study area are provided in Table 9. Countywide summaries are presented in Appendix B.

TABLE 8. AREA SOURCE CATEGORIES INVENTORIED FOR MAINE

EIS/AS category number	Category description	Pollutants inventoried
001	Stage I gasoline evaporation	TVOC
002	Stage II gasoline evaporation	TVOC
003	Storage tank breathing	TVOC
004	Gasoline loading/transit	TVOC
005	Degreasing	RVOC
006	Dry cleaning	RVOC
007	Architectural surface coating	RVOC
008	Autobody refinishing	RVOC
009	Small industrial surface coating	TVOC
010	Graphic arts	RVOC
011	Commercial/Consumer solvent use	RVOC
012	Cutback asphalt	RVOC
013	Pesticides	RVOC
014	On-highway light-duty vehicles	RVOC, NO _x
015	On-highway light-duty trucks--Class I	RVOC, NO _x
016	On-highway light-duty trucks--Class II	RVOC, NO _x
017	On-highway heavy-duty gas trucks	RVOC, NO _x
018	On-highway heavy-duty diesel trucks	RVOC, NO _x
020	Residential anthracite coal	TVOC, NO _x
021	Residential bituminous coal	TVOC, NO _x
022	Residential residual oil	TVOC, NO _x
023	Residential distillate	TVOC, NO _x
024	Residential natural gas	TVOC, NO _x
025	Residential LPG	TVOC, NO _x
026	Residential wood	RVOC, NO _x
027	Commercial/Institutional anthracite*	TVOC, NO _x
028	Commercial/Institutional bituminous*	TVOC, NO _x
029	Commercial/Institutional residual oil*	TVOC, NO _x
030	Commercial/Institutional distillate oil*	TVOC, NO _x
031	Commercial/Institutional natural gas*	TVOC, NO _x
032	Commercial/Institutional LPG	TVOC, NO _x
033	Commercial/Institutional wood/other*	TVOC, NO _x
034	Industrial anthracite*	TVOC, NO _x
035	Industrial bituminous*	TVOC, NO _x
036	Industrial residual oil*	TVOC, NO _x
037	Industrial distillate oil*	TVOC, NO _x
038	Industrial natural gas*	TVOC, NO _x
039	Industrial LPG	TVOC, NO _x
040	Industrial wood/other*	TVOC, NO _x
041	Military aircraft	TVOC, NO _x
042	Civil aircraft	TVOC, NO _x
043	Commercial aircraft	TVOC, NO _x
044	Railroad locomotives	TVOC, NO _x
045	Gasoline-powered vessels	TVOC, NO _x
046	Distillate oil-powered vessels	TVOC, NO _x
047	Residual oil-powered vessels	TVOC, NO _x
048	Off-highway vehicles--Gas	TVOC, NO _x
049	Off-highway vehicles--Diesel	TVOC, NO _x
050	Onsite incineration	TVOC, NO _x
051	Open burning	TVOC, NO _x
052	Structural fires	TVOC, NO _x
053	Field/Slash burning	TVOC, NO _x
054	Forest fires	TVOC, NO _x

*Included with Residential sector emissions.

TABLE 9. ANNUAL EMISSIONS (1979/1980) OF VOC AND NO_x FROM AREA SOURCES IN
THE NECRMP STUDY AREA PORTION OF MAINE*

STATE SUMMARY					POLLUTANT I.O.	EMISSION FACTOR	EMISSIONS ESTIMATE
CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RATE	UNITS				
001	STAGE I GASOLINE EVAP	452837	THOUS GAL		NOX VOC		0 2604
002	STAGE II GASOLINE EVAP	452837	THOUS GAL		NOX VOC		0 2195
003	STORAGE TANK BREATHING	452837	THOUS GAL		NOX VOC		0 228
004	GASOLINE LOADING TRANSIT	452837	THOUS GAL		NOX VOC		0 27
005	DEGREASERS	91	TON		NOX VOC		0 91
006	DRY CLEANERS	441	TON		NOX VOC		0 441
007	ARCH SURFACE COATING	938951	POPULATION		NOX VOC		0 2159
008	AUTO BODY REFINISHING	933351	POPULATION		NOX VOC		0 892
009	SH IND SURFACE COATING	6822	TON		NOX VOC		0 4005
010	PRINTING INDUSTRIES	1100	EMPLOYEES		NOX VOC		0 110
011	SOLVENT PURCHASED	635	TON		NOX VOC		0 635
012	CUTBACK ASPHALT	1033	TON		NOX VOC		0 1033
013	PESTICIDES	239135	ACRE		NOX VOC		0 418

TABLE 9 (continued)

STATE SUMMARY												
CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RATE	UNITS	POLLUTANT I.D.	EMISSION FACTOR	EMISSIONS ESTIMATE						
014	ON-HIGHWAY LDV	4847103	THOUS VMT	NOX VOC		17155 23550						
015	ON-HIGHWAY LDT1	557384	THOUS VMT	NOX VOC		2821 4062						
016	ON-HIGHWAY LDT2	557884	THOUS VMT	NOX VOC		2821 4062						
017	ON-HIGHWAY HDG	262377	THOUS VMT	NOX VOC		3815 3873						
018	ON-HIGHWAY HDG	262077	THOUS VMT	NOX VOC		3815 3873						
020	RESIDENTIAL ANTHRAC COAL	3301	TONS	NOX VOC		5 4						
021	RESIDENTIAL BITUMIN COAL	11253	TONS	NOX VOC		18 112						
023	RESIDENTIAL DISTILL OIL	407565	THOUS GAL	NOX VOC		3587 224						
025	RESIDENTIAL LPG	21350	THOUS GAL	NOX VOC		79 5						
026	RESIDENTIAL WOOD	1132187	TONS	NOX VOC		129 539						
032	COMM/INST LPG	19996	THOUS GAL	NOX VOC		109 7						
039	INDUSTRIAL LPG	9999	THOUS GAL	NOX VOC		59 3						
041	MILITARY AIRCRAFT LT00S	27400	LBS/TAKE OFF	NOX VOC		125 371						

TABLE 9 (cont inued)

STATE SUMMARY								
CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS R-TL	UNITS	POLLUTANT I.D.	EMISSION FACTOR	EMISSIONS ESTIMATE		
043	COMMERCIAL AIRCRAFT LTGS	31833	LND/TAKE OFF	NOX VOC		429 488		
044	RAILROAD LOCOMOTIVES	5351	THOUS GAL	NOX VOC		1285 325		
045	GASOLINE VESSELS	8808	THOUS GAL	NOX VOC		168 4176		
046	DIESEL OIL VESSELS	0	*****	NOX VOC		37 5		
047	RESIDUAL OIL VESSELS	14176	THOUS GAL	NOX VOC		258 23		
048	OFF-HIGHWAY GASOLINE	10007	THOUS GAL	NOX VOC		570 1335		
049	OFF-HIGHWAY DIESEL	13106	THOUS GAL	NOX VOC		5001 475		
050	ON-SITE INCINERATION	123102	TON	NOX VOC		139 2473		
051	OPEN BURNING	63520	TON	NOX VOC		190 954		
052	STRUCTURAL FIRES	938159	POPULATION	NOX VOC		49 301		
053	FIELD/SLASH BURNING	5500	ACRE	NOX VOC		2 128		
054	FOREST WLD FIRES	362	ACRE	NOX VOC		20 115		
STATE OR REGION TOTALS						42763 65403		

*See Figure 2.

SECTION 5

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APPENDIX A

POINT SOURCES EMISSIONS BY CATEGORY FOR THE
MAINE COUNTIES IN THE NECRMP STUDY AREA

Table A-1 presents point source emissions, by category, for each of the Maine counties within the NECRMP Study Area, which are listed below.

<u>County</u>	<u>EIS/NEDS County Code</u>
Androscoggin	0027
Cumberland	0277
Franklin	0445
Kennebec	0547
Knox	0595
Lincoln	0645
Oxford	0885
Sagadahoc	1065
Somerset	1125
Waldo	1183
York	1325

TABLE A-1. POINT SOURCE EMISSIONS (1979) BY CATEGORY FOR THE MAINE COUNTIES WITHIN THE NECRMP STUDY AREA

COUNTY:0027

CATEGORY	POINT COUNT	----- TSP	PRIMARY SO2	EMISSIONS NOX	(TONS/YEAR) HC	----- CO
1 OIL AND GAS PRODUCTION & PROCESSING	0	0	0	0	0	0
2 SYN. ORGANIC CHEM. STORAGE & TRANSFER	0	0	0	0	0	0
3 GASOLINE AND CRUDE OIL STORAGE	0	0	0	0	0	0
4 SHIP AND BARGE TRANSFER OF VOC	0	0	0	0	0	0
5 BARGE AND TANKER CLEANING	0	0	0	0	0	0
6 BULK GASOLINE TERMINALS	2	0	0	0	21	0
7 GASOLINE BULK PLANTS	0	0	0	0	0	0
8 TANK TRUCK LOADING	1	0	0	0	33	0
9 SERVICE STATION LOADING (STAGE I)	0	0	0	0	0	0
10 SERVICE STATION UNLOADING (STAGE II)	0	0	0	0	0	0
11 OTHERS-STORAGE, TRANSP., MKT OF VOC	0	0	0	0	0	0
12 LUBE OIL MANUFACTURE	0	0	0	0	0	0
13 PETROLEUM REFINERIES	0	0	0	0	0	0
14 PHARMACEUTICAL MANUFACTURE	0	0	0	0	0	0
15 TEXTILE POLYMERS & RESIN MANUFACTURE	0	0	0	0	0	0
16 SYNTHETIC FIBER MANUFACTURE	0	0	0	0	0	0
17 ORGANIC CHEMICAL MANUFACTURE	0	0	0	0	0	0
18 INORGANIC CHEMICAL MANUFACTURE	0	0	0	0	0	0
19 FERMENTATION PROCESSES	0	0	0	0	0	0
20 VEGETABLE OIL PROCESSING	0	0	0	0	0	0
21 PLASTIC PRODUCTS MANUFACTURE	2	108	0	0	966	0
22 RUBBER TIRE MANUFACTURE	0	0	0	0	0	0
23 SBR RUBBER MANUFACTURE	0	0	0	0	0	0
24 OTHER CHEMICAL MANUFACTURE	1	5	0	0	0	0
25 IRON AND STEEL MANUFACTURE	0	0	0	0	0	0
26 TOBACCO PRODUCTS	0	0	0	0	0	0
27 FOOD PRODUCTS	0	0	0	0	0	0
28 TEXTILE MILL PRODUCTS	0	0	0	0	0	0
29 LUMBER AND WOOD PRODUCTS	0	0	0	0	0	0
30 PAPER AND ALLIED PRODUCTS	0	0	0	0	0	0
31 STONE, CLAY, GLASS, CONCRETE	19	51	3	3	0	0
32 PRIMARY & SECONDARY METALS & ELECTRICAL	0	0	0	0	0	0
33 FABRICATED METAL PRODUCTS	0	0	0	0	0	0
34 IN-PROCESS FUEL USE	0	0	0	0	0	0
35 OTHERS - (INDUSTRIAL PROCESSES)	0	0	0	0	0	0
36 ADHESIVES	0	0	0	0	0	0
37 IND. SFC. COATING-LARGE APPLIANCES	0	0	0	0	0	0
38 IND. SFC. COATING-MAGNET WIRE	0	0	0	0	0	0
39 IND. SFC. COATING-AUTOMOBILE	0	0	0	0	0	0
40 IND. SFC. COATING-CANS	0	0	0	0	0	0
41 IND. SFC. COATING-METAL COILS	0	0	0	0	0	0
42 IND. SFC. COATING-PAPER	0	0	0	0	0	0
43 IND. SFC. COATING-FABRIC	0	0	0	0	0	0
44 IND. SFC. COATING-MISC. FURNITURE	0	0	0	0	0	0
45 IND. SFC. COATING-METAL/WOOD PRODUCTS	0	0	0	0	0	0
46 PLASTIC PARTS PAINTING	0	0	0	0	0	0
47 LARGE SHIPS	0	0	0	0	0	0
48 LARGE AIRCRAFT	0	0	0	0	0	0
49 IND. SFC. COATING-MISC-METAL PRODUCTS	0	0	0	0	0	0
50 OTHERS - (INDUSTRIAL SURFACE COATING)	0	0	0	0	0	0

TABLE A-1 (continued)

COUNTY:0027

CATEGORY	POINT COUNT	----- TSP	PRIMARY SO2	SCC NOX	EMISSIONS (TONS/YEAR)	----- CO
51 DEGREASING	2	0	0	0	165	0
52 DRY CLEANING	0	0	0	0	0	0
53 GRAPHIC ARTS	1	0	0	0	21	0
54 OTHER - (SOLVENT USE)	0	0	0	0	0	0
55 ARCHITECTURAL COATINGS	0	0	0	0	0	0
56 AUTO REFINISHING	0	0	0	0	0	0
57 OTHERS-(NON-INDUSTRIAL SURFACE COATING)	0	0	0	0	0	0
58 EXT. COMB. BOILERS-ELEC. GENERATION	0	0	0	0	0	0
59 EXT. COMB. BOILERS-INDUSTRIAL	34	68	2167	354	4	27
60 EXT. COMB. BOILERS-COMM/INST	15	11	373	64	0	3
61 EXT. COMB. SPACE HEATERS-INDUST.	0	0	0	0	0	0
62 EXT. COMB. SPACE HEATERS-COMM.	0	0	0	0	0	0
63 OTHERS-(FUEL COMBUSTION)	0	0	0	0	0	0
64 SOLID WASTE DISPOSAL-GOVT.	1	4	0	0	0	0
65 SOLID WASTE DISPOSAL-COMM/INST	2	0	0	0	0	0
66 SOLID WASTE DISPOSAL-INDUSTRIAL	0	0	0	0	0	0
67 OTHER SOLID WASTE DISPOSAL	0	0	0	0	0	0
68 WASTE SOLVENT RECOVERY PROCESSES	4	0	0	0	126	0
69 STATIONARY INTERNAL COMBUSTION ENGINES	0	0	0	0	0	0
70 NOT CLASSIFIED	0	0	0	0	0	0
COUNTY TOTALS		247	2543	421	1336	30

TABLE A-1 (continued)

COUNTY: 0277

CATEGORY	POINT COUNT	----- TSP	PRIMARY SO2	SCC EMISSIONS NOX	HC	CO
1 OIL AND GAS PRODUCTION & PROCESSING	0	0	0	0	0	0
2 SYN. ORGANIC CHEM. STORAGE & TRANSFER	0	0	0	0	0	0
3 GASOLINE AND CRUDE OIL STORAGE	1	0	0	0	173	0
4 SHIP AND BARGE TRANSFER OF VOC	1	0	0	0	270	0
5 BARGE AND TANKER CLEANING	0	0	0	0	0	0
6 BULK GASOLINE TERMINALS	41	0	0	0	2045	0
7 GASOLINE BULK PLANTS	0	0	0	0	0	0
8 TANK TRUCK LOADING	10	0	0	0	3177	0
9 SERVICE STATION LOADING (STAGE I)	0	0	0	0	0	0
10 SERVICE STATION UNLOADING (STAGE II)	0	0	0	0	0	0
11 OTHERS--(STORAGE, TRANSP., MKT OF VOC)	0	0	0	0	0	0
12 LUBE OIL MANUFACTURE	0	0	0	0	0	0
13 PETROLEUM REFINERIES	0	0	0	0	0	0
14 PHARMACEUTICAL MANUFACTURE	0	0	0	0	0	0
15 TEXTILE POLYMERS & RESIN MANUFACTURE	0	0	0	0	0	0
16 SYNTHETIC FIBER MANUFACTURE	0	0	0	0	0	0
17 ORGANIC CHEMICAL MANUFACTURE	0	0	0	0	0	0
18 INORGANIC CHEMICAL MANUFACTURE	0	0	0	0	0	0
19 FERTILIZATION PROCESSES	0	0	0	0	0	0
20 VEGETABLE OIL PROCESSING	0	0	0	0	0	0
21 PLASTIC PRODUCTS MANUFACTURE	0	0	0	0	0	0
22 RUBBER TIRE MANUFACTURE	0	0	0	0	0	0
23 SBR RUBBER MANUFACTURE	0	0	0	0	0	0
24 OTHER CHEMICAL MANUFACTURE	0	0	0	0	0	0
25 IRON AND STEEL MANUFACTURE	2	3	2	16	10	0
26 TOBACCO PRODUCTS	0	0	0	0	0	0
27 FOOD PRODUCTS	0	0	0	0	0	0
28 TEXTILE MILL PRODUCTS	0	0	0	0	0	0
29 LUMBER AND WOOD PRODUCTS	0	0	0	0	0	0
30 PAPER AND ALLIED PRODUCTS	0	0	0	0	0	0
31 STONE, CLAY, GLASS, CONCRETE	3	195	270	102	0	2093
32 PRIMARY & SECONDARY METALS & ELECTRICAL	17	325	55	16	1	0
33 FABRICATED METAL PRODUCTS	1	0	0	0	0	0
34 IN-PROCESS FUEL USE	0	0	0	0	0	0
35 OTHERS' - (INDUSTRIAL PROCESSES)	0	0	0	0	0	0
36 ADHESIVES	0	0	0	0	0	0
37 IND. SFC. COATING-LARGE APPLIANCES	0	0	0	0	0	0
38 IND. SFC. COATING-MAGNET WIRE	0	0	0	0	0	0
39 IND. SFC. COATING-AUTOMOBILE	0	0	0	0	0	0
40 IND. SFC. COATING-CANS	1	0	0	0	5	0
41 IND. SFC. COATING-METAL COILS	0	0	0	0	0	0
42 IND. SFC. COATING-PAPER	0	0	0	0	0	0
43 IND. SFC. COATING-FABRIC	0	0	0	0	0	0
44 IND. SFC. COATING-MISC. FURNITURE	0	0	0	0	0	0
45 IND. SFC. COATING-METAL/WOOD PRODUCTS	0	0	0	0	0	0
46 PLASTIC PARTS PAINTING	0	0	0	0	0	0
47 LARGE SHIPS	2	0	0	0	29	0
48 LARGE AIRCRAFT	0	0	0	0	0	0
49 IND. SFC. COATING-MISC. METAL PRODUCTS	1	0	0	0	58	0
50 OTHERS - (INDUSTRIAL SURFACE COATING)	4	0	0	0	876	0

TABLE A-1 (continued)

COUNTY: 0277

CATEGORY	POINT COUNT	----- TSP	PRIMARY SO2	SCC EMISSIONS (TONS/YEAR) NOX	HC	----- CO
51 DEGREASING	3	0	0	0	106	0
52 DRY CLEANING	0	0	0	0	0	0
53 GRAPHIC ARTS	1	0	0	0	50	0
54 OTHER - (SOLVENT USE)	0	0	0	0	0	0
55 ARCHITECTURAL COATINGS	0	0	0	0	0	0
56 AUTO REFINISHING	0	0	0	0	0	0
57 OTHERS-(NON-INDUSTRIAL SURFACE COATING)	0	0	0	0	0	0
58 EXT. COMB. BOILERS-ELEC. GENERATION	5	122	7645	3107	37	189
59 EXT. COMB. BOILERS-INDUSTRIAL	53	371	6655	1242	44	116
60 EXT. COMB. BOILERS-COMM/INST	79	28	1310	205	1	14
61 EXT. COMB. SPACE HEATERS-INDUST.	0	0	0	0	0	0
62 EXT. COMB. SPACE HEATERS-COMM.	0	0	0	0	0	0
63 OTHERS-(FUEL COMBUSTION)	0	0	0	0	0	0
64 SOLID WASTE DISPOSAL-GOVT.	1	62	5	7	3	76
65 SOLID WASTE DISPOSAL-COMM/INST	1	0	0	0	0	0
66 SOLID WASTE DISPOSAL-INDUSTRIAL	0	0	0	0	0	0
67 OTHER SOLID WASTE DISPOSAL	0	0	0	0	0	0
68 WASTE SOLVENT RECOVERY PROCESSES	4	0	0	0	180	0
69 STATIONARY INTERNAL COMBUSTION ENGINES	0	0	0	0	0	0
70 NOT CLASSIFIED	1	0	0	0	34	0
COUNTY TOTALS		1106	15942	4695	7099	2488

TABLE A-1 (continued)

COUNTY:0445

CATEGORY	POINT COUNT	----- TSP	PRIMARY SO2	SCC NOX	EMISSIONS (TONS/YEAR)	HC	CO
1 OIL AND GAS PRODUCTION & PROCESSING	0	0	0	0	0	0	0
2 SYN. ORGANIC CHEM. STORAGE & TRANSFER	0	0	0	0	0	0	0
3 GASOLINE AND CRUDE OIL STORAGE	0	0	0	0	0	0	0
4 SHIP AND BARGE TRANSFER OF VOC	0	0	0	0	0	0	0
5 BARGE AND TANKER CLEANING	0	0	0	0	0	0	0
6 BULK GASOLINE TERMINALS	0	0	0	0	0	0	0
7 GASOLINE BULK PLANTS	0	0	0	0	0	0	0
8 TANK TRUCK LOADING	0	0	0	0	0	0	0
9 SERVICE STATION LOADING (STAGE I)	0	0	0	0	0	0	0
10 SERVICE STATION UNLOADING (STAGE II)	0	0	0	0	0	0	0
11 OTHERS-(STORAGE, TRANSP., MKT OF VOC)	0	0	0	0	0	0	0
12 LUBE OIL MANUFACTURE	0	0	0	0	0	0	0
13 PETROLEUM REFINERIES	0	0	0	0	0	0	0
14 PHARMACEUTICAL MANUFACTURE	0	0	0	0	0	0	0
15 TEXTILE POLYMERS & RESIN MANUFACTURE	0	0	0	0	0	0	0
16 SYNTHETIC FIBER MANUFACTURE	0	0	0	0	0	0	0
17 ORGANIC CHEMICAL MANUFACTURE	0	0	0	0	0	0	0
18 INORGANIC CHEMICAL MANUFACTURE	0	0	0	0	0	0	0
19 FERMENTATION PROCESSES	0	0	0	0	0	0	0
20 VEGETABLE OIL PROCESSING	0	0	0	0	0	0	0
21 PLASTIC PRODUCTS MANUFACTURE	0	0	0	0	0	0	0
22 RUBBER TIRE MANUFACTURE	0	0	0	0	0	0	0
23 SBR RUBBER MANUFACTURE	0	0	0	0	0	0	0
24 OTHER CHEMICAL MANUFACTURE	0	0	0	0	0	0	0
25 IRON AND STEEL MANUFACTURE	0	0	0	0	0	0	0
26 TOBACCO PRODUCTS	0	0	0	0	0	0	0
27 FOOD PRODUCTS	0	0	0	0	0	0	0
28 TEXTILE MILL PRODUCTS	0	0	0	0	0	0	0
29 LUMBER AND WOOD PRODUCTS	0	0	0	0	0	0	0
30 PAPER AND ALLIED PRODUCTS	6	171	1101	415	0	0	8522
31 STONE,CLAY,GLASS,CONCRETE	2	0	0	0	0	0	0
32 PRIMARY & SECONDARY METALS & ELECTRICAL	0	0	0	0	0	0	0
33 FABRICATED METAL PRODUCTS	0	0	0	0	0	0	0
34 IN-PROCESS FUEL USE	0	0	0	0	0	0	0
35 OTHERS - (INDUSTRIAL PROCESSES)	1	0	0	0	0	0	0
36 ADHESIVES	0	0	0	0	0	0	0
37 IND. SFC. COATING-LARGE APPLIANCES	0	0	0	0	0	0	0
38 IND. SFC. COATING-MAGNET WIRE	0	0	0	0	0	0	0
39 IND. SFC. COATING-AUTOMOBILE	0	0	0	0	0	0	0
40 IND. SFC. COATING-CANS	0	0	0	0	0	0	0
41 IND. SFC. COATING-METAL COILS	0	0	0	0	0	0	0
42 IND. SFC. COATING-PAPER	0	0	0	0	0	0	0
43 IND. SFC. COATING-FABRIC	0	0	0	0	0	0	0
44 IND. SFC. COATING-MISC. FURNITURE	0	0	0	0	0	0	0
45 IND. SFC. COATING-METAL/WOOD PRODUCTS	0	0	0	0	0	0	0
46 PLASTIC PARTS PAINTING	0	0	0	0	0	0	0
47 LARGE SHIPS	0	0	0	0	0	0	0
48 LARGE AIRCRAFT	0	0	0	0	0	0	0
49 IND. SFC. COATING-MISC-METAL PRODUCTS	0	0	0	0	0	0	0
50 OTHERS - (INDUSTRIAL SURFACE COATING)	1	0	0	0	0	40	0

TABLE A-1 (continued)

COUNTY:0445

CATEGORY	POINT COUNT	----- TSP	PRIMARY SO2	EMISSIONS NOX	(TONS/YEAR) HC	----- CO
51 DEGRASSING	0	0	0	0	0	0
52 DRY CLEANING	0	0	0	0	0	0
53 GRAPHIC ARTS	0	0	0	0	0	0
54 OTHER - (SOLVENT USE)	0	0	0	0	0	0
55 ARCHITECTURAL COATINGS	0	0	0	0	0	0
56 AUTO REFINISHING	0	0	0	0	0	0
57 OTHERS-(NON-INDUSTRIAL SURFACE COATING)	0	0	0	0	0	0
58 EXT. COMB. BOILERS-ELEC. GENERATION	0	0	0	0	0	0
59 EXT. COMB. BOILERS-INDUSTRIAL	13	1165	10877	2571	189	308
60 EXT. COMB. BOILERS-COMM/INST	5	0	22	6	0	1
61 EXT. COMB. SPACE HEATERS-INDUST.	0	0	0	0	0	0
62 EXT. COMB. SPACE HEATERS-COMM.	0	0	0	0	0	0
63 OTHERS-(FUEL COMBUSTION)	0	0	0	0	0	0
64 SOLID WASTE DISPOSAL-GOVT.	0	0	0	0	0	0
65 SOLID WASTE DISPOSAL-COMM/INST	0	0	0	0	0	0
66 SOLID WASTE DISPOSAL-INDUSTRIAL	0	0	0	0	0	0
67 OTHER SOLID WASTE DISPOSAL	0	0	0	0	0	0
68 WASTE SOLVENT RECOVERY PROCESSES	3	0	0	0	474	0
69 STATIGARY INTERNAL COMBUSTION ENGINES	0	0	0	0	0	0
70 NOT CLASSIFIED	0	0	0	0	0	0
COUNTY TOTALS		1336	12000	2992	703	8531

TABLE A-1 (continued)

COUNTY:0547

CATEGORY	POINT COUNT	----- TSP	PRIMARY SC2	EMISSIONS NOX	(TONS/YEAR) HC	----- CO
1 OIL AND GAS PRODUCTION & PROCESSING	0	0	0	0	0	0
2 SYN. ORGANIC CHEM. STORAGE & TRANSFER	0	0	0	0	0	0
3 GASOLINE AND CRUDE OIL STORAGE	0	0	0	0	0	0
4 SHIP AND BARGE TRANSFER OF VOC	0	0	0	0	0	0
5 BARGE AND TANKER CLEANING	0	0	0	0	0	0
6 BULK GASOLINE TERMINALS	3	0	0	0	81	0
7 GASOLINE BULK PLANTS	2	0	0	0	39	0
8 TANK TRUCK LOADING	1	0	0	0	45	0
9 SERVICE STATION LOADING (STAGE I)	0	0	0	0	0	0
10 SERVICE STATION UNLOADING (STAGE II)	0	0	0	0	0	0
11 OTHERS-STORAGE, TRANSF., MKT OF VOC	0	0	0	0	0	0
12 LUBE OIL MANUFACTURE	0	0	0	0	0	0
13 PETROLEUM REFINERIES	0	0	0	0	0	0
14 PHARMACEUTICAL MANUFACTURE	0	0	0	0	0	0
15 TEXTILE POLYMERS & RESIN MANUFACTURE	0	0	0	0	0	0
16 SYNTHETIC FIBER MANUFACTURE	0	0	0	0	0	0
17 ORGANIC CHEMICAL MANUFACTURE	0	0	0	0	0	0
18 INORGANIC CHEMICAL MANUFACTURE	0	0	0	0	0	0
19 FERMENTATION PROCESSES	0	0	0	0	0	0
20 VEGETABLE OIL PROCESSING	0	0	0	0	0	0
21 PLASTIC PRODUCTS MANUFACTURE	0	0	0	0	0	0
22 RUBBER TIRE MANUFACTURE	0	0	0	0	0	0
23 SBR RUBBER MANUFACTURE	0	0	0	0	0	0
24 OTHER CHEMICAL MANUFACTURE	0	0	0	0	0	0
25 IRON AND STEEL MANUFACTURE	0	0	0	0	0	0
26 TOBACCO PRODUCTS	0	0	0	0	0	0
27 FOOD PRODUCTS	1	0	0	0	25	0
28 TEXTILE MILL PRODUCTS	3	0	0	0	0	0
29 LUMBER AND WOOD PRODUCTS	0	0	0	0	0	0
30 PAPER AND ALLIED PRODUCTS	2	0	0	0	0	0
31 STONE, CLAY, GLASS, CONCRETE	11	69	0	0	0	0
32 PRIMARY & SECONDARY METALS & ELECTRICAL	0	0	0	0	0	0
33 FABRICATED METAL PRODUCTS	0	0	0	0	0	0
34 IN-PROCESS FUEL USE	0	0	0	0	0	0
35 OTHERS - (INDUSTRIAL PROCESSES)	0	0	0	0	0	0
36 ADHESIVES	0	0	0	0	0	0
37 IND. SEC. COATING-LARGE APPLIANCES	0	0	0	0	0	0
38 IND. SEC. COATING-MAGNET WIRE	0	0	0	0	0	0
39 IND. SEC. COATING-AUTOMOBILE	0	0	0	0	0	0
40 IND. SEC. COATING-CANS	0	0	0	0	0	0
41 IND. SEC. COATING-METAL COILS	0	0	0	0	0	0
42 IND. SEC. COATING-PAPER	0	0	0	0	0	0
43 IND. SEC. COATING-FABRIC	0	0	0	0	0	0
44 IND. SEC. COATING-MISC. FURNITURE	0	0	0	0	0	0
45 IND. SEC. COATING-METAL/WOOD PRODUCTS	0	0	0	0	0	0
46 PLASTIC PARTS PAINTING	0	0	0	0	0	0
47 LARGE SHIPS	0	0	0	0	0	0
48 LARGE AIRCRAFT	0	0	0	0	0	0
49 IND. SEC. COATING-MISC. METAL PRODUCTS	1	0	0	0	9	0
50 OTHERS - (INDUSTRIAL SURFACE COATING)	0	0	0	0	0	0

TABLE A-1 (continued)

COUNTY:0547

CATEGORY	POINT COUNT	----- TSP	PRIMARY SCC EMISSIONS (TONS/YEAR)	NOX	HC	CO
51 DEGREASING	3	0	0	0	96	0
52 DRY CLEANING	0	0	0	0	0	0
53 GRAPHIC ARTS	2	0	0	0	33	0
54 OTHER - (SOLVENT USE)	0	0	0	0	0	0
55 ARCHITECTURAL COATINGS	0	0	0	0	0	0
56 AUTO REFINISHING	0	0	0	0	0	0
57 OTHERS-(NON-INDUSTRIAL SURFACE COATING)	0	0	0	0	0	0
58 EXT. COMB. BOILERS-ELEC. GENERATION	0	0	0	0	0	0
59 EXT. COMB. BOILERS-INDUSTRIAL	26	309	6688	1411	80	133
60 EXT. COMB. BOILERS-COMM/INST	39	25	855	148	1	10
61 EXT. COMB. SPACE HEATERS-INDUST.	0	0	0	0	0	0
62 EXT. COMB. SPACE HEATERS-COMM.	0	0	0	0	0	0
63 OTHERS-(FUEL COMBUSTION)	0	0	0	0	0	0
64 SOLID WASTE DISPOSAL-GOVT.	0	0	0	0	0	0
65 SOLID WASTE DISPOSAL-COMM/INST	0	0	0	0	0	0
66 SOLID WASTE DISPOSAL-INDUSTRIAL	0	0	0	0	0	0
67 OTHER SOLID WASTE DISPOSAL	0	0	0	0	0	0
68 WASTE SOLVENT RECOVERY PROCESSES	1	0	0	0	16	0
69 STATIONARY INTERNAL COMBUSTION ENGINES	0	0	0	0	0	0
70 NOT CLASSIFIED	0	0	0	0	0	0
COUNTY TOTALS		406	7543	1559	425	144

TABLE A-1 (continued)

COUNTY:0595

CATEGORY	POINT COUNT	----- TSP	PRIMARY SCC	EMISSIONS SO2	NOX	HC	----- CO
1 OIL AND GAS PRODUCTION & PROCESSING	0	0	0	0	0	0	0
2 SYN. ORGANIC CHEM. STORAGE & TRANSFER	0	0	0	0	0	0	0
3 GASOLINE AND CRUDE OIL STORAGE	0	0	0	0	0	0	0
4 SHIP AND BARGE TRANSFER OF VOC	0	0	0	0	0	0	0
5 BARGE AND TANKER CLEANING	0	0	0	0	0	0	0
6 BULK GASOLINE TERMINALS	0	0	0	0	0	0	0
7 GASOLINE BULK PLANTS	0	0	0	0	0	0	0
8 TANK TRUCK LOADING	0	0	0	0	0	0	0
9 SERVICE STATION LOADING (STAGE I)	0	0	0	0	0	0	0
10 SERVICE STATION UNLOADING (STAGE II)	0	0	0	0	0	0	0
11 OTHERS-(STORAGE, TRANS., MKT OF VOC)	0	0	0	0	0	0	0
12 LUBE OIL MANUFACTURE	0	0	0	0	0	0	0
13 PETROLEUM REFINERIES	0	0	0	0	0	0	0
14 PHARMACEUTICAL MANUFACTURE	0	0	0	0	0	0	0
15 TEXTILE POLYMERS & RESIN MANUFACTURE	0	0	0	0	0	0	0
16 SYNTHETIC FIBER MANUFACTURE	0	0	0	0	0	0	0
17 ORGANIC CHEMICAL MANUFACTURE	0	0	0	0	0	0	0
18 INORGANIC CHEMICAL MANUFACTURE	0	0	0	0	0	0	0
19 FERMENTATION PROCESSES	0	0	0	0	0	0	0
20 VEGETABLE OIL PROCESSING	0	0	0	0	0	0	0
21 PLASTIC PRODUCTS MANUFACTURE	0	0	0	0	0	0	0
22 RUBBER TIRE MANUFACTURE	0	0	0	0	0	0	0
23 SBR RUBBER MANUFACTURE	0	0	0	0	0	0	0
24 OTHER CHEMICAL MANUFACTURE	0	0	0	0	0	0	0
25 IRON AND STEEL MANUFACTURE	0	0	0	0	0	0	0
26 TOBACCO PRODUCTS	0	0	0	0	0	0	0
27 FOOD PRODUCTS	1	0	0	0	0	0	0
28 TEXTILE MILL PRODUCTS	0	0	0	0	0	0	0
29 LUMBER AND WOOD PRODUCTS	0	0	0	0	0	0	0
30 PAPER AND ALLIED PRODUCTS	0	0	0	0	0	0	0
31 STONE,CLAY, GLASS, CONCRETE	0	0	0	0	0	0	0
32 PRIMARY & SECONDARY METALS & ELECTRICAL	21	2508	2162	551	0	0	0
33 FABRICATED METAL PRODUCTS	0	0	0	0	0	0	0
34 IN-PROCESS FULL USE	1	0	0	0	0	0	0
35 OTHERS - (INDUSTRIAL PROCESSES)	0	0	0	0	0	0	0
36 ADHESIVES	0	0	0	0	0	0	0
37 IND. SFC. COATING-LARGE APPLIANCES	0	0	0	0	0	0	0
38 IND. SFC. COATING-MAGNET WIRE	0	0	0	0	0	0	0
39 IND. SFC. COATING-AUTOMOBILE	0	0	0	0	0	0	0
40 IND. SFC. COATING-CANS	0	0	0	0	0	0	0
41 IND. SFC. COATING-METAL COILS	0	0	0	0	0	0	0
42 IND. SFC. COATING-PAPER	0	0	0	0	0	0	0
43 IND. SFC. COATING-FABRIC	0	0	0	0	0	0	0
44 IND. SFC. COATING-MISC. FURNITURE	0	0	0	0	0	0	0
45 IND. SFC. COATING-METAL/WOOD PRODUCTS	0	0	0	0	0	0	0
46 PLASTIC PARTS PAINTING	0	0	0	0	0	0	0
47 LARGE SHIPS	0	0	0	0	0	0	0
48 LARGE AIRCRAFT	0	0	0	0	0	0	0
49 IND. SFC. COATING-MISC. METAL PRODUCTS	0	0	0	0	0	0	0
50 OTHERS - (INDUSTRIAL SURFACE COATING)	1	0	0	0	0	130	0

TABLE A-1 (continued)

COUNTY: 0595

CATEGORY	POINT COUNT	----- TSP	PRIMARY SO2	EMISSIONS NOX	(TONS/YEAR) HC	----- CO
51 DEGREASING	0	0	0	0	0	0
52 DRY CLEANING	0	0	0	0	0	0
53 GRAPHIC ARTS	0	0	0	0	0	0
54 OTHER - (SOLVENT USE)	0	0	0	0	0	0
55 ARCHITECTURAL COATINGS	0	0	0	0	0	0
56 AUTO REFINISHING	0	0	0	0	0	0
57 OTHERS-(NON-INDUSTRIAL SURFACE COATING)	0	0	0	0	0	0
58 EXT. COMB. BOILERS-ELEC. GENERATION	0	0	0	0	0	0
59 EXT. COMB. BOILERS-INDUSTRIAL	15	39	1177	203	3	16
60 EXT. COMB. BOILERS-COMM/INST	6	5	178	29	2	2
61 EXT. COMB. SPACE HEATERS-INDUST.	0	0	0	0	0	0
62 EXT. COMB. SPACE HEATERS-COMM.	0	0	0	0	0	0
63 OTHERS-(FUEL COMBUSTION)	0	0	0	0	0	0
64 SOLID WASTE DISPOSAL-GOVT.	0	0	0	0	0	0
65 SOLID WASTE DISPOSAL-COMM/INST	0	0	0	0	0	0
66 SOLID WASTE DISPOSAL-INDUSTRIAL	0	0	0	0	0	0
67 OTHER SOLID WASTE DISPOSAL	0	0	0	0	0	0
68 WASTE SOLVENT RECOVERY PROCESSES	1	0	0	0	86	0
69 STATIONARY INTERNAL COMBUSTION ENGINES	0	0	0	0	0	0
70 NOT CLASSIFIED	0	0	0	0	0	0
COUNTY TOTALS		2552	3517	783	221	18

TABLE A-1 (continued)

COUNTY:0645

CATEGORY	POINT COUNT	----- TSP	PRIMARY SO2	SCC EMISSIONS NOX	HC	CO
1 OIL AND GAS PRODUCTION & PROCESSING	0	0	0	0	0	0
2 SYN. ORGANIC CHEM. STORAGE & TRANSFER	0	0	0	0	0	0
3 GASOLINE AND CRUDE OIL STORAGE	0	0	0	0	0	0
4 SHIP AND BARGE TRANSFER OF VOC	0	0	0	0	0	0
5 BARGE AND TANKER CLEANING	0	0	0	0	0	0
6 BULK GASOLINE TERMINALS	0	0	0	0	0	0
7 GASOLINE BULK PLANTS	1	0	0	0	11	0
8 TANK TRUCK LOADING	0	0	0	0	0	0
9 SERVICE STATION LOADING (STAGE I)	0	0	0	0	0	0
10 SERVICE STATION UNLOADING (STAGE II)	0	0	0	0	0	0
11 OTHERS-(STORAGE, TRANSP., MKT OF VOC).	0	0	0	0	0	0
12 LUBE OIL MANUFACTURE	0	0	0	0	0	0
13 PETROLEUM REFINERIES	0	0	0	0	0	0
14 PHARMACEUTICAL MANUFACTURE	0	0	0	0	0	0
15 TEXTILE POLYMERS & RESIN MANUFACTURE	0	0	0	0	0	0
16 SYNTHETIC FIBER MANUFACTURE	0	0	0	0	0	0
17 ORGANIC CHEMICAL MANUFACTURE	0	0	0	0	0	0
18 INORGANIC CHEMICAL MANUFACTURE	0	0	0	0	0	0
19 FERMENTATION PROCESSES	0	0	0	0	0	0
20 VEGETABLE OIL PROCESSING	0	0	0	0	0	0
21 PLASTIC PRODUCTS MANUFACTURE	0	0	0	0	0	0
22 RUBBER TIRE MANUFACTURE	0	0	0	0	0	0
23 SBR RUBBER MANUFACTURE	0	0	0	0	0	0
24 OTHER CHEMICAL MANUFACTURE	0	0	0	0	0	0
25 IRON AND STEEL MANUFACTURE	0	0	0	0	0	0
26 TOBACCO PRODUCTS	0	0	0	0	0	0
27 FOOD PRODUCTS	0	0	0	0	0	0
28 TEXTILE MILL PRODUCTS	0	0	0	0	0	0
29 LUMBER AND WOOD PRODUCTS	0	0	0	0	0	0
30 PAPER AND ALLIED PRODUCTS	0	0	0	0	0	0
31 STONE,CLAY,GLASS,CONCRETE	0	0	0	0	0	0
32 PRIMARY & SECONDARY METALS & ELECTRICAL	0	0	0	0	0	0
33 FABRICATED METAL PRODUCTS	0	0	0	0	0	0
34 IN-PROCESS FUEL USE	0	0	0	0	0	0
35 OTHERS - (INDUSTRIAL PROCESSES)	0	0	0	0	0	0
36 ADHESIVES	0	0	0	0	0	0
37 IND. SFC. COATING-LARGE APPLIANCES	0	0	0	0	0	0
38 IND. SFC. COATING-MAGNET WIRE	0	0	0	0	0	0
39 IND. SFC. COATING-AUTOMOBILE	0	0	0	0	0	0
40 IND. SFC. COATING-CANS	0	0	0	0	0	0
41 IND. SFC. COATING-METAL COILS	0	0	0	0	0	0
42 IND. SFC. COATING-PAPER	0	0	0	0	0	0
43 IND. SFC. COATING-FABRIC	0	0	0	0	0	0
44 IND. SFC. COATING-MISC. FURNITURE	0	0	0	0	0	0
45 IND. SFC. COATING-METAL/HOOD PRODUCTS	0	0	0	0	0	0
46 PLASTIC PARTS PAINTING	0	0	0	0	0	0
47 LARGE SHIPS	0	0	0	0	0	0
48 LARGE AIRCRAFT	0	0	0	0	0	0
49 IND. SFC. COATING-MISC.METAL PRODUCTS	0	0	0	0	0	0
50 OTHERS - (INDUSTRIAL SURFACE COATING)	0	0	0	0	0	0

TABLE A-1 (continued)

COUNTY: 0645

CATEGORY	POINT COUNT	----- TSP	PRIMARY SO2	SCC NOX	EMISSIONS (TONS/YEAR)	----- CO
51 DEGREASING	0	0	0	0	0	0
52 DRY CLEANING	0	0	0	0	0	0
53 GRAPHIC ARTS	0	0	0	0	0	0
54 OTHER - (SOLVENT USE)	0	0	0	0	0	0
55 ARCHITECTURAL COATINGS	0	0	0	0	0	0
56 AUTO REFINISHING	0	0	0	0	0	0
57 OTHERS-(NON-INDUSTRIAL SURFACE COATING)	0	0	0	0	0	0
58 EXT. COMB. BOILERS-ELEC. GENERATION	7	22	2706	715	6	36
59 EXT. COMB. BOILERS-INDUSTRIAL	3	0	27	3	0	0
60 EXT. COMB. BOILERS-COMM/INST	2	0	9	2	0	0
61 EXT. COMB. SPACE HEATERS-INDUST.	0	0	0	0	0	0
62 EXT. COMB. SPACE HEATERS-COMM.	0	0	0	0	0	0
63 OTHERS-(FUEL COMBUSTION)	0	0	0	0	0	0
64 SOLID WASTE DISPOSAL-GOVT.	0	0	0	0	0	0
65 SOLID WASTE DISPOSAL-COMM/INST	0	0	0	0	0	0
66 SOLID WASTE DISPOSAL-INDUSTRIAL	0	0	0	0	0	0
67 OTHER SOLID WASTE DISPOSAL	0	0	0	0	0	0
68 WASTE SOLVENT RECOVERY PROCESSES	0	0	0	0	0	0
69 STATIONARY INTERNAL COMBUSTION ENGINES	0	0	0	0	0	0
70 NOT CLASSIFIED	0	0	0	0	0	0
COUNTY TOTALS		22	2742	720	17	36

TABLE A-1 (continued)

COUNTY:0885

CATEGORY	POINT COUNT	----- TSP	PRIMARY SCC SO2	EMISSIONS NOX	(TONS/YEAR) HC	----- CO
1 OIL AND GAS PRODUCTION & PROCESSING	0	0	0	0	0	0
2 SYN. ORGANIC CHEM. STORAGE & TRANSFER	0	0	0	0	0	0
3 GASOLINE AND CRUDE OIL STORAGE	0	0	0	0	0	0
4 SHIP AND BARGE TRANSFER OF VOC	0	0	0	0	0	0
5 BARGE AND TANKER CLEANING	0	0	0	0	0	0
6 BULK GASOLINE TERMINALS	0	0	0	0	0	0
7 GASOLINE BULK PLANTS	3	0	0	0	40	0
8 TANK TRUCK LOADING	0	0	0	0	0	0
9 SERVICE STATION LOADING (STAGE I)	0	0	0	0	0	0
10 SERVICE STATION UNLOADING (STAGE II)	0	0	0	0	0	0
11 OTHERS-(STORAGE, TRANSP., MKT OF VOC)	0	0	0	0	0	0
12 LUBE OIL MANUFACTURE	0	0	0	0	0	0
13 PETROLEUM REFINERIES	0	0	0	0	0	0
14 PHARMACEUTICAL MANUFACTURE	0	0	0	0	0	0
15 TEXTILE POLYMERS & RESIN MANUFACTURE	0	0	0	0	0	0
16 SYNTHETIC FIBER MANUFACTURE	0	0	0	0	0	0
17 ORGANIC CHEMICAL MANUFACTURE	0	0	0	0	0	0
18 INORGANIC CHEMICAL MANUFACTURE	0	0	0	0	0	0
19 FERMENTATION PROCESSES	0	0	0	0	0	0
20 VEGETABLE OIL PROCESSING	0	0	0	0	0	0
21 PLASTIC PRODUCTS MANUFACTURE	0	0	0	0	0	0
22 RUBBER TIRE MANUFACTURE	0	0	0	0	0	0
23 SBR RUBBER MANUFACTURE	0	0	0	0	0	0
24 OTHER CHEMICAL MANUFACTURE	0	0	0	0	0	0
25 IRON AND STEEL MANUFACTURE	0	0	0	0	0	0
26 TOBACCO PRODUCTS	0	0	0	0	0	0
27 FOOD PRODUCTS	0	0	0	0	0	0
28 TEXTILE MILL PRODUCTS	0	0	0	0	0	0
29 LUMBER AND WOOD PRODUCTS	1	420	0	0	17	0
30 PAPER AND ALLIED PRODUCTS	5	641	590	223	0	4571
31 STONE,CLAY,GLASS,CONCRETE	3	0	0	0	0	0
32 PRIMARY & SECONDARY METALS & ELECTRICAL	0	0	0	0	0	0
33 FABRICATED METAL PRODUCTS	0	0	0	0	0	0
34 IN-PROCESS FUEL USE	0	0	0	0	0	0
35 OTHERS - (INDUSTRIAL PROCESSES)	0	0	0	0	0	0
36 ADHESIVES	0	0	0	0	0	0
37 IND. SFC. COATING-LARGE APPLIANCES	0	0	0	0	0	0
38 IND. SFC. COATING-MAGNET WIRE	0	0	0	0	0	0
39 IND. SFC. COATING-AUTOMOBILE	0	0	0	0	0	0
40 IND. SFC. COATING-CANS	0	0	0	0	0	0
41 IND. SFC. COATING-METAL COILS	0	0	0	0	0	0
42 IND. SFC. COATING-PAPER	0	0	0	0	0	0
43 IND. SFC. COATING-FABRIC	0	0	0	0	0	0
44 IND. SFC. COATING-MISC. FURNITURE	0	0	0	0	0	0
45 IND. SFC. COATING-METAL/WOOD PRODUCTS	0	0	0	0	0	0
46 PLASTIC PARTS PAINTING	0	0	0	0	0	0
47 LARGE SHIPS	0	0	0	0	0	0
48 LARGE AIRCRAFT	0	0	0	0	0	0
49 IND. SFC. COATING-MISC.METAL PRODUCTS	1	0	0	0	96	0
50 OTHERS - (INDUSTRIAL SURFACE COATING)	3	0	0	0	332	0

TABLE A-1 (continued)

COUNTY:0885

CATEGORY	POINT COUNT	----- TSP	PRIMARY SO2	EMISSIONS NOX	(TONS/YEAR) HC	----- CO
51 DEGREASING	0	0	0	0	0	0
52 DRY CLEANING	0	0	0	0	0	0
53 GRAPHIC ARTS	0	0	0	0	0	0
54 OTHER - (SOLVENT USE)	0	0	0	0	0	0
55 ARCHITECTURAL COATINGS	0	0	0	0	0	0
56 AUTO REFINISHING	0	0	0	0	0	0
57 OTHERS-(NON-INDUSTRIAL SURFACE COATING)	0	0	0	0	0	0
58 EXT. COMB. BOILERS-ELEC. GENERATION	0	0	0	0	0	0
59 EXT. COMB. BOILERS-INDUSTRIAL	34	2350	6660	2745	356	428
60 EXT. COMB. BOILERS-COMM/INST	13	3	138	23	0	0
61 EXT. COMB. SPACE HEATERS-INDUST.	0	0	0	0	0	0
62 EXT. COMB. SPACE HEATERS-COMM.	0	0	0	0	0	0
63 OTHERS-(FUEL COMBUSTION)	0	0	0	0	0	0
64 SOLID WASTE DISPOSAL-GOVT.	0	0	0	0	0	0
65 SOLID WASTE DISPOSAL-COMM/INST	0	0	0	0	0	0
66 SOLID WASTE DISPOSAL-INDUSTRIAL	0	0	0	0	0	0
67 OTHER SOLID WASTE DISPOSAL	0	0	0	0	0	0
68 WASTE SOLVENT RECOVERY PROCESSES	2	0	0	0	216	0
69 STATIONARY INTERNAL COMBUSTION ENGINES	0	0	0	0	0	0
70 NOT CLASSIFIED	0	0	0	0	0	0
COUNTY TOTALS		3414	7388	2991	1057	4999

TABLE A-1 (continued)

COUNTY:1065

CATEGORY	POINT COUNT	----- TSP	PRIMARY SO2	SCC NOX	EMISSIONS (TONS/YEAR)	HC	CO
1 OIL AND GAS PRODUCTION & PROCESSING	0	0	0	0	0	0	0
2 SYN. ORGANIC CHEM. STORAGE & TRANSFER	0	0	0	0	0	0	0
3 GASOLINE AND CRUDE OIL STORAGE	0	0	0	0	0	0	0
4 SHIP AND BARGE TRANSFER OF VOC	0	0	0	0	0	0	0
5 BARGE AND TANKER CLEANING	0	0	0	0	0	0	0
6 BULK GASOLINE TERMINALS	0	0	0	0	0	0	0
7 GASOLINE BULK PLANTS	0	0	0	0	0	0	0
8 TANK TRUCK LOADING	0	0	0	0	0	0	0
9 SERVICE STATION LOADING (STAGE I)	0	0	0	0	0	0	0
10 SERVICE STATION UNLOADING (STAGE II)	0	0	0	0	0	0	0
11 OTHERS-STORAGE, TRANSP., MKT OF VOC	0	0	0	0	0	0	0
12 LUBE OIL MANUFACTURE	0	0	0	0	0	0	0
13 PETROLEUM REFINERIES	0	0	0	0	0	0	0
14 PHARMACEUTICAL MANUFACTURE	0	0	0	0	0	0	0
15 TEXTILE POLYMERS & RESIN MANUFACTURE	0	0	0	0	0	0	0
16 SYNTHETIC FIBER MANUFACTURE	0	0	0	0	0	0	0
17 ORGANIC CHEMICAL MANUFACTURE	0	0	0	0	0	0	0
18 INORGANIC CHEMICAL MANUFACTURE	0	0	0	0	0	0	0
19 FERMENTATION PROCESSES	0	0	0	0	0	0	0
20 VEGETABLE OIL PROCESSING	0	0	0	0	0	0	0
21 PLASTIC PRODUCTS MANUFACTURE	0	0	0	0	0	0	0
22 RUBBER TIRE MANUFACTURE	0	0	0	0	0	0	0
23 SBR RUBBER MANUFACTURE	0	0	0	0	0	0	0
24 OTHER CHEMICAL MANUFACTURE	0	0	0	0	0	0	0
25 IRON AND STEEL MANUFACTURE	0	0	0	0	0	0	0
26 TOBACCO PRODUCTS	0	0	0	0	0	0	0
27 FOOD PRODUCTS	0	0	0	0	0	0	0
28 TEXTILE MILL PRODUCTS	0	0	0	0	0	0	0
29 LUMBER AND WOOD PRODUCTS	0	0	0	0	0	0	0
30 PAPER AND ALLIED PRODUCTS	0	0	0	0	0	0	0
31 STONE,CLAY,GLASS,CONCRETE	2	16	0	0	0	0	0
32 PRIMARY & SECONDARY METALS & ELECTRICAL	0	0	0	0	0	0	0
33 FABRICATED METAL PRODUCTS	1	0	0	0	0	0	0
34 IN-PROCESS FULL USE	0	0	0	0	0	0	0
35 OTHERS - (INDUSTRIAL PROCESSES)	0	0	0	0	0	0	0
36 ADHESIVES	0	0	0	0	0	0	0
37 IND. SFC. COATING-LARGE APPLIANCES	0	0	0	0	0	0	0
38 IND. SFC. COATING-MAGNET WIRE	0	0	0	0	0	0	0
39 IND. SFC. COATING-AUTOMOBILE	0	0	0	0	0	0	0
40 IND. SFC. COATING-CANS	0	0	0	0	0	0	0
41 IND. SFC. COATING-METAL COILS	0	0	0	0	0	0	0
42 IND. SFC. COATING-PAPER	0	0	0	0	0	0	0
43 IND. SFC. COATING-FABRIC	0	0	0	0	0	0	0
44 IND. SFC. COATING-MISC. FURNITURE	0	0	0	0	0	0	0
45 IND. SFC. COATING-METAL/WOOD PRODUCTS	0	0	0	0	0	0	0
46 PLASTIC PARTS PAINTING	1	0	0	0	0	10	0
47 LARGE SHIPS	0	0	0	0	0	0	0
48 LARGE AIRCRAFT	0	0	0	0	0	0	0
49 IND. SFC. COATING-MISC-METAL PRODUCTS	0	0	0	0	0	0	0
50 OTHERS - (INDUSTRIAL SURFACE COATING)	0	0	0	0	0	0	0

TABLE A-1 (continued)

COUNTY:1065

CATEGORY.	POINT COUNT	----- TSP	PRIMARY SO2	EMISSIONS NOX	(TONS/YEAR) HC	----- CO
51 DEGREASING	0	0	0	0	0	0
52 DRY CLEANING	0	0	0	0	0	0
53 GRAPHIC ARTS	0	0	0	0	0	0
54 OTHER - (SOLVENT USE)	0	0	0	0	0	0
55 ARCHITECTURAL COATINGS	0	0	0	0	0	0
56 AUTO REFINISHING	0	0	0	0	0	0
57 OTHERS-(NON-INDUSTRIAL SURFACE COATING)	0	0	0	0	0	0
58 EXT. COMB. BOILERS-ELEC. GENERATION	0	0	0	0	0	0
59 EXT. COMB. BOILERS-INDUSTRIAL	4	39	1211	198	3	17
60 EXT. COMB. BOILERS-COMM/INST	7	1	44	10	0	1
61 EXT. COMB. SPACE HEATERS-INDUST.	0	0	0	0	0	0
62 EXT. COMB. SPACE HEATERS-COMM.	0	0	0	0	0	0
63 OTHERS-(FUEL COMBUSTION)	0	0	0	0	0	0
64 SOLID WASTE DISPOSAL-GOVT.	0	0	0	0	0	0
65 SOLID WASTE DISPOSAL-COMM/INST	0	0	0	0	0	0
66 SOLID WASTE DISPOSAL-INDUSTRIAL	0	0	0	0	0	0
67 OTHER SOLID WASTE DISPOSAL	0	0	0	0	0	0
68 WASTE SOLVENT RECOVERY PROCESSES	1	0	0	0	47	0
69 STATIONARY INTERNAL COMBUSTION ENGINES	0	0	0	0	0	0
70 NOT CLASSIFIED	0	0	0	0	0	0
COUNTY TOTALS		56	1255	208	60	18

TABLE A-1 (continued)

COUNTY:1125

CATEGORY	POINT COUNT	----- TSP	PRIMARY SO2	SCC EMISSIONS NOX	(TONS/YEAR) HC	----- CO
1 OIL AND GAS PRODUCTION & PROCESSING	0	0	0	0	0	0
2 SYN. ORGANIC CHEM. STORAGE & TRANSFER	0	0	0	0	0	0
3 GASOLINE AND CRUDE OIL STORAGE	0	0	0	0	0	0
4 SHIP AND BARGE TRANSFER OF VOC	0	0	0	0	0	0
5 BARGE AND TANKER CLEANING	0	0	0	0	0	0
6 BULK GASOLINE TERMINALS	0	0	0	0	0	0
7 GASOLINE BULK PLANTS	0	0	0	0	0	0
8 TANK TRUCK LOADING	0	0	0	0	0	0
9 SERVICE STATION LOADING (STAGE I)	0	0	0	0	0	0
10 SERVICE STATION UNLOADING (STAGE II)	0	0	0	0	0	0
11 OTHERS-(STORAGE, TRANSP., MKT OF VOC)	0	0	0	0	0	0
12 LUBE OIL MANUFACTURE	0	0	0	0	0	0
13 PETROLEUM REFINERIES	0	0	0	0	0	0
14 PHARMACEUTICAL MANUFACTURE	0	0	0	0	0	0
15 TEXTILE POLYMERS & RESIN MANUFACTURE	0	0	0	0	0	0
16 SYNTHETIC FIBER MANUFACTURE	0	0	0	0	0	0
17 ORGANIC CHEMICAL MANUFACTURE	0	0	0	0	0	0
18 INORGANIC CHEMICAL MANUFACTURE	0	0	0	0	0	0
19 FERMENTATION PROCESSES	0	0	0	0	0	0
20 VEGETABLE OIL PROCESSING	0	0	0	0	0	0
21 PLASTIC PRODUCTS MANUFACTURE	0	0	0	0	0	0
22 RUBBER TIRE MANUFACTURE	0	0	0	0	0	0
23 SBR RUBBER MANUFACTURE	0	0	0	0	0	0
24 OTHER CHEMICAL MANUFACTURE	0	0	0	0	0	0
25 IRON AND STEEL MANUFACTURE	0	0	0	0	0	0
26 TOBACCO PRODUCTS	0	0	0	0	0	0
27 FOOD PRODUCTS	0	0	0	0	0	0
28 TEXTILE MILL PRODUCTS	0	0	0	0	0	0
29 LUMBER AND WOOD PRODUCTS	0	0	0	0	0	0
30 PAPER AND ALLIED PRODUCTS	3	273	735	278	0	5682
31 STONE,CLAY, GLASS, CONCRETE	6	29	0	0	0	0
32 PRIMARY & SECONDARY METALS & ELECTRICAL	0	0	0	0	0	0
33 FABRICATED METAL PRODUCTS	0	0	0	0	0	0
34 IN-PROCESS FUEL USE	0	0	0	0	0	0
35 OTHERS - (INDUSTRIAL PROCESSES)	0	0	0	0	0	0
36 ADHESIVES	0	0	0	0	0	0
37 IND. SFC. COATING-LARGE APPLIANCES	0	0	0	0	0	0
38 IND. SFC. COATING-MAGNET WIRE	0	0	0	0	0	0
39 IND. SFC. COATING-AUTOMOBILE	0	0	0	0	0	0
40 IND. SFC. COATING-CANS	0	0	0	0	0	0
41 IND. SFC. COATING-METAL COILS	0	0	0	0	0	0
42 IND. SFC. COATING-PAPER	0	0	0	0	0	0
43 IND. SFC. COATING-FABRIC	0	0	0	0	0	0
44 IND. SFC. COATING-MISC. FURNITURE	0	0	0	0	0	0
45 IND. SFC. COATING-MISC. WOOD PRODUCTS	1	0	0	0	27	0
46 PLASTIC PARTS PAINTING	0	0	0	0	0	0
47 LARGE SHIPS	0	0	0	0	0	0
48 LARGE AIRCRAFT	0	0	0	0	0	0
49 IND. SFC. COATING-MISC. METAL PRODUCTS	1	0	0	0	21	0
50 OTHERS - (INDUSTRIAL SURFACE COATING)	1	0	0	0	307	0

TABLE A-1 (continued)

COUNTY:1125

CATEGORY	POINT COUNT	----- TSP	PRIMARY SO2	SCC NOX	EMISSIONS (TONS/YEAR)	HC	----- CO
51 DEGREASING	0	0	0	0	0	0	0
52 DRY CLEANING	0	0	0	0	0	0	0
53 GRAPHIC ARTS	0	0	0	0	0	0	0
54 OTHER - (SOLVENT USE)	0	0	0	0	0	0	0
55 ARCHITECTURAL COATINGS	0	0	0	0	0	0	0
56 AUTO REFINISHING	0	0	0	0	0	0	0
57 OTHERS-(NON-INDUSTRIAL SURFACE COATING)	0	0	0	0	0	0	0
58 EXT. COMB. BOILERS-ELEC. GENERATION	0	0	0	0	0	0	0
59 EXT. COMB. BOILERS-INDUSTRIAL	21	1109	1979	1250	194	214	0
60 EXT. COMB. BOILERS-COMM/INST	4	1	43	8	0	0	0
61 EXT. COMB. SPACE HEATERS-INDUST.	0	0	0	0	0	0	0
62 EXT. COMB. SPACE HEATERS-COMM.	0	0	0	0	0	0	0
63 OTHERS-(FUEL COMBUSTION)	0	0	0	0	0	0	0
64 SOLID WASTE DISPOSAL-GOVT.	0	0	0	0	0	0	0
65 SOLID WASTE DISPOSAL-COMM/INST	0	0	0	0	0	0	0
66 SOLID WASTE DISPOSAL-INDUSTRIAL	0	0	0	0	0	0	0
67 OTHER SOLID WASTE DISPOSAL	0	0	0	0	0	0	0
68 WASTE SOLVENT RECOVERY PROCESSES	2	0	0	0	105	0	0
69 STATIONARY INTERNAL COMBUSTION ENGINES	0	0	0	0	0	0	0
70 NOT CLASSIFIED	0	0	0	0	0	0	0
COUNTY TOTALS		1412	2757	1536	654	5896	

TABLE A-1 (continued)

COUNTY:1183

CATEGORY	POINT COUNT	----- TSP	PRIMARY SO2	SCC NOX	EMISSIONS (TONS/YEAR)	HC	CO
1 OIL AND GAS PRODUCTION & PROCESSING	0	0	0	0	0	0	0
2 SYN. ORGANIC CHEM. STORAGE & TRANSFER	0	0	0	0	0	0	0
3 GASOLINE AND CRUDE OIL STORAGE	0	0	0	0	0	0	0
4 SHIP AND BARGE TRANSFER OF VOC	0	0	0	0	0	0	0
5 BARGE AND TANKER CLEANING	0	0	0	0	0	0	0
6 BULK GASOLINE TERMINALS	3	0	0	0	48	0	0
7 GASOLINE BULK PLANTS	0	0	0	0	0	0	0
8 TANK TRUCK LOADING	1	0	0	0	118	0	0
9 SERVICE STATION LOADING (STAGE I)	0	0	0	0	0	0	0
10 SERVICE STATION UNLOADING (STAGE II)	0	0	0	0	0	0	0
11 OTHERS-(STORAGE, TRANSP., MKT OF VOC)	0	0	0	0	0	0	0
12 LUBE OIL MANUFACTURE	0	0	0	0	0	0	0
13 PETROLEUM REFINERIES	0	0	0	0	0	0	0
14 PHARMACEUTICAL MANUFACTURE	0	0	0	0	0	0	0
15 TEXTILE POLYMERS & RESIN MANUFACTURE	0	0	0	0	0	0	0
16 SYNTHETIC FIBER MANUFACTURE	0	0	0	0	0	0	0
17 ORGANIC CHEMICAL MANUFACTURE	0	0	0	0	0	0	0
18 INORGANIC CHEMICAL MANUFACTURE	2	0	1025	0	0	0	0
19 FERMENTATION PROCESSES	0	0	0	0	0	0	0
20 VEGETABLE OIL PROCESSING	0	0	0	0	0	0	0
21 PLASTIC PRODUCTS MANUFACTURE	0	0	0	0	0	0	0
22 RUBBER TIRE MANUFACTURE	0	0	0	0	0	0	0
23 SBR RUBBER MANUFACTURE	0	0	0	0	0	0	0
24 OTHER CHEMICAL MANUFACTURE	1	0	0	0	0	0	0
25 IRON AND STEEL MANUFACTURE	0	0	0	0	0	0	0
26 TOBACCO PRODUCTS	0	0	0	0	0	0	0
27 FOOD PRODUCTS	0	0	0	0	0	0	0
28 TEXTILE MILL PRODUCTS	0	0	0	0	0	0	0
29 LUMBER AND WOOD PRODUCTS	0	0	0	0	0	0	0
30 PAPER AND ALLIED PRODUCTS	0	0	0	0	0	0	0
31 STONE,CLAY,GLASS,CONCRETE	0	0	0	0	0	0	0
32 PRIMARY & SECONDARY METALS & ELECTRICAL	0	0	0	0	0	0	0
33 FABRICATED METAL PRODUCTS	0	0	0	0	0	0	0
34 IN-PROCESS FUEL USE	0	0	0	0	0	0	0
35 OTHERS - (INDUSTRIAL PROCESSES)	0	0	0	0	0	0	0
36 ADHESIVES	0	0	0	0	0	0	0
37 IND. SFC. COATING-LARGE APPLIANCES	0	0	0	0	0	0	0
38 IND. SFC. COATING-MAGNET WIRE	0	0	0	0	0	0	0
39 IND. SFC. COATING-AUTOMOBILE	0	0	0	0	0	0	0
40 IND. SFC. COATING-CANS	0	0	0	0	0	0	0
41 IND. SFC. COATING-METAL COILS	0	0	0	0	0	0	0
42 IND. SFC. COATING-PAPER	0	0	0	0	0	0	0
43 IND. SFC. COATING-FABRIC	0	0	0	0	0	0	0
44 IND. SFC. COATING-MISC. FURNITURE	0	0	0	0	0	0	0
45 IND. SFC. COATING-METAL/WOOD PRODUCTS	0	0	0	0	0	0	0
46 PLASTIC PARTS PAINTING	0	0	0	0	0	0	0
47 LARGE SHIPS	0	0	0	0	0	0	0
48 LARGE AIRCRAFT	0	0	0	0	0	0	0
49 IND. SFC. COATING-MISC.METAL PRODUCTS	0	0	0	0	0	0	0
50 OTHERS - (INDUSTRIAL SURFACE COATING)	0	0	0	0	0	0	0

TABLE A-1 (continued)

COUNTY:1183

CATEGORY	POINT COUNT	----- TSP	PRIMARY SO2	EMISSIONS NOX	(TONS/YEAR) HC	----- CO
51 DEGREASING	0	0	0	0	0	0
52 DRY CLEANING	0	0	0	0	0	0
53 GRAPHIC ARTS	0	0	0	0	0	0
54 OTHER - (SOLVENT USE)	0	0	0	0	0	0
55 ARCHITECTURAL COATINGS	0	0	0	0	0	0
56 AUTO REFINISHING	0	0	0	0	0	0
57 OTHERS-(NON-INDUSTRIAL SURFACE COATING)	0	0	0	0	0	0
58 EXT. COMB. BOILERS-ELEC. GENERATION	0	0	0	0	0	0
59 EXT. COMB. BOILERS-INDUSTRIAL	10	143	350	162	22	26
60 EXT. COMB. BOILERS-COMM/INST	3	0	12	2	0	0
61 EXT. COMB. SPACE HEATERS-INDUST.	0	0	0	0	0	0
62 EXT. COMB. SPACE HEATERS-COMM.	0	0	0	0	0	0
63 OTHERS-(FUEL COMBUSTION)	0	0	0	0	0	0
64 SOLID WASTE DISPOSAL-GOVT.	0	0	0	0	0	0
65 SOLID WASTE DISPOSAL-COMM/INST	0	0	0	0	0	0
66 SOLID WASTE DISPOSAL-INDUSTRIAL	0	0	0	0	0	0
67 OTHER SOLID WASTE DISPOSAL	0	0	0	0	0	0
68 WASTE SOLVENT RECOVERY PROCESSES	2	0	0	0	47	0
69 STATIONARY INTERNAL COMBUSTION ENGINES	0	0	0	0	0	0
70 NOT CLASSIFIED	0	0	0	0	0	0
COUNTY TOTALS		143	1387	164	235	26

TABLE A-1 (continued)

COUNTY:1325

CATEGORY	POINT COUNT	----- TSP	PRIMARY SO2	EMISSIONS NOX	(TONS/YEAR) HC	----- CO
1 OIL AND GAS PRODUCTION & PROCESSING	0	0	0	0	0	0
2 SYN. ORGANIC CHEM. STORAGE & TRANSFER	0	0	0	0	0	0
3 GASOLINE AND CRUDE OIL STORAGE	0	0	0	0	0	0
4 SHIP AND BARGE TRANSFER OF VOC	0	0	0	0	0	0
5 BARGE AND TANKER CLEANING	0	0	0	0	0	0
6 BULK GASOLINE TERMINALS	0	0	0	0	0	0
7 GASOLINE BULK PLANTS	1	0	0	0	32	0
8 TANK TRUCK LOADING	0	0	0	0	0	0
9 SERVICE STATION LOADING (STAGE I)	0	0	0	0	0	0
10 SERVICE STATION UNLOADING (STAGE II)	0	0	0	0	0	0
11 OTHERS--(STORAGE, TRANSP., MKT OF VOC)	0	0	0	0	0	0
12 LUBE OIL MANUFACTURE	0	0	0	0	0	0
13 PETROLEUM REFINERIES	0	0	0	0	0	0
14 PHARMACEUTICAL MANUFACTURE	0	0	0	0	0	0
15 TEXTILE POLYMERS & RESIN MANUFACTURE	1	0	0	0	228	0
16 SYNTHETIC FIBER MANUFACTURE	0	0	0	0	0	0
17 ORGANIC CHEMICAL MANUFACTURE	0	0	0	0	0	0
18 INORGANIC CHEMICAL MANUFACTURE	0	0	0	0	0	0
19 FERMENTATION PROCESSES	0	0	0	0	0	0
20 VEGETABLE OIL PROCESSING	0	0	0	0	0	0
21 PLASTIC PRODUCTS MANUFACTURE	0	0	0	0	0	0
22 RUBBER TIRE MANUFACTURE	0	0	0	0	0	0
23 SBR RUBBER MANUFACTURE	0	0	0	0	0	0
24 OTHER CHEMICAL MANUFACTURE	1	0	0	0	0	0
25 IRON AND STEEL MANUFACTURE	0	0	0	0	0	0
26 TOBACCO PRODUCTS	0	0	0	0	0	0
27 FOOD PRODUCTS	0	0	0	0	0	0
28 TEXTILE MILL PRODUCTS	0	0	0	0	0	0
29 LUMBER AND WOOD PRODUCTS	0	0	0	0	0	0
30 PAPER AND ALLIED PRODUCTS	0	0	0	0	0	0
31 STONE,CLAY, GLASS, CONCRETE	5	5	0	0	0	0
32 PRIMARY & SECONDARY METALS & ELECTRICAL	1	1	0	0	0	0
33 FABRICATED METAL PRODUCTS	0	0	0	0	0	0
34 IN-PROCESS FUEL USE	0	0	0	0	0	0
35 OTHERS - (INDUSTRIAL PROCESSES)	1	0	0	0	0	0
36 ADHESIVES	0	0	0	0	0	0
37 IND. SFC. COATING-LARGE APPLIANCES	0	0	0	0	0	0
38 IND. SFC. COATING-MAGNET WIRE	0	0	0	0	0	0
39 IND. SFC. COATING-AUTOMOBILE	2	0	0	0	139	0
40 IND. SFC. COATING-CANS	0	0	0	0	0	0
41 IND. SFC. COATING-METAL COILS	0	0	0	0	0	0
42 IND. SFC. COATING-PAPER	0	0	0	0	0	0
43 IND. SFC. COATING-FABRIC	0	0	0	0	0	0
44 IND. SFC. COATING-MISC. FURNITURE	0	0	0	0	0	0
45 IND. SFC. COATING-METAL/WOOD PRODUCTS	0	0	0	0	0	0
46 PLASTIC PARTS PAINTING	0	0	0	0	0	0
47 LARGE SHIPS	1	0	0	0	70	0
48 LARGE AIRCRAFT	0	0	0	0	0	0
49 IND. SFC. COATING-MISC. METAL PRODUCTS	0	0	0	0	0	0
50 OTHERS - (INDUSTRIAL SURFACE COATING)	4	0	0	0	1148	0

TABLE A-1 (continued)

COUNTY:1325

CATEGORY	POINT COUNT	----- TSP	PRIMARY SO2	EMISSIONS NOX	(TONS/YEAR) HC	----- CO
51 DEGREASING	4	0	0	0	9	0
52 DRY CLEANING	0	0	0	0	0	0
53 GRAPHIC ARTS	0	0	0	0	0	0
54 OTHER - (SOLVENT USE)	0	0	0	0	0	0
55 ARCHITECTURAL COATINGS	0	0	0	0	0	0
56 AUTO REFINISHING	0	0	0	0	0	0
57 OTHERS-(NON-INDUSTRIAL SURFACE COATING)	0	0	0	0	0	0
58 EXT. COMB. BOILERS-ELEC. GENERATION	0	0	0	0	0	0
59 EXT. COMB. BOILERS-INDUSTRIAL	27	103	3232	532	7	42
60 EXT. COMB. BOILERS-COMM/INST	18	8	272	45	0	2
61 EXT. COMB. SPACE HEATERS-INDUST.	0	0	0	0	0	0
62 EXT. COMB. SPACE HEATERS-COMM.	0	0	0	0	0	0
63 OTHERS-(FUEL COMBUSTION)	0	0	0	0	0	0
64 SOLID WASTE DISPOSAL-GVLT.	0	0	0	0	0	0
65 SOLID WASTE DISPOSAL-COMM/INST	0	0	0	0	0	0
66 SOLID WASTE DISPOSAL-INDUSTRIAL	0	0	0	0	0	0
67 OTHER SOLID WASTE DISPOSAL	0	0	0	0	0	0
68 WASTE SOLVENT RECOVERY PROCESSES	4	0	0	0	211	0
69 STATIONARY INTERNAL COMBUSTION ENGINES	0	0	0	0	0	0
70 NOT CLASSIFIED	0	0	0	0	0	0
COUNTY TOTALS		117	3504	577	1844	44

APPENDIX B

AREA SOURCE EMISSIONS BY CATEGORY FOR THE MAINE COUNTIES IN THE NECRMP STUDY AREA

Table B-1 presents area source emissions, by category, for each of the Maine counties within the NECRMP Study Area, which are listed below.

<u>County</u>	<u>EIS/NEDS County Code</u>
Androscoggin	0027
Cumberland	0277
Franklin	0445
Kennebec	0547
Knox	0595
Lincoln	0645
Oxford	0885
Penobscot	0907
Sagadahoc	1065
Somerset	1125
Waldo	1183
York	1325

TABLE B-1. AREA SOURCE EMISSIONS (1979/1980) BY CATEGORY FOR THE MAINE COUNTIES
WITHIN THE NECRMP STUDY AREA

COUNTY:0027

CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RATE	UNITS	POLLUTANT I.D.	EMISSION FACTOR	EMISSIONS ESTIMATE
001	STAGE I GASOLINE EVAP	000046136	THOUS GAL	THC	11.50	0000277
002	STAGE II GASOLINE EVAP	000046166	THOUS GAL	THC	9.70	0000234
003	STORAGE TANK BREATHING	000046186	THOUS GAL	THC	1.00	0000024
004	GASOLINE LOADING TRANSIT	000046136	THOUS GAL	THC	0.12	0000003
005	DEGREASERS	000000008	TON	NHC	2,000.00	0000100
006	DRY CLEANERS	000000052	TON	NHC	2,000.00	0000052
007	ARCH SURFACE COATING	000098557	POPULATION	NHC	4.60	0000229
008	AUTO BODY REFINISHING	000009607	POPULATION	NHC	1.90	0000090
009	SM IND SURFACE COATING	00000740	TON	THC	1,175.00	0000435
010	PRINTING INDUSTRIES	000000110	EMPLOYEES	NHC	200.00	0000011
011	SOLVENT PURCHASED	000000093	TON	NHC	2,000.00	0000093
012	CURBACK ASPHALT	000000300	TON	NHC	2,000.00	0000300
013	PESTICIDES	000019628	ACRE	NHC	3.50	0000034
014	ON-HIGHWAY LDV	000423435	THOUS VMT	NOX NHC	6.78 10.82	0001435 0002391
015	ON-HIGHWAY LDT1	000046736	THOUS VMT	NOX NHC	9.52 16.00	0000232 0000390
016	ON-HIGHWAY LDT2	000046736	THOUS VMT	NOX NHC	9.52 16.00	0000232 0000390

TABLE B-1 (continued)

COUNTY:0027

CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RATE	UNITS	POLLUTANT I.D.	EMISSION FACTOR	EMISSIONS ESTIMATE
017	ON-HIGHWAY HOG	000022894	THOUS WMT	NOX NHC	33.70 30.20	0000386 0000345
018	ON-HIGHWAY HDD	000022894	THOUS WMT	NOX NHC	33.70 30.20	0000386 0000346
020	RESIDENTIAL ANTHRAC COAL	000000472	TONS	NOX THC	3.00 2.50	0000001 0000001
021	RESIDENTIAL BITUMIN COAL	000001198	TONS	NOX THC	3.00 20.00	0000002 0000012
022	RESIDENTIAL RESIDUAL OIL	000000000	THOUS GAL	NOX THC	60.00 1.00	0000000 0000000
023	RESIDENTIAL DISTILL OIL	000051208	THOUS GAL	NOX THC	18.00 1.00	0000461 0000026
024	RESIDENTIAL NATURAL GAS	000000000	MIL CU FT	NOX THC	80.00 8.00	0000000 0000000
025	RESIDENTIAL LPG	000001117	THOUS GAL	NOX THC	7.50 0.75	0000004 0000000
026	RESIDENTIAL WOOD	000097158	TON	NOX NHC	0.26 1.30	0000013 0000063
027	COMM-INST ANTHRACITE COAL	000000000	TON	NOX THC	3.00 2.50	0000000 0000000
028	COMM-INST BITUMINOUS COAL	000000000	TON	NOX THC	3.00 20.00	0000000 0000000
029	COMM-INST RESIDUAL OIL	000000000	THOUS GAL	NOX THC	60.00 1.00	0000000 0000000
030	COMM-INST DISTILLATE OIL	000000000	THOUS GAL	NOX THC	18.00 1.00	0000000 0000000

TABLE B-1 (continued)

COUNTY:0027		CATEGORY		PROCESS		UNITS		POLLUTANT EMISSION		EMISSIONS	
CATEGORY NUMBER	DESCRIPTION	RATE	UNITS	NOX	THC	NOX	THC	ESTIMATE	ESTIMATE	ESTIMATE	ESTIMATE
031	COMM-INST NATURAL GAS	000000000	MIL CU FT	80.00	8.00	0000000	0000000				
032	COMM/INST LP6	000000889	THOUS GAL	11.00	0.75	0000005	0000000				
033	COMM-INST WOOD	000000000	TON	0.26	1.30	0000000	0000000				
034	INDUSTRIAL ANTHRACITE COAL	000000000	TON	3.00	2.50	0000000	0000000				
035	INDUSTRIAL BITUMIN COAL	000000000	TON	3.00	20.50	0000000	0000000				
036	INDUSTRIAL RESIDUAL OIL	000000000	THOUS GAL	60.00	1.00	0000000	0000000				
037	INDUSTRIAL DISTILLATE OIL	000000000	THOUS GAL	18.00	1.00	0000000	0000000				
038	INDUSTRIAL NATURAL GAS	000000000	MIL CU FT	80.00	8.00	0000000	0000000				
039	INDUSTRIAL LPG	000001333	THOUS GAL	11.65	0.30	0000000	0000000				
040	INDUSTRIAL WOOD	000000000	TON	0.26	1.30	0000000	0000000				
041	MILITARY AIRCRAFT LTO'S	000000000	LND/TAKE OFF	9.16	27.10	0000000	0000000				
042	CIVIL AIRCRAFT LTO'S	000000000	LND/TAKE OFF	3.02	0.41	0000000	0000000				
043	COMMERCIAL AIRCRAFT LTO'S	000001500	LND/TAKE OFF	26.67	30.66	0000020	0000023				

TABLE B-1 (continued)

COUNTY:0027

CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RATE	UNITS	POLLUTANT I.D.	EMISSION FACTOR	EMISSIONS ESTIMATE
044	RAILROAD LOCOMOTIVES	000000552	THOUS GAL	NOX THC	370.00 94.00	0000102 0000026
045	GASOLINE VESSELS	000000734	THOUS GAL	NOX THC	39.00 948.00	0000014 0000348
046	DIESEL OIL VESSELS	000000000	THOUS GAL	NOX THC	22.20 3.50	0000000 0000000
047	RESIDUAL OIL VESSELS	000000000	THOUS GAL	NOX THC	36.40 3.20	0000000 0000000
048	OFF-HIGHWAY GASOLINE	000001011	THOUS GAL	NOX THC	108.80 267.00	0000055 0000133
049	OFF-HIGHWAY DIESEL	000002476	THOUS GAL	NOX THC	44.40 41.20	0000550 0000051
050	ON-SITE INCINERATION	000013847	TON	NOX THC	2.30 37.80	0000016 0000262
051	OPEN BURNING	000003156	TON	NOX THC	6.00 30.00	0000039 0000047
052	STRUCTURAL FIRES	000099708	POPULATION	NOX THC	0.10 0.64	0000005 0000032
053	FIELD/SLASH BURNING	000000000	ACRE	THC	46.00	0000000
054	FOREST WILD FIRES	000000078	ACRE	NOX THC	45.00 264.00	0000002 0000010
999	COUNTY TOTALS			THC NOX THC NOX		0001946 0004653 0003938

TABLE B-1 (continued)

COUNTY:0277						
CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RATE	UNITS	POLLUTANT I.D.	EMISSION FACTOR	EMISSIONS ESTIMATE
001	STAGE I GASOLINE EVAP	000104000	THOUS GAL	THC	11.50	0000598
002	STAGE II GASOLINE EVAP	000104000	THOUS GAL	THC	9.70	0000504
003	STORAGE TANK BREATHING	000104000	THOUS GAL	THC	1.00	0000052
004	GASOLINE LOADING TRANSIT	000104000	THOUS GAL	THC	0.12	0000006
005	DEGREASERS	000000037	TON	NHC	2,000.00	0000037
006	DRY CLEANERS	000000150	TON	NHC	2,000.00	0000150
007	ARCH SURFACE COATING	000215739	POPULATION	NHC	4.60	0000496
008	AUTO BODY REFINISHING	0000215789	POPULATION	NHC	1.90	0000205
009	SM IND SURFACE COATING	000001561	TON	THC	1,175.00	0000917
010	PRINTING INDUSTRIES	000000350	EMPLOYEES	NHC	200.00	0000035
011	SOLVENT PURCHASED	000000088	TON	NHC	2,000.00	0000088
012	CUTBACK ASPHALT	000000244	TON	NHC	2,000.00	0000244
013	PESTICIDES	000020640	ACRE	NHC	3.50	0000035
014	ON-HIGHWAY LDV	001189188	THOUS VMT	NOX NHC	6.99 10.11	0004160 0006014
015	ON-HIGHWAY LDT1	000136871	THOUS VMT	NOX NHC	9.70 14.84	0000664 0001015
016	ON-HIGHWAY LDT2	000136871	THOUS VMT	NOX NHC	9.70 14.84	0000664 0001016

TABLE B-1 (continued)

COUNTY:0277

CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RATE	UNITS	POLLUTANT I.D.	EMISSION FACTOR	EMISSIONS ESTIMATE
017	ON-HIGHWAY HDG	000064298	THOUS VMT	NOX NHC	28.40 31.70	0000913 0001019
018	ON-HIGHWAY HDD	000064298	THOUS VMT	NOX NHC	28.40 31.70	0000913 0001019
020	RESIDENTIAL ANTHRAC COAL	000001018	TONS	NOX THC	3.00 2.50	0000002 0000001
021	RESIDENTIAL BITUMIN COAL	000002584	TONS	NOX THC	3.00 20.00	0000004 0000025
022	RESIDENTIAL RESIDUAL OIL	000000000	THOUS GAL	NOX THC	60.00 1.00	0000000 0000000
023	RESIDENTIAL DISTILL. OIL	000110200	THOUS GAL	NOX THC	18.00 1.00	0000992 0000055
024	RESIDENTIAL NATURAL GAS	000000000	MIL CU FT	NOX THC	80.00 8.00	0000000 0000000
025	RESIDENTIAL LPG	000003242	THOUS GAL	NOX THC	7.50 0.75	0000012 0000001
026	RESIDENTIAL WOOD	000201600	TON	NOX NHC	0.25 1.25	0000026 0000129
027	COMM-INST ANTHRACITE COAL	000000000	TON	NOX THC	3.00 2.50	0000000 0000000
028	COMM-INST BITUMINOUS COAL	000000000	TON	NOX THC	3.00 20.00	0000000 0000000
029	COMM-INST RESIDUAL OIL	000000000	THOUS GAL	NOX THC	60.00 1.00	0000000 0000000
030	COMM-INST DISTILLATE OIL	000000000	THOUS GAL	NOX THC	16.00 1.00	0000000 0000000

TABLE B-1 (continued)

COUNTY:0277						
CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RATE	UNITS	POLLUTANT I.D.	EMISSION FACTOR	EMISSIONS ESTIMATE
031	COMM-INST NATURAL GAS	000000000	MIL CU FT	NOX THC	80.00 8.00	0000000 0000000
032	COMM-INST LPG	000007555	THOUS GAL	NOX THC	11.00 0.75	0000042 0000003
033	COMM-INST WOOD	000000000	TON	NOX THC	0.25 1.25	0000000 0000000
034	INDUSTRIAL ANTHRACITE COAL	000000000	TON	NOX THC	3.00 2.50	0000000 0000000
035	INDUSTRIAL BITUMIN COAL	000000000	TON	NOX THC	3.00 20.00	0000000 0000000
036	INDUSTRIAL RESIDUAL OIL	000000000	THOUS GAL	NOX THC	60.00 1.00	0000000 0000000
037	INDUSTRIAL DISTILLATE OIL	000000000	THOUS GAL	NOX THC	18.00 1.00	0000000 0000000
038	INDUSTRIAL NATURAL GAS	000000000	MIL CU FT	NOX THC	80.00 8.00	0000000 0000000
039	INDUSTRIAL LPG	000002222	THOUS GAL	NOX THC	11.05 0.30	0000013 0000000
040	INDUSTRIAL WOOD	000000000	TON	NOX THC	0.25 1.25	0000000 0000000
041	MILITARY AIRCRAFT LTO'S	000022000	LND/TAKE OFF	NOX THC	9.16 27.10	0000101 0000298
042	CIVIL AIRCRAFT LTO'S	000000000	LND/TAKE OFF	NOX THC	0.02 0.41	0000000 0000000
043	COMMERCIAL AIRCRAFT LTO'S	000000328	LND/TAKE OFF	NOX THC	27.01 30.66	0000126 0000143

TABLE B-1 (continued)

COUNTY:0277

CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RATE	UNITS THOUS GAL	POLLUTANT I.D.	EMISSION FACTOR	MISSIONS ESTIMATE
044	RAILROAD LOCOMOTIVES	000001383	THOUS GAL	NOX THC	370.00 94.00	0000256 0000065
045	GASOLINE VESSELS	000000734	THOUS GAL	NOX THC	39.00 948.00	0000014 0000348
046	DIESEL OIL VESSELS	000003333	THOUS GAL	NOX THC	22.20 3.00	0000037 0000005
047	RESIDUAL OIL VESSELS	000014176	THOUS GAL	NOX THC	36.40 3.20	0000258 0000023
048	OFF-HIGHWAY GASOLINE	000001670	THOUS GAL	NOX THC	82.60 267.00	0000069 0000223
049	OFF-HIGHWAY DIESEL	000004272	THOUS GAL	NOX THC	475.00 41.20	0001015 0000088
050	ON-SITE INCINERATION	000027220	TON	NOX THC	2.20 41.40	0000030 0000563
051	OPEN BURNING	000007000	TON	NOX THC	6.00 30.30	0000021 0000105
052	STRUCTURAL FIRES	000215566	POPULATION	NOX THC	0.10 0.64	0000011 0000069
053	FIELD/SLASH BURNING	000000500	ACRE	THC	46.00	0000012
054	FOREST WILD FIRES	000000192	ACRE	NOX THC	45.00 284.00	0000004 0000024
999	COUNTY TOTALS			THC NOX NOX		0004129 0011504 0010347

TABLE B-1 (continued)

CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RATE	UNITS	POLLUTANT I.D.	EMISSION FACTOR	EMISSIONS ESTIMATE
COUNTY:04*5						
001	STAGE 1 GASOLINE EVAP	000013023	THOUS GAL	THC	11.50	0000075
002	STAGE 11 GASOLINE EVAP	000013023	THOUS GAL	THC	9.70	0000063
003	STORAGE TANK BREATHING	000013023	THOUS GAL	THC	1.00	0000007
004	GASOLINE LOADING TRANSIT	000013023	THOUS GAL	THC	0.12	0000001
005	DEGREASERS	000000001	TON	NHC	2,000.00	0000001
006	DRY CLEANERS	000000007	TON	NHC	2,000.00	0000007
007	ARCH SURFACE COATING	000027098	POPULATION	NHC	4.60	0000062
008	AUTO BODY REFINISHING	00 000027098	POPULATION	NHC	1.90	0000026
009	SM IND SURFACE COATING	000000154	TON	THC	1,175.00	0000096
010	PRINTING INDUSTRIES	000000020	EMPLOYEES	NHC	200.00	0000002
011	SOLVENT PURCHASED	000000060	TON	THC	2,000.00	0000350
012	CUTBACK ASPHALT	000000049	TON	NHC	2,000.00	0000049
013	PESTICIDES	000010960	ACRE	NHC	3.50	0000019
014	ON-HIGHWAY LDV	000137056	THOUS VMT	NOX NHC	7.18 9.24	0000492 0000533
015	ON-HIGHWAY LDT1	000015775	THOUS VMT	NOX NHC	11.00 14.96	0000087 0000118
016	ON-HIGHWAY LDT2	000015775	THOUS VMT	NOX NHC	11.00 14.96	0000087 0000118

TABLE B-1 (continued)

COUNTY:0445

CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RATE	UNITS	POLLUTANT I.D.	EMISSION FACTOR	EMISSIONS ESTIMATE
C17	ON-HIGHWAY HDG	000007411	THOUS VMT	NOX NHC	24.80 23.50	0000092 0000087
018	ON-HIGHWAY HDD	000007411	THOUS VMT	NOX NHC	24.80 23.50	0000092 0000087
020	RESIDENTIAL ANTHRAC COAL	000000127	TONS	NOX THC	3.00 2.50	0000000 0000000
021	RESIDENTIAL BITUMIN COAL	000000323	TONS	NOX THC	3.00 20.50	0000000 0000003
022	RESIDENTIAL RESIDUAL OIL	000000000	THOUS GAL	NOX THC	60.00 1.00	0000000 0000000
023	RESIDENTIAL DISTILL OIL	000013929	THOUS GAL	NOX THC	18.00 1.00	0000125 0000007
024	RESIDENTIAL NATURAL GAS	000000000	MIL CU FT	NOX THC	80.00 8.00	0000000 0000000
025	RESIDENTIAL LPG	000001350	THOUS GAL	NOX THC	7.50 0.75	0000006 0000001
026	RESIDENTIAL WOOD	000059315	TUN	NOX NHC	0.27 1.38	0000003 0000041
027	COMM-INST ANTHRACITE COAL	000000000	TON	NOX THC	3.00 2.50	0000000 0000000
028	COMM-INST BITUMINOUS COAL	000000000	TON	NOX THC	3.00 20.00	0000000 0000000
029	COMM-INST RESIDUAL OIL	000000000	THOUS GAL	NOX THC	60.00 1.00	0000000 0000000
030	COMM-INST DISTILLATE OIL	000000000	THOUS GAL	NOX THC	18.00 1.00	0000000 0000000

TABLE B-1 (continued)

CATEGORY		CATEGORY	PROCESS	POLLUTANT EMISSION		EMISSIONS
NUMBER	DESCRIPTION	RATE	UNITS	I.D.	FACTOR	ESTIMATE
031	COMM-INST NATURAL GAS	000000000	MIL CU FT	NOX	80.00	0000000
				THC	8.00	0000000
032	COMM-INST LPG	000000000	THOUS GAL	NOX	11.00	0000000
				THC	0.75	0000000
033	CUMM-INST WOOD	000000000	TON	NOX	0.27	0000000
				THC	1.38	0000000
034	INDUSTRIAL ANTHRACITE COAL	000000000	TON	NOX	3.00	0000000
				THC	2.50	0000000
035	INDUSTRIAL BITUMIN COAL	000000000	TON	NOX	3.00	0000000
				THC	20.00	0000000
036	INDUSTRIAL RESIDUAL OIL	000000000	THOUS GAL	NOX	60.00	0000000
				THC	1.00	0000000
037	INDUSTRIAL DISTILLATE OIL	000000000	THOUS GAL	NOX	18.00	0000000
				THC	1.00	0000000
038	INDUSTRIAL NATURAL GAS	000000000	MIL CU FT	NOX	80.00	0000000
				THC	8.00	0000000
039	INDUSTRIAL LPG	000000444	THOUS GAL	NOX	11.65	0000003
				THC	0.30	0000000
040	INDUSTRIAL WOOD	000000000	TON	NOX	0.27	0000000
				THC	1.38	0000000
041	MILITARY AIRCRAFT LTJ'S	000000000	LND/TAKE OFF	NOX	9.16	0000000
				THC	27.10	0000000
042	CIVIL AIRCRAFT LTJ'S	000000000	LND/TAKE OFF	NOX	0.52	0000000
				THC	0.41	0000000
043	COMMERCIAL AIRCRAFT LTJ'S	000000000	LND/TAKE OFF	NOX	67.46	0000000
				THC	30.66	0000000

TABLE B-1 (continued)

COUNTY:0445						
CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RATE	UNITS	POLLUTANT I.D.	EMISSION FACTOR	EMISSIONS ESTIMATE
044	RAILROAD LOCOMOTIVES	000006169	THOUS GAL	NOX THC	370.00 94.00	0000031 0000008
045	GASOLINE VESSELS	000000734	THOUS GAL	NOX THC	39.00 948.00	0000014 0000348
046	.			NOX THC	22.20 3.00	0000000 0000000
047	RESIDUAL OIL VESSELS	000000000	THOUS GAL	NOX THC	36.40 3.20	0000000 0000000
048	OFF-HIGHWAY GASOLINE	000000397	THOUS GAL	NOX THC	136.00 267.00	0000027 0000053
049	OFF-HIGHWAY DIESEL	000000922	THOUS GAL	NOX THC	401.00 41.20	0000185 0000019
050	ON-SITE INCINERATION	000004067	TON	NOX THC	2.50 34.90	0000005 0000071
051	OPEN BURNING	000002484	TON	NOX THC	6.00 30.00	0000007 0000037
052	STRUCTURAL FIRES	000027003	POPULATION	NOX THC	0.07 0.66	0000001 0000009
053	FIELD/SLASH BURNING	000000000	ACRE	THC	46.00	0000000
054	FOREST WILD FIRES	000000019	ACRE	NOX THC	45.00 264.00	0000000 0000003
999	COUNTY TOTALS			THC NHC NOX		0000861 0001250 0001262

TABLE B-1 (continued)

COUNTY:0547						
CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RATE	UNITS	POLLUTANT I.D.	EMISSION FACTOR	EMISSIONS ESTIMATE
001	STAGE I GASOLINE EVAP	000053116	THOUS GAL	THC	11.50	0000305
002	STAGE II GASOLINE EVAP	000053116	THOUS GAL	THC	9.70	0000258
003	STORAGE TANK BREATHING	000053116	THOUS GAL	THC	1.00	0000027
004	GASOLINE LOADING TRANSIT	000053116	THOUS GAL	THC	0.12	0000003
005	DEGREASERS	000000017	TON	NHC	2.000.00	0000017
006	DRY CLEANERS	000000099	TON	NHC	2.000.00	0000099
007	ARCH SURFACE COATING	000109889	POPULATION	NHC	4.60	0000253
008	AUTO BODY REFINISHING	00 000109889	POPULATION	NHC	1.90	0000104
009	SM IND SURFACE COATING	000000822	TON	THC	1.175.30	0000483
010	PRINTING INDUSTRIES	000000080	EMPLOYEES	NHC	200.00	0030008
011	SOLVENT PURCHASED	000000284	TON	NHC	2.000.00	0000284
012	CUTBACK ASPHALT	000000010	TON	NHC	2.000.00	0000010
013	PESTICIDES	000034200	ACRE	NHC	3.50	0000060
014	ON-HIGHWAY LDV	000559548	THOUS VMT	NOX NHC	7.12 9.60	0001992 0002886
015	ON-HIGHWAY LDT1	000064402	THOUS VMT	NOX NHC	10.06 14.40	0000324 0000464
016	ON-HIGHWAY LDT2	000064402	THOUS VMT	NOX NHC	10.06 14.40	0000324 0000464

TABLE B-1 (continued)

COUNTY:0547

CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RATE	UNITS	POLLUTANT I.D.	EMISSION FACTOR	EMISSIONS ESTIMATE
017	ON-HIGHWAY HDG	000030254	THOUS VMT	NOX NHC	29.60 30.50	0000448 0000461
018	ON-HIGHWAY HDG	000030254	THOUS VMT	NOX NHC	29.60 30.50	0000448 0000461
020	RESIDENTIAL ANTHRAC COAL	000000519	TONS	NOX THC	3.00 2.50	0000001 0000001
021	RESIDENTIAL BITUMIN COAL	000001319	TONS	NOX THC	3.00 20.00	0000002 0000013
022	RESIDENTIAL RESIDUAL OIL	000000000	THOUS GAL	NOX THC	60.00 1.00	0000000 0000000
023	RESIDENTIAL DISTILL OIL	000056124	THOUS GA.	NOX THC	18.00 1.00	0000505 0000028
024	RESIDENTIAL NATURAL GAS	000000000	MIL CU FT	NOX THC	80.00 8.00	0000000 0000000
025	RESIDENTIAL LPG	000001795	THOUS GAL	NOX THC	7.50 0.75	0000007 0000001
026	RESIDENTIAL WOOD	000140440	TON	NOX NHC	0.24 1.20	0000017 0000384
027	COMM-INST ANTHRACITE COAL	000000000	TON	NOX THC	3.00 2.50	0000000 0000000
028	COMM-INST BITUMINOUS COAL	000000000	TON	NOX THC	3.00 20.00	0000000 0000000
029	COMM-INST RESIDUAL OIL	000000000	THOUS GAL	NOX THC	60.00 1.00	0000000 0000000
030	COMM-INST DISTILLATE OIL	000000000	THOUS GA.	NOX THC	18.00 1.00	0000000 0000000

TABLE B-1 (continued)

COUNTY:0547

CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RATE	UNITS	POLLUTANT I.D.	EMISSION FACTOR	EMISSIONS ESTIMATE
031	COMM-INST NATURAL GAS	000000000	MIL CU FT	NOX	80.00	0000000
				THC	8.00	0000000
032	COMM/INST LPG	000002222	THOUS GAL	NOX	11.00	0000012
				THC	0.75	0000001
033	COMM-INST WOOD	000000000	TON	NOX	0.24	0000000
				THC	1.20	0000000
034	INDUSTRIAL ANTHRACITE COAL	000000000	TON	NOX	3.00	0000000
				THC	2.50	0000000
035	INDUSTRIAL BITUMIN COAL	000000000	TON	NOX	3.00	0000000
				THC	20.00	0000000
036	INDUSTRIAL RESIDUAL OIL	000000000	THOUS GAL	NOX	60.00	0000000
				THC	1.00	0000000
037	INDUSTRIAL DISTILLATE OIL	000000000	THOUS GAL	NOX	18.00	0000000
				THC	1.00	0000000
038	INDUSTRIAL NATURAL GAS	000000000	MIL CU FT	NOX	80.00	0000000
				THC	8.00	0000000
039	INDUSTRIAL LPG	000001000	THOUS GAL	NOX	11.65	0000005
				THC	0.30	0000000
040	INDUSTRIAL WOOD	000000000	TON	NOX	0.24	0000000
				THC	1.20	0000000
041	MILITARY AIRCRAFT LTO'S	000000000	LND/TAKE OFF	NOX	9.16	0000000
				THC	27.10	0000000
042	CIVIL AIRCRAFT LTO'S	000000000	LND/TAKE OFF	NOX	9.02	0000000
				THC	0.41	0000000
043	COMMERCIAL AIRCRAFT LTO'S	000011024	LND/TAKE OFF	NOX	26.85	0000148
				THC	30.66	0000169

TABLE B-1 (continued)

COUNTY:0547

CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RATE	UNITS	POLLUTANT I.D.	EMISSION FACTOR	EMISSIONS ESTIMATE
044	RAILROAD LOCOMOTIVES	000000851	THOUS GAL	NOX THC	370.00 94.00	0000157 0000040
045	GASOLINE VESSELS	000000734	THOUS GAL	NOX THC	39.00 948.00	0000014 0000348
046	DIESEL OIL VESSELS	000000000	THOUS GAL	NOX THC	22.20 3.00	0000000 0000000
047	RESIDUAL OIL VESSELS	000000000	THOUS GAL	NOX THC	36.40 3.20	0000000 0000000
048	OFF-HIGHWAY GASOLINE	000001221	THOUS GAL	NOX THC	119.60 267.00	0000073 0000163
049	OFF-HIGHWAY DIESEL	000002718	THOUS GAL	NOX THC	427.00 41.20	0000580 0000356
050	ON-SITE INCINERATION	000014366	TON	NOX THC	2.20 40.00	0000016 0000287
051	OPEN BURNING	000004780	TON	NOX THC	6.00 30.00	0000014 0000072
052	STRUCTURAL FIRKS	000109721	POPULATION	NOX THC	0.10 0.63	0000006 0000035
053	FIELD/SLASH BURNING	000000000	ACRE	THC	46.00	0000000
054	FOREST WILD ACRES	000000063	ACRE	NOX THC	45.00 264.20	0000001 0000008
999	COUNTY TOTALS			THC NHC NOX		0002298 0005455 0005395

TABLE B-1 (continued)

COUNTY:0595						
CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RATE	UNITS	POLLUTANT I.D.	EMISSION FACTOR	EMISSIONS ESTIMATE
001	STAGE I GASOLINE EVAP	000015721	THOUS GAL	THC	11.50	00000390
002	STAGE II GASOLINE EVAP	000015721	THOUS GAL	THC	9.70	00000376
003	STORAGE TANK BREATHING	000015721	THOUS GAL	THC	1.00	00000008
004	GASOLINE LOADING TRANSIT	000015721	THOUS GAL	THC	0.12	00000001
005	DEGREASERS	000000000	TON	NHC	2.000.00	00000000
006	DRY CLEANERS	000000016	TON	NHC	2.000.00	00000015
007	ARCH SURFACE COATING	000032941	POPULATION	NHC	4.60	00000076
008	AUTO BODY REFINISHING	00 000032941	POPULATION	NHC	1.90	00000031
009	SM IND SURFACE COATING	000000247	TON	THC	1.175.00	00000145
010	PRINTING INDUSTRIES	000000100	EMPLOYEES	NHC	200.00	00000010
011	SOLVENT PURCHASED	000000029	TON	NHC	2.000.00	00000029
012	CUTBACK ASPHALT	000000058	TON	NHC	2.000.00	00000058
013	PESTICIDES	000005598	ACRE	NHC	3.50	00000010
014	ON-HIGHWAY LDV	000141948	THOUS VMT	NOX NHC	7.05 9.54	0000501 0000577
015	ON-HIGHWAY LDT1	000016338	THOUS VMT	NOX NHC	10.65 15.00	00000087 0000123
016	ON-HIGHWAY LDT2	000016338	THOUS VMT	NOX NHC	10.65 15.00	00000087 0000123

TABLE B-1 (continued)

COUNTY:0595

CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RATE	UNITS	POLLUTANT I.D.	EMISSION FACTOR	EMISSIONS ESTIMATE
017	ON-HIGHWAY HDG	000007575	THOUS VMT	NOX	23.50	0000090
				NHC	25.00	0000095
019	ON-HIGHWAY HDD	000007675	THOUS VMT	NOX	23.50	0300090
				NHC	25.00	0000096
020	RESIDENTIAL ANTHRAC COAL	000000154	TONS	NOX	3.00	0000000
				THC	2.50	0000000
021	RESIDENTIAL BITUMIN COAL	000000336	TONS	NOX	3.00	0000001
				THC	20.50	0000004
022	RESIDENTIAL RESIDUAL OIL	000000000	THOUS GAL	NOX	60.00	0000000
				THC	1.00	0000000
023	RESIDENTIAL DISTILL OIL	000016796	THOUS GAL	NOX	18.00	0000151
				THC	1.00	0000008
024	RESIDENTIAL NATURAL GAS	000000000	MIL CU FT	NOX	80.00	0000000
				THC	8.00	0000000
025	RESIDENTIAL LPG	000000859	THOUS GAL	NOX	7.50	0000003
				THC	0.75	0000000
026	RESIDENTIAL WOOD	000051513	TON	NOX	0.19	0000005
				NHC	1.00	0000025
027	COMM-INST ANTHRACITE COAL	000000000	TON	NOX	3.00	0000000
				THC	2.50	0000000
028	COMM-INST BITUMINOUS COAL	000000000	TON	NOX	3.00	0000000
				THC	20.00	0000000
029	COMM-INST RESIDUAL OIL	000000000	THOUS GAL	NOX	60.00	0000000
				THC	1.00	0000000
030	COMM-INST DISTILLATE OIL	000000000	THOUS GAL	NOX	18.00	0000000
				THC	1.00	0000000

TABLE B-1 (continued)

COUNTY:0595

CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RATE	UNITS	POLLUTANT I.D.	EMISSION FACTOR	EMISSIONS ESTIMATE
031	COMM-INST NATURAL GAS	000000000	MIL CU FT	NOX THC	80.00 8.00	0000000 0000000
032	COMM-INST LPG	000000444	THOUS GAL	NOX THC	11.00 0.75	0000002 0000000
033	COMM-INST WOOD	000000000	TON	NOX THC	0.19 1.00	0000000 0000000
034	INDUSTRIAL ANTHRACITE COAL	000000000	TON	NOX THC	3.00 2.50	0000000 0000000
035	INDUSTRIAL BITUMIN COAL	000000000	TON	NOX THC	3.00 20.00	0000000 0000000
036	INDUSTRIAL RESIDUAL OIL	000000000	THOUS GAL	NOX THC	60.00 1.00	0000000 0000000
037	INDUSTRIAL DISTILLATE OIL	000000000	THOUS GAL	NOX THC	18.00 1.00	0000000 0000000
038	INDUSTRIAL NATURAL GAS	000000000	MIL CU FT	NOX THC	80.00 8.00	0000000 0000000
039	INDUSTRIAL LPG	000000333	THOUS GAL	NOX THC	11.65 0.30	0000002 0000000
040	INDUSTRIAL WOOD	000000000	TON	NOX THC	0.19 1.00	0000000 0000000
041	MILITARY AIRCRAFT LTO'S	000000000	LND/TAKE OFF	NOX THC	9.16 27.10	0000000 0000000
042	CIVIL AIRCRAFT LTO'S	000000000	LND/TAKE OFF	NOX THC	0.02 0.41	0000000 0000000
043	COMMERCIAL AIRCRAFT LTO'S	000002479	LND/TAKE OFF	NOX THC	27.43 30.66	0000034 0000038

TABLE B-1 (continued)

COUNTY:0595

CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RATE	UNITS	POLLUTANT I.D.	EMISSION FACTOR	EMISSIONS ESTIMATE
044	RAILROAD LOCOMOTIVES	000000070	THOUS GAL	NOX THC	370.00 94.00	0000013 0000003
045	GASOLINE VESSELS	000000734	THOUS GAL	NOX THC	39.00 948.00	0000014 0000348
046	DIESEL OIL VESSELS	000000000	THOUS GAL	NOX THC	22.20 3.00	0000000 0000000
047	RESIDUAL OIL VESSELS	000000000	THOUS GAL	NOX THC	36.40 3.20	0000000 0000000
048	OFF-HIGHWAY GASOLINE	000000367	THOUS GAL	NOX THC	119.90 267.00	0000022 0000049
049	OFF-HIGHWAY DIESEL	000000825	THOUS GAL	NOX THC	419.00 41.20	0000173 0000017
050	ON-SITE INCINERATION	000004357	TON	NOX THC	2.20 39.30	0000005 0000085
051	OPEN BURNING	000003192	TON	NOX THC	6.00 30.00	0000010 0000048
052	STRUCTURAL FIRES	000032932	POPULATION	NOX THC	0.12 0.66	0000002 0000011
053	FIELD/SLASH BURNING	000002500	ACRE	THC	46.00	0000058
054	FOREST WILD FIRES	000000100	ACRE	NOX THC	45.00 264.00	0000002 0000013
999	COUNTY TOTALS			THC NHC NOX		0001003 0001371 0001294

TABLE B-1 (continued)

COUNTY:0645

CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCLSS RATE	UNITS	POLLUTANT I.D.	EMISSION FACTOR	EMISSIONS ESTIMATE
001	STAGE I GASOLINE EVAP	000012455	THOUS GAL	THC	11.50	0000072
002	STAGE II GASOLINE EVAP	000012465	THOUS GAL	THC	9.70	0000060
003	STORAGE TANK BREATHING	000012455	THOUS GAL	THC	1.00	0000005
004	GASOLINE LOADING TRANSIT	000012455	THOUS GAL	THC	0.12	0000001
005	DEGREASERS	000000002	TON	NHC	2.000.00	0000002
005	DRY CLEANERS	000000000	TON	NHC	2.000.00	0000000
007	ARCH SURFACE COATING	000025691	POPULATION	NHC	4.60	0000059
008	AUTO BODY REFINISHING	00 000025691	POPULATION	NHC	1.90	0000024
009	SM IND SURFACE COATING	000000154	TON	THC	1.175.00	0000096
010	PRINTING INDUSTRIES	000000020	EMPLOYEES	NHC	200.00	0000002
011	SOLVENT PURCHASED	000000012	TON	NHC	2.000.00	0000012
012	CUTBACK ASPHALT	000000000	TON	NHC	2.000.00	0000000
013	PESTICIDES	000007711	ACRE	NHC	3.50	0330013
014	ON-HIGHWAY LDV	000155557	THOUS VMT	NOX NHC	7.17 8.93	0000558 0000695
015	ON-HIGHWAY LDT1	000017904	THOUS VMT	NOX NHC	11.10 14.19	0300099 0300127
016	ON-HIGHWAY LDT2	000017904	THOUS VMT	NOX NHC	11.10 14.19	0000099 0000127

TABLE B-1 (continued)

COUNTY:0645

CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RATE	UNITS	POLLUTANT I.D.	EMISSION FACTOR	EMISSIONS ESTIMATE
017	ON-HIGHWAY HDG	000008411	THOUS VMT	NOX	24.70	0000104
				NHC	23.30	0000098
018	ON-HIGHWAY HDD	000008411	THOUS VMT	NOX	24.70	0000104
				NHC	23.30	0000098
020	RESIDENTIAL ANTHRAC COAL	000000657	TONS	NOX	3.00	0000001
				THC	2.50	0000001
021	RESIDENTIAL BITUMIN COAL	000000310	TONS	NOX	3.00	0000002
				THC	20.00	0000003
022	RESIDENTIAL RESIDUAL OIL	000000000	THOUS GAL	NOX	60.00	0000000
				THC	1.00	0000000
023	RESIDENTIAL DISTILL OIL	000013109	THOUS GAL	NOX	18.00	0000118
				THC	1.00	0000007
024	RESIDENTIAL NATURAL GAS	000000000	MIL CU FT	NOX	80.00	0000002
				THC	8.00	0000000
025	RESIDENTIAL LPS	000000575	THOUS GAL	NOX	7.50	0000002
				THC	0.75	0000000
026	RESIDENTIAL WOOD	000059250	TON	NOX	0.20	0000003
				NHC	1.08	0000032
027	COMM-INST ANTHRACITE COAL	000000000	TON	NOX	3.00	0000000
				THC	2.50	0000000
028	COMM-INST BITUMINOUS COAL	000000000	TON	NOX	3.00	0000000
				THC	20.00	0000000
029	COMM-INST RESIDUAL OIL	000000000	THOUS GAL	NOX	60.00	0000000
				THC	1.00	0000000
030	COMM-INST DISTILLATE OIL	000000000	THOUS GAL	NOX	18.00	0000000
				THC	1.00	0000000

TABLE B-1 (continued)

COUNTY:0645		CATEGORY		PROCESS		EMISSIONS	
NUMBER	DESCRIPTION	RATE	UNITS	POLLUTANT	EMISSION	ESTIMATE	
031	COMM-INST NATURAL GAS	000000000	MIL CU FT	I.D.	FACTOR		
				NOX	80.00	0000000	
				THC	8.00	0000000	
032	COMM/INST LPG	000000000	THOUS GAL				
				NOX	11.00	0000000	
				THC	0.75	0000000	
033	COMM-INST WOOD	000000000	TON				
				NOX	0.20	0000000	
				THC	1.08	0000000	
034	INDUSTRIAL ANTHRACITE COAL	000000000	TON				
				NOX	3.00	0000000	
				THC	2.50	0000000	
035	INDUSTRIAL BITUMIN COAL	000000000	TON				
				NOX	3.00	0000000	
				THC	20.00	0000000	
036	INDUSTRIAL RESIDUAL OIL	000000000	THOUS GAL				
				NOX	60.00	0000000	
				THC	1.00	0000000	
037	INDUSTRIAL DISTILLATE OIL	000000000	THOUS GAL				
				NOX	18.00	0000000	
				THC	1.00	0000000	
038	INDUSTRIAL NATURAL GAS	000000000	MIL CU FT				
				NOX	80.00	0000000	
				THC	8.00	0000000	
039	INDUSTRIAL LPG	000000111	THOUS GAL				
				NOX	11.65	0000001	
				THC	0.30	0000000	
040	INDUSTRIAL WOOD	000000000	TON				
				NOX	0.20	0000000	
				THC	1.08	0000000	
041	MILITARY AIRCRAFT LTO'S	000000000	LND/TAKE OFF				
				NOX	9.16	0000000	
				THC	27.10	0000000	
042	CIVIL AIRCRAFT LTO'S	000000000	LND/TAKE OFF				
				NOX	0.02	0000000	
				THC	0.41	0000000	
043	COMMERCIAL AIRCRAFT LTO'S	000000000	LND/TAKE OFF				
				NOX	67.46	0000000	
				THC	36.66	0000000	

TABLE B-1 (continued)

COUNTY:0645					
CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RATE	UNITS	POLLUTANT I.D.	EMISSIONS ESTIMATE
044	RAILROAD LOCOMOTIVES	000000146	THOUS GAL	NOX THC	370.00 0000027 94.00 0000007
045	GASOLINE VESSELS	000000734	THOUS GAL	NOX THC	39.00 0000014 948.00 0000348
046	DIESEL OIL VESSELS	000000000	THOUS GAL	NOX THC	22.20 0000000 3.00 0000000
047	RESIDUAL OIL VESSELS	000000000	THOUS GAL	NOX THC	36.40 0000000 3.20 0000000
048	OFF-HIGHWAY GASOLINE	000000277	THOUS GAL	NOX THC	122.70 0000017 267.30 0000037
049	OFF-HIGHWAY DIESEL	000000583	THOUS GAL	NOX THC	422.00 0000123 41.20 0000012
050	ON-SITE INCINERATION	000003340	TON	NOX THC	2.40 0000004 40.00 0000067
051	OPEN BURNING	000002859	TON	NOX THC	6.00 0000009 30.00 0000043
052	STRUCTURAL FIRES	000025600	POPULATION	NOX THC	0.07 0000001 0.62 0000008
053	FIELD/SLASH BURNING	000000500	ACRE	THC	46.00 0000012
054	FOREST WILD FIRES	000000023	ACRE	NOX THC	45.00 0000001 264.00 0000003
999	COUNTY TOTALS			THC NHC NOX	0000783 0001289 0001269

TABLE B-1 (continued)

COUNTY:0885					POLLUTANT I.D.	EMISSION FACTOR	EMISSIONS ESTIMATE
CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RATE	UNITS				
001	STAGE I GASOLINE EVAP	000023814	THOUS GAL		THC	11.50	0000137
002	STAGE II GASOLINE EVAP	000023814	THOUS GAL		THC	9.70	0000115
003	STORAGE TANK BREATHING	000023814	THOUS GAL		THC	1.00	0000012
004	GASOLINE LOADING TRANSIT	000023814	THOUS GAL		THC	0.12	0000001
005	DEGREASERS	000000004	TON		NHC	2,000.00	0000004
006	DRY CLEANERS	000000003	TON		NHC	2,000.00	0000003
007	ARCH SURFACE COATING	000048958	POPULATION		NHC	4.60	0000113
008	AUTO BODY REFINISHING	00 000048968	POPULATION		NHC	1.90	0000047
009	SM IND SURFACE COATING	000000329	TON		THC	1,175.00	0000193
010	PRINTING INDUSTRIES	000000070	EMPLOYEES		NHC	200.00	0000007
011	SOLVENT PURCHASED	000000037	TON		NHC	2,000.00	0000037
012	CUTBACK ASPHALT	000000058	TON		NHC	2,000.00	0000058
013	PESTICIDES	000018116	ACRE		NHC	3.50	0000032
014	ON-HIGHWAY LDV	000231101	THOUS VMT		NOX NHC	7.13 9.21	0000824 0001064
015	ON-HIGHWAY LDT1	000026599	THOUS VMT		NOX NHC	19.90 14.80	0000145 0000197
016	ON-HIGHWAY LDT2	000026599	THOUS VMT		NOX NHC	10.90 14.80	0000145 0000197

TABLE B-1 (continued)

COUNTY:0885

CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RATE	UNITS	POLLUTANT I.D.	EMISSION FACTOR	EMISSIONS ESTIMATE
017	ON-HIGHWAY HDG	000012495	THOUS VMT	NOX NHC	24.30 24.00	0000152 0000150
018	ON-HIGHWAY HDD	000012495	THOUS VMT	NOX NHC	24.30 24.00	0000152 0000150
020	RESIDENTIAL ANTHRAC COAL	000000122	TONS	NOX THC	3.00 2.50	0000000 0000000
021	RESIDENTIAL BITUMIN COAL	000000592	TONS	NOX THC	3.00 20.00	0000001 0000006
022	RESIDENTIAL RESIDUAL OIL	000000000	THOUS GAL	NOX THC	60.00 1.00	0000000 0000000
023	RESIDENTIAL DISTILL OIL	000024990	THOUS GAL	NOX THC	18.00 1.00	0000225 0000012
024	RESIDENTIAL NATURAL GAS	000000000	MIL CU FT	NOX THC	80.00 8.00	0000000 0000000
025	RESIDENTIAL LPG	000001333	THOUS GAL	NOX THC	7.50 0.75	0000005 0000000
026	RESIDENTIAL WOOD	000076320	TON	NOX NHC	0.07 0.39	0000003 0000015
027	COMM-INST ANTHRACITE COAL	000000000	TON	NOX THC	3.50 2.50	0000000 0000000
028	COMM-INST BITUMINOUS COAL	000000000	TON	NOX THC	3.00 20.00	0000000 0000000
029	COMM-INST RESIDUAL OIL	000000000	THOUS GAL	NOX THC	60.00 1.00	0000000 0000000
030	COMM-INST DISTILLATE OIL	000000000	THOUS GAL	NOX THC	18.00 1.00	0000000 0000000

TABLE B-1 (continued)

COUNTY:0885

CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RATE	UNITS	POLLUTANT I.D.	EMISSION FACTOR	EMISSIONS ESTIMATE
031	COMM-INST NATURAL GAS	000000000	MIL CU FT	NOX THC	80.00 8.00	0000000 0000000
032	COMM/INST LPG	000000000	THOUS GAL	NOX THC	11.00 0.75	0000000 0000000
033	COMM-INST WOOD	000000000	TON	NOX THC	0.07 0.39	0000000 0000000
034	INDUSTRIAL ANTHRACIT COAL	000000000	TON	NOX THC	3.00 2.50	0000000 0000000
035	INDUSTRIAL BITUMIN COAL	000000000	TON	NOX THC	3.00 20.00	0000000 0000000
036	INDUSTRIAL RESIDUAL OIL	000000000	THOUS GAL	NOX THC	60.00 1.00	0000000 0000000
037	INDUSTRIAL DISTILLATE OIL	000000000	THOUS GAL	NOX THC	18.00 1.00	0000000 0000000
038	INDUSTRIAL NATURAL GAS	000000000	MIL CU FT	NOX THC	80.00 8.00	0000000 0000000
039	INDUSTRIAL LPG	000000336	THOUS GAL	NOX THC	11.65 0.30	0000003 0000000
040	INDUSTRIAL WOOD	000000000	TON	NOX THC	0.07 0.39	0000000 0000000
041	MILITARY AIRCRAFT LTO'S	000000000	LND/TAKE OFF	NOX THC	9.16 27.10	0000000 0000000
042	CIVIL AIRCRAFT LTO'S	000000000	LND/TAKE OFF	NOX THC	0.02 0.41	0000000 0000000
043	COMMERCIAL AIRCRAFT LTO'S	000000000	LND/TAKE OFF	NOX THC	67.46 30.66	0000000 0000000

TABLE B-1 (continued)

COUNTY:0885

CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RATE	UNITS	POLLUTANT I.O.	EMISSION FACTOR	EMISSIONS ESTIMATE
044	RAILROAD LOCOMOTIVES	000000876	THOUS GAL	NOX THC	370.00 94.00	0000162 0000041
045	GASOLINE VESSELS	000000734	THOUS GAL	NOX THC	39.00 948.00	0000014 0000348
046	DIESEL OIL VESSELS	000000000	THOUS GAL	NOX THC	22.20 3.00	0000000 0000000
047	RESIDUAL OIL VESSELS	000000000	THOUS GAL	NOX THC	36.40 3.20	0000000 0000000
048	OFF-HIGHWAY GASOLINE	000000674	THOUS GAL	NOX THC	133.50 267.00	0000045 0000090
049	OFF-HIGHWAY DIESEL	000001505	THOUS GAL	NOX THC	401.00 41.20	0000302 0000031
050	ON-SITE INCINERATION	000006540	TON	NOX THC	2.10 39.10	0000007 0000128
051	OPEN BURNING	000006098	TON	NOX THC	6.00 30.00	0000018 0000091
052	STRUCTURAL FIRES	000040949	POPULATION	NOX THC	0.12 0.65	0000003 0000015
053	FIELD/SLASH BURNING	000000000	ACRE	THC	46.00	0000000
054	FOREST WILD FIRES	000000031	ACRE	NOX THC	45.00 264.00	0000001 0000007
999	COUNTY TOTALS			THC NOX THC		9001228 0002074 0002207

TABLE B-1 (continued)

COUNTY:0907								
CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RATE	UNITS	POLLUTANT I.D.	EMISSION FACTOR	EMISSIONS ESTIMATE		
001	STAGE I GASOLINE EVAP	000066047	THOUS GAL	THC	11.50	0000380		
002	STAGE II GASOLINE EVAP	000066047	THOUS GAL	THC	9.70	0000320		
003	STORAGE TANK BREATHING	000066047	THOUS GAL	THC	1.00	0000033		
004	GASOLINE LOADING TRANSIT	000066047	THOUS GAL	THC	0.12	0000004		
005	DEGREASERS	000000000	TON	NHC	2,000.00	0000000		
006	DRY CLEAVERS	000000000	TON	NHC	2,000.00	0000000		
007	ARCH SURFACE COATING	000137015	POPULATION	NHC	4.60	0000315		
008	AUTO BODY REFINISHING	00 000137015	POPULATION	NHC	1.90	0000130		
009	SM IND SURFACE COATING	000000986	TON	THC	1,175.00	0000579		
010	PRINTING INDUSTRIES	0000000100	EMPLOYEES	NHC	200.00	0000010		
011	SOLVENT PURCHASED	000000000	TON	NHC	2,000.00	0000000		
012	CUTBACK ASPHALT	0000000157	TON	NHC	2,000.00	0000157		
013	PESTICIDES	000041006	ACRE	NHC	3.50	0000072		
014	ON-HIGHWAY LDV	000691342	THOUS VMT	NOX NHC	7.10 9.72	0002456 0003362		
015	ON-HIGHWAY LDT1	000079571	THOUS VMT	NOX NHC	9.95 14.35	0003396 0000571		
016	ON-HIGHWAY LOT2	000079571	THOUS VMT	NOX NHC	9.95 14.35	0003396 0000571		

TABLE B-1 (continued)

COUNTY:0907

CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RATE	UNITS	POLLUTANT I.D.	EMISSION FACTOR	EMISSIONS ESTIMATE
017	ON-HIGHWAY HOG	000037380	THOUS VMT	NOX NHC	30.10 31.20	0000563 0000583
018	ON-HIGHWAY HDD	000037380	THOUS VMT	NOX NHC	30.10 31.20	0000563 0000583
020	RESIDENTIAL ANTHRAC COAL	000000233	TONS	NOX THC	3.00 2.50	0000000 0000000
021	RESIDENTIAL BITUMIN COAL	000001642	TONS	NOX THC	3.00 20.00	0000002 0000015
022	RESIDENTIAL RESIDUAL OIL	000000000	THOUS GAL	NOX THC	60.00 1.00	0000000 0000000
023	RESIDENTIAL DISTILL OIL	000000030	THOUS GAL	NOX THC	18.00 1.00	0000000 0000000
024	RESIDENTIAL NATURAL GAS	000000000	MIL CU FT	NOX THC	89.00 8.00	0000000 0000000
025	RESIDENTIAL LPG	000003594	THOUS GAL	NOX THC	7.50 0.75	0000013 0000001
026	RESIDENTIAL WOOD	000150643	TUN	NOX NHC	0.27 1.37	0000021 0000103
027	COMM-INST ANTHRACITE COAL	000000000	TON	NOX THC	3.00 2.50	0000000 0000000
028	COMM-INST BITUMINOUS COAL	000000030	TON	NOX THC	3.00 20.00	0000000 0000000
029	COMM-INST RESIDUAL OIL	000000000	THOUS GAL	NOX THC	60.00 1.00	0000000 0000000
030	COMM-INST DISTILLATE OIL	000000030	THOUS GAL	NOX THC	18.00 1.00	0000000 0000000

TABLE B-1 (continued)

COUNTY:0307

CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RATE	UNITS	POLLUTANT I.D.	EMISSION FACTOR	EMISSIONS ESTIMATE
031	COMM-INST NATURAL GAS	000000000	MIL CU FT	NOX THC	80.00 8.00	0000000 0000000
032	COMM/INST LPG	000002222	THOUS GAL	NOX THC	11.00 0.75	0000012 0000001
033	COMM-INST WOOD	000000000	TON	NOX THC	0.27 1.37	0000000 0000000
034	INDUSTRIAL ANTHRACITE COAL	000000000	TON	NOX THC	3.00 2.50	0000000 0000000
035	INDUSTRIAL BITUMIN COAL	000000000	TON	NOX THC	3.00 20.00	0000000 0000000
036	INDUSTRIAL RESIDUAL OIL	000000000	THOUS GAL	NOX THC	60.00 1.00	0000000 0000000
037	INDUSTRIAL DISTILLATE OIL	000000000	THOUS GAL	NOX THC	18.00 1.00	0000000 0000000
038	INDUSTRIAL NATURAL GAS	000000000	MIL CU FT	NOX THC	80.00 8.00	0000000 0000000
039	INDUSTRIAL LPG	000001556	THOUS GAL	NOX THC	11.65 0.30	0000000 0000000
040	INDUSTRIAL WOOD	000000000	TON	NOX THC	0.27 1.37	0000000 0000000
041	MILITARY AIRCRAFT LT0'S	000005430	LND/TAKE OFF	NOX THC	9.16 27.10	0000025 0000071
042	CIVIL AIRCRAFT LT0'S	000000000	LND/TAKE OFF	NOX THC	0.02 0.41	0000000 0000000
043	COMMERCIAL AIRCRAFT LT0'S	000007502	LND/TAKE OFF	NOX THC	26.92 30.66	0000101 0000115

TABLE B-1 (continued)

CATEGORY		CATEGORY	PROCESS	EMISSIONS	
NUMBER	DESCRIPTION	RATE	UNITS	POLLUTANT	ESTIMATE
044	RAILROAD LOCOMOTIVES	000001357	THOUS GAL	L.D.	
				NOX	370.00 0000251
				THC	94.00 0000054
045	GASOLINE VESSELS	000000734	THOUS GAL		
				NOX	39.00 0000014
				THC	948.30 0000348
046	DIESEL OIL VESSELS	000000000	THOUS GAL		
				NOX	22.20 0000000
				THC	3.00 0000000
047	RESIDUAL OIL VESSELS	000000000	THOUS GAL		
				NOX	36.40 0000000
				THC	3.20 0000000
048	OFF-HIGHWAY GASOLINE	000001453	THOUS GAL		
				NOX	108.70 0000079
				THC	267.50 0000194
049	OFF-HIGHWAY DIESEL	000003204	THOUS GAL		
				NOX	437.00 0000700
				THC	41.20 0000065
050	ON-SITE INCINERATION	000017807	TON		
				NOX	2.20 0000020
				THC	40.40 0000350
051	OPEN BURNING	000014377	TON		
				NOX	6.50 0000043
				THC	30.00 0000216
052	STRUCTURAL FIRES	000137018	POPULATION		
				NOX	0.10 0000007
				THC	0.54 0000044
053	FIELD/SLASH BURNING	000000000	ACRE		
				THC	46.00 0000000
054	FOREST WILD FIRES	000000131	ACRE		
				NOX	45.00 0000003
				THC	264.30 0000017
999	COUNTY TOTALS				
				THC	3002831
				NHC	5006457
				NOX	0005574

TABLE B-1 (continued)

COUNTY:1065					POLLUTANT	EMISSION	EMISSIONS
CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RATE	UNITS	I.D.	FACTOR	ESTIMATE	
001	STAGE I GASOLINE EVAP	000014047	THOUS GAL	THC	11.50	0000081	
002	STAGE II GASOLINE EVAP	000014047	THOUS GAL	THC	9.70	0000068	
003	STORAGE TANK BREATHING	000014047	THOUS GAL	THC	1.00	0000007	
004	GASOLINE LOADING TRANSIT	000014047	THOUS GAL	THC	0.12	0000001	
005	DEGREASERS	000000003	TON	NHC	2.000.00	0000003	
006	DRY CLEANERS	000000006	TON	NHC	2.000.00	0000006	
007	ARCH SURFACE COATING	000028795	POPULATION	NHC	4.60	0000066	
008	AUTO BODY REFINISHING	00 000028795	POPULATION	NHC	1.90	0000027	
009	SM INJ SURFACE COATING	0000000247	TON	THC	1,175.00	0000145	
010	PRINTING INDUSTRIES	000000000	EMPLOYEES	NHC	200.00	0000000	
011	SOLVENT PURCHASED	000000000	TON	NHC	2,000.00	0000000	
012	CUTBACK ASPHALT	000000017	TON	NHC	2,000.00	0000017	
013	PESTICIDES	000004254	ACRE	NHC	3.50	0000007	
014	ON-HIGHWAY LUV	000150324	THOUS VMT	NOX NHC	7.14 9.31	0000537 0000700	
015	ON-HIGHWAY LDT1	000017302	THOUS VMT	NOX NHC	10.40 14.20	0000090 0000123	
016	ON-HIGHWAY LDT2	000017302	THOUS VMT	NOX NHC	10.40 14.20	0000090 0000123	

TABLE B-1 (continued)

COUNTY:1065

CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RATE	UNITS	POLLUTANT I.D.	EMISSION FACTOR	EMISSIONS ESTIMATE
017	ON-HIGHWAY HDG	000008128	THOUS VMT	NOX NHC	28.00 27.00	0000114 0000110
018	ON-HIGHWAY HDG	000008128	THOUS VMT	NOX VHC	28.00 27.00	0000114 0000110
020	RESIDENTIAL ANTHRAC COAL	000000085	TONS	NOX THC	3.00 2.50	0000000 0000000
021	RESIDENTIAL BITUMIN COAL	000000350	TONS	NOX THC	3.00 20.00	0000001 0000004
022	RESIDENTIAL RESIDUAL OIL	000000000	THOUS GAL	NOX THC	60.00 1.00	0000000 0000000
023	RESIDENTIAL DISTILL OIL	000014748	THOUS GAL	NOX THC	18.00 1.00	0000133 0000007
024	RESIDENTIAL NATURAL GAS	000000000	MIL CU FT	NOX THC	80.00 8.00	0000000 0000000
025	RESIDENTIAL LPG	000000995	THOUS GAL	NOX THC	7.50 0.75	0000304 0000000
026	RESIDENTIAL WOOD	000024215	TON	NOX NHC	0.16 0.66	0000002 0000008
027	COMM-INST ANTHRACITE COAL	000000000	TON	NOX THC	3.00 2.50	0000000 0000000
028	COMM-INST BITUMINOUS COAL	000000000	TON	NOX THC	3.00 20.00	0000000 0000000
029	COMM-INST RESIDUAL OIL	000000000	THOUS GAL	NOX THC	60.00 1.00	0000000 0000000
030	COMM-INST DISTILLATE OIL	000000000	THOUS GAL	NOX THC	18.00 1.00	0000000 0000000

TABLE B-1 (continued)

COUNTY:1065

CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RATE	UNITS	POLLUTANT I.D.	EMISSION FACTOR	EMISSIONS ESTIMATE
031	COMM-INST NATURAL GAS	000000000	MIL CU FT	NOX THC	80.00 8.00	0000000 0000000
032	COMM-INST LPS	000000000	THOUS GAL	NOX THC	11.00 0.75	0000000 0000000
033	COMM-INST WOOD	000000000	TON	NOX THC	0.16 0.66	0000000 0000000
034	INDUSTRIAL ANTHRACITE COAL	000000000	TON	NOX THC	3.00 2.50	0000000 0000000
035	INDUSTRIAL BITUMIN COAL	000000000	TON	NOX THC	3.00 20.00	0000000 0000000
036	INDUSTRIAL RESIDUAL OIL	000000000	THOUS GAL	NOX THC	60.00 1.00	0000000 0000000
037	INDUSTRIAL DISTILLATE OIL	000000000	THOUS GAL	NOX THC	16.00 1.00	0000000 0000000
038	INDUSTRIAL NATURAL GAS	000000000	MIL CU FT	NOX THC	80.00 8.00	0000000 0000000
039	INDUSTRIAL LPG	000000657	THOUS GAL	NOX THC	11.65 0.30	0000004 0000000
040	INDUSTRIAL WOOD	000000000	TON	NOX THC	0.16 0.66	0000000 0000000
041	MILITARY AIRCRAFT LTD'S	000000000	LND/TAKE OFF	NOX THC	9.16 27.10	0000000 0000000
042	CIVIL AIRCRAFT LTD'S	000000000	LND/TAKE OFF	NOX THC	1.02 0.41	0000000 0000000
043	COMMERCIAL AIRCRAFT LTD'S	000000000	LND/TAKE OFF	NOX THC	27.00 30.66	0000000 0000000

TABLE B-1 (continued)

COUNTY:1065

CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RATE	UNITS	POLLUTANT I.D.	EMISSION FACTOR	EMISSIONS ESTIMATE
044	RAILROAD LOCOMOTIVES	000000157	THOUS GAL	NOX THC	370.00 94.00	0000329 0000307
045	GASOLINE VESSELS	000000734	THOUS GAL	NOX THC	39.00 948.00	0000014 0000348
046	DIESEL OIL VESSELS	000000000	THOUS GAL	NOX THC	22.20 3.00	0000000 0000000
047	RESIDUAL OIL VESSELS	000000000	THOUS GAL	NOX THC	36.40 3.20	0000000 0000000
048	OFF-HIGHWAY GASOLINE	000000307	THOUS GAL	NOX THC	104.20 267.00	0000016 0000341
049	OFF-HIGHWAY DIESEL	000000825	THOUS GAL	NOX THC	446.00 41.20	0000184 0000017
050	ON-SITE INCINERATION	000004457	TON	NOX THC	2.20 40.70	0000005 0000091
051	OPEN BURNING	000003473	TON	NOX THC	6.00 30.00	0000010 0000052
052	STRUCTURAL FIRES	000020753	POPULATION	NOX THC	0.13 0.62	0000002 0000009
053	FIELD/SLASH BURNING	000000000	ACRE	THC	46.00	0000000
054	FOREST WILD FIRES	000000025	ACRE	NOX THC	45.00 264.00	0000001 0000003
999	COUNTY TOTALS			THC HHC NOX		0000081 0001300 0001350

TABLE B-1 (continued)

CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RATE	UNITS	POLLUTANT I.D.	EMISSION FACTOR	EMISSIONS ESTIMATE
COUNTY:1125						
001	STAGE I GASOLINE EVAP	000021674	THOUS GAL	THC	11.50	0000125
002	STAGE II GASOLINE EVAP	000021674	THOUS GAL	THC	9.70	0000105
003	STORAGE TANK BREATHING	000021674	THOUS GAL	THC	1.00	0000011
004	GASOLINE LOADING TRANSIT	000021674	THOUS GAL	THC	0.12	0000001
005	DEGREASERS	000000005	TON	NHC	2.000.00	0000005
005	DRY CLEANERS	000000005	TON	NHC	2.000.00	0000005
007	ARCH SURFACE COATING	00045028	POPULATION	NHC	4.60	0000104
008	AUTO BODY REFINISHING	00 000045028	POPULATION	NHC	1.90	0000043
009	SM IND SURFACE COATING	000000329	TON	THC	1,175.00	0000193
010	PRINTING INDUSTRIES	000000020	EMPLOYEES	NHC	200.00	0000002
011	SOLVENT PURCHASED	000000000	TON	NHC	2.000.00	0000000
012	CUTBACK ASPHALT	000000003	TON	NHC	2.000.00	0000003
013	PESTICIDES	000034221	ACRE	NHC	3.50	0000050
014	ON-HIGHWAY LDV	000278773	THOUS VMT	NOX NHC	7.19 9.46	0001002 0001319
015	ON-HIGHWAY LDT1	000030086	THOUS VMT	NOX NHC	10.66 13.46	0000171 0000215
015	ON-HIGHWAY LDT2	000030086	THOUS VMT	NOX NHC	10.66 13.46	0000171 0000215

TABLE B-1 (continued)

COUNTY:1125

CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RATE	UNITS	POLLUTANT I.D.	EMISSION FACTOR	EMISSIONS ESTIMATE
017	ON-HIGHWAY HDG	000015073	THOUS VMT	NOX NHC	28.40 27.20	0000214 0000205
018	ON-HIGHWAY HDD	000015073	THOUS VMT	NOX NHC	28.40 27.20	0000214 0000205
020	RESIDENTIAL ANTHRAC COAL	000000138	TONS	NOX THC	3.00 2.50	0000000 0000000
021	RESIDENTIAL BITUMIN COAL	000000538	TONS	NOX THC	3.00 20.00	0000001 0000005
022	RESIDENTIAL RESIDUAL OIL	000000000	THOUS GA-	NOX THC	60.00 1.00	0000000 0000000
023	RESIDENTIAL DISTILL OIL	000022941	THOUS GA-	NOX THC	18.00 1.00	0000205 0000011
024	RESIDENTIAL NATURAL GAS	000000000	MIL CU FT	NOX THC	80.00 8.00	0000000 0000000
025	RESIDENTIAL LPG	000001186	THOUS GAL	NOX THC	7.50 0.75	0000004 0000000
026	RESIDENTIAL WOOD	000086593	TON	NOX NHC	0.04 0.28	0000002 0000012
027	COMM-INST ANTHRACITE COAL	000000000	TON	NOX THC	3.00 2.50	0000000 0000000
028	COMM-INST BITUMINOUS COAL	000000000	TON	NOX THC	3.00 20.00	0000000 0000000
029	COMM-INST RESIDUAL OIL	000000000	THOUS GAL	NOX THC	60.00 1.00	0000000 0000000
030	COMM-INST DISTILLATE OIL	000000000	THOUS GAL	NOX THC	18.00 1.00	0000000 0000000

TABLE B-1 (continued)

COUNTY:1125

CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RATE	UNITS	POLLUTANT I.D.	EMISSION FACTOR	EMISSIONS ESTIMATE
031	COMM-INST NATURAL GAS	000000000	MIL CU FT	NOX THC	80.00 8.00	0000000 0000000
032	COMM/INST LPG	000003333	THOUS GAL	NOX THC	11.00 0.75	0000018 0000001
033	COMM-INST WOOD	000000000	TON	NOX THC	0.04 0.28	0000000 0000000
034	INDUSTRIAL ANTHRACITE COAL	000000000	TON	NOX THC	3.00 2.50	0000000 0000000
035	INDUSTRIAL BITUMIN COAL	000000000	TON	NOX THC	3.00 20.00	0000000 0000000
036	INDUSTRIAL RESIDUAL OIL	000000000	THOUS GAL	NOX THC	60.00 1.00	0000000 0000000
037	INDUSTRIAL DISTILLATE OIL	000000000	THOUS GAL	NOX THC	18.00 1.00	0000000 0000000
038	INDUSTRIAL NATURAL GAS	000000000	MIL CU FT	NOX THC	80.00 8.00	0000000 0000000
039	INDUSTRIAL LPG	000000000	THOUS GAL	NOX THC	11.65 0.30	0000003 0000000
040	INDUSTRIAL WOOD	000000000	TON	NOX THC	0.04 0.28	0000000 0000000
041	MILITARY AIRCRAFT LTO'S	000000000	LND/TAKE OFF	NOX THC	9.16 27.10	0000000 0000000
042	CIVIL AIRCRAFT LTO'S	000000000	LND/TAKE OFF	NOX THC	0.02 0.41	0000000 0000000
043	COMMERCIAL AIRCRAFT LTO'S	000000000	LND/TAKE OFF	NOX THC	27.00 30.66	0000000 0000000

TABLE B-1 (continued)

COUNTY:1125						
CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RATE	UNITS	POLLUTANT I.D.	EMISSION FACTOR	EMISSIONS ESTIMATE
044	RAILROAD LOCOMOTIVES	000000617	THOUS GAL	NOX THC	370.00 94.00	0000114 0000029
045	GASOLINE VESSELS	000000734	THOUS GAL	NOX THC	39.00 948.00	0000014 0000348
046	DIESEL OIL VESSELS	000000000	THOUS GAL	NOX THC	22.20 3.00	0000000 0000000
047	RESIDUAL OIL VESSELS	000000000	THOUS GAL	NOX THC	36.40 3.20	0000000 0000000
048	OFF-HIGHWAY GASOLINE	000000727	THOUS GAL	NOX THC	154.00 267.00	0000056 0000097
049	OFF-HIGHWAY DIESEL	000001553	THOUS GAL	NOX THC	376.00 41.20	0000292 0000032
050	ON-SITE INCINERATION	000000674	TON	NOX THC	2.10 41.60	0000006 0000119
051	OPEN BURNING	000004184	TON	NOX THC	6.00 30.00	0000013 0000063
052	STRUCTURAL FIRES	000044999	POPULATION	NOX THC	0.08 0.62	0000002 0000014
053	FIELD/SLASH BURNING	000000000	ACRE	THC	46.00	0000000
054	FOREST WILD FIRES	000000117	ACRE	NOX THC	45.00 264.00	0000003 0000015
999	COUNTY TOTALS			THC NOX NOX NOX		0001168 0002395 0002395 0002395

TABLE B-1 (continued)

CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RATE	UNITS	POLLUTANT I.D.	EMISSION FACTOR	EMISSIONS ESTIMATE
001	STAGE I GASOLINE EVAP	000013581	THOUS GAL	THC	11.50	0000078
002	STAGE II GASOLINE EVAP	000013581	THOUS GAL	THC	9.70	0000066
003	STORAGE TANK BREATHING	000013581	THOUS GAL	THC	1.00	0000007
004	GASOLINE LOADING TRANSIT	000013581	THOUS GAL	THC	0.12	0000001
005	DEGREASERS	000000001	TON	NHC	2,000.00	0000001
006	DRY CLEANERS	000000005	TON	NHC	2,000.00	0000005
007	ARCH SURFACE COATINGS	000028414	POPULATION	NHC	4.60	0000065
008	AUTO BODY REFINISHING	000024414	POPULATION	NHC	1.90	0000027
009	SM IND SURFACE COATING	000000247	TON	THC	1,175.00	0000145
010	PRINTING INDUSTRIES	000000050	EMPLOYEES	NHC	200.00	0000006
011	SOLVENT PURCHASED	000000000	TON	NHC	2,000.00	0000000
012	CUTBACK ASPHALT	000000005	TON	NHC	2,000.00	0000005
013	PESTICIDES	000020584	ACRE	NHC	3.50	0000036
014	ON-HIGHWAY LDV	000151842	THOUS VMT	NOX NHC	7.13 9.22	0000541 0000700
015	ON-HIGHWAY LDT1	000017476	THOUS VMT	NOX NHC	10.87 14.70	0000095 0000128
016	ON-HIGHWAY LDT2	000017476	THOUS VMT	NOX NHC	16.87 14.70	0000095 0000128

COUNTY:1183

TABLE B-1 (continued)

CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCLSS RATE	UNITS	POLLUTANT L.D.	EMISSION FACTOR	EMISSIONS ESTIMATE
017	ON-HIGHWAY HDG	000000210	THOUS VMT	NOX NHC	24.60 24.40	0000101 0000100
018	ON-HIGHWAY HDG	000000210	THOUS VMT	NOX NHC	24.60 24.40	0000101 0000100
020	RESIDENTIAL ANTHRAC COAL	000000212	TONS	NOX THC	3.00 2.50	0000000 0000000
021	RESIDENTIAL BITUMIN COAL	000000337	TONS	NOX THC	3.00 20.00	0000001 0000003
022	RESIDENTIAL RESIDUAL OIL	000000000	THOUS GAL	NOX THC	60.00 1.00	0000000 0000000
023	RESIDENTIAL DISTILL OIL	000014338	THOUS GAL	NOX THC	18.00 1.00	0000129 0000007
024	RESIDENTIAL NATURAL GAS	000000000	MIL CU FT	NOX THC	60.00 8.00	0000000 0000000
025	RESIDENTIAL LPG	000001047	THOUS GAL	NOX THC	7.50 0.75	0000004 0000000
026	RESIDENTIAL WOOD	000000010	TON	NOX NHC	0.21 0.96	0000000 0000000
027	COMM-INST ANTHRACITE COAL	000000000	TON	NOX THC	3.00 2.50	0000000 0000000
028	COMM-INST BITUMINOUS COAL	000000000	TON	NOX THC	3.00 2.50	0000000 0000000
029	COMM-INST RESIDUAL OIL	000000000	THOUS GAL	NOX THC	60.00 1.00	0000000 0000000
030	COMM-INST DISTILLATE OIL	000000000	THOUS GAL	NOX THC	18.00 1.00	0000000 0000000

TABLE B-1 (continued)

CATEGORY		CATEGORY	PROCESS	UNITS	POLLUTANT-EMISSION		EMISSIONS
NUMBER		DESCRIPTION	RATE		I.D.		ESTIMATE
031		COMM-INST NATURAL GAS	000000000	MIL CU FT			
					NOX	80.00	0000000
					THC	8.00	0000000
032		COMM-INST LPG	000000000	THOUS GAL	NOX	11.00	0000000
					THC	0.75	0000000
033		COMM-INST WOOD	000000000	TON	NOX	0.21	0000000
					THC	0.96	0000000
034		INDUSTRIAL ANTHRACITE COAL	000000000	TON	NOX	3.00	0000000
					THC	2.50	0000000
035		INDUSTRIAL BITUMIN COAL	000000000	TON	NOX	3.00	0000000
					THC	20.00	0000000
036		INDUSTRIAL RESIDUAL OIL	000000000	THOUS GAL	NOX	60.00	0000000
					THC	1.00	0000000
037		INDUSTRIAL DISTILLATE OIL	000000000	THOUS GAL	NOX	18.00	0000000
					THC	1.00	0000000
038		INDUSTRIAL NATURAL GAS	000000000	MIL CU FT	NOX	80.00	0000000
					THC	8.00	0000000
039		INDUSTRIAL LPG	000000222	THOUS GAL	NOX	11.65	0000001
					THC	0.30	0000000
040		INDUSTRIAL WOOD	000000000	TON	NOX	0.21	0000000
					THC	0.96	0000000
041		MILITARY AIRCRAFT LTD'S	000000000	LND/TAKE OFF	NOX	9.16	0000000
					THC	27.10	0000000
042		CIVIL AIRCRAFT LTD'S	000000000	LND/TAKE OFF	NOX	0.02	0000000
					THC	0.41	0000000
043		COMMERCIAL AIRCRAFT LTD'S	000000000	LND/TAKE OFF	NOX	27.00	0000000
					THC	30.66	0000000

COUNTY:1183

TABLE B-1 (continued)

COUNTY:1183						
CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RATE	UNITS	POLLUTANT I.D.	EMISSION FACTOR	EMISSIONS ESTIMATE
044	RAILROAD LOCOMOTIVES	000000573	THOUS GAL	NOX THC	370.00 94.00	0000105 0000027
045	GASOLINE VESSELS	000000734	THOUS GAL	NOX THC	39.00 948.00	0000014 0000348
046	DIESEL OIL VESSELS	000000000	THOUS GAL	NOX THC	22.20 3.00	0000000 0000000
047	RESIDUAL OIL VESSELS	000000000	THOUS GAL	NOX THC	36.40 3.20	0000000 0000000
048	OFF-HIGHWAY GASOLINE	000000547	THOUS GAL	NOX THC	168.00 267.00	0000046 0000073
049	OFF-HIGHWAY DIESEL	000001058	THOUS GAL	NOX THC	356.00 41.20	0000190 0000022
050	ON-SITE INCINERATION	000003480	TON	NOX THC	2.30 42.50	0000004 0000074
051	OPEN BURNING	000004352	TON	NOX THC	6.00 30.00	0000013 0000055
052	STRUCTURAL FIRES	000020418	POPULATION	NOX THC	0.07 0.63	0000001 0000009
053	FIELD/SLASH BURNING	000002000	ACRE	THC	46.00	0000046
054	FOREST WILLOW FIRES	000000034	ACRE	NOX THC	45.00 264.00	0000001 0000004
999	COUNTY TOTALS			THC NOX THC		0000975 0001329 0001449

TABLE B-1 (continued)

COUNTY:1325						
CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RATE	UNITS	POLLUTANT I.D.	EMISSION FACTOR	EMISSIONS ESTIMATE
001	STAGE I GASOLINE EVAP	000067153	THOUS GAL	THC	11.50	0000386
002	STAGE II GASOLINE EVAP	000067163	THOUS GAL	THC	9.70	0000326
003	STORAGE TANK BREATHING	000067163	THOUS GAL	THC	1.00	0000034
004	GASOLINE LOADING TRANSIT	000067153	THOUS GAL	THC	0.12	0000004
005	DEGREASERS	000000013	TON	NHC	2,000.00	0000013
006	DRY CLEANERS	000000020	TON	NHC	2,000.00	0000098
007	ARCH SURFACE COATING	000139666	POPULATION	NHC	4.60	0000321
008	AUTO BODY REFINISHING	000139566	POPULATION	NHC	1.90	0000133
009	SM IND SURFACE COATING	000000986	TON	THC	1,175.00	0000579
010	PRINTING INDUSTRIES	000000170	EMPLOYEES	NHC	200.00	0000017
011	SOLVENT PURCHASED	000000032	TON	NHC	2,000.00	0000032
012	CUTBACK ASPHALT	000000127	TON	NHC	2,000.00	0000127
013	PESTICIDES	000022227	ACRE	NHC	3.50	0000039
014	ON-HIGHWAY LDV	000736987	THOUS VMT	NOX NHC	7.21 9.25	0002657 0003409
015	ON-HIGHWAY LDT1	060064824	THOUS VMT	NOX NHC	10.16 13.88	0000431 0000589
016	ON-HIGHWAY LDT2	000084824	THOUS VMT	NOX NHC	10.16 13.88	0000431 0000589

TABLE B-1 (continued)

COUNTY:1325

CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RATE	UNITS	POLLUTANT I.D.	EMISSION FACTOR	EMISSIONS ESTIMATE
017	ON-HIGHWAY HDG	000039848	THOUS VMT	NOX NHC	32.00 31.00	0000638 0000518
018	ON-HIGHWAY HDG	000039948	THOUS VMT	NOX NHC	32.00 31.00	0000638 0000618
020	RESIDENTIAL ANTHRAC COAL	000000164	TONS	NOX THC	3.00 2.50	0000000 0000000
021	RESIDENTIAL BITUMIN COAL	000001670	TONS	NOX THC	3.00 20.00	0000303 0000017
022	RESIDENTIAL RESIDUAL OIL	000000000	THOUS GAL	NOX THC	50.00 1.00	0000300 0000000
023	RESIDENTIAL DISTILL OIL	000071282	THOUS GAL	NOX THC	18.00 1.00	0003642 0000036
024	RESIDENTIAL NATURAL GAS	000000000	MIL CU FT	NOX THC	80.00 8.00	0000300 0000000
025	RESIDENTIAL LPG	000004057	THOUS GAL	NOX THC	7.50 0.75	0000015 0000002
026	RESIDENTIAL WOOD	000122530	TON	NOX NHC	0.32 1.60	0000320 0000098
027	COMM-INST ANTHRACITE COAL	000000000	TON	NOX THC	3.00 2.50	0000000 0000000
028	COMM-INST BITUMINOUS COAL	000000000	TON	NOX THC	3.00 20.00	0000000 0000000
029	COMM-INST RESIDUAL OIL	000000000	THOUS GAL	NOX THC	60.00 1.00	0000300 0000000
030	COMM-INST DISTILLATE OIL	000000000	THOUS GAL	NOX THC	18.00 1.00	0000000 0000000

TABLE B-1 (continued)

COUNTY#1325

CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RATE	UNITS	POLLUTANT I.D.	EMISSION FACTOR	EMISSIONS ESTIMATE
031	COMM-INST NATURAL GAS	000000000	MIL CU FT	NOX THC	80.00 8.00	0000000 0000000
032	COMM/INST LPG	000003333	THOUS GAL	NOX THC	11.00 0.75	0000018 0000001
033	COMM-INST WOOD	000000000	TON	NOX THC	0.32 1.60	0000000 0000000
034	INDUSTRIAL ANTHRACIT COAL	000000000	TON	NOX THC	3.00 2.50	0000000 0000000
035	INDUSTRIAL BITUMIN COAL	000000000	TON	NOX THC	3.00 20.00	0000000 0000000
036	INDUSTRIAL RESIDUAL OIL	000000000	THOUS GAL	NOX THC	60.00 1.00	0000000 0000000
037	INDUSTRIAL DISTILLATE OIL	000000000	THOUS GAL	NOX THC	18.00 1.00	0000000 0000000
038	INDUSTRIAL NATURAL GAS	000000000	MIL CU FT	NOX THC	80.00 8.00	0000000 0000000
039	INDUSTRIAL LPG	000001111	THOUS GAL	NOX THC	11.65 0.30	0000005 0000000
040	INDUSTRIAL WOOD	000000000	TON	NOX THC	0.32 1.50	0000000 0000000
041	MILITARY AIRCRAFT LTD'S	000000000	LND/TAKE OFF	NOX THC	9.16 27.10	0000000 0000000
042	CIVIL AIRCRAFT LTD'S	000000000	LND/TAKE OFF	NOX THC	6.02 0.41	0000000 0000000
043	COMMERCIAL AIRCRAFT LTD'S	000000000	LND/TAKE OFF	NOX THC	27.00 36.66	0000000 0000000

TABLE B-1 (continued)

COUNTY:1325

CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RATE	UNITS	POLLUTANT I-D.	EMISSION FACTOR	EMISSIONS ESTIMATE
044	RAILROAD LOCOMOTIVES	000000200	THOUS GAL	NOX THC	370.00 94.00	0000037 0000009
045	GASOLINE VESSELS	000000734	THOUS GAL	NOX THC	39.00 948.00	0000014 0000348
046	DIESEL OIL VESSELS	000000000	THOUS GAL	NOX THC	22.20 3.00	0000000 0000000
047	RESIDUAL OIL VESSELS	000000000	THOUS GAL	NOX THC	36.40 3.20	0000000 0000000
048	OFF-HIGHWAY GASOLINE	000001356	THOUS GAL	NOX THC	95.80 257.00	0000055 0000181
049	OFF-HIGHWAY DIESEL	000003155	THOUS GAL	NOX THC	448.00 41.20	0000707 0000065
050	ON-SITE INCINERATION	000017927	TON	NOX THC	2.20 40.80	0000020 0000366
051	OPEN BURNING	000007655	TON	NOX THC	6.00 30.00	0000123 0000115
052	STRUCTURAL FIRES	000139472	POPULATION	NOX THC	0.10 0.54	0000007 0000045
053	FIELD/SLASH BURNING	000000000	ACRE	THC	46.00	0000000
054	FOREST WILD FIRES	000000059	ACRE	NOX THC	45.00 264.00	0000001 0000008
999	COUNTY TOTALS			THC NOX NOX		0002522 0006731 0006373

APPENDIX C

DOCUMENTATION OF THE COMPUTER ROUTINE USED FOR THE MAINE POINT SOURCE INVENTORY

As described in Section 3, one "generic" problem with the Maine point source inventory was resolved using a computer routine. Specifically, the year of record for the point source data was originally reported as 1980, although the inventory actually reflects 1979 data. The routine used to perform this correction is provided as follows.

TABLE C-1. DOCUMENTATION OF THE COMPUTER ROUTINE USED
FOR THE MAINE POINT SOURCE INVENTORY

```

00000020 /*JCBPARG LINES=20
00000030 //FIX79 EXEC GCAEZT1
00000040 //FILEB DD DSN=88MAINE,UNIT=SYSDA,DISP=(,PASS),
00000050 // DCB=(RECFM=FB,LRECL=80,BLKSIZE=8000),
00000060 // SPACE=(CYL,(20,5),RLSE)
00000070 //NECS DD UNIT=TAPE16,VOL=(,RETAIN,SER=GCA389),
00000080 // LABEL=(2,BLP),DISP=OLD,
00000090 // DCB=(RECFM=FB,LRECL=80,BLKSIZE=1600)
00000100 FILE NECS
00000110 YR1 20 2 N YR2*6 16 2 N CD*TYP 80 1 N
00000120 COUNT W 5 AC
00000130 5999
00000140 * **** CARD 1 ****
00000150 IF CD*TYP EQ 1 AND YR1 NQ 79 THEN
00000160 YR1 = 79
00000170 CCUNT = CCUNT + 1
00000180 * **** CARD 2-6 ****
00000190 IF CD*TYP NQ 1 AND YR2*6 NQ 79 THEN
00000200 YR2*6 = 79
00000210 CCUNT = COUNT + 1
00000220 IF FILE EQ FILE
00000230 WRITE
00000240 FINALS COUNT
00000250 //CCPY EXEC PGM=IEBGENER,COND=(4,LT)
00000260 //SYSIN DD DUMMY
00000270 //SYSPRINT DD SYSCUT=A
00000280 //SYSUT1 DD DSN=88MAINE,DISP=(OLD,DELETE)
00000290 //SYSUT2 DD UNIT=TAPE16,VOL=SER=GCA389,
00000300 // LABEL=(3,BLP),DISP=(NEW,KEEP),
00000310 // DCB=(RECFM=FB,LRECL=80,BLKSIZE=1600)

```

APPENDIX D

METHOD FOR ESTIMATING EXHAUST GAS FLOW RATE FROM FOSSIL-FUEL FIRED BOILERS

The exhaust gas, or flue gas, flow rate from boilers can be estimated by calculating the theoretical flow rate. Calculation of the theoretical flow rate requires assumption of various fuel and boiler values. The procedure presented here requires that only the boiler size, in Btu/hr, or the maximum fuel firing rate, and the fuel type be known. However, if additional data are available, they can be used in place of assumed values as will be explained.

In general, the fuel firing rate is multiplied by the stoichiometric (theoretical) air requirement. This theoretical amount of air is then multiplied by an excess air factor that is determined based on the fuel type and the boiler type. The resulting air flow is adjusted to reflect stack temperature and this adjusted air flow is assumed representative of actual conditions.

STEP 1. DETERMINE TYPE AND FIRING RATE OF FUEL

If the type of fuel is not known, the calculations can not be accurately performed. The fuel firing rate may be known if the fuel type is known. If the fuel firing rate is not known, it can be calculated from the boiler size by dividing the boiler size by the heating value of the fuel type. If the heating value is not known, the values in Table D-1 can be used. If the type of fuel can not be reasonably guessed when not known, or when neither the boiler size nor the fuel rate are known, the calculation can not be performed.

STEP 2. DETERMINE STOICHIOMETRIC AIR FLOW

Multiply the fuel rate by the appropriate air rates from Table D-2 for the fuel type in question and obtain the theoretical air flow.

STEP 3. ADJUST AIR FLOW FOR EXCESS AIR

For the fuel and furnace type in question, obtain a typical excess air rate from Table D-3. Multiply the air flow from Step 2 by the excess air factor (i.e., 20 percent excess air = excess air factor of 1.2).

TABLE D-1. TYPICAL GRAVITY AND HEATING VALUE OF STANDARD GRADES OF FUEL OILS*

Grade no.	Gravity API	Weight, lb/gallon	Heating value BTU/gallon
1	38-45	6.675-6.95	132,000-137,000
2	30-38	6.960-7.296	137,000-141,000
4	20-28	7.396-7.787	143,100-148,000
5L	17-22	7.686-7.94	146,800-150,000
5H	14-18	7.89 -8.08	149,400-152,000
6	8-15	8.053-8.488	151,300-155,900

*Source: Lindeburg, Michael R., P.E. Mechanical Engineering Review Manual. Professional Engineering Registration Program, San Carlos, CA 94070. Fifth Edition, 1980.

TABLE D-2. APPROXIMATE STOICHIOMETRIC AIR REQUIREMENTS*

Solid fuels	Anthracite	9.6 lbs air/lb fuel
	Semi-bituminous	11.2
	Bituminous	10.3
	Lignite	6.2
	Coke	11.2
Fuel oils	No. 1	102.6 lbs air/gallon fuel
	No. 2	105.5
	No. 5	112.0
	No. 6	114.2
Gaseous fuels	Natural	10.0 ft ³ air/ft ³ fuel
	Mixed	8.0
	Manufactured	4.7
	Propane	23.8
	Butane	31.0

*Source: Lindeburg, Michael R., P.E. Mechanical Engineering Review Manual. Professional Engineering Registration Program, San Carlos, CA 94070. Fifth Edition, 1980.

TABLE D-3. USUAL AMOUNT OF EXCESS AIR SUPPLIED TO FUEL EQUIPMENT*

Fuel	Type of furnace or burners	Excess air, % by weight
Pulverized coal	Completely water-cooled furnace for slag-tap or dry-ash-removal	15-20
	Partially water-cooled furnace for dry-ash removal	15-20
Crushed coal	Cyclone furnace--pressure or suction	10-15
Coal	Stoker-fired, forced-draft, chain grate	15-50
	Stoker-fired, forced-draft, underfeed	20-50
	Stoker-fired, natural-draft	50-65
Fuel oil	Oil burners, register-type	5-10
	Multiple burners and flat-flame	10-20
Acid sludge	Cone and flat-type burners, steam	10-15
Natural, coke- oven and refinery gas	Register-type	5-10
	Multifuel burners	7-12
Blast furnace gas	Dutch-oven (10-23% through grates) and Hofft-type	20-25

*Source: Lindeburg, Michael R., P.E. Mechanical Engineering Review Manual. Professional Engineering Registration Program, San Carlos, CA 94070. Fifth Edition, 1980.

STEP 4. CONVERT AIR FLOW RATE TO UNITS OF FT³/HR (solid and liquid fuel only)

The calculations in Steps 2 and 3 yield an air flow rate at 70°F and 1 atm. pressure in units of lbs/hr. There are 13.35 ft³ of air/lb of air at 70°F and 1 atm. Therefore, multiply the air flow from Step 3 by 13.35.

STEP 5. ADJUST STANDARD AIR FLOW FOR STACK TEMPERATURE

For this step it is necessary to know the temperature of the gases in the boiler stack. If this is not known, a temperature between 300°F and 400°F can be reasonably assumed. Calculate the ratio:

$$\frac{\text{absolute stack temperature}}{\text{absolute standard temperature}} = \frac{460 + \text{stack temperature}}{460 + 70}$$

and multiply the air flow from Step 4 by the value of this ratio to obtain the estimated exhaust gas rate.

Standardized Formulae

The overall calculation described by the above steps can be represented by a formula for each of the fuel types as follows:

Coal:

$$\frac{\text{tons fuel}}{\text{hr}} \times \frac{2000}{\text{ton fuel}} \times \frac{\text{lbs air}}{\text{lb fuel}} \times (\text{excess air factor}) \times \frac{13.35 \text{ ft}^3}{\text{lb air}} \times \frac{460 + \text{stk. temp.}}{460 + 70} = \frac{\text{ft}^3 \text{ air}}{\text{hr}} \quad (\text{D-1})$$

Oil:

$$\frac{\text{gallons fuel}}{\text{hr}} \times \frac{\text{lbs air}}{\text{gallon fuel}} \times (\text{excess air factor}) \times \frac{13.35 \text{ ft}^3}{\text{lb air}} \times \frac{460 + \text{stk. temp.}}{460 + 70} = \frac{\text{ft}^3 \text{ air}}{\text{hr}} \quad (\text{D-2})$$

Gas:

$$\frac{\text{ft}^3 \text{ fuel}}{\text{hr}} \times \frac{\text{ft}^3 \text{ air}}{\text{ft}^3 \text{ fuel}} \times (\text{excess air factor}) \times \frac{460 + \text{stk. temp.}}{460 + 70} = \frac{\text{ft}^3 \text{ air}}{\text{hr}} \quad (\text{D-3})$$

The information available in NEDS did not allow a precise estimate of excess air. Therefore, after scrutiny of Table D-3, GCA was able to reasonably assume the following:

<u>Fuel type</u>	<u>Assumed excess air</u>	<u>Excess air factor</u>
Coal	40%	1.40
Oil	15%	1.15
Gas	10%	1.10

Then, by substituting the assumed excess air factors into the appropriate equations, converting hours to minutes, and combining constants, a set of standardized formulae were obtained. These formula could be used to calculate a "default" stack flow rate for those cases when the fuel type, boiler size or fuel rate, and stack temperature were known. If the stack temperature was not known, a value of 350°F was assumed.

The development of the standardized formula for anthracite coal-fired boilers is shown below. All the standardized formulae developed and used to calculate "default" air flows are presented in Table D-4.

Standardized formula for anthracite coal-fired boilers:

From Table D-2: 9.6 lbs air/lb fuel
excess air factor: 1.40

substituting into equation D-1:

$$\frac{\text{tons fuel}}{\text{hr}} \times \frac{2000 \text{ lbs}}{\text{ton}} \times \frac{9.6 \text{ lbs air}}{\text{lb fuel}} \times 1.4 \times \frac{13.35 \text{ ft}^3 \text{ air}}{\text{lb air}} \times \frac{460 + \text{stk. temp., } ^\circ\text{F}}{460 + 70^\circ\text{F}} \times \frac{1 \text{ hr}}{60 \text{ min}} = \frac{\text{ft}^3 \text{ air}}{\text{min}}$$

$$\frac{(2000)(9.6)(1.4)(13.35)}{(530)(60)} \times (460 + \text{stk temp. } ^\circ\text{F}) \times \frac{\text{tons fuel}}{\text{hr}} = \frac{\text{ft}^3 \text{ air}}{\text{min}}$$

$$(11.285) \times (460 + \text{stack temp., } ^\circ\text{F}) \times (\text{tons coal/hr}) = \frac{\text{ft}^3 \text{ air}}{\text{min}}$$

TABLE D-4. DEFAULT EXHAUST FLOW CALCULATIONS*

Coal (assumes 40% excess air)

Anthracite: $(11.285)(460 + \text{stack temp. } ^\circ\text{F})(\text{tons coal/hr})$
Semi-bituminous & coke: $(13.165)(460 + \text{stack temp. } ^\circ\text{F})(\text{tons coal/hr})$
Bituminous: $(12.107)(460 + \text{stack temp. } ^\circ\text{F})(\text{tons coal/hr})$
Lignite: $(7.288)(460 + \text{stack temp. } ^\circ\text{F})(\text{tons coal/hr})$

Fuel Oil (assumes 15% excess air)

#2 oil: $(5.093 \times 10^{-2})(460 + \text{stack temp. } ^\circ\text{F})(\text{gallons oil/hr})$
#4 oil: $(5.250 \times 10^{-2})(460 + \text{stack temp. } ^\circ\text{F})(\text{gallons oil/hr})$
#6 oil: $(5.513 \times 10^{-2})(460 + \text{stack temp. } ^\circ\text{F})(\text{gallons oil/hr})$
#5 oil: $(5.407 \times 10^{-2})(460 + \text{stack temp. } ^\circ\text{F})(\text{gallons oil/hr})$

Natural Gas (assumes 10% excess air)

$(3.459 \times 10^{-4})(460 + \text{stack temp. } ^\circ\text{F})(\text{ft}^3 \text{ gas/hr})$

*Source: GCA Calculations, 1981.

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1. REPORT NO. EPA-450/4-82-013d	2.	3. RECIPIENT'S ACCESSION NO.
4. TITLE AND SUBTITLE Northeast Corridor Regional Modeling Project Annual Emission Inventory Compilation and Formatting Volume IV: Maine Emission Inventory		5. REPORT DATE September 1982
		6. PERFORMING ORGANIZATION CODE
7. AUTHOR(S) Frederick M. Sellars, Michael J. Geraghty, Andrea M. Kiddie, Barbara J. Bosy, Stephen V. Capone, Lisa A. Baci		8. PERFORMING ORGANIZATION REPORT NO. GCA-TR-82-17-G(4)
9. PERFORMING ORGANIZATION NAME AND ADDRESS GCA/Technology Division 213 Burlington Road Bedford, Massachusetts 01730		10. PROGRAM ELEMENT NO.
		11. CONTRACT/GRANT NO. 68-02-3510, Work Assignment No. 5
12. SPONSORING AGENCY NAME AND ADDRESS U.S. Environmental Protection Agency, Air Management Technology Branch, Monitoring and Data Analysis Division, Office of Air Quality Planning and Standards, Research Triangle Park, North Carolina 27711		13. TYPE OF REPORT AND PERIOD COVERED Final
		14. SPONSORING AGENCY CODE
15. SUPPLEMENTARY NOTES EPA Project Officers: James H. Southerland and Thomas F. Lahre		
16. ABSTRACT This report discusses the development of the Northeast Corridor Regional Modeling Project (NECRMP) annual regional emission inventory. The inventory reflects 1979/1980 data and focuses on point, area and mobile source emissions of Volatile Organic Compounds (VOC) and Nitrogen Oxides (NO _x), although particulate, sulfur oxides and carbon monoxide emissions were also compiled for point sources. The study area includes the entire northeast quadrant of the United States from longitude 69° to 82° West, and latitude 38° to 45° North. This Volume discusses the emission inventory for Maine.		
17. KEY WORDS AND DOCUMENT ANALYSIS		
a. DESCRIPTORS	b. IDENTIFIERS/OPEN ENDED TERMS	c. COSATI Field/Group
Emission Inventory Inventory Source Inventory Point Sources Area Sources Ozone Nitrogen Oxides Volatile Organic Compounds		
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