



NORTHEAST CORRIDOR REGIONAL MODELING PROJECT ANNUAL EMISSION INVENTORY COMPILATION AND FORMATTING

**Volume X:
Ohio Emission Inventory**



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Volume X: Ohio Emission Inventory

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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 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 Corporation, GCA/Technology Division to complete an annual inventory of point and area source emissions 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 82 degrees West, and latitude 38 degrees to 45 degrees North*.

OBJECTIVES

The objective of the effort reported in this volume was to assemble the most current, comprehensive and accurate emission inventory possible for the 32 Ohio counties included in the NECRMP study area, shown in Figure 2. This was achieved through the cooperation of the Ohio Environmental Protection Agency (OEPA) and EPA/Region V. The intent of the program was to avoid direct contact between GCA and individual facilities in Ohio. Rather, GCA worked

*Although not within the bounds of the NECRMP modeling domain, the Ohio Counties of Franklin, Licking, Perry, and Fairfield are included in the annual emission inventory. Thus, the NECRMP regional modeling grid system actually extends beyond 82° longitude. In figure 2, 84° is shown for scale.

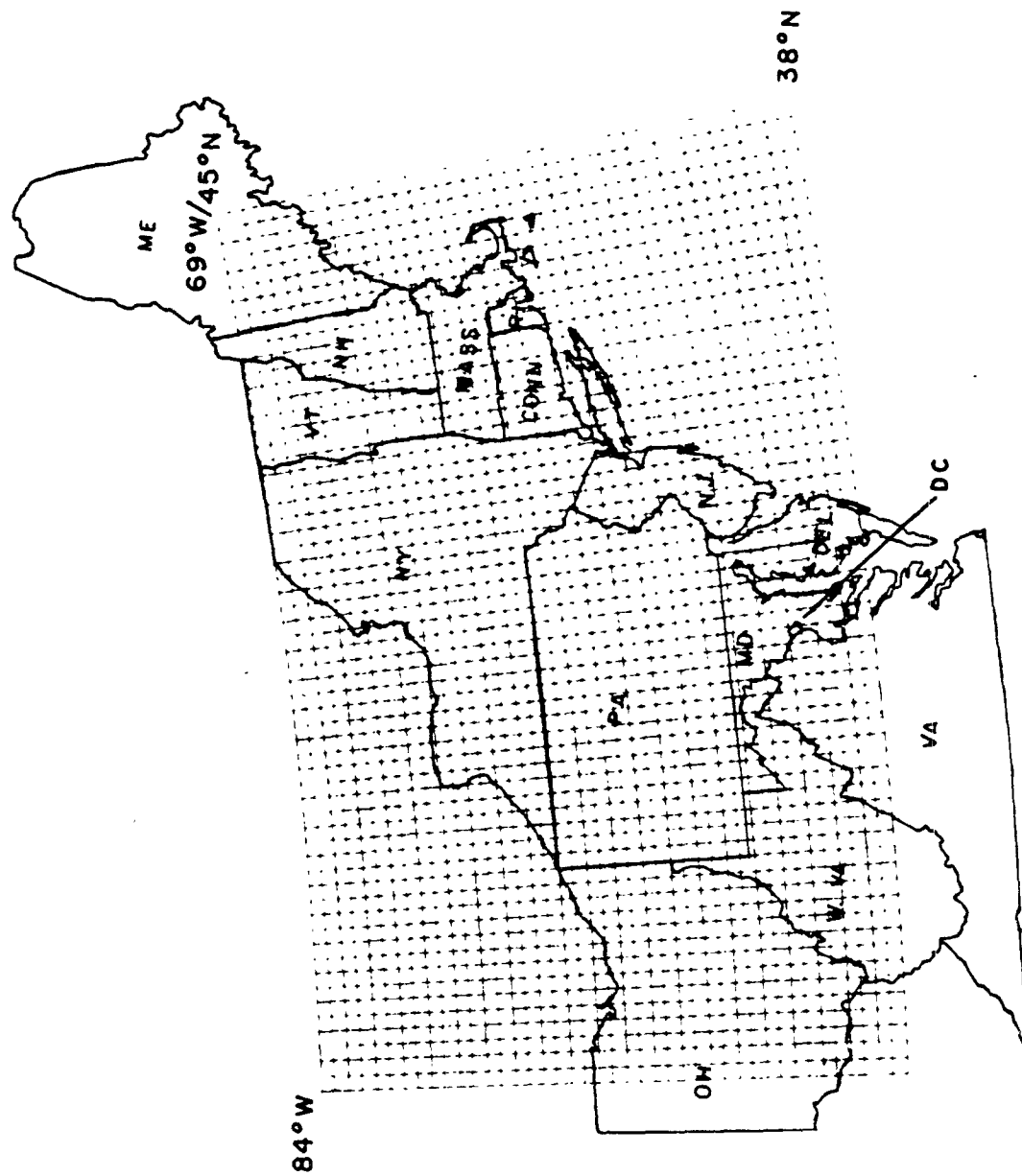


Figure 1. Boundaries of regional model grid system.

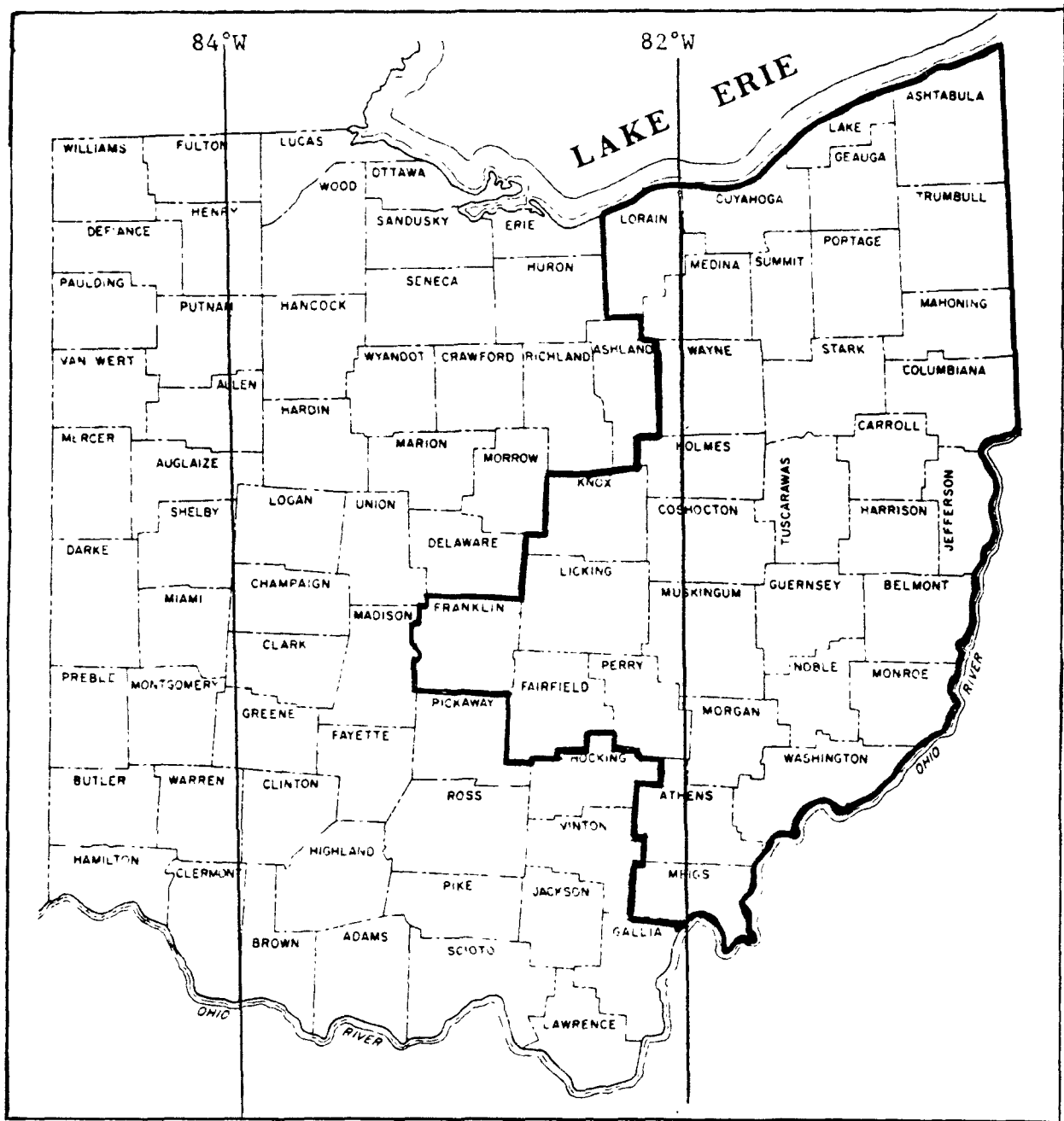


Figure 2. The 32 counties in the NECRMP study area of Ohio.

directly with the OEPA who in turn contacted sources when necessary. GCA reviewed the state supplied data and submitted a list of potential errors back to the OEPA, 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 were compiled for point sources. Because of this emphasis, quality assurance checks focused primarily on sources of VOC and NO_x.

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/AS format.²

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 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 Ohio, consists of five sections. Section 2 describes the project history and includes a summary of the major events that relate to the Ohio 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 this volume are identified in Section 5. Appendices A and B present county emissions for point and area sources, respectively.

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, DC 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 Officers provided an agency contact in the Ohio Environmental Protection Agency (OEPA). The OEPA 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 Agency also provided information, as needed, to assist in a detailed review of the point source data for errors, inconsistencies, and missing data elements. The OEPA contact was Mr. William Juris, (614) 466-7390.

Since Ohio did not maintain a current area source inventory of the detail required for NECRMP, it was necessary to develop this inventory. The Agency Contact played a key role in the process by directly supplying some input data necessary for the area source calculations, and identifying other state agencies that could provide the remaining information. The Northeast Ohio Areawide Coordinating Council (NOACA) was simultaneously conducting an area source emission inventory update for the Cleveland area (Cuyahoga, Lake Lorain, and Medina Counties) for the 1982 ozone State Implementation Plan (SIP). The results of this inventory³ were incorporated into the Ohio NECRMP area source data base.

SUMMARY OF EVENTS

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

Point Sources

Work on the Ohio point source inventory occurred between June 1981, and February 1982. The finalized data were submitted to EPA on computer tape on March 17, 1982. Major milestones are identified below.

- Meeting held in Columbus, Ohio to procure Ohio EIS facility lists and determine optimal approach to updating inventory 06/19/81

- List of potentially omitted facilities forwarded to Project Officers, OEPA contact 07/17/81
- Revised Ohio EIS printouts sent to GCA from OEPA 07/20/81
- Revised list of potentially omitted sources forwarded to Project Officers, OEPA contact 07/30/81
- List of missing data items sent to Project Officers, OEPA contact 08/13/81
- List of potential errors forwarded to Project Officers, OEPA contact 08/21/81
- Data on multiple discharge sources forwarded to GCA from OEPA 09/30/81
- Resolutions to potential data deficiencies forwarded to GCA from OEPA 11/05/81
- OEPA converted corrected Ohio EIS data into NEDS format and forwarded data tape to GCA 12/24/81
- GCA received NEDS formatted data (1980) 12/28/81
- Essential missing data (primarily on multiple discharge sources, see Section 3) inserted into NEDS file 01/04/82
- NEDS formatted data converted into EIS/PS format 01/25/82
- Finalized EIS/PS Master File forwarded to EPA on computer tape 03/17/82

Area Sources

The area source emissions data for 28 of the counties in the NECRMP area were calculated by GCA. The VOC and NO_x emissions for the remaining four counties were computed by NOACA.³ These data were reviewed by GCA and put into a format compatible with that of the other counties. The major events in completing the area source inventory were as follows:

- NOACA inventory of Cleveland area received from Ohio EPA 11/27/82
- 28 county inventory completed by GCA 12/18/82
- NOACA data converted to compatible format 1/15/82
- EIS/AS Master File completed 1/22/82
- Completed EIS/AS inventory forwarded to EPA 2/8/82

SECTION 3

POINT SOURCE INVENTORY

BACKGROUND

Ohio EPA maintains its point source emission inventory in the computerized Ohio Emission Inventory System (OEIS). It is routinely updated by the Ohio EPA Field Offices by coding Point Source Engineering Data Sheets (PSEDS) and key-to-disk entry into their computer system. PSEDS coding procedures are detailed in the OEIS: Point Source Guidebook.⁴ Computer software checks all PSEDS transactions before they become part of the OEIS. To provide input for the National Emissions Data System (NEDS), Ohio annually runs a program to convert the OEIS, supplemented by information in their Air Permit System (APS) data base, to NEDS transaction format.⁵ Since this format is compatible with requirements for NECRMP, GCA reviewed Ohio's EIS with a twofold intent.

- to assist Ohio EPA in updating their point source emission inventory, and
- to ensure the best quality data available for input to NECRMP.

OEIS DATA REVIEW

OEIS data was audited to identify data gaps and potential data problems, focusing on significant sources of VOC and NO_x. The criteria used to define significant emission facilities for the purposes of this review are listed in Table 2. Ohio supplied GCA with computer printouts:

- summarizing emissions of each of the five criteria pollutants for all facilities, and
- listing all OEIS source information for significant emission facilities.

These data printouts were reviewed for completeness and accuracy.

The OEIS facility list was compared to facility lists from two additional sources: the SURE⁶ data base and the RACT directory⁷ to identify emission sources that may have been missing from the Ohio EIS data base. The SURE data base (compiled by GCA for the Sulfate Regional Experiment for the Electric Power Research Institute) represents a quality assured NEDS data base for 1978 comprising the eastern United States.⁶ The RACT Directory⁷ was compiled

TABLE 2. CRITERIA FOR DEFINING A SIGNIFICANT FACILITY
FOR THE POINT SOURCE DATA REVIEW

Pollutant	Source size (ton/yr)
Primary Interest:	
VOC	100
NO _x	100
RACT (VOC or NO _x)	25
Secondary Interest:	
SO _x	100
Particulate	100
CO	500
VOC	25
NO _x	25

for the U.S. EPA independently of NEDS, and lists all VOC sources subject to Reasonably Available Control Technology (RACT) regulations.⁴ Lists of 118 potentially missing facilities were forwarded to Ohio EPA for review. Upon review by Ohio Field Offices, it was found that 24 of the facilities were shut down prior to 1980, 53 did not meet the criteria of emitting 100 tons/year of VOC annually, 32 were in OEIS, either under a different name or not meeting the criteria of the lists supplied to GCA, and the remaining 9 facilities were tagged for further investigation which would not be accomplished in time for use in NECRMP. A list of all facilities considered to be potentially missing from the OEIS, the source of their identification, and the Ohio EPA's resolution of these potential omissions appears in Table 3.

The detailed data listings were reviewed source-by-source to identify data gaps and inconsistencies. The following parameters, which are important for modeling, were emphasized in the evaluation:

- production rate,
- UTM coordinates,
- stack parameters,
- emissions control information, and
- emissions data.

GCA compiled lists of data discrepancies for review by the Ohio EPA. A total of 437 individual point sources from 127 different significant facilities were identified as having potential data problems. Of these, 160 involved multiple discharge points for which no data were available for review at that time. These facilities are discussed in more detail later in this section. Of the remaining 277:

- 137 source records were corrected in the EIS
- 96 source records have missing card file data due to confidentiality
- 24 source records with missing stack data were not corrected, since each emits less than 25 tons per year (Ohio EPA policy); conversion to NEDS results in default values
- 10 source records were not changed at this time due to insufficient data
- 8 additional multiple discharge source records were added
- 7 source records were deleted, since they were shut down prior to 1980.

Note: total equals 282 since 5 source records are included in two of the above-mentioned categories.

TABLE 3. FACILITIES IDENTIFIED AS POTENTIALLY MISSING FROM
OHIO'S EMISSION INVENTORY SYSTEM

Facility name	Identification source (plant ID for SURE)	Conclusion
<u>Fairfield County</u> (NEDS 2080, AQCR 176)		
Diamond Power Specialty Co.	SURE (5003)	<100 ton/yr VOC
Fairfield School for Boys (Southeastern Ohio Training Center)	SURE (5010)	In EIS (other name)
Loroco Industries, Inc.	SURE (5011)	<100 ton/yr VOC
<u>Franklin County</u> (NEDS 2220, AQCR 176)		
Federal Glass Co. 55 Woodrow Avenue	SURE (0023)	Shut down
Columbus Municipal Light Plant	SURE (5010)	<100 ton/yr VOC
Westinghouse Electric Corp. (Columbus Products)	SURE (5021)	In EIS (other name)
Union Depot Co. of Columbus Ohio	SURE (5031)	Shut down
East High School	SURE (5037)	<100 ton/yr VOC
Westerville Asp Plant MCQ Ind. Inc.	SURE (5038)	<100 ton/yr VOC
Yenkin-Majestic Paint Corp. E 5th and Leonard Avenues Columbus 43219	RACT	In EIS
Frank Enterprises 700 Rose Avenue Columbus 43219	RACT	<100 ton/yr VOC
Franklin Chemical Co. 202 Bruck Street Columbus 43207	RACT	<100 ton/yr VOC
Georgia-Pacific Corp. 1975 Walkins Road Columbus 43207	RACT	In EIS

(continued)

TABLE 3 (continued)

Facility name	Identification source (plant ID for SURE)	Conclusion
Hanna Chemical Coatings Corp. 1313 Windsor Avenue Columbus 43211	RACT	In EIS
Ironsides Co. 270 W. Mound Street Columbus 43216	RACT	<100 ton/yr VOC
Callander & Sons, Inc. 2850 E Main Columbus 43209	RACT	<100 ton/yr VOC
Caskey Cleaning Co. 47 W Gates Columbus 43206	RACT	<100 ton/yr VOC
Columbus Lace Cleaning Co. 49 Greenlawn Columbus 43206	RACT	<100 ton/yr VOC
Swan Super Cleaners, Inc. 247 S. High Columbus 43215	RACT	<100 ton/yr VOC
White-Consolidated Corp. Columbus Products 300 Phillips Road Columbus 43228	RACT	In EIS
Perma-Trans Products 2255 W. Belt Drive Columbus 43228	RACT	Not in Air Permit Program
<u>Licking County</u> (NEDS 3440, AQCR 176)		
Roper Corp. Newark Division	SURE (5005)	Shut down
Owens-Corning Fiberglass Corp. Case Avenue Newark 43055	RACT	In EIS

(continued)

TABLE 3 (continued)

Facility name	Identification source (plant ID for SURE)	Conclusion
Pacific Resins & Chemicals Inc. P.O. Box 710 Newark 43055	RACT	<100 ton/yr VOC
<u>Ashtabula County</u> (NEDS 0220, AQCR 178)		
Reliance Electric/Ashtabula Plant	SURE (5005)	In EIS
New Jersey Zinc Co. (Gulf and Western)	SURE (5007)	In EIS (other name)
RMI Company Sodium Plant	SURE (5009)	Shut down
Ashland Oil, Inc. 4501 Benefit Avenue Ashtabula 44004	RACT	<100 ton/yr VOC
Diamond Shamrock Corp. P.O. Box 488 Ashtabula 44004	RACT	<100 ton/yr VOC
Olin Corp. P.O. Box 206 Ashtabula 44004	RACT	<100 ton/yr VOC
<u>Geauga County</u> (NEDS 2380, AQCR 174)		
Ball Rubber Division of Ball Corp. (Chardon Rubber Co.)	SURE (5002)	In EIS (other name)
<u>Lake County</u> (NEDS 3280, AQCR 174)		
Northeastern Road Improvement Co.	SURE (5009)	<100 ton/yr VOC
Universal PVC Resins, Inc.	SURE (5018)	Shut down
Diamond-Shamrock Corp. Painesville 44077	RACT	Shut down

(continued)

TABLE 3 (continued)

Facility name	Identification source (plant ID for SURE)	Conclusion
<u>Mahoning County</u> (NEDS 3820, AQCR 178)		
Campbell Works Youngstown Sheet and Tie	SURE (5013)	In EIS
Ohio Edison Co. - N Avenue Plant (Youngstown Thermal)	SURE (5014)	In EIS (other name)
City Asphalt & Paving Co.	SURE (5003)	In EIS
City Asphalt & Paving No. 11	SURE (5004)	In EIS
MPI Labels 450 Courtner Road Sebring 44672	RACT	<100 ton/yr VOC
<u>Trumbull County</u> (NEDS 6700, AQCR 178)		
City Asphalt & Paving No. 1	SURE (5006)	Shut down
Mahoning Asphalt No. 7	SURE (5004)	Shut down
Superior-Star Cleaners Co. 425 W. Market Warren 44481	RACT	<100 ton/yr VOC
National Can Corp. Warren Metal Plant Griswold Street Warren 44481	RACT	<100 ton/yr VOC
<u>Guernsey County</u> (NEDS 2680, AQCR 183)		
Westland Company	SURE (5005)	Shut down
<u>Tuscarawas County</u> (NEDS 6720, AQCR 183)		
U.S. Concrete Pipe Co. Plant No. 1	SURE (5008)	Shut down
Dover Chemical Corp. 15th and Davis Street Dover 44622	RACT	<100 ton/yr VOC

(continued)

TABLE 3 (continued)

Facility name	Identification source (plant ID for SURE)	Conclusion
Baltic Rubber and Plastic, Inc. 1 Factory Street Baltic 43804	RACT	<100 ton/yr VOC
<u>Washington County</u> (NEDS 7100, AQCR 179)		
American Cyanamid Co. P.O. Box 388 Marietta 45750	RACT	<100 ton/yr VOC
Gulf Oil Corp. Marietta 45750	RACT	In EIS
<u>Cuyahoga County</u> (NEDS 1600, AQCR 174)		
Minnesota Mining and Manufacturing Co.	SURE (5004)	Shut down
Division of Light and Power	SURE (5006)	Shut down
N.L. Industries, Inc. (Master Metals)	SURE (5014)	In EIS (other name)
White Truck Division	SURE (5083)	<100 ton/yr VOC
Chemetron Corp., Chemical Products	SURE	Shut down
Atlantic Richfield Co.	SURE	Shut down
Independent Tower Supply Co.	SURE	Shut down
Cleveland Steel Container	SURE	Shut down
Alumafine, Inc.	SURE (5193)	Shut down
Sherwin Williams Co.	SURE (5248)	In EIS
Aluminum Smelting and Refining Co., Inc.	SURE (5249)	<100 ton/yr VOC
Donn Products, Inc.	SURE (5141)	In EIS

(continued)

TABLE 3 (continued)

Facility name	Identification source (plant ID for SURE)	Conclusion
American Greetings Corp.	SURE (5145)	< 100 ton/yr VOC
Continental Can Co.	SURE (5088)	Shut down
Cities Service Oil Co. Cleveland, AR 44141 (Marathon Oil Co.)	SURE (5093)	In EIS (other name)
U.S. Steel Corp. Lorain City Works	SURE (5051)	Shut down
Division Pumping Station	SURE (5071)	Shut down
East Boulevard Cleaners 4086 E. 131st Street Cleveland 44105	RACT	< 100 ton/yr VOC, obtaining data
Reehorst Cleaners, Inc. 19441 Detroit Cleveland 44116	RACT	< 100 ton/yr VOC, obtaining data
Reehorst Cleaners, Inc. 23459 Lorain North Olmsted 44070	RACT	< 100 ton/yr VOC
Avery Label Co. 15939 Industrial Parkway Cleveland 44135	RACT	< 100 ton/yr VOC
Addressograph Multigraph Corp. 7209 St. Clair Avenue Cleveland 44103	RACT	Not in Air Permit Program
Hauserman, E.F., Co. 6511 Grant Avenue Cleveland 44105	RACT	In EIS
Interior Steel Equipment 2352 E. 69th Street Cleveland 44104	RACT	< 100 ton/yr VOC

(continued)

TABLE 3 (continued)

Facility name	Identification source (plant ID for SURE)	Conclusion
Mills Co. 11400 Beny Street Cleveland 44110	RACT	Not in Air Permit Program
Dart Industries, Inc. 1636 Wayside Way Cleveland 44112 (Synthetic Corporation)	RACT	In EIS (other name)
Dexter Corp. 9001 Kinsman Road Cleveland 44101	RACT	<100 ton/yr VOC
Mameco International 17512 E. Street Cleveland 44128	RACT	<100 ton/yr VOC
McGean Chemical Co., Inc. 2910 Harvard Avenue Cleveland 44109	RACT	<100 ton/yr VOC
Mobil Oil Corp. 12815 Elmwood Avenue Cleveland 44111	RACT	<100 ton/yr VOC
American Metals 1000 E. Parker Road Westlake 44145 (Donn Corporation)	RACT	In EIS (other name)
Crown Cork & Seal Co., Inc. 2160 W. 106th Street Cleveland 44102	RACT	Shut down
Sherwin-Williams Co. 601 Canal Road Cleveland 44113	RACT	<100 ton/yr VOC
United Foam Corp. 1900 W. Third Street Cleveland 44113	RACT	Not in Air Permit Program

(continued)

TABLE 3 (continued)

Facility name	Identification source (plant ID for SURE)	Conclusion
<u>Stark County</u> (NEDS 6400, AQCR 174)		
St. Regis Paper Company	SURE (5039)	<100 ton/yr VOC
Timken Mercy Hospital	SURE (5050)	<100 ton/yr VOC
Ashland Pipe Line East Sparta Station	SURE (5064)	<100 ton/yr VOC
Aspro Inc. Spun Steel Division (Dyneer Corp.)	SURE (5077)	In EIS (other name)
MRM Division of Ecodyne Corp.	SURE (5082)	<100 ton/yr VOC
Burrow Mining Company	SURE (5091)	<100 ton/yr VOC
Norfolk and Western Railway Co.	SURE (5021)	<100 ton/yr VOC
Alco Standard Corp. (U.S. Chemical and Plastics)	RACT	<100 ton/yr VOC (other name)
Minerva Wax Paper Co. 310 Grant Boulevard Minerva 44657 (James River Corp.)	RACT	Not in Air Permit Program (other name in Carroll County)
Greensteel, Inc. 14536 Oyster Road Alliance 44601	RACT	Not in Air Permit Program
<u>Portage County</u> (NEDS 5580, AQCR 174)		
Paeco Rubber Co. 225 West Lake Street Ravenna 44266	RACT	<100 ton/yr VOC
<u>Summit County</u> (NEDS 6500, AQCR 174)		
Shaw, Edwin Hospital	SURE (5001)	<100 ton/yr VOC

(continued)

TABLE 3 (continued)

Facility name	Identification source (plant ID for SURE)	Conclusion
Hawthornden State Hospital (Western Reserve Psychiatric Habilitation Center)	SURE (5010)	In EIS (other name)
Tallmadge Asphalt and Grading Co.	SURE (5134)	In EIS
Goodyear Co. Chemigum Plant II	SURE (5146)	In EIS
Beacon Journal Publishing Co.	SURE (5147)	In EIS
Three M Co. Minnesota Mining and Manufacturing	SURE (5104)	In EIS
Akwell Industries, Inc. (Kittinger Trucking)	SURE (5053)	In EIS (other name)
PPG Industries - Columbia Cement	SURE (5057)	Shut down
Dayton Tire & Rubber Co. Subsidiary of Firestone 345 15th Street Barberton 44203	RACT	Shut down
Standard Oil Co. Mogadore Terminal Mogadore 44260	RACT	In EIS
Polysar Group Copley 44321	RACT	< 100 ton/yr VOC
<u>Columbiana County</u> (NEDS 1440, AQCR 181)		
Hall China Company	SURE (5002)	< 100 ton/yr VOC
NRM Corporation Foundry Division 6	SURE (5007)	Shut down
Salem Label Co., Inc. 838 S. Lundy Avenue Salem 44460	RACT	Not in Air Permit Program

(continued)

TABLE 3 (continued)

Facility name	Identification source (plant ID for SURE)	Conclusion
<u>Jefferson County</u> (NEDS 3160, AQCR 181)		
Ohio Power Company - Cardinal Plant	SURE (5002)	In EIS
Federal Paper Board Co., Inc.	SURE (5004)	Shut down
Barium & Chemicals, Inc. P.O. Box 218 Steubenville 43952	RACT	>100 ton/yr VOC
<u>Lorain County</u> (NEDS 3640, AQCR 174)		
Dart Industries, Inc. 555 Garden Street Elyria 44035	RACT	> 100 ton/yr VOC
Goodrich, B.F., Co., Inc. P.O. Box 134 Avon Lake 44012	RACT	In EIS
Knight, Jac, Drycleaner, Inc. 620 Lake Plant Elyria 44035	RACT	>100 ton/yr VOC
Whittaker Corp. Spruce Street Extension Wooster 44692	RACT	>100 ton/yr VOC
Brown Cleaners, Inc. 81 E. Ohio Avenue Rittman 44270	RACT	>100 ton/yr VOC
Brown Cleaners, Inc. 303 S. Main Orrville 44667	RACT	>100 ton/yr VOC
Diebold, Inc. Old Mansfield Road Wooster 44691	RACT	>100 ton/yr VOC

In addition, Ohio EPA Field Offices updated all sources to reflect the most recent information. In some cases, it was decided that if 1980 data were not available in sufficient time for use in NECRMP, the 1979 data would have to be substituted. The data problems found and their solutions appear in Table 4.

DATA CONVERSION

Upon review of Ohio's OEIS TO NEDS Conversion Chart,⁵ it was found that not all of the data in OEIS would be accessed upon conversion to NEDS. Most of the problem centered around sources containing multiple discharge points and involved the stack parameters essential for modeling.

The PSEDS coding forms, seen in Figure 3, require input of a discharge code on card 2. Table 5 summarizes the use of these codes. As seen in Table 5, if an "N" or "S" is entered, the rest of card 2 must be completed. If, instead, an "M" is entered, multiple cards 7 and 8 are completed in lieu of the rest of card 2. However, the stack information on cards 7 and 8 is not accessed upon data conversion to NEDS format. The default information used instead is:

- stack height of 0 ft,
- stack diameter of 0 ft,
- stack gas temperature of 77°F,
- stack gas exit velocity of 0 ft/min,
- plume height of 49 ft,
- UTM coordinates remain blank.

Initially, all multiple discharge points were assigned UTM coordinates of another point within the same facility. Also, upon request, Ohio EPA supplied GCA with complete data printouts for all multiple discharge points in the 32-county study area. It was found that for many of the significant point sources, actual emission parameters varied significantly from the default values, and warranted further action. The approach taken was to code the additional information for only the largest sources in NEDS transaction format, which could be used to update the NEDS file for NECRMP. The criteria used to determine if a point would be coded is listed in Table 6. Where several discharge points had different stack parameters but met the criteria of AEROS Volume II⁶ for combining into a single point, the following method (suggested in Volume II) was used to determine the most appropriate parameters to code. A "K" value was calculated for each point as:

$$K = HVT/Q$$

where H = individual stack height
V = individual gas flow rate
T = individual stack temperature
Q = individual emission rate for VOC if present, NO_x otherwise.

TABLE 4. POINT SOURCES IDENTIFIED AS HAVING POTENTIALLY MISSING OR QUESTIONABLE DATA

Ohio premise code	Source ID	Problem identified	Current status
0125040002	P001	Blank SCC Information	Correct ^a
	P002	Blank SCC Information	Correct
	P003	Blank SCC Information	Correct
025040914	K001	Blank discharge code, SCC Information	Correct
	K003	Blank discharge code, SCC Information	Correct
	K004	Blank discharge code, SCC Information	Correct
0125100039	B001	Blank flow rate	Correct
	B002	Blank flow rate	Correct
0125180906	K001	Blank discharge code, stack parameters, SCC Information	Correct
	K003	Blank SCC Information	Correct
	K004	Blank discharge code, stack parameters, SCC Information	Correct
0204010003	P002	Blank SCC comment	Correct
	P018	Discharge Code N, all para- meters included	Correct
	P012	Discharge Code N, all para- meters included	Correct
0204010070	R003	Blank operating schedule, 0 thruput	Correct
0243000024	P001	Blank flow rate, annual thruput	Correct
	P002	Diameter low	Correct
	P012	Blank SIC, annual thruput	Correct
	P018	Blank flow rate, diameter and thruput	Correct
	P025	Blank thruput	Correct
0243000165	B002	Blank temperature	Shut down
0243160163	P003	Blank flow rate	Correct
	P004	Questionable temperature	Correct

(continued)

TABLE 4 (continued)

Ohio premise code	Source ID	Problem identified	Current status
0250000470	P001	Blank SIC, IPP	Correct
	P002	Blank SIC, IPP	Correct
	P003	Blank SIC, IPP	Correct
0250000511	T001	Blank discharge code, stack parameters	Correct
	T002	Blank discharge code, stack parameters	Correct
	T003	Blank discharge code, stack parameters	Correct
	T004	Blank discharge code, stack parameters	Correct
	T005	Blank discharge code, stack parameters	Correct
	T006	Blank discharge code, stack parameters	Correct
0250090241	R001	Blank discharge code, stack parameters	Shut down
	R002	Blank discharge code, stack parameters	Shut down
	R003	Blank discharge code, stack parameters	Shut down
	R004	Blank discharge code, stack parameters	Shut down
	R005	Blank discharge code, stack parameters	Shut down
	R007	Blank discharge code, stack parameters	Shut down
0250110119	P011	Blank flow rate	No action, will be corrected in 1982
	P020	Blank flow rate	No action, will be corrected in 1982
	P023	Blank flow rate	No action, will be corrected in 1982
0250110464	P009	Blank discharge code, UTM's	Correct
	P010	Blank discharge code, UTM's	Correct

(continued)

TABLE 4 (continued)

Ohio premise code	Source ID	Problem identified	Current status
027 000200	P016	Blank operating schedule	Correct
	P020	Blank operating schedule	Correct
027 030072	P001	Discharge Code M, all stack parameters included	Correct
0278060163	P001	Low diameter	Correct
0278080015	P001	Discharge Code N, all stack parameters included	Correct
0278080337	B005	Blank operating schedule	Shut down
0278080354	N001	Blank SIC	Correct
	N002	Blank SIC	Correct
0285010188	B001	Blank SIC	Correct
	B002	Blank SIC	Correct
	B003	Blank SIC	Correct
	B004	Blank SIC	Correct
0616010029	P003	Blank SCC Information	No action, confidential
	P014	Blank SCC Information	No action, confidential
	P015	Blank SCC Information	No action, confidential
	P016	Blank SCC Information	No action, confidential
	P017	Blank SCC Information	No action, confidential
	P095	Blank SCC Information	No action, confidential
	P101	Blank SCC Information	No action, confidential
	P139	Blank SCC Information	No action, confidential
	P140	Blank SCC Information	No action, confidential
	R002	Blank SCC Information	No action, confidential
0660000010	P003	Discharge Code M, all stack parameter included	Correct
06 4020092	K001	Discharge Code M, blank Thruput	Correct
	K002	Discharge Code M, blank Thruput	Correct
1318000151	P001	Blank SCC Information	No action, confidential
	P005	Blank SCC Information	No action, confidential

(continued)

TABLE 4 (continued)

Ohio premise code	Source ID	Problem identified	Current status
	P006	Blank SCC Information	No action, confidential
	P007	Blank SCC Information	No action, confidential
	P010	Blank SCC Information	No action, confidential
1318000852	X001	Blank Thruput	Correct
	X002	Blank Thruput	Correct
1318001169	B001	Conflicting fuel information	Correct, Permit Description Changed
1318001613	B003	Blank Thruput	No action, confidential
	B004	Blank Thruput	No action, confidential
	B005	Blank Thruput	No action, confidential
1318581043	P004	Discharge Code N, Blank Discharge Height	Correct
1576000034	B001	Blank SIC	Shut down
1576000073	B001	Particulate Emission 0	Correct
1576000261	B004	Blank flow rate	Correct
1576000301	P002	Blank discharge code	Correct
	T023	Blank discharge parameters	Correct
	T024	Blank discharge parameters	Correct
	T025	Blank discharge parameters	Correct
	T026	Blank discharge parameters	Correct
	T027	Blank discharge parameters	Correct
	T028	Blank discharge parameters	Correct
	T029	Blank discharge parameters	Correct
	T030	Blank discharge parameters	Correct
	T031	Blank discharge parameters	Correct
	T032	Blank discharge parameters	Correct
	T033	Blank discharge parameters	Correct
	T034	Blank discharge parameters	Correct
	T035	Blank discharge parameters	Correct
	T036	Blank discharge parameters	Correct
	T037	Blank discharge parameters	Correct

(continued)

TABLE 4 (continued)

Ohio premise code	Source ID	Problem identified	Current status
	T038	Blank discharge parameters	Correct
	T039	Blank discharge parameters	Correct
	T040	Blank discharge parameters	Correct
	T041	Blank discharge parameters	Correct
	T042	Blank discharge parameters	Correct
	T043	Blank discharge parameters	Correct
	T044	Blank discharge parameters	Correct
	T045	Blank discharge parameters	Correct
	T046	Blank discharge parameters	Correct
1576000301	P002	Blank discharge code	Correct
57600037	P007	Blank flow rate	Correct
	005	Blank SIC	Correct
	B006	Blank SIC	Correct
1576000519	B001	Blank SIC	Correct
	B002	Blank SIC	Correct
1576000806	N001	Blank SIC	Correct
	N002	Blank SIC	Correct
1576050614	P014	Blank flow rate	Correct
	P015	Blank flow rate	Correct
	P01		Correct
	P017	Blank flow rate	Correct
	P018	Blank flow rate	Correct
	P019	Blank flow rate	Correct
	P020	Blank flow rate	Correct
	P035	Discharge Code N, blank discharge height	No action, small source ^b
	P036	Discharge Code N, blank discharge height	No action, small source
1576050694	P004	Discharge Code N, blank discharge height	No action, small source
	P017	Discharge Code N, blank discharge height	No action, small source

(continued)

TABLE 4 (continued)

Ohio premise code	Source ID	Problem identified	Current status
	P018	Discharge Code N, blank discharge height	No action, small source
	P019	Discharge Code N, blank discharge height	No action, small source
	P020	Discharge Code N, blank discharge height	No action, small source
	P021	Discharge Code N, blank discharge height	No action, small source
	P041	Discharge Code N, blank discharge height	No action, small source
	P042	Discharge Code N, blank discharge height	No action, small source
	P043	Discharge Code N, blank discharge height	No action, small source
	P044	Discharge Code N, blank discharge height	No action, small source
	P045	Discharge Code N, blank discharge height	No action, small source
	P046	Discharge Code N, blank discharge height	No action, small source
	P047	Discharge Code N, blank discharge height	No action, small source
	P048	Discharge Code N, blank discharge height	No action, small source
1576080470	P017	Blank stack diameter	No action, small source
	P050	Discharge Code N, blank discharge height, thruput	No action, small source
	P051	Discharge Code N, blank discharge height	No action, small source
	R012	Blank flow rate	No action, small source
	R018	Blank flow rate	No action, small source
	R020	Blank flow rate	No action, small source
	R021	Blank flow rate	No action, small source
1576081096	P002	Missing SIC	Correct
1576130697	B002	Blank flow rate	Correct

(continued)

TABLE 4 (continued)

Ohio premise code	Source ID	Problem identified	Current status
1652000008	R004	Blank flow rate	No action, small source
1652100009	P001	Blank flow rate	No action, small source
1677000053	B007	Blank flow rate	No action, small source
	B008	Blank flow rate	No action, small source
	B009	Blank flow rate	No action, small source
	B010	Blank flow rate	No action, small source
	B011	Blank flow rate	No action, small source
	P003	Blank flow rate	No action, small source
1677010022	B001	Blank SCC Information	No action, confidential
1677010029	P003	Blank SCC Information	No action, confidential
	P004	Blank SCC Information	No action, confidential
	P006	Blank SCC Information	No action, confidential
	P007	Blank SCC Information	No action, confidential
	P012	Blank SCC Information	No action, confidential
	P013	Blank SCC Information	No action, confidential
1677010051	P009	Blank SCC Information	No action, confidential
	P026	Blank SCC Information	No action, confidential
	P030	Blank SCC Information	No action, confidential
	P035	Blank SCC Information	No action, confidential
	P043	Blank SCC Information	No action, confidential
	P044	Blank SCC Information	No action, confidential
	P045	Blank SCC Information	No action, confidential
	P067	Blank flow rate, SCC Information	No action, small source
	P070	Blank SCC Information	No action, confidential
	P077	Blank SCC Information	No action, confidential
	P084	Blank SCC Information	No action, confidential
	P089	Blank SCC Information	No action, confidential
	P090	Blank SCC Information	No action, confidential
	P091	Blank SCC Information	No action, confidential
	P092	Blank SCC Information	No action, confidential
	P093	Blank SCC Information	No action, confidential
	P094	Blank SCC Information	No action, confidential
	P095	Blank SCC Information	No action, confidential
	P096	Blank SCC Information	No action, confidential
	R008	Blank SCC Information	No action, confidential

(continued)

TABLE 4 (continued)

Ohio premise code	Source ID	Problem identified	Current status
1677010192	P064	Blank SCC Information	No action, confidential
	P072	Blank SCC Information	No action, confidential
	P084	Blank SCC Information	No action, confidential
	P089	Blank SCC Information	No action, confidential
1677010157	P001	Blank SCC Information	No action, confidential
	P002	Blank SCC Information	No action, confidential
	P003	Blank SCC Information	No action, confidential
	R002	Blank SCC Information	No action, confidential
1677010192	P015	Blank SCC Information	No action, confidential
	P019	Blank SCC Information	No action, confidential
	P020	Blank SCC Information	No action, confidential
	P026	Blank SCC Information	No action, confidential
	P027	Blank SCC Information	No action, confidential
	P031	Blank SCC Information	No action, confidential
	P033	Blank SCC Information	No action, confidential
	R001	Blank SCC Information	No action, confidential
1677010193	P005	Blank SCC Information	No action, confidential
	P006	Blank SCC Information	No action, confidential
	P007	Blank SCC Information	No action, confidential
	P008	Blank SCC Information	No action, confidential
	P011	Blank SCC Information	No action, confidential
	P016	Blank SCC Information	No action, confidential
	P019	Blank SCC Information	No action, confidential
	P025	Blank SCC Information	No action, confidential
	P026	Blank SCC Information	No action, confidential
	P033	Blank SCC Information	No action, confidential
	R066	Blank SCC Information	No action, confidential
1677010372	B003	Blank Stack Parameters	No action, small source
1677010375	P002	Blank Stack Parameters	No action, small source
	P007	Blank Stack Parameters	No action, small source
	P014	Blank Stack Parameters	No action, small source
1677020001	P013	Blank Stack Parameters, SCC Information	No action, small source, confidential
	P015	Blank Stack Parameters, SCC Information	No action, small source, confidential

(continued)

TABLE 4 (continued)

Ohio premise code	Source ID	Problem identified	Current status
1677020005	P001	Blank Stack Parameters, SCC Information	No action, small source, confidential
	P002	Blank SCC Information	No action, confidential
	P003	Blank SCC Information	No action, confidential
	P004	Blank SCC Information	No action, confidential
	P005	Blank SCC Information	No action, confidential
	P007	Blank SCC Information	No action, confidential
	P008	Blank SCC Information	No action, confidential
	P009	Blank SCC Information	No action, confidential
	P010	Blank SCC Information	No action, confidential
	P011	Blank SCC Information	No action, confidential
	P012	Blank SCC Information	No action, confidential
	P013	Blank SCC Information	No action, confidential
	P016	Blank SCC Information	No action, confidential
	P018	Blank SCC Information	No action, confidential
	P019	Blank SCC Information	No action, confidential
1677020007	B002	Blank Stack Parameters	No action, small source
	B003	Blank Stack Parameters	No action, small source
	B004	Blank Stack Parameters	No action, small source
	B013	Blank Stack Parameters	No action, small source
	B015	Blank Stack Parameters	No action, small source
	B020	Blank Stack Parameters	No action, small source
	B021	Blank Stack Parameters	No action, small source
	B022	Blank Stack Parameters	No action, small source
1677020009	P051	Blank Stack Parameters	No action, small source
	P088	Blank Stack Parameters	No action, small source
1707090013	B022	Blank Flow Rate	Correct
1715030150	B002	Blank SCC Information	Shut down
	B003	Blank SCC Information	Shut down
1734000036	P005	Blank Diameter	Correct
1741150011	P002	Blank SCC Information	Shut down
1947030013	B007	Blank Stack Parameters	No action, no informa- tion available

(continued)

TABLE 4 (continued)

Ohio premise code	Source ID	Problem identified	Current status
	B009	Blank SCC Information	No action, no information available
	B012	Blank Temperature	No action, no information available
1947030471	R001	Blank UTM's	Correct
	R002	Blank UTM's	Correct
	R003	Blank UTM's	Correct
	R004	Blank UTM's	Correct
19470 0229	P030	Blank Discharge Height	Correct

^aCorrect indicates that either changes were made to the OEIS due to GCA recommendations or that it was determined that the data was correct as is.

^bWhere no action was taken for a small source, this is because OEIS does not require stack parameters for sources emitting less than 25 ton/yr.

EMISSIONS INVENTORY SYSTEM OHIO ENVIRONMENTAL PROTECTION AGENCY OFFICE OF AIR POLLUTION CONTROL (POINT SOURCE ENGINEERING DATA SHEET 1)

FACILITY
COMPLETION BY
DATE

APPLICATION NUMBER												SOURCE												YEAR OF RECORD											
PREMISE												SOURCE												YEAR OF RECORD											
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16												1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16												1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16											
CONFID												OWNERSHIP												SIC											
CONSTRUCTED												MODIFIED												SHUT DOWN											
MO YR												MO YR												MO YR											
17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32												17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32												17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32											
UTM DATA												ELEVATION												STACK/DISCHARGE DATA											
ZONE HORIZ (km) VERT (km)												(ft above sea level)												(ft no stack, all fields, if no stack height and temp fields)											
17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32												17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32												17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32											
SOURCE WITH COMMON STACK												SOURCE WITH COMMON STACK												SOURCE WITH COMMON STACK											
17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32												17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32												17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32											
POLLUTANT												POLLUTANT												POLLUTANT											
PRIMARY												SECONDARY												TERTIARY											
CODE YR												CODE YR												CODE YR											
17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32												17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32												17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32											
ANNUAL ACTUAL EMISSION												ANNUAL ALLOWABLE EMISSION												ANNUAL ACTUAL EMISSION											
EMISSION (lb/yr)												EMISSION (lb/yr)												EMISSION (lb/yr)											
17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32												17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32												17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32											
CONTROL EFF												CONTROL EFF												CONTROL EFF											
OVERALL CONTROL EFF (%)												OVERALL CONTROL EFF (%)												OVERALL CONTROL EFF (%)											
17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32												17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32												17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32											
ANNUAL OPERATING DATE (cc, yy)												ANNUAL OPERATING DATE (cc, yy)												ANNUAL OPERATING DATE (cc, yy)											
17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32												17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32												17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32											
COMMENTS ONE												COMMENTS TWO												COMMENTS THREE											
17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32												17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32												17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32											

Figure 3. Point source engineering data sheet.

APPLICATION NUMBER										SOURCE										RECORD OF		
PREMISE																						
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19				

! A FAMILY

1. 1980-1981

1381

[illegible]

ANNUAL ACTUAL EMISSION		ANNUAL ALLOWABLE EMISSION	
METHOD	EMISSION (tonnes)	METHOD	EMISSION (tonnes)
17	14	30	31
18	15	31	32
19	16	32	33
20	17	33	34
21	18	34	35
22	19	35	36
23	20	36	37
24	21	37	38
25	22		
26	23		
27	24		
28	25		
29	26		
	27		
	28		
	29		
	30		
	31		
	32		
	33		
	34		
	35		
	36		
	37		
	38		

$$A = B \cup C$$

33

Stack parameters were coded for the point with the lowest "K" value.

TABLE 5. USE OF DISCHARGE CODE ON PSEDS FORMS

Discharge code	Modeling parameters coded	Card
S--Stack	Stack height, diameter, temperature, and flow rate	2
N--Nonstack	Discharge height and temperature	2
M--Multiple-point	Complete all of PSEDS 2 form (do not complete card 2)	7 and 8

Of the 160 multiple discharge points identified from Ohio's source listings, two were corrected by Ohio EPA, 87 were coded, 65 did not meet the criteria of Table 6, and 6 had no information available to code (the default values were used for these). In addition, 17 other points met the criteria of Table 6, and were also coded into NEDS format. Table 7 summarizes the review and coding of multiple discharge points.

ADDITION TO NECRMP DATA BASE

Once Ohio reviewed and corrected data needs identified by GCA, their 32-county OEIS data base was converted to NEDS format, stored on magnetic tape, and sent to GCA. GCA devised a computer program to insert UTM coordinates where missing, using those of other points within the same facility for multiple discharge points. The data were then quality checked by the EIS/PS convert-edit program, and the few resulting significant errors were corrected. The convert-edit program also created a transaction file which was subsequently used to build the EIS/PS master file.

The coded changes for the multiple discharge points were also checked by the EIS/PS Convert-Editor, coding errors corrected, then the transactions were used to update the EIS/PS Master File.

RESULTS

For reporting purposes, point source emissions for 1980 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.⁹ 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.

Point source emissions for 1980 are presented, by category, in Table 8. County-specific point source emissions are presented, by category, in Appendix A.

TABLE 6. CRITERIA FOR DETERMINING WHETHER
TO HAND CODE MULTIPLE DISCHARGE
POINTS IN NEDS FORMAT

The facility emits in excess of:

500 ton/yr VOC or NO_x

750 ton/yr CO

1000 ton/yr TSP

Or the individual point emits in excess of:

25 /yr VOC or NO_x

TABLE 7. LARGE FACILITIES WITH MULTIPLE DISCHARGE CODES

Ohio Premise No.	Source ID	Solution
0123000028	P001	Coded into NEDS--not identified as a large facility, but a significant source
0145010093	P003	Small source
	P004	Small source
	P005	Small source
	P006	Small source
	P007	Small source
0145020185	P001	Small source
	P004	Small source
	P005	Small source
	P049	Coded into NEDS
	P051	Small source
	P053	Small source
	P064	Small source
	P065	Small source
0250090241	P001	Coded into NEDS
	P002	Coded into NEDS
	P003	Coded into NEDS
	P004	Coded into NEDS
	P006	Coded into NEDS
	P007	Coded into NEDS
	P008	Coded into NEDS
	P009	Coded into NEDS
	P010	Coded into NEDS
	P012	Coded into NEDS
	P014	Coded into NEDS
	P016	Coded into NEDS
	P017	Coded into NEDS
	P018	Coded into NEDS
	P025	Coded into NEDS
	P026	Coded into NEDS
	P027	Coded into NEDS
	P030	Coded into NEDS
	P031	Coded into NEDS
	P032	Coded into NEDS
	P033	Coded into NEDS
	P035	Coded into NEDS

(continued)

TABLE 7 (continued)

Ohio Premise No.	Source ID	Solution
0250110119	R004	Coded into NEDS
	R005	Coded into NEDS
	R026	Coded into NEDS
	R027	Coded into NEDS
	R028	Coded into NEDS
0250110242	P001	Small source
0250110464	P001	Small source
	P003	Small source
	P004	Coded into NEDS
	P005	Coded into NEDS
	P006	Coded into NEDS
	P00	Coded into NEDS
	P00	Corrected by Ohio EPA
	P010	Corrected by Ohio EPA
0250110469	P032	Small source
	P033	Small source
	P035	Coded into NEDS
0278080015	P004	Small source
0278080235	P001	Coded into NEDS
	P007	Coded into NEDS
0278080337	P001	Coded into NEDS
	P002	Coded into NEDS
	P003	Coded into NEDS
	P004	Coded into NEDS
0278080338	P001	Coded into NEDS
	P002	Coded into NEDS
	P003	Coded into NEDS
	P004	Coded into NEDS
0616010029	K001	No information available
	P001	Coded into NEDS
	P002	Coded into NEDS
	P004	Coded into NEDS

(continued)

TABLE 7 (continued)

Ohio Premise No.	Source ID	Solution
	P005	Coded into NEDS
	P006	Coded into NEDS
	P007	Coded into NEDS
	P00	Coded into NEDS
	P009	Coded into NEDS
	P010	Coded into NEDS
	P012	Coded into NEDS
	P013	Coded into NEDS
0630000001	B001	Coded into NEDS
0630010006	P001	Coded into NEDS
0660000010	P002	No information available
	P003	Coded into NEDS
	P004	Coded into NEDS
	P005	Coded into NEDS
0660000059	P005	Coded into NEDS
	P019	Small source
0660010028	R00	Coded into NEDS--not identified as a large facility
0679000090	K001	Coded into NEDS
	P001	Coded into NEDS
	P006	Coded into NEDS
	R001	Coded into NEDS
0679010124	P005	Coded into NEDS
	P006	Coded into NEDS
	P007	Coded into NEDS
0684010011	P004	Coded into NEDS
	P006	Small source
06 4010040	P001	Coded into NEDS
	P002	Coded into NEDS
	P004	Coded into NEDS
	K001	Coded into NEDS
	K002	Coded into NEDS
	K004	Coded into NEDS

(continued)

TABLE 7 (continued)

Ohio Premise No.	Source ID	Solution
0684020006	P004	Small source
	P005	Small source
	P007	Small source
	P009	Small source
	P012	Small source
	P014	Small source
	P015	Small source
	P016	Small source
	P017	Small source
	P021	Small source
	P022	Small source
0684020008	P003	Coded into NEDS
	P005	Small source
0684020020	K005	Small source
	K006	No information available
	K008	Small source
	K009	Small source
0684020092	K001	Coded into NEDS
	K002	Coded into NEDS
	P003	Coded into NEDS
1318000078	P004	Coded into NEDS
	P057	Coded into NEDS
1318000151	P005	Small source
	P006	Small source
	P007	Small source
	P010	Small source
1318000158	X001	Small source
1318000242	X001	Coded into NEDS
1318000852	X001	Coded into NEDS
	X002	Coded into NEDS
1318001007	P007	Small source

(continued)

TABLE 7 (continued)

Ohio Premise No.	Source ID	Solution
1318001092	P017	Small source
1318001127	P005	Coded into NEDS
	P011	Coded into NEDS
1318002664	X001	Small source
1318005315	K001	Coded into NEDS
	K002	Coded into NEDS
1318005539	P002	Small source
1318005897	X001	Small source
1318082830	X001	Small source
	X002	Small source
1318083493	X001	Small source
1318120179	R003	Coded into NEDS
1318120180	P060	Small source
	P061	Small source
	P063	Small source
	P087	Coded into NEDS
	P088	Coded into NEDS
	P089	Coded into NEDS
	P090	Coded into NEDS
	P091	Small source
	P092	Small source
	P093	Small source
1318170029	P001	Small source
	P006	Coded into NEDS
	P008	Small source
	P011	Coded into NEDS
1318170183	X001	Small source
1318171623	P001	Small source

(continued)

TABLE 7 (continued)

Ohio Premise No.	Source ID	Solution
1318292664	X001	Coded into NEDS
1318270383	P001	Small source
	P005	Coded into NEDS
1318402645	X002	Small source
1318611045	K002	Coded into NEDS
1677000053	R001	No information available
	R002	No information available
	R003	No information available
1715010014	P005	Small source
1756000014	P007	Small source
	P010	Small source
	P020	Small source
	P021	Small source
	P022	Small source
1947080229	P003	Coded into NEDS
	P004	Coded into NEDS
	P019	Coded into NEDS
	P020	Coded into NEDS
	P021	Coded into NEDS
	P022	Coded into NEDS
	P050	Coded into NEDS

TABLE 8. TOTAL POINT SOURCE EMISSIONS BY CATEGORY FOR THE 82 COUNTIES
OF OHIO IN THE NECRMP STUDY AREA

STATE OR REGION TOTALS										
CATEGORY	POINT COUNT	----- TSP	PRIMARY SO2	EMISSIONS NOX	(TUNS/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	1	0	0	0	69	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	25	0	0	0	612	0	0			
7 GASOLINE BULK PLANTS	0	0	0	0	0	0	0			
8 TANK TRUCK LOADING	17	0	0	0	1961	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)	44	0	0	0	4275	0	0			
12 LUEL OIL MANUFACTURE	0	0	0	0	0	0	0			
13 PETROLEUM REFINERIES	16	113	1261	261	884	54253	0			
14 PHARMACEUTICAL MANUFACTURE	0	0	0	0	0	0	0			
15 TEXTILE POLYMERS & RESIN MANUFACTURE	11	22	1	0	914	0	0			
16 SYNTHETIC FIBER MANUFACTURE	17	3	0	0	2603	0	0			
17 ORGANIC CHEMICAL MANUFACTURE	4	2	0	0	59	0	0			
18 INORGANIC CHEMICAL MANUFACTURE	55	1183	380	32	1	0	0			
19 FERMENTATION PROCESSES	0	46	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	1	1	0	0	0	0	0			
24 OTHER CHEMICAL MANUFACTURE	152	448	1766	559	5849	52301	0			
25 IRON AND STEEL MANUFACTURE	432	26384	30767	6125	12262	86503	0			
26 TOBACCO PRODUCTS	0	0	0	0	0	0	0			
27 FOOD PRODUCTS	0	44	0	0	0	0	0			
28 TEXTILE MILL PRODUCTS	0	0	0	0	0	0	0			
29 LUMBER AND WOOD PRODUCTS	10	120	0	0	0	0	0			
30 PAPER AND ALLIED PRODUCTS	2	7	0	0	0	0	0			
31 STONE,CLAY,GLASS,CONCRETE	341	15177	6898	1263	476	560	0			
32 PRIMARY & SECONDARY METALS & ELECTRICAL	317	3444	2494	7	12	0	0			
33 FABRICATED METAL PRODUCTS	95	576	0	0	684	0	0			
34 IN-PROCESS FUEL USE	43	0	5	483	633	0	0			
35 OTHERS - (INDUSTRIAL PROCESSES)	22	76	254	0	70	0	0			
36 ADHESIVES	3	0	0	0	165	0	0			
37 IND. SFC. COATING-LARGE APPLIANCES	0	0	0	0	0	0	0			
38 IND. SFC. COATING-MAGNET WIRE	12	0	0	0	501	0	0			
39 IND. SFC. COATING-AUTOMOBILE	70	2	0	0	3197	0	0			
40 IND. SFC. COATING-CANS	14	0	0	0	729	0	0			
41 IND. SFC. COATING-METAL COILS	1	1	0	0	0	0	0			
42 IND. SFC. COATING-PAPER	12	0	0	0	1427	0	0			
43 IND. SFC. COATING-FABRIC	3	0	0	0	1834	0	0			
44 IND. SFC. COATING-MISC. FURNITURE	0	0	0	0	770	0	0			
45 IND. SFC. COATING-METAL/WOOD PRODUCTS	34	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	103	162	0	0	5531	0	0			
50 OTHERS - (INDUSTRIAL SURFACE COATING)	66	9	0	0	14638	0	0			

TABLE 8 (continued)

STATE OR REGION TOTALS

CATEGORY	POINT COUNT	----- TSP	PRIMARY SO2	SCC SO2	EMISSIONS NOX	(TUNS/YEAR) HC	----- CO
51 DEGREASING	30	0	0	0	0	1287	0
52 DRY CLEANING	0	0	0	0	0	0	0
53 GRAPHIC ARTS	46	0	0	0	0	17156	0
54 OTHER - (SOLVENT USE)	8	0	0	0	0	216	0
55 ARCHITECTURAL COATINGS	0	0	0	0	0	0	0
56 AUTO REFINISHING	1	0	0	0	0	13	0
57 OTHERS-(NON-INDUSTRIAL SURFACE COATING)	0	0	0	0	0	32	0
58 EXT. COMB. BOILERS-ELEC. GENERATION	122	106874	1207734	243156	3441	11476	0
59 EXT. COMB. BOILERS-INDUSTRIAL	484	46430	153268	54304	1149	3969	0
60 EXT. COMB. BOILERS-COMM/INST	231	4034	14135	3261	186	455	0
61 EXT. COMB. SPACE HEATERS-INDUST.	7	27	182	91	4	9	0
62 EXT. COMB. SPACE HEATERS-COMM.	3	9	17	5	2	2	0
63 OTHERS-(FUEL COMBUSTION)	0	0	0	0	0	0	0
64 SOLID WASTE DISPOSAL-GCMT.	17	724	51	86	32	710	0
65 SOLID WASTE DISPOSAL-COMM/INST	52	57	10	65	7	0	0
66 SOLID WASTE DISPOSAL-INDUSTRIAL	10	103	9	26	4	0	0
67 OTHER SOLID WASTE DISPOSAL	0	0	0	0	0	0	0
68 WASTE SOLVENT RECOVERY PROCESSES	21	0	0	0	1482	0	0
69 STATIONARY INTERNAL COMBUSTION ENGINES	7	30	255	624	123	200	0
70 NOT CLASSIFIED	1	12	0	0	0	0	0
STATE OR REGION TOTALS		206391	1459530	310576	85452	211165	

A list of "major" facilities was developed by totaling emissions at each facility using a criteria of 100 tons/yr or 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 9.

Final Data Tape

The completed Ohio point source inventory was written onto computer tape for delivery to EPA. Included on the tape which was forwarded on March 17, 1982 were the following files:

- Original 1980 NEDS file as received from Ohio EPA
- Revised NEDS data as corrected by GCA
- EIS/PS Master File (1980)

TABLE 9. OHIO SOURCES EMITTING MORE THAN 100 TYP OF VOC OR NO_x

NECRMP 1980 MEDS STATE INVENTORY
LARGE FACILITIES SELECTED
FOR OHIO

STATE	COUNTY	ADDR	PLANT	FACILITY	TSP (****)	SC2 (****)	NCX (100)	HC (100)	CO (****)
36	220	176	5001	CLEVELAND ELECTRIC & ILLUMINATING	44504				
36	220	176	5002	CLEVELAND ELECTRIC CO ASHTABULA PLANT	465	37024	4532	72	248
36	220	176	5003	TRUI TEMPLER CORP	2239	33614	4459	79	253
36	220	178	5013	ITEA FIBRE COMPANY	0	0	0	112	0
36	260	179	5001	COLS & S OHIO ELEC CO POSTON STATI	0	0	0	554	0
36	260	179	5003	OPIC UNIVERSITY	385	32222	4113	67	227
36	540	161	5001	WHEELING PITTS STEEL MARTINS FERPY	51	1457	229	14	30
36	540	161	5002	CHLO EDISON COMPANY R E PURGER PLA	1702	1777	190	13	25
36	1520	183	5001	CONESVL GENERATING STA C & S OHIO E	7611	82613	16116	159	561
36	1520	183	5003	CLON CORP CAST IRON PIPE FDRY DIV	3595	173000	33393	515	1729
36	1520	183	5005	STONE CONTAINER CORP	527	0	0	336	9094
36	1520	183	5006	CENTRAL ELECTRIC CO	18	5	825	5	19
36	1600	174	5003	JOHNS & LAUGHLIN STEEL CORP	195	1968	574	10742	45
36	1600	174	5005	AMERICAN CO COMPANY	1000	2681	440	16	15574
36	1600	174	5013	KALLEY CO FIRMAL STANDARS OIL C	0	0	0	1216	0
36	1600	174	5015	CLEVELAND ELECTRIC ILLUM STEAM HEATING	0	0	0	345	0
36	1600	174	5016	CLEVELAND ELECTRIC ILLUM STEAM HEATING	195	1996	1124	15	110
36	1600	174	5017	CLEVELAND ELECTRIC ILLUM STEAM HEATING	745	8911	5091	77	273
36	1600	174	5018	CLEVELAND ELECTRIC ILLUM STEAM HEATING	26	313	154	5	12
36	1600	174	5040	PARSONS CHEMICAL CO	1050	298	119	5	6
36	1600	174	5050	REPUBLIC STEEL CORP	5413	15420	254	3273	4979
36	1600	174	5059	SYNCO CORPORATION	0	0	0	221	0
36	1600	174	5092	MARATHON OIL COMPANY	0	0	0	567	0
36	1600	174	5094	CLEAR OIL REFINING CORP	0	0	0	166	0
36	1600	174	5096	FORD MOTOR CO CLEVELAND ENGINE PLA	8520	8878	1205	69	161
36	1600	174	5099	FORD MOTOR CO CLEVELAND ENGINE PLA	158	0	0	174	0
36	1600	174	5100	FORD MOTOR CO CLEVELAND CASTING PLANT	1008	660	0	1593	1859
36	1600	174	5107	STANDARD OIL CO	44125	0	0	340	0
36	1600	174	5118	ALUMINUM COMPANY OF AMERICA	45	1801	257	5	15
36	1600	174	5119	US STEEL CO CUY WORKS	10	4	237	4	6
36	1600	174	5113	CENTRAL ELECTRIC CO	2	2	116	2	2
36	1600	174	5115	AMULTRONICS	37	0	0	388	0
36	1600	174	5117	CORP FLIN. SCHOOL	0	0	0	176	0
36	1600	174	5138	FORD MOTOR CO CLEVELAND STAMPING P	81	204	66	275	8
36	1600	174	5141	UNIT CORPORATION	7	0	0	104	0
36	1600	174	5147	CLEVELAND WOOD PRODUCTS DIV.	0	0	0	2830	0
36	1600	174	5172	THE VALVE DIV	1	0	0	117	0
36	1600	174	5173	CLEVELAND STEEL PRODUCTS CO	12	0	0	204	0
36	1600	174	5213	CALVEY FRY	0	0	0	204	0
36	1600	174	5275	SMITH OIL COMPANY	0	0	0	513	0
36	1600	174	5282	J.F. HAUGERMAN CO	111	0	0	111	0
36	2200	176	5001	CRONIN ZELLERBACH	2029	250	250	41	148
36	2200	176	5001	RICKENBAUER AIR FORCE BASE	18	718	262	17	35
36	2200	176	5004	STOKELY-VAN CAMP, INDUSTRIAL PROD	57	1503	216	12	27
36	2200	176	5009	CUS COATED FABRICS BORDEN CHEM CO	125	1413	187	11	24
36	2200	176	5014	FISHER BODY DIVISION, S.M.C.	54	1266	188	11	24
36	2200	176	5019	GEAR CASE CO FRICTION SUPPLY CENTER	69	1005	471	30	60
36	2200	176	5021	COLUMBUS PRODUCTS COMPANY	102	1872	231	146	30
36	2200	176	5023	ROSS LYSISTRACHIS	24	54	126	0	16
36	2200	176	5024	COLUMBUS CORRECTIONAL FACILITY	517	821	124	7	16
36	2200	176	5032	CENTRAL OHIO PSYCHIATRIC HOSPITAL	342	434	170	2	.22
36	2200	176	5034	NAVAL WEAPONS INDUSTRIAL RESERVE P	32	894	234	4	12

TABLE 9 (continued)

NECAMP 1980 NLG'S STATE INVENTORY
LARGE FACILITIES SELECTED
FOR OHIO

STATE	COUNTY	PLANT	FACILITY	TSP (****)	SC2 (****)	NOX (100)	HC (100)	CO (****)
36	2229	176	5035	43209	189	102	6	12
36	2229	176	5036	43223	414	1005	4	14
36	2220	176	5044	43125	157	240	19	53
36	2220	176	5048	43215	0	0	101	0
36	2220	176	5049	43207	0	0	237	0
36	2640	183	5056	43725	0	0	1177	0
36	2640	183	5059	43732	0	0	15	81
36	2640	175	5062	44654	1	204	1834	0
36	3160	181	5062	43913	96356	16376	273	907
36	3160	181	5066	43938	1379	631	13	17
36	3160	181	5010	43961	141141	40217	668	2233
36	3160	181	5011	43964	1189	157	10	21
36	3160	181	5012	43964	884	4100	60	202
36	3160	181	5016	43971	3018	460	26	58
36	3160	181	5017	43913	27037	14081	267	892
36	3240	174	5062	44077	0	0	2803	0
36	3240	174	5065	44077	203	315	211	52
36	3240	174	5068	44077	2	0	6263	0
36	3240	174	5012	44094	17145	152662	366	1297
36	3240	174	5013	44094	0	0	106	0
36	3270	174	5014	44094	42	904	8	15
36	3270	174	5019	44077	357	102	1	5
36	3440	176	5006	47055	5740	173	341	500
36	3640	174	5001	44012	1559	4866	77	262
36	3640	174	5002	44035	326	41	117	4
36	3640	174	5003	44052	8224	3532	58	195
36	3640	174	5004	44055	3234	3371	3365	2743
36	3640	174	5005	44052	116	151	878	19
36	3640	174	5010	44035	0	0	114	0
36	3640	174	5008	44016	0	0	494	0
36	3820	178	5013	10825	16925	4343	2075	4746
36	3820	178	5014	44502	1845	251	15	32
36	3820	178	5017	44505	0	0	490	0
36	3820	178	5023	44515	0	0	149	0
36	3820	178	5024	44505	0	0	364	0
36	3820	178	5025	44502	0	0	1466	595
36	3820	178	5026	44509	8021	2102	14	20228
36	4160	174	5003	44509	581	458	382	0
36	4160	174	5002	44509	1	0	65	19
36	4640	183	5009	45769	2	160	0	37
36	5580	174	5008	44012	628	974	0	0
36	5580	174	5009	44202	0	0	236	0
36	6400	174	5003	44646	1294	114	544	0
36	6400	174	5007	44730	1012	114	7	14
36	6400	174	5008	44730	1959	224	14	30
36	6400	174	5016	44601	3113	635	857	54294
36	6400	174	5027	44701	1741	240	17	31
36	6400	174	5028	44705	177	252	3	6
36	6400	174	5029	44632	0	0	413	0
36	6400	174	5033	44646	297	432	237	8
36	6400	174	5034	44646	904	212	137	55
36	6400	174	5041	44646	1011	136	285	1616
36	6400	174	5041	44641	2	128	2	3

TABLE 9 (continued)

NECRMP 1980 NECS STATE INVENTORY
LARGE FACILITIES SELECTED
FOR OHIO

STATE	COUNTY	POCR	PLANT	FACILITY	TSP (****)	S02 (****)	NCX (100)	HC (100)	CO (****)
36	6500	174	5009	ATLANTIC RICHFIELD COMPANY	44236	0	0	744	0
36	6500	174	5011	ALSIDE INC	44223	0	5	1521	5
36	6500	174	5027	OHIO EDISON CO GEORG PLANT	44310	18983	2569	42	142
36	6500	174	5028	OHIO EDISON CO BEECH ST PLANT	44308	1449	209	13	25
36	6500	174	5030	DIAMOND CRYSTAL SALT COMPANY	44314	4860	114	4	56
36	6500	174	5032	GLUCONIC THE B F CHEMICAL CO	44311	1740	194	1637	25
36	6500	174	5034	B F GOODRICH COMPANY	44318	7245	454	407	77
36	6500	174	5035	KROGER MANUFACTURING CO., THE	44305	0	0	105	0
36	6500	174	5036	LOWMEAR AEROSPACE CORPORATION	44315	132	30	395	6
36	6500	174	5039	FIRSTONE TIRE & RUBBER CO	44317	2634	585	177	47
36	6500	174	5040	GOODYEAR TIRE & RUBBER CO	44316	0	0	219	0
36	6500	174	5041	GOODYEAR TIRE & RUBBER CO THE PLANT	44316	9750	1116	105	60
36	6500	174	5042	GOODYEAR TIRE AND RUBBER CO THE PL	44316	966	295	591	5
36	6500	174	5054	GENERAL TIRE & RUBBER COMPANY	44329	372	327	895	15
36	6500	174	5062	BEIRLING TIRE & RUBBER COMPANY	44203	50	40	532	2
36	6500	174	5065	PFG INDUSTRIES-EXPERIMENT PLANT	44203	47967	13594	68	178
36	6500	174	5069	WABCOCK AND WILCOX COMPANY	44203	67	433	94	47
36	6500	174	5078	MARCON ADHESIVES COMPANY	44224	0	0	7595	0
36	6500	174	5088	UNION OIL TERMINAL	44278	0	0	544	0
36	6500	174	5136	STANDARD OIL CO MOCAUORE TERMINAL	44260	0	0	1122	0
36	6500	174	5142	INLAND CEMENT CO PIPE LINE	44260	0	0	245	0
36	6500	174	5147	PEACOCK JOURNAL PUBLISHING CO.	44328	0	0	246	0
36	6700	178	5001	PERMAN RUBBER MFG.	44430	21	45	119	6
36	6700	178	5002	GENERAL AMERICAN TRANSPORTATION CO	44436	0	0	409	0
36	6700	178	5003	FLORIN BODY DIVISION	44482	0	0	290	0
36	6700	178	5007	CHLORIDE CO - KILN PLT	44440	2630	17219	107	351
36	6700	178	5009	CLEVELAND STEEL CONTAINER CORPORAT	44446	0	0	152	0
36	6700	178	5012	PACKARD ELECTRIC DIVISION	44482	88	103	156	10
36	6700	178	5017	REPUBLIC STEEL CORPORATION	44481	2935	1270	598	1753
36	6700	178	5018	REPUBLIC STEEL CORPORATION	44481	647	255	2	1080
36	6700	178	5028	G M ASSEMBLY DIV	44482	0	0	930	0
36	6700	178	5030	SHERIDAN WILLIAMS CO	44425	0	0	361	0
36	6700	178	5032	WORLD FLEET PROD DIV AMER WELONG M	44446	0	0	126	0
36	6700	178	5034	JULIUS A LAUGHLIN STEEL CORP	44446	0	0	140	0
36	6700	178	5035	ALCAN ALUMINA CORP.	44462	1	0	981	0
36	6700	178	5040	EMMAG ALUMINUM BRG CO	44420	0	0	172	0
36	6720	183	5004	POWER MUNICIPAL POWER PLANT	44622	64	362	24	48
36	6720	183	5006	UNION CORP CORPORATION CHEMICAL DI	44622	106	313	17	38
36	6720	183	5009	ALSCO ALUMINA, INC.	44629	3	0	1139	0
36	6720	183	5017	PARLITE DIV OF PARSONITE CORP	44622	0	0	187	0
36	6720	183	5018	MILLER STUDIO INC	44563	0	0	134	0
36	7100	179	5001	AMERICAN RIVER PLANT	45715	1304	48046	422	1412
36	7100	179	5003	SKILL CHEMICAL CO	45714	176	1188	234	40
36	7100	179	5004	ELKAP METALS COMPANY	45750	966	54982	88	300
36	7100	179	5005	UNION CARBIDE SILICONES & UROTHANE	45750	2	6	444	0
36	7100	179	5007	B F GOODRICH COMPANY	45750	0	0	301	0
36	7100	179	5013	KARDEX SYST. MS., INC.	45750	0	0	195	0
36	7100	179	5015	ASHLAND CHEMICAL COMPANY	45714	164	1635	1796	52901
36	7100	179	5017	Kaiser ALUMINUM AND CHEMICAL CORP	45714	0	0	263	0
36	7100	179	5019	ASHLAND PETROLEUM CO.	45750	0	0	348	0
36	7100	179	5022	GULF OIL COMPANY U S	45750	0	0	215	0
36	7100	175	5007	PACKAGING CORP OF AMERICA DIVISION	44270	0	0	0	0

TABLE 9 (continued)

NECRMP 1990 NEDS STATE INVENTORY LARGE FACILITIES SELECTED FOR OHIO									
STATE COUNTY AGR PLANT FACILITY				TSP	SO2	NOX	HC	CO	
36	7160	175	5014	MORTON SALT CO	(****)	(****)	(100)	(100)	(****)
					44270	4210	486	32	64
TOTALS					172371	1413607	307748	61749	185646

SECTION 4

AREA SOURCE INVENTORY

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.

METHODOLOGY

Since the State of Ohio did not maintain a current area source inventory of the detail required for NECRMP, the area source inventory for the Ohio portion of the Northeast Corridor Regional Modeling Project was developed by GCA using state-supplied and published activity data, AP-42¹⁰ and other EPA-approved emission factors, and methodologies generally consistent with the Procedures for the Preparation of Emission Inventories for Volatile Organic Compounds--Volume I, Second Edition.¹¹

Procedures¹¹ lists multiple methodologies for a number of the area source categories inventoried. To maintain consistency from state to state, GCA selected methods, from Procedures,¹¹ to be used to compile and verify all NECRMP area source emission inventories. These recommended methods can be found in Volume I of this series.⁹

Area source emissions of VOC and NO_x were calculated on a county-specific basis for 54 individual area source categories. While the intention was to estimate total VOC, for maximum compatibility with the regional model to be used in the NECRMP; this was not always possible. For several area source categories, only reactive (nonmethane) VOC emission factors were available. Table 10 presents the 54 area source categories inventoried and whether VOC emissions for each category represent total or reactive VOC.

TABLE 10. AREA SOURCE CATEGORIES INVENTORIED FOR OHIO

EIS/AS Category No.	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	Small Industrial/Commercial Degreasing	RVOC
006	Dry Cleaning	RVOC
007	Architectual Surface Coating	RVOC
008	Auto Body 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
019	On-Highway Motorcycles	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

(continued)

TABLE 10 (continued)

EIS/AS Category No.	Category Description	Pollutants inventoried
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

Area source activity data and emission factors used to develop the Ohio emission inventory originated from a number of sources. Table 11 presents a matrix of:

- The 54 area source categories inventoried;
- The source activity or surrogate indicator on which emissions estimates were based;
- The source of these activity rate estimates;
- The emission factors used; and,
- The source of these emission factors.

The methods used to calculate emissions are discussed below by category. The Northeast Ohio Areawide Coordinating Agency (NOACA) was concurrently preparing a VOC/NO_x area source inventory³ for the Cleveland area to be used in Ohio's 1982 ozone State Implementation Plan (SIP). The emission estimates reported here include NOACA's estimates for the counties of Cuyahoga, Lake, Lorain and Medina. The methodology discussion which follows indicates where NOACA's calculation methods differ from those used by GCA for the other 28 counties. GCA also calculated emissions for the four NOACA counties to compare to different methodologies used. This comparison is presented later in this section. NOACA's emission results were listed in kilograms per day and appropriate reactivities were applied to represent reactive VOC and NO_x emissions of a typical summer weekday. In order to make this inventory consistent with that of the other 28 counties, GCA necessarily applied the inverse of NOACA's seasonal/temporal adjustment factors and converted emission units to tons per year.

Emissions from Gasoline Distribution Losses

Gasoline distribution losses occur from gasoline transport from the bulk station to the service station storage tank and to the service station customer. Losses also occur from storage tank breathing, from escaping vapors from empty trucks, and from the gasoline transfer from the storage tank to the service station pump.

To facilitate the calculations, the transfer process from bulk plant to consumer has been divided into four stages:

- tank truck unloading
- vehicle fueling
- underground tank breathing losses
- tank truck loading and transit losses.

TABLE 11. SUMMARY OF AREA SOURCE EMISSION METHODOLOGY

Category number	Category	Activity rate units	Source	Emission factor	Source
01	Stage I Gasoline Evaporation	Gasoline delivered	Highway Stat. Table MF-2	VOC: 8.35 lb/10 ³ gal	AP-42, Table 4.4-4
02	Stage II Gasoline Evaporation	Gasoline taxed	Highway Stat. Table MF-2	VOC: 9.7 lb/10 ³ gal	AP-42, Table 4.4-4
03	Storage Tank Breathing Evaporation	Gasoline delivered	Highway Stat. Table MF-2	VOC: 1.0 lb/10 ³ gal	AP-42, Table 4.4-4
04	Gasoline Loading/Transit Evaporation	Gasoline delivered	Highway Stat. Table MF-2	VOC: 6.87 lb/10 ³ gal	AP-42, Table 4.4-3
05	Sm. Ind/Comm Degreasing	Population	1980 Census of Pop.	VOC: 7.59 lb/capita	NSPS document
06	Dry Cleaning	Population	1980 Census of Pop.	VOC: 1.5 lb/capita	EPA 450/2-77-028 Guidelines
07	Arch. Surface Coating	Population	1980 Census of Pop.	VOC: 4.6 lb/capita	Guidelines
08	Auto Body Refinishing	Population	1980 Census of Pop.	VOC: 1.9 lb/capita	Guidelines
09	Sm. Ind. Surface Coating	Gal. of coatings	1978 Sales Survey of National Paint and Coating Assoc.	HC:1175 lb/ton of coating	AP-42, Table 4.2-1
10	Graphic Arts	Population	1980 Census of Pop.	VOC: 0.8 lb/capita	Guidelines
11	Comm/Con Solvent use	Population	1980 Census of Pop.	VOC: 6.3 lb/capita	Guidelines
12	Cutback Asphalt	Gal. of asphalt	1980 Sales of Asphalt	VOC: 2 lb/ton for medium cure (diluent 35%)	AP-42, Table 4.5-1
13	Pesticides	Harvested acres	County and city Data Book	VOC: 3.5 lb/harvest acre	Guidelines
14	On-Highway LDV	VMT	State supplied	VOC: 7.572 lb/10 ³ VMT NO _x : 7.680 lb/10 ³ VMT	MOBILE2
15	On-Highway LDT1	VMT	State supplied	VOC: 8.570 lb/10 ³ VMT NO _x : 8.240 lb/10 ³ VMT	MOBILE2
16	On-Highway LDT2	VMT	State supplied	VOC: 9.610 lb/10 ³ VMT NO _x : 9.485 lb/10 ³ VMT	MOBILE2
17	On-Highway HDG	VMT	State supplied	VOC: 20.07 lb/10 ³ VMT NO _x : 26.28 lb/10 ³ VMT	MOBILE2
18	On-Highway HDD	VMT	State supplied	VOC: 5.282 lb/10 ³ VMT NO _x : 58.89 lb/10 ³ VMT	MOBILE2
19	On-Highway MC	VMT	State supplied	VOC: 13.43 lb/10 ³ VMT NO _x : 1.334 lb/10 ³ VMT	MOBILE2

(continued)

TABLE 11 (continued)

Category number	Category	Activity rate units	Source	Emission factor	Source
20	Residential Anthracite	Tons of coal	Guidelines	HC: 2.5 lb/ton coal NO _x : 3 lb/ton coal	AP-42, Table 1.2-1
21	Residential Bituminous	Tons of coal	Guidelines	HC: 3 lb/ton coal NO _x : 6 lb/ton coal	AP-42, Table 1.1-2
22	Residential Residual Oil	N/A	N/A	N/A	N/A
23	Residential Distillate	10 ³ gal of oil	Guidelines	HC: 1 lb/10 ³ gal NO _x : 18 lb/10 ³ gal	AP-42, Table 1.3-1
24	Residential Natural Gas	10 ⁶ Cu. ft	Guidelines	HC: 8 lb/10 ⁶ cu. ft NO _x : 80 lb/10 ⁶ cu. ft	AP-42, Table 1.4-1
25	Residential LPG	10 ³ gal	Guidelines	HC: .75 lb/10 ³ gal NO _x : 7.5 lb/10 ³ gal	AP-42, Table 1.5-1
26	Residential Wood	Tons of wood	Guidelines	HC: 5 lb/ton wood NO _x : 1 lb/ton wood	AP-42, Table 1.9-1
27	Comm/Inst Anthracite	Tons of coal	NEDS fuel use	HC: 0 lb/ton coal NO _x : 10 lb/ton coal	AP-42, Table 1.2-1
28	Comm/Inst Bituminous	Tons of coal	DOE "Bituminous and Subbituminous Coal and Liquid Distribution" API	HC: 3 lb/ton coal NO _x : 6 lb/ton coal	AP-42, Table 1.1-2
29	Comm/Inst Residual Oil	10 ³ gal of oil	API	HC: 1 lb/10 ³ gal NO _x : 60 lb/10 ³ gal	AP-42, Table 1.3-1
30	Comm/Inst Distillate Oil	10 ³ gal of oil	API	HC: 1 lb/10 ³ gal NO _x : 22 lb/10 ³ gal	AP-42, Table 1.3-1
31	Comm/Inst Natural Gas	10 ⁶ Cu. ft Gas	AGA Gas Facts	HC: 8 lb/10 ⁶ cu. ft NO _x : 120 lb/10 ⁶ cu. ft	AP-42, Table 1.4-1
32	Comm/Inst LPG	10 ³ gal oil	DOE "Sales of LPG and Ethane"	HC: .75 lb/10 ³ gal NO _x : 11 lb/10 ³ gal	AP-42, Table 1.5-1
33	Comm/Inst Wood/Other	Tons of Wood/Other	NEDS Fuel Use	HC: 36 lb/ton wood NO _x : 10 lb/ton wood	AP-42, Table 1.6-1
34	Industrial Anthracite	Tons of coal	NEDS Fuel Use	HC: 0 lb/ton coal NO _x : 18 lb/ton coal	AP-42, Table 1.2-1
35	Industrial Bituminous	Tons of coal	DOE "Bituminous and Subbituminous Coal and Lignite Distribution" API	HC: 1 lb/ton coal NO _x : 15 lb/ton coal	AP-42, Table 1.1-2
36	Industrial Residual Oil	10 ³ gal of Oil	API	HC: 1 lb/10 ³ gal NO _x : 60 lb/10 ³ gal	AP-42, Table 1.3-1

(continued)

TABLE 11 (continued)

Category number	Category	Activity rate units	Source	Emission factor	Source
37	Industrial Distillate Oil	10 ³ gal of Oil	API	HC: 1 lb/10 ³ gal NO _x : 22 lb/10 ³ gal	AP-42, Table 1.3-1
38	Industrial Natural Gas	10 ⁶ Cu. ft Nat. Gas	AGA Gas Facts	HC: 3 lb/10 ⁶ cu. ft NO _x : 175 lb/10 ⁶ cu. ft	AP-42, Table 1.4-1
39	Industrial LPG	10 ³ gas LPG	DOE "Sales of LPG and Ethane"	NO _x : .3 lb/10 ³ gal NO _x : 11.65 lb/10 ³ gal	AP-42, Table 1.5-1
40	Industrial Wood/Other	Tons of wood/other	NEDS Fuel Use	HC: 36 lb/ton NO _x : 10 lb/ton	AP-42, Table 1.6-1
41	Military Aircraft	LT0s	FAA and the Military	HC: 27.1 lb/LTO NO _x : 9.16 lb/LTO	EPA
42	Civil Aircraft	LT0s	FAA	HC: .41 lb/LTO NO _x : .028 lb/LTO	EPA
43	Commercial Aircraft	LT0s	FAA	HC: 30.66 lb/LTO NO _x : 26.93 lb/LTO	EPA
44	Railroad Locomotives	10 ³ gal oil	DOE "Sales of Fuel Oil and Kerosene"	HC: 94 lb/10 ³ gal NO _x : 370 lb/10 ³ gal	AP-42, Table 3.2.2-1
45	Vessels - Gasoline	10 ³ gal gasoline	Guidelines	HC: 835.478 NO _x : 39.052	AP-42, Tables 3.2.3-5, 3-2
46	Vessel - Distillate Oil	10 ³ gal oil	DOE "Sales of Fuel Oil and Kerosene"	HC: 59 lb/10 ³ gal NO _x : 260 lb/10 ³ gal	AP-42, Table 3.2.3-1
47	Vessel - Residual Oil	10 ³ gas oil	DOE "Sales of Fuel Oil and Kerosene"	HC: 1.72 lb/10 ³ gal NO _x : 63.6 lb/10 ³ gal	AP-42, Table 3.2.3-2
48	Off-Highway Vehicles Gas	10 ³ gal gas	NEDS Fuel Use Report	HC: 290.417 lb/10 ³ gal NO _x : 85.824 lb/10 ³ gal	Composite factor
49	Off-Highway Vehicles Diesel	10 ³ gal diesel	NEDS Fuel Use Report	HC: 41.26 lb/10 ³ gal NO _x : 410.954 lb/10 ³ gal	Composite factor
50	On Site Incineration	Tons of waste	Guidelines	HC: 29 lb/ton waste NO _x : 5.5 lb/ton waste	Composite factor
51	Open Burning	Tons of waste	Guidelines	HC: 37 lb/ton waste NO _x : 2.5 lb/ton waste	Composite factor
52	Structural Fires	Actual No. of fires	State Fire Marshall	HC: 107 lb/fire NO _x : 17 lb/fire	EPA
53	Field/Slash Burning	Acres burned	No info available	HC: 23.5 lb/acre NO _x : 4 lb/acre	Composite factors from AP-42
54	Forest Fires	Acres burned	State supplied	HC: 261.025 lb/acre NO _x : 43.210 lb/acre	AP-42, Table 11.12

Emissions calculations involve the amount of gasoline available at various stages from the bulk plant to the consumer and the appropriate emission factor from AP-42.¹⁰ Tank truck loading and unloading losses are affected by the type of tank filling at the service station and bulk plant. It was assumed that of all tank filling operations, 75 percent are submerge filled and 25 percent are splash filled.¹¹ The derived composite emission factors reflect this assumption.

The process rates for those four categories were based on gasoline taxed and gasoline sold to service stations for 1979 as found in Table MF-2 of Highway Statistics¹² and projected to 1980 using data in Table SS79-1. Table 12 summarizes the emission factors and process rates for these four categories.

TABLE 12. EMISSION FACTORS AND PROCESS RATES FOR CALCULATING EMISSIONS FROM GASOLINE DISTRIBUTION LOSSES

Category	Composite emission factor (lb VOC/10 ³ gal)	Process rate (statewide) (10 ³ gallons)
Tank truck unloading	8.4	5,873,616 (gross reported)
Vehicle fueling	9.7	5,809,320 (gross taxed)
Underground tank breathing	1.0	5,873,616 (gross reported)
Tank truck loading and transit	6.9	5,873,616 (gross reported)

Scaling down to the county level was based on the number of vehicle registrations per county as recommended by the Ohio Department of Taxation.¹³ The number of registrations per county was obtained from the Bureau of Motor Vehicles, Ohio Department of Highway Safety.

The NOACA inventory³ followed the same general procedure. However, NOACA assumed different percentages for the types of tank filling operations. Table 13 presents the percentages NOACA used. Emission estimates for Cuyahoga, Lake, Lorain, and Medina Counties reflect this information for tank truck unloading, vehicle fueling, and underground tank breathing. For tank truck loading and transit, however, NOACA's calculations did not include tank truck transit. To maintain consistency with the other states in the NECRMP inventory, the emissions calculated by GCA were used for this category.

TABLE 13. TYPE OF STORAGE TANK FILLING OPERATIONS
REFLECTED IN NOACA'S AREA SOURCE INVENTORY

County	Percentage of filling type:		
	Submerged	Splash	Balance
Cuyahoga	0.69	0.30	0.01
Lake	0.60	0.30	0.10
Lorain	0.70	0.30	0.00
Medina	0.60	0.30	0.10

Emissions were balanced with the point sources for tank truck loading and transit losses. Point sources in Ohio's EIS inventory did not overlap with the other three gasoline handling categories.

Stationary Source Solvent Evaporation

These area source categories include degreasing, dry cleaning, surface coating, graphic arts, cutback asphalt, pesticides, and commercial/consumer solvent use, which are described individually, as follows.

Degreasing Operations--

A composite per capita emission factor, derived in Volume I of this series,⁹ was used with the 1980 Census of Population¹⁴ to estimate emissions. This factor (7.59 lb per capita) represents a composite of cold cleaning, conveyORIZED, and open top degreasing and was based on the total amount of degreasing solvents used for the U.S. in 1977 divided by the population of the U.S. in that year.

NOACA performed a survey to estimate degreasing emissions in the Cleveland area. Emissions were calculated based on the number of degreasing units in their study area and emission factors from Section 4.6 of AP-42. The counties in the NOACA study area reflect their estimates in the NECRMP inventory.

The area source emission estimates were balanced with the OEIS point source inventory emissions.

Dry Cleaning--

For this emission category, the recommended per capita emission factor found in EPA-450/2-77-028 and population from the 1980 Census of Population¹⁴ were used. Point source emissions from commercial and/or coin operated dry cleaning plants emitting less than 100 tons/year were subtracted. Thus, this area source category represents small dry cleaners while only large dry cleaning units are recorded in the Ohio point source inventory.

Cuyahoga, Lake, Lorain, and Medina Counties were inventoried by NOACA.³ The method used to estimate emissions was based on the pounds of clothes cleaned and the number of dry cleaning establishments.

Architectural Surface Coatings--

Due to the lack of state-specific information on the quantity, average solvent content, and densities of waterborne and solventborne coatings sold, the method used is based upon a per capita emission factor. In reference 15, the EPA states that either method is acceptable and yields similar results.

The 1980 census¹⁴ and the per capita emission factor of 2.3×10^{-3} TPY/capita¹¹ were used to calculate the VOC emissions.

Automobile Refinishing--

Based on data availability, a method involving the per capita emission factor of 1.9 lb/capita was used. Any point source emissions were subtracted from the emission estimates. NOACA³ adjusted the per capita emission factor to county specific factors they felt would more closely represent the Cleveland region. Emission estimates in Cuyahoga, Lake, Lorain, and Medina Counties were based on county specific factors ranging from 1.4 to 2.6 lb/capita.

Small Industrial Surface Coating--

Sales of surface coatings, excluding those for auto body refinishing and architectural surface coating, were found in the Sales Survey¹⁶ of the National Paint and Coating Association for the State of Ohio. The statewide sales were apportioned to the county level based on population. The emission factor was found in Table 4.2-1 of AP-42.¹⁰

Graphic Arts--

The per capita VOC emission factor recommended in the Procedures¹¹ (4×10^{-4} TPY/capita) was used with the 1980 Census¹⁴ to estimate total emissions from this category. Point source emissions were deducted to yield the area source county total emissions. In accordance with Procedures¹¹, only point sources which emit less than 100 tons/year were deducted.

Cutback Asphalt--

After telephone communications with ODOT,¹⁷ it was determined that the best source for the quantity of cutback asphalt used in the state would be the U.S. Department of Energy (DOE) publication Sales of Asphalt.¹⁸ ODOT did confirm that nearly all cutback used in the state was medium cure. An average diluent content of 35 percent was assumed for the medium cure asphalts in accordance with the Procedures.¹¹ Apportioning to the county level was based on population.¹⁴ Emission estimates were derived based on information found in Section 4.5 of AP-42.¹⁰

NOACA performed a survey to determine cutback asphalt usage. It found that only medium cure was used in the Cleveland area. NOACA's emission estimates are reflected in the NECRMP inventory.

Pesticide Application--

Emissions were estimated using an average emission factor of 3.5 lb of VOC/yr/harvested acre.¹¹ Acreage information was found in the County and City Data Book.¹⁹ NOACA followed a similar procedure but derived acreage statistics based on information from the county conservation services.

Commercial/Consumer Solvent Use--

The per capita emission factor found in Procedures¹¹ and 1980 population data¹⁴ were used to calculate emissions.

On-Highway Mobile Sources

Emissions from highway mobile sources were inventoried separately for the following vehicle classes:

- Light-Duty Vehicles (LDV),
- Light-Duty Trucks less than 6000 lbs (LDT1),
- Light Duty Trucks between 6000 and 8500 lbs (LDT2),
- Heavy-Duty Gasoline-Powered Trucks (HDG),
- Heavy-Duty Diesel-Powered Trucks (HDD), and
- Motorcycles (MC).

Emission calculations were performed using the MOBILE2 emission factor model. Daily Vehicle Miles Traveled (VMT) were obtained from ODOT and distributed to 10 road categories based on Ohio's 1980 submission of U.S. DOT, Federal Highway Administration form TA-1. MOBILE2 was applied for each of the road categories using the parameter values reported in Tables 14 and 15 and assuming an ambient temperature of 75°F. The VMT and emissions were allocated to counties based on vehicle registration. NOACA did not perform calculations for these categories, thus, emissions for all 32 counties were calculated by GCA.

Stationary Source Fuel Combustion

Residential Coal Combustion--

To calculate residential use of coal, the following equation was used:

$$\begin{array}{l} \text{Tons of coal} \\ \text{per dwelling} = (13.874 \times 10^{-3}) \exp(7.6414 - (1000/\text{degree days})) . \\ \text{unit} \end{array}$$

where: degree days = (number of days the mean temperature is less than 65°F) x (difference in the temperature and 65°F).
The units are Day-F°.

TABLE 14. MOBILE2 VARIABLES USED FOR EACH ROAD TYPE

Road type	Allocated VMT	Vehicle speed	Percent		Percent	
			cold start non-catalytic	hot start catalytic	cold start catalytic	hot start catalytic
1. Federal-Aid Interstate Rural (Arterial)	20739	55	0	5	0	
2. Federal-Aid Interstate Urban (Arterial)	33696	54	15	10	15	
3. Federal-Aid Other Primary Rural (Arterial)	26643	45	30	15	30	
4. Federal-Aid Other Primary Urban (Arterial)	22019	45	40	20	40	
5. Federal-Aid Urban (Arterial)	20783	40	40	20	40	
6. Federal-Aid Urban (Collector)	13047	25	40	20	40	
7. Federal-Aid Secondary Rural (Collector)	20870	35	30	15	30	
8. Non-Federal-Aid Rural (Collector)	7025	35	30	15	30	
9. Non-Federal-Aid Rural (Local)	19609	30	40	20	40	
10. Non-Federal-Aid Urban (Local)	38562	20	30	15	30	

TABLE 15. PERCENT VMT BY VEHICLE CATEGORY FOR EACH ROAD TYPE
AS USED IN MOBILE2

Road type	LDV	LDT1	LDT2	HDG	HDD	MC
1. Federal-Aid Interstate Rural (Arterial)	0.795	0.015	0.015	0.040	0.130	0.005
2. Federal-Aid Interstate Urban (Arterial)	0.795	0.015	0.015	0.040	0.130	0.005
3. Federal-Aid Other Primary Rural (Arterial)	0.785	0.040	0.040	0.030	0.100	0.005
4. Federal-Aid Other Primary Urban (Arterial)	0.785	0.040	0.040	0.030	0.100	0.005
5. Federal-Aid Urban (Arterial)	0.795	0.075	0.075	0.020	0.030	0.005
6. Federal-Aid Urban (Collector)	0.785	0.040	0.040	0.030	0.100	0.005
7. Federal-Aid Secondary Rural (Collector)	0.795	0.075	0.075	0.020	0.030	0.005
8. Non-Federal-Aid Rural (Collector)	0.795	0.075	0.075	0.020	0.030	0.005
9. Non-Federal-Aid Rural (Local)	0.795	0.075	0.075	0.020	0.030	0.005
10. Non-Federal-Aid Urban (Local)	0.795	0.075	0.075	0.020	0.030	0.005

Degree days were found in Reference 20. The number of dwelling units using coal was determined from Reference 21. This figure was multiplied by the result of the above equation to estimate the amount of coal used per county. This total was allocated between anthracite and bituminous coal consumption using the following equations:

$$\begin{aligned} \text{Tons of anthracite} &= \left(\frac{\text{Tons of coal}}{\text{per county}} \right) \left(\frac{\text{RTA}}{\text{RTC}} \right) \\ \text{and} \\ \text{Tons of bituminous} &= \left(\frac{\text{Tons of coal}}{\text{per county}} \right) \left(\frac{\text{RTB}}{\text{RTC}} \right) \end{aligned}$$

where: RTA = residential tons of anthracite for state.
 RTB = residential tons of bituminous for state.
 RTC = RTA + RTB.

RTA and RTB were found in Reference 22.

NOACA calculated emissions using a different method. The NEDS Fuel Use Report²² was used to obtain a state total of coal usage by the residential sector by the type of coal. This usage was apportioned to the county level based on housing units. NOACA's estimates³ were utilized for the appropriate Cleveland area counties.

Residential Fuel Oil Combustion--

The following equation was used to calculate residential consumption of oil:

$$\text{Oil consumed} = [A(B)(8760 \text{ hr/yr})(C)] / (140,000 \text{ Btu/gal})$$

where: A = number of oil burners
 B = load factor
 C = average size of an oil burner (Btu/hr).

The data requirements were found in various sources. The number of oil burners was projected from the Census of Housing.²¹ The load factor is based on the design range which is the difference between the inside temperature and the ambient design temperature for the area and is calculated as:

$$\text{Load factor} = \frac{(\text{degree days})}{(365 \times \text{design range})}$$

Degree days were found in Local Climatology Data,²⁰ and the design range in Table A-4 of Reference 23.

The average size of an oil burner was estimated to be 100,000 Btu/hr. All oil used by the residential sector was assumed to be distillate.

The ODOE Energy Review²⁴ and the Petroleum Encyclopedia²⁵ were used to obtain state-wide figures for distillate and residual oil, respectively, by NOACA. Distribution to each sector was based on information found in the NEDS Fuel Use Report;²² while apportioning to counties was based on housing units.²¹ The NOACA county estimates were used for the appropriate counties in the NECRMP inventory.

Residential Natural Gas Combustion--

To calculate residential usage of natural gas, the following equation was used:

$$\text{Therms of natural gas} = (47.5) (B^{0.367}) \frac{C}{D}^{0.588} (E^{0.125})(A)$$

where: A = total number of gas customers.
 B = annual heating degree days (day-F°).
 C = number of dwelling units using natural gas for space heating.
 D = the larger of the number of dwelling units using natural gas for cooking or hot water heating.
 E = median number of rooms per dwelling unit.

GCA obtained B from Reference 20 and A, C, D, and E from References 21, 26 and 27.

Residential natural gas usage, reported in ODOE reports, was used by NOACA in their inventory.³ County emission estimates for the Cleveland area were based on this information, emission factors from AP-42,¹⁰ and the number of housing units.

Residential LPG Combustion--

To calculate residential consumption of liquefied petroleum gas (LPG), the following equation was used:

$$\text{Therms of LPG consumed} = (376 + 0.209B)(H) + (I)(J) + (K)(L)$$

where: B = annual heating degree days (day-F°).
 H = number of occupied dwelling units using LPG for space heating.
 I = regional average consumption for water heaters (therms).
 J = number of occupied dwelling units using LPG for water heating.
 K = regional average consumption for cook stoves (therms).
 L = number of occupied dwelling units using LPG for cooking.

GCA obtained B from Reference 20; H, J, and L from the Census of Housing;²¹ and I and K from Gas Facts.²⁷

The emissions reported for Cuyahoga, Lake, Lorain, and Medina Counties are based on NOACA's calculation on LPG usage reported in Sales of Liquefied Petroleum Gas and Ethane.²⁸ Housing units were used to apportion usage to the county level.

Residential Wood Combustion--

To calculate residential use of wood, the following equation was used:

$$\text{Consumption} = (1.7 \times 10^{-3}) (A)(B) \frac{C}{5}$$

tons/yr

where: A = number of housing units heating with wood.

B = heating degree days.

C = average rooms per housing unit.

The Census of Housing²¹ and Local Climatology Data²⁰ were used to obtain the housing and degree-day information, respectively.

NOACA did not calculate emissions from this category, and GCA's calculations verified that emissions from this category for the four Cleveland area counties, are insignificant.

Commercial/Institutional and Industrial Fuel Combustion--

Fuel totals for the State of Ohio were calculated based on the references listed in Table 16. Fuel total estimates for 1980 included all sectors: residential, commercial/institutional, and industrial. From these totals, the calculated fuel totals for the residential sector and the fuel totals found in the point source inventory were subtracted. The remaining fuel totals, after the subtraction, represented area source commercial/institutional and industrial fuel totals. These totals were apportioned to the two sectors based on the 1977 National Emissions Report.²⁹ Apportioning of the state fuel totals to the county level were based on commercial/institutional employment and industrial employment found in County Business Patterns.³⁰

TABLE 16. DATA SOURCES FOR COMMERCIAL/INSTITUTIONAL AND INDUSTRIAL FUEL CATEGORIES USED IN THE NECRMP ANNUAL EMISSION INVENTORY FOR OHIO

<u>Fuel</u>	<u>Data source</u>
Anthracite coal	EPA's <u>NEDS Fuel Use Report</u> ²²
Bituminous coal	DOE's <u>Bituminous and Subbituminous Coal and Lignite Distribution</u> ³²
Residual oil	API's <u>Basic Petroleum Data Book</u> ³¹
Distillate oil	API's <u>Basic Petroleum Data Book</u> ³¹
Natural Gas	AGA's <u>Gas Facts</u> ²⁷
LPG	DOE's <u>Sales of LPG and Ethane</u> ²⁸
Wood	EPA's <u>NEDS Fuel Use Report</u> ²²

Emission factors were found in the appropriate sections of AP-42.¹⁰

The methods used by NOACA for these categories were similar to those used for the NECRMP inventory, except for the data sources used. Table 17 lists NOACA's data sources. A large discrepancy occurred in the emissions computed by GCA and those used by NOACA for Industrial Bituminous (GCA's calculations were greater by more than an order of magnitude). NOACA used both the industrial point and area bituminous use reported in NEDS Fuel Use Report.²² Thus, electric generation bituminous use was excluded from the NOACA calculations. However, when balancing this category with the Ohio point source inventory, GCA subtracted all point source use including electric generation fuel use. Therefore, GCA's calculations were used for all 32 counties for Industrial Bituminous emissions.

TABLE 17. DATA SOURCES FOR COMMERCIAL/INSTITUTIONAL AND INDUSTRIAL FUEL CATEGORIES IN THE NOACA INVENTORY

Fuel	Data source
Anthracite coal	EPA's <u>NEDS Fuel Use Report</u> ²²
Bituminous coal	EPA's <u>NEDS Fuel Use Report</u> ²²
Residual oil	<u>Petroleum Encyclopedia</u> ²⁵
Distillate oil	<u>ODOE Energy Review</u> ²⁴
Natural gas	ODOE Reports
LPG	DOE's <u>Sales of LPG and Ethane</u> ²⁸
Wood	Not included in the NOACA inventory

Nonhighway Mobile Sources

Aircraft--

Emissions were estimated based on the number of Landing and Takeoff Cycles (LTOs) performed at airports, airbases, and airstrips within the study area and emission factors from Section 3.2-1 of AP-42.¹⁰

Data published by the FAA^{33,34,35} were used to obtain LTO information. Emissions were calculated separately for civil, commercial, and military aircraft, using composite emission factors supplied by EPA/NADB.³⁶ The only military airfields in the study area are operated by the Air Force, which publishes LTO data in the Air Force Air Traffic Control Operations Report.³⁷

NOACA's methodology was similar, with the exception that civil aircraft types were inventoried separately, and individual factor applied while GCA's methodology employs a composite emission factor of 0.41 lb/LTO for VOC and 0.028 lb/LTO for NO_x.

Railroads--

State railroad distillate and residential fuel oil consumption data were found in Energy Data Reports "Sales of Fuel Oil and Kerosene."³⁸ Emission factors were obtained from Table 3.2.2-1 of AP-42.¹⁰

Emissions were apportioned to the county level based on miles of track. Miles of track statewide were found in Railroad Mileage by States.³⁹ Miles of track within each county were measured from State Transportation Maps.⁴⁰ Any county with significant known railyard activity had its mileage of track doubled in the apportionment calculations. NOACA³ used population to allocate county track mileage in the Cleveland area.

Vessels--

Separate methods were used to calculate emissions from vessels based on fuel type. The status of the vessel, whether in-port or underway, was also a consideration in emissions calculations.

Gasoline Powered Vessels--This category includes pleasure craft powered by outboard or inboard motors. Statewide gasoline use was estimated as follows. Boat registration data were obtained from Ohio Department of Natural Resources. Registration statistics were translated into fuel consumption using the following equations:

$$\text{Inboard gasoline Consumption (gal/yr)} = \left(\text{Number of inboard registrations} \right) (3 \text{ gal/hr}) (10 \text{ hr/yr}) (C)$$

$$\text{Outboard gasoline Consumption (gal/yr)} = \left(\text{Number of outboard registrations} \right) (1.5 \text{ gal/hr}) (10 \text{ hr/yr}) (C)$$

where C = the number of months during which the monthly mean temperature exceeds 48°F:

Emissions were calculated using Table 3.2.3-5 and 3.2.4-1 from AP-42.¹⁰

NOACA used The Guide to Boating Facilities on the Ohio Segment of Lake Erie⁴¹ and an average gasoline consumption estimate based on the size of the boat to derive fuel usage. NOACA assumed that Medina county would not have significant emissions in this category since there are no large bodies of water in that county. NOACA's estimates were used for the appropriate counties in the NECRMP inventory.

Fuel Oil Powered Vessels--This category includes large cargo ships, passenger ships, oil tankers, steamships, motorships, and tugboats. Emissions were based on vessel consumption and average emission factors in AP-42.¹⁰ Fuel use was based on vessel movement data⁴² and fuel sales data, as follows.³⁸

In-Port Fuel Use--The number of vessels entering each port by type and size was obtained from Reference 42. Assuming only vessels with a draft greater than 18 feet consume fuel dockside, in-port fuel use was calculated as follows:

1. Multiply the number of vessels using fuel dockside by the number of days spent in-port. (Three days per vessel was used to obtain total number of vessel-days in-port.)
2. Determine the fraction of dockside fuel use attributable to distillate oil and residual oil using the following expressions, assuming that 600 and 1900 gal/day are used dockside by distillate and residual oil-fired vessels respectively.

Theoretical maximum distillate oil vessel days =

$$\frac{\text{Total distillate oil sold to vessels (gal)}}{600 \text{ gal/day}}$$

Theoretical maximum residual oil vessel days =

$$\frac{\text{Total residual oil sold to vessels (gal)}}{1900 \text{ gal/day}}$$

Then:

Fraction distillate oil vessel days =

$$\frac{(\text{Theoretical maximum distillate oil vessel days})}{\text{Theoretical maximum distillate oil vessel days} + \text{Theoretical maximum residual oil vessel days}}$$

and

$$\text{Fraction residual oil vessel days} = 1.00 - \text{fraction distillate oil vessel-days}$$

3. Multiply the fraction of distillate oil days and residual oil days from the above equations by the total number of in-port vessel-days obtained above to determine the number of distillate oil and residual oil vessel-days, respectively.
4. Calculate in-port fuel consumption using the following equations:

In-port distillate oil consumed =

$$(\text{distillate vessel-days}) (600 \text{ gal/vessel-day})$$

In-port residual oil consumed =

$$(\text{residual vessel-days}) (1900 \text{ gal/vessel day})$$

Underway Fuel Use--Underway emissions were calculated for diesel fuel use only. Vessels using residual oil also have underway emissions, which are approximately accounted for when emissions for vessels using diesel fuel are calculated by the technique described below.

The sum for all ports of the in-port diesel fuel consumption was subtracted from the state total for distillate oil consumption by vessels as given by Reference 38. The remaining fuel was distributed to counties based on the tonnage handled by all ports in each county from Reference 42. In cases where a waterway borders more than one county, fuel use, and thus emissions, were distributed equally between counties. In instances where a waterway such as a river passes by or through a series of counties, emissions were distributed to the counties on the basis of shoreline mileage along the waterway.

Emissions from fuel oil powered vessels were calculated using the factors presented in Chapter 3 of AP-42.¹⁰

Off-Highway Vehicles-Gas--

Off-highway gasoline usage was found in Highway Statistics,¹² Table MF-24. Gas totals were given for agriculture, industrial, construction, and miscellaneous uses. The assumption was made that miscellaneous uses included off-highway motorcycle and lawn and garden equipment uses. The distribution of the miscellaneous gas total to these two uses was based on information found in the Procedures.¹¹ Emission factors for agriculture, industrial, lawn and garden, and off-highway motorcycle gasoline uses were found in the appropriate sections of AP-42. The construction equipment emission factor was found in Procedures for Emission Inventory Preparation.⁴³ The emissions were apportioned to counties separately for agricultural, industrial, construction, and miscellaneous usages based on farm acreage, industrial employment, construction employment, and population, respectively. NOACA³ followed Procedures for the Preparation of Emission Inventories for Volatile Organic Compounds - Volume I, Second Edition¹¹ and its estimates were used for Cuyahoga, Lake, Lorain, and Medina Counties in the NECRMP inventory.

Off-Highway Vehicles-Diesel--

Off-highway diesel usage for the state of Ohio was found in the EPA's NEDS Fuel Use Report.²⁰ Off-highway diesel usage has three components: construction, industrial, and agricultural usages. The relative percentage of the total off-highway diesel usage of these three components were found from information given in the Procedures.¹¹ Emission factors for industrial and agricultural diesel usages were found in AP-42; construction diesel usage emission factor was found in Procedures for Emission Inventory Preparation.⁴³ County apportionment factors were developed in a similar manner as were those for the off-highway gasoline category. The NOACA inventory,³ whose estimates are used in the NECRMP inventory, calculated emissions based on Procedures for the Preparation of Emission Inventories for Volatile Organic Compounds - Volume I, Second Edition.¹¹

Other Area Sources

Onsite Incineration--

Waste generation estimates were based on county population and the number of industrial employees. The waste generation averages shown in Table 18 were obtained by NOACA³ from EPA Region V. Emission factors were obtained from AP-42.¹⁰

TABLE 18. UPDATED WASTE GENERATION FACTORS TO ESTIMATE TONS OF SOLID WASTE INCINERATED IN EPA REGION V

Residential (tons/1000 population/yr)	Commercial/ Institutional (tons/1000 population/yr)	Industrial (tons/1000 mfg employees/yr)
55	49	313

Source: Reference 3.

Open Burning--

The waste generation factors listed in Table 19 were used to estimate the quantity of solid waste generated. Those figures were multiplied by the appropriate emission factors from AP-42 to estimate, emissions for each county. Telephone contacts with a number of local Air Pollution Control Agencies⁴⁴ failed to produce better estimates.

TABLE 19. FACTORS TO ESTIMATE TONS OF SOLID WASTE DISPOSAL THROUGH OPEN BURNING

	Residential (tons/1000 population/yr)	Commercial/ Institutional (tons/1000 population/yr)	Industrial (tons/1000 mfg employees/yr)
National average	450 ^a	24 ^a	160

Source: Reference 11.

^aFor urban population only. Open burning assumed banned in urban areas.

Forest Fires--

The State Department of Natural Resources provided the number of forest fires and acreage burned during 1980. Emissions and fuel loading factors were obtained from Section 11.1 of AP-42. Emissions were estimated by multiplying the emission factor, fuel loading factor, and the acreage burned. NOACA did not estimate emissions from this category; therefore GCA estimates were used for the counties of Cuyahoga, Lake, Lorain, and Medina.

Slash Burning and Agricultural Field Burning--

After several contacts with various state agencies, it was determined that no readily available information exists on the acres that are slash and field burned in the State of Ohio. Emissions from this category were therefore assumed to be negligible for the State of Ohio. NOACA also omitted this category.

Structural Fires--

The State Fire Marshall's office provided the number of fires per county. Average emission factors, per structural fire, were obtained from EPA/NADB.⁴⁵

COMPARISON OF GCA AND NOACA RESULTS

GCA also calculated area source emissions for the four NOACA counties to determine if the different methods used by NOACA for certain categories would result in significant differences in emissions. The results of this comparison appear in Table 20 which shows the emissions calculated by both GCA and NOACA for each area source category. A ratio of the sum of all four counties' emissions as calculated by GCA divided by the sum of emissions as calculated by NOACA is included as an indicator of comparison for each category. If this ratio is nearly equal to 1.0, the calculation differences are small. A sum over all counties was used for this ratio so that differences in distributing emissions to the different counties were smoothed out and the ratio indicates primarily differences in methodology. All emissions shown in Table 20 reflect calculations before any balancing with point sources was done.

As shown in Table 20, the largest differences in emissions occurred from commercial/institutional and industrial fuel use. This is primarily related to the inclusion of electric generation fuel use in the GCA methodology. Since this fuel use is entirely accounted for in the point source inventory, the differences, after balancing total fuel use with the point source inventory, are lessened considerably.

As discussed previously, the NOACA calculations were used in the NECRMP inventory for the appropriate Cleveland area counties. Exceptions have been noted above and are summarized, as follows.

Nine area source categories were not covered in the NOACA inventory, therefore, the GCA estimates were used. These categories are:

- Small Industrial Surface Coating (09)
- On-Highway Light Duty Vehicles (14)

TABLE 20. COMPARISON OF GCA AND NOACA AREA SOURCE EMISSION CALCULATIONS
FOR THE FOUR CLEVELAND AREA COUNTIES

Category	Pollutant	Cuyahoga		Lake		Lorain		Medina		GCA total	NOACA total
		GCA	NOACA	GCA	NOACA	GCA	NOACA	GCA	NOACA	----	----
01 Tank truck unloading	VOC	3,069	3,294	500	436	634	475	274	218	1.01	1.01
02 Vehicle refueling	VOC	3,527	3,765	574	538	728	538	315	269	1.01	1.01
03 Tank breathing	VOC	368	388	60	55	76	55	33	28	1.02	1.02
04 Tank truck transit	VOC	2,525	82	411	12	521	12	226	6	19.25	19.25
05 Degreasing	VOC	5,686	4,028	808	509	1,043	405	429	212	1.55	1.55
06 Drycleaning	VOC	1,124	1,366	160	154	206	183	85	54	0.90	0.90
07 Architectural surface coating	VOC	3,446	3,446	489	589	632	632	260	260	1.00	1.00
08 Auto refinishing	VOC	1,423	1,015	202	272	261	312	107	117	1.16	1.16
09 Small industrial surface coat.	VOC	7,310	--	1,038	--	1,343	--	553	--	--	--
10 Graphic arts	VOC	599	959	85	41	110	55	45	38	0.77	0.77
11 Commercial/consumer solvent use	VOC	4,720	4,720	670	670	866	866	356	356	1.00	1.00
12 Outback asphalt	VOC	5,150	3,155	731	118	945	360	389	378	1.80	1.80
13 Pesticide application	VOC	8	15	23	47	179	264	119	175	0.66	0.66
14-											
19 On Highway											
20 Res. anthracite	VOC	1	3	4	0	0	1	0	0	--	--
	NOx	1	4	9	0	0	1	0	0	--	--
21 Res. bituminous	VOC	30	0	0	0	11	0	11	0	--	--
	NOx	60	0	0	0	21	0	21	0	--	--
22 Res. residual oil	VOC	0	0	0	0	0	0	0	0	--	--
	NOx	0	0	0	0	0	0	0	0	--	--
23 Res. distillate oil	VOC	8	53	11	7	4	9	6	3	0.40	0.40
	NOx	150	955	200	121	75	154	101	61	0.41	0.41
24 Res. natural gas	VOC	213	77	31	10	39	12	17	5	2.88	2.88
	NOx	2,126	772	306	197	395	125	166	50	2.62	2.62
25 Res. LPG	VOC	3	4	0	1	1	1	1	0	0.83	0.83
	NOx	32	4	4	1	15	1	5	0	9.33	9.33
26 Res. wood	VOC	0	--	0	--	0	--	0	--	--	--
	NOx	0	--	0	--	0	--	0	--	--	--
27 C/I anthracite	VOC	0	0	0	0	0	0	0	0	--	--
	NOx	14	48	1	7	1	9	0	4	0.24	0.24
28 C/I bituminous	VOC	0	0	0	0	0	0	0	0	--	--
	NOx	0	0	0	0	0	0	0	0	--	--
29 C/I residual oil	VOC	27	4	2	1	3	1	1	0	5.5	5.5
	NOx	1,600	255	129	36	155	47	57	19	5.4	5.4
30 C/I distillate oil	VOC	0	0	0	0	0	0	0	0	--	--
	NOx	0	8	0	1	0	1	0	1	--	--
31 C/I natural gas	VOC	250	32	18	4	22	6	7	2	6.75	6.75
	NOx	3,755	474	271	67	327	87	106	36	6.72	6.72

NOACA performed no calculations

TABLE 20 (continued)

Category	Pollutant	Cuyahoga		Lake		Lorain		Medina		GCA total	
		GCA	NOACA	GCA	NOACA	GCA	NOACA	GCA	NOACA	NOACA	total
32 C/I LPG	VOC	0	4	0	0	1	0	0	0	0	--
33 C/I wood/other	NO _x	0	56	0	0	0	0	0	0	4	--
	VOC	0	--	0	--	0	0	0	--	--	--
	NO _x	0	--	0	--	0	0	0	--	--	--
34 Industrial anthracite	VOC	0	0	0	0	0	0	0	0	0	--
35 Industrial bituminous	NO _x	2	0	0	0	0	0	0	0	0	--
	VOC	5,959	541	647	63	1,051	97	222	19	10.9	10.9
36 Industrial residual oil	NO _x	89,386	8,115	9,703	951	15,768	1,462	3,333	290	10.9	10.9
	VOC	28	21	4	2	3	4	1	1	1.29	1.29
37 Industrial distillate oil	NO _x	1,699	1,237	215	145	192	229	67	44	1.31	1.31
	VOC	132	9	17	0	25	2	6	0	16.36	16.36
38 Industrial natural gas	NO _x	2,911	208	374	24	544	38	121	7	14.26	14.26
	VOC	64	63	8	7	8	11	2	2	0.99	0.99
39 Industrial LPG	NO _x	3,747	3,669	475	430	459	661	131	131	0.98	0.98
	VOC	4	1	0	0	1	0	0	0	5.00	5.00
40 Industrial wood/other	NO _x	162	38	19	4	28	7	6	1	4.30	4.30
	VOC	0	--	0	--	0	--	0	--	--	--
41 Military aircraft	NO _x	0	--	0	--	0	--	0	--	--	--
	VOC	48	0	0	0	0	0	0	0	0	--
42 Civil aircraft	NO _x	16	0	0	0	0	0	0	0	0	--
	VOC	68	140	13	15	16	24	15	14	0.58	0.58
43 Commercial aircraft	NO _x	5	51	1	2	1	8	1	2	0.13	0.13
	VOC	892	2,106	0	0	0	0	0	0	0.42	0.42
44 Railroads	NO _x	783	1,665	0	0	0	0	0	0	0.47	0.47
	VOC	288	1,226	96	174	223	225	110	93	0.42	0.42
45 Vessels--gas	NO _x	1,132	4,827	377	686	878	886	432	365	0.42	0.42
	VOC	510	625	141	3,692	160	2,174	67	0	0.14	0.14
46 Vessels--distillate oil	NO _x	24	590	7	889	7	136	3	0	0.03	0.03
	VOC	39	44	23	5	22	16	0	0	1.29	1.29
47 Vessels--residual oil	NO _x	171	195	99	22	97	73	0	0	1.27	1.27
	VOC	2	6	0	1	1	2	0	0	0.33	0.33
48 Off-highway gas	NO _x	59	73	8	8	25	27	0	0	0.85	0.85
	VOC	1,063	1,691	147	282	208	456	92	291	0.56	0.56
49 Off-highway diesel	NO _x	149	707	20	153	43	271	24	153	0.18	0.18
	VOC	447	501	53	75	71	136	34	80	0.76	0.76
	NO _x	5,591	4,735	654	941	784	848	338	649	1.03	1.03

(continued)

TABLE 20 (continued)

Category	Pollutant	Cuyahoga		Lake		Lorain		Medina		GCA total
		GCA	NOACA	GCA	NOACA	GCA	NOACA	GCA	NOACA	
50 On-site incineration	VOC	4,285	743	598	97	785	136	307	43	5.86
	NOx	265	266	36	36	49	49	16	17	0.99
51 Open burning	VOC	10,848	1,102	1,528	409	1,990	651	798	472	5.76
	NOx	2,065	183	290	65	379	34	152	107	7.42
52 Structural fires	VOC	205	--	17	--	27	--	11	--	--
	NOx	33	--	3	--	4	--	2	--	--
53 Field/slash burning	VOC	0	--	0	--	0	--	0	--	--
	NOx	0	--	0	--	0	--	0	--	--
54 Forest fires	VOC	2	--	1	--	2	--	2	--	--
	NOx	0	--	0	--	0	--	0	--	--

- On-Highway Light Duty Trucks--Class I (15)
- On-Highway Light Duty Trucks--Class II (16)
- On-Highway Heavy Duty Gas Trucks (17)
- On-Highway Heavy Duty Diesel Trucks (18)
- On-Highway Motocycles (19)
- Structural Fires (52)
- Forest Fires (54)

For Tank Truck Loading and Transit (04), the NOACA estimates did not account for the transit component of the category. To maintain consistency with the other Ohio counties, the GCA estimates were used.

In calculating Industrial Bituminous (35) emissions, NOACA used only the industrial component as reported in NEDS Fuel Use¹² and did not include the coal used in electric generation. However, the methodology being used by GCA for "balancing" this category entailed subtracting all point source bituminous use in both industrial and electric generation sources. To maintain consistency with the other Ohio counties, the GCA calculations were used for this category.

DEVELOPMENT OF EIS/AS MASTER FILE

Once the area source emission calculations had been finalized for all categories in all counties and the NOACA emission estimates incorporated, the information was coded into EIS/AS format and keypunched. The data were then subjected to the series of computerized quality assurance checks included in the EIS/AS package.² All errors identified were corrected and an EIS/AS Master File created. The completed Master File was manually verified before the finalized data were written onto computer tape for delivery to EPA.

RESULTS

Statewide totals of 1980 VOC and NO_x emissions from area sources in the NECRMP area of Ohio are provided in Table 21. County summaries of area source emissions are presented in Appendix B.

TABLE 21. TOTAL AREA SOURCE HC AND NO_x EMISSIONS BY CATEGORY FOR THE 32 COUNTIES OF OHIO IN THE NECRMP STUDY AREA

CC / TECHNOLOGY DIVISION
AREA SOURCE EMISSIONS FILE SUMMARY
FOR OHIO

STATE SUMMARY

CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RATE	UNITS	POLLUTANT I.D.	EMISSION FACTOR	EMISSIONS ESTIMATE
001	STAGE I GASOLINE EVAP	2117535	THOUS GAL	NOX VOC		0 13041
002	STAGE II GASOLINE EVAP	3004942	THOUS GAL	NOX VOC		0 15015
003	STORAGE TANK EVAPORATION	3117535	THOUS GAL	NOX VOC		0 1559
004	GASOLINE LOADING/TRANSIT	2619331	THOUS GAL	NOX VOC		0 5701
005	SM INDUSTRY DEGREASING	0 ^a *****		NOX VOC		0 18525
006	DRY CLEANING	0 ^a *****		NOX VOC		0 4573
007	ARCH SURFACE COATING	5854665	POPULATION	NOX VOC		0 13465
008	AUTO BODY REFINISHING	5854665	POPULATION	NOX VOC		0 5284
009	SM WOOD SURFACE COATING	48619	TSP	NOX VOC		0 28564
010	PAINTS	5854665	POPULATION	NOX VOC		0 2342
011	COM/CONS SOLVENT USE	5854665	POPULATION	NOX VOC		0 18443
012	OUTDOOR REFRIG	83780	TON	NOX VOC		0 16516
013	PESTICIDES	184326P	ACFL	NOX VOC		0 3223

TABLE 21 (continued)

GLA / TECHNOLOGY DIVISION
APLA SOURCE MASTER FILE SUMMARY
FOR CHIO

STATE SUMMARY

CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RATE	UNITS	POLLUTANT EMISSION F.D.	EMISSIONS ESTIMATE
014	ON-HIGHWAY LDV	30342112	T-CUS VMT	NOX VOC	116666 115028
015	ON-HIGHWAY LGT1	1543107	T-CUS VMT	NOX VOC	8003 8329
016	ON-HIGHWAY LGT2	1943107	T-CUS VMT	NOX VOC	9216 9337
017	ON-HIGHWAY HDG	1060359	T-CUS VMT	NOX VOC	13732 10439
018	ON-HIGHWAY HDG	2829549	T-CUS VMT	NOX VOC	83319 7472
019	ON-HIGHWAY PC	191752	T-CUS VMT	NOX VOC	128 1289
020	RESIDENTIAL ANTHRACITE	402450	T-CUS	NOX VOC	635 527
023	RESIDENTIAL DISTILLATE	399893	T-CUS GAL	NOX VOC	3598 204
024	RESIDENTIAL NATURAL GAS	189267	MIL CU FT	NOX VOC	7571 759
025	RESIDENTIAL LPG	66215	T-CUS GAL	NOX VOC	192 25
026	RESIDENTIAL WOOD	100435	T-CUS	NOX VOC	50 252
027	COMM/INST ANTHRACITE	7398	T-CUS	NOX VOC	68 2
029	COMM/INST RESIDUAL OIL	175067	T-CUS GAL	NOX VOC	3153 52

TABLE 21 (continued)

CC: / TECHNOLOGY DIVISIC"
AREA SOURCE MASTER FILE SUMMARY
FOR DJ-10

STATE SUMMARY

CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RATE	UNITS	POLLUTANT EMISSION I.G.	EMISSIONS ESTIMATE
030	COMBUST DISTILLATE	851 THOUS GAL		NOX VOC	5 0
031	COMBUST NATURAL GAS	114460 MIL CU FT		NOX VOC	6467 457
032	COMBUST LPG	14379 THOUS GAL		NOX VOC	78 6
033	INDUSTRIAL BITUMINOUS	14398432 TOL		NOX VOC	107988 7290
036	INDUSTRIAL RESIDUAL OIL	85434 THOUS GAL		NOX VOC	2565 41
037	INDUSTRIAL DISTILLATE OIL	502030 THOUS GAL		NOX VOC	5742 261
038	INDUSTRIAL NATURAL GAS	107501 MIL CU FT		NOX VOC	9413 163
039	INDUSTRIAL LPG	54179 THOUS GAL		NOX VOC	372 7
041	MILITARY AIRCRAFT	51495 LND/TAKE OFF		NOX VOC	236 694
042	CIVIL AIRCRAFT	1778326 LND/TAKE OFF		NOX VOC	78 445
043	COMMERCIAL AIRCRAFT	163866 LND/TAKE OFF		NOX VOC	2265 2063
044	RAILROAD LOCOMOTIVES	170121 THOUS GAL		NOX VOC	14523 4706
045	VESSELS - GASOLINE	17945 THOUS GAL		NOX VOC	1751 9335

TABLE 21 (continued)

GOV. / TECHNOLOGY DIVISION,
AREA SOURCE MASTER FILE SUMMARY
FOR 2010

STATE SUMMARY							
CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RATE	UNITS	POLLUTANT I.U.	EMISSION FACTOR	EMISSIONS ESTIMATE	
046	VESSELS - DISTILLATE OIL	3891 THOUS GAL		NOX VOC		514 107	
047	VESSELS, - RESIDUAL OIL	8795 THOUS GAL		NOX VOC		199 11	
048	OFF-HIGHWAY VEHICLES-GAS	34882 THOUS GT		NOX VOC		2865 5772	
049	OFF-HIGHWAY VEH - DIESEL	117314 THOUS GAL		NOX VOC		28500 2750	
050	ON-SITE INCINERATION	841922 TON		NOX VOC		913 11243	
051	ONCE BURNING	2334613 TON		NOX VOC		5497 29446	
052	STRUCTURAL FIRES	12901 FIRPS		NOX VOC		107 684	
054	FOREST FIRE	3976 ACRE		NOX VOC		82 517	
STATE REGION TOTALS				NOX VOC		432098 379588	

^a Process rate and units not included. The units for the NOACA calculations differed from those used for the other counties.

SECTION 5

REFERENCES

1. McMaster, Larry M. Emission Inventory System/Point Source Users Guide. EPA-450/4-80-010. May 1980.
2. McMaster, Larry M. Emission Inventory System/Area Source Users Guide. EPA-450/4-80-009. May 1980.
3. VOC/NO_x Area Source Inventory Report for Cuyahoga, Lake, Lorain, and Medina Counties, Northeast Ohio Areawide Coordinating Agency, September 1981.
4. EIS: Point Source Guidebook, Division of Technical Support Operations, Ohio Environmental Protection Agency, April 1977.
5. Conversion Chart, Ohio EPA's Emission Inventory System (EIS) to the National Emissions Data System (NEDS), Ohio Environmental Protection Agency, August 1979.
6. Klemm, H. A. and R. J. Brennan. Emissions Inventory for the SURE Region. GCA/Technology Division, Bedford, MA for the Electric Power Research Institute. EPRI EA-1913. April 1981.
7. Directory of Volatile Organic Compound (VOC) Sources Covered by Reasonably Available Control Technology (RACT) Requirements. EPA-450/4-81-007a,b,c. February 1981.
8. AEROS Manual Series, Volume II: AEROS User's Manual. EPA-450/2-76-029. U.S. Environmental Protection Agency, Research Triangle Park, N.C. December 1976.
9. Sellars, F. M., M. J. Geraghty, A. M. Kiddie, B. J. Bosy and S. V. Capone. Northeast Corridor Regional Modeling Project--Annual Emission Inventory. Volume I: Project Approach. GCA/Technology Division, Bedford, MA for the U.S. Environmental Protection Agency. EPA-450/4-82-013a. August 1982.
10. Compilation of Air Pollutant Emission Factors, AP-42 3rd Edition and subsequent supplements, U.S. Environmental Protection Agency, Research Triangle Park, NC, August 1977.

11. Procedures for the Preparation of Emission Inventories for Volatile Organic Compounds, Volume I--Second Edition, EPA-450/2-77-028, U.S. Environmental Protection Agency, Research Triangle Park, NC, September 1980.
12. Highway Statistics, U.S. Department of Transportation, Federal Highway Administration, Washington, D.C. Annual publication.
13. Written communication from Stanley L. Shriver, Ohio Department of Taxation, to Robert Green, GCA Corporation, July 1981.
14. Census of Population, Bureau of the Census, U.S. Department of Commerce, Washington, D.C., Decennial publication, 1980.
15. Emission Inventory/Factor Workshop, Volume II, EPA-450/3-78-042b, U.S. Environmental Protection Agency, Research Triangle Park, NC, May 1978.
16. Sales Survey, National Paint and Coating Association, Washington, DC, annual publication.
17. Telephone communication between ODOT, Departments of Maintenance, Construction, Labs, Purchasing, and Robert Green, GCA Corporation, November 1981.
18. Energy Data Report "Sales of Asphalt in 1980". U.S. Department of Energy, Energy Information Administration. Annual publication.
19. County and City Data Book. U.S. Department of Commerce. 1977.
20. Local Climatological Data: Annual Summary with Comparative Data, U.S. Department of Commerce, Washington, DC. Annual publication.
21. 1970 Census of Housing, "Detailed Housing Characteristics," HC-B Series, Bureau of the Census, U.S. Department of Commerce, Washington, DC, 1970.
22. 1978 National Emissions Data System (NEDS) Fuel Use Report, Monitoring and Data Analysis Division, U.S. Environmental Protection Agency, Research Triangle Park, NC, October 1980.
23. Systematic Study of Air Pollution from Intermediate-Size Fossil-Fuel Combustion Equipment, Walden Research Corporation, Cambridge, MA, July 1971.
24. "Ohio Energy Data: First Through Fourth Quarter Reviews, 1980"; Ohio Department of Energy, Columbus, Ohio, 1980.
25. Petroleum Encyclopedia referenced in the NOACA Area Source Inventory (Reference 7).

26. 1970 Census of Housing, "Advance Report," Series HC-(V1), Bureau of the Census, U.S. Department of Commerce, Washington, DC, 1971.
27. Gas Facts, American Gas Association, Arlington, VA, 1980.
28. Energy Data Reports, "Sales of LPG and Ethane," U.S. Dept. of Energy, Washington, DC, Annual publication.
29. 1977 National Emissions Report, EPA-450/1-80-005, U.S. Environmental Protection Agency, Research Triangle Park, NC, March 1980.
30. County Business Patterns, U.S. Department of Commerce, Bureau of the Census, Washington, DC, Annual publication, 1978.
31. Basic Petroleum Data Book, American Petroleum Institute, Washington, DC, 1981.
32. Coal - Bituminous and Subbituminous Coal and Lignite Distribution, Energy Data Reports, Energy Information, U.S. Department of Energy, Washington, DC.
33. FAA Air Traffic Activity, Federal Aviation Administration, U.S. Department of Transportation, Washington, DC, 1970.
34. Census of U.S. Civil Aircraft, Federal Aviation Administration, U.S. Department of Transportation, Washington, DC, 1970.
35. Airport Activity Statistics for Certified Route Air Carriers, Federal Aviation Administration, U.S. Department of Transportation, Washington, DC. Annual publication.
36. Mann, Charles O. EPA/OAQPS--NADB. Personal communication with Frederick M. Sellars, GCA/Technology Division. March 10, 1981.
37. Air Traffic Control Operations Report 1980, U.S. Air Force, Scott Air Force Base, Illinois.
38. Energy Data Reports, "Sales of Fuel Oil and Kerosene," Energy Information Administration, U.S. Department of the Energy, Washington, DC. Annual publication.
39. Railroad Mileage by States, Association of American Railroads, Washington, DC, December 1978.
40. State Transportation Maps, Federal Railroad Administration-DOT, Washington, DC, GPO Stock No. 050-005-00020-8, 1977.
41. "Guide to Boating Facilities on the Ohio Segment of Lake Erie;" Cooperative Extension Service and Division of Parks and Recreation School of Natural Resources, The Ohio State University; June 1978.

42. Waterborne Commerce of the United States, Corps. of Engineers, U.S. Department of the Army, New Orleans, LA, 1970.
43. Procedures for Emission Inventory Preparation - Volume III: Area Sources. EPA-450/4-81-026c. September 1981.
44. Telephone communications with Regional Air Pollution Control Districts (APCD) by Robert Green, GCA Corporation, November 1981.
45. Mann, Charles O. EPA/OAQPS - NADB, Personal Communication with Frederick M. Sellars, GCA/Technology Division. March 4, 1981.

APPENDIX A

POINT SOURCE EMISSIONS BY CATEGORY FOR THE OHIO NECRMP COUNTIES

Table A-1 presents point source emissions, by category, for each of the Ohio counties included in the NECRMP study area, which are identified below.

County	NEDS/EIS County code
Ashtabula	0220
Athens	0260
Belmont	0540
Carroll	1040
Columbiana	1440
Coshocton	1520
Cuyahoga	1600
Fairfield	2080
Franklin	2220
Geauga	2380
Guernsey	2680
Harrison	2800
Holmes	2960
Jefferson	3160
Lake	3280
Licking	3440
Lorain	3640
Mahoning	3820
Medina	4160
Meigs	4180
Monroe	4460
Morgan	4540
Muskingum	4640
Noble	4900
Perry	5440
Portage	5580
Stark	6400
Summit	6500
Trumbull	6700
Tuscarawas	6720
Washington	7100
Wayne	7160

TABLE A-1. POINT SOURCE EMISSIONS BY CATEGORY FOR EACH OF THE
32 NECRMP OHIO COUNTIES

SCA / TECHNOLOGY DIVISION
OHIO 1980 INVENTORY

COUNTY:0220

CATEGORY	POINT COUNT	----- PRIMARY SCC EMISSIONS (TONS/YEAR) -----				
		TSP	SO2	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	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	1	3	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	3	39	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 SER 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	4	108	0	0	0	0
32 PRIMARY & SECONDARY METALS & ELECTRICAL	7	134	0	0	0	0
33 FABRICATED METAL PRODUCTS	1	0	0	0	15	0
34 IN-PROCESS FUEL USE	3	0	0	0	44	0
35 OTHERS - (INDUSTRIAL PROCESSES)	4	6	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	1	0	0	0	35	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	5	0	0	0	127	0
50 OTHERS - (INDUSTRIAL SURFACE COATING)	1	0	0	0	554	0

TABLE A-1 (continued)

SCA / TECHNOLOGY DIVISION
OHIO 1980 INVENTORY

COUNTY:0220

CATEGORY	POINT COUNT	----- PRIMARY SCC EMISSIONS (TONS/YEAR) -----				
		TSP	SO2	NOX	HC	CO
51 DEGREASING	2	0	0	0	80	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 COATINGS)	0	0	0	0	0	0
58 EXT. COMB. BOILERS-ELEC. GENERATION	11	2704	70638	8991	151	498
59 EXT. COMB. BOILERS-INDUSTRIAL	0	0	0	0	0	0
60 EXT. COMB. BOILERS-COMM/INST	0	0	0	0	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		2994	70638	8991	1005	498

TABLE A-1 (continued)

GCA / TECHNOLOGY DIVISION
OHIO 1980 INVENTORY

COUNTY:0260

CATEGORY	POINT COUNT	EMISSIONS (TONS/YEAR)				
		PRIMARY TSP	SCC SO2	NOX	HC	CU
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 SER 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	4	174	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	0	0	0	0	0	0
50 OTHERS - (INDUSTRIAL SURFACE COATING)	0	0	0	0	0	0

TABLE A-1 (continued)

GCA / TECHNOLOGY DIVISION
OHIO 1980 INVENTORY

COUNTY:0260

CATEGORY	POINT COUNT	----- PRIMARY SCC EMISSIONS (TONS/YEAR) -----				
		TSP	SO2	NOX	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	4	385	32222	4113	67	227
59 EXT. COMB. BOILERS-INDUSTRIAL	0	0	0	0	0	0
60 EXT. COMB. BOILERS-CUMM/INST	5	221	1627	273	17	35
61 EXT. COMB. SPACE HEATERS-INDUST.	0	0	0	0	0	0
62 EXT. COMB. SPACE HEATERS-CUMM.	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-CUMM/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		780	33849	4366	84	262

TABLE A-1 (continued)

GCA / TECHNOLOGY DIVISION
OHIO 1980 INVENTORY

COUNTY:0540

CATEGORY	POINT COUNT	----- PRIMARY SCC EMISSIONS (TONS/YEAR) -----				
		TSP	SO2	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	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	1	2	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	3	132	0	0	0	0
32 PRIMARY & SECONDARY METALS & ELECTRICAL	4	58	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)

GCA / TECHNOLOGY DIVISION
OHIO 1980 INVENTORY

COUNTY:0540

CATEGORY	POINT COUNT	----- PRIMARY TSP	SCC SO2	EMISSIONS (TONS/YEAR) NOX	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	11	7610	82612	10115	168	560
59 EXT. COMB. BOILERS-INDUSTRIAL	4	1642	1777	188	11	23
60 EXT. COMB. BOILERS-COMM/INST	0	0	0	0	0	0
61 EXT. COMB. SPACE HEATERS-INDUST.	3	3	1	3	3	3
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-GCVT.	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		9447	34390	10306	182	586

TABLE A-1 (continued)

GCA / TECHNOLOGY DIVISION
OHIO 1990 INVENTORY

COUNTY:1440

CATEGORY	POINT COUNT	----- PRIMARY SCC EMISSIONS (TONS/YEAR) -----				
		TSP	SO2	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	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	26	125	0	0	0	2592
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	41	219	0	1	1	1
32 PRIMARY & SECONDARY METALS & ELECTRICAL	0	0	0	0	0	0
33 FABRICATED METAL PRODUCTS	6	11	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)

GCA / TECHNOLOGY DIVISION
OHIO 1980 INVENTORY

COUNTY:1440

CATEGORY	POINT COUNT	----- PRIMARY SCC EMISSIONS (TONS/YEAR) -----				
		TSP	SO2	NOX	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	3	13	186	23	1	3
59 EXT. COMB. BOILERS-INDUSTRIAL	0	0	0	0	0	0
60 EXT. COMB. BOILERS-COMM/INST	0	0	0	0	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		368	186	24	2	2596

TABLE A-1 (continued)

GCA / TECHNOLOGY DIVISION
OHIO 1980 INVENTORY

COUNTY:1520

CATEGORY	POINT COUNT	----- PRIMARY SCC EMISSIONS (TONS/YEAR) -----				
		TSP	SO2	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	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	1	0	0	0	0	0
25 IRON AND STEEL MANUFACTURE	9	528	0	0	0	9094
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	2	7	0	0	0	0
31 STONE, CLAY, GLASS, CONCRETE	4	3	0	0	0	0
32 PRIMARY & SECONDARY METALS & ELECTRICAL	0	0	0	0	0	0
33 FABRICATED METAL PRODUCTS	1	9	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)	18	0	0	0	11088	0

TABLE A-1 (continued)

GCA / TECHNOLOGY DIVISION
OHIO 1980 INVENTORY

COUNTY:1520

CATEGORY	POINT COUNT	----- PRIMARY SCC EMISSIONS (TONS/YEAR) -----				
		TSP	SO2	NOX	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	7	3594	173000	33393	515	1729
59 EXT. COMB. BOILERS-INDUSTRIAL	9	219	2168	1472	15	70
60 EXT. COMB. BOILERS-COMM/INST	0	0	0	0	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		4360	175168	34865	11619	10893

TABLE A-1 (continued)

GCA / TECHNOLOGY DIVISION
OHIO 1980 INVENTORY

COUNTY:1600

CATEGORY	POINT COUNT	----- PRIMARY SCC EMISSIONS (TONS/YEAR) -----					-----
		TSP	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	1	0	0	0	69	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	15	0	0	0	328	0	0
7 GASOLINE BULK PLANTS	0	0	0	0	0	0	0
8 TANK TRUCK LOADING	5	0	0	0	1527	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)	13	0	0	0	345	0	0
12 LUBE OIL MANUFACTURE	0	0	0	0	0	0	0
13 PETROLEUM REFINERIES	13	0	0	0	12	0	0
14 PHARMACEUTICAL MANUFACTURE	0	0	0	0	0	0	0
15 TEXTILE POLYMERS & RESIN MANUFACTURE	2	7	0	0	10	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	21	1044	284	32	1	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	1	1	0	0	0	0	0
24 OTHER CHEMICAL MANUFACTURE	11	49	0	0	28	0	0
25 IRON AND STEEL MANUFACTURE	164	7613	6709	30	4873	22547	0
26 TOBACCO PRODUCTS	0	0	0	0	0	0	0
27 FOOD PRODUCTS	1	40	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	59	607	63	49	51	0	0
32 PRIMARY & SECONDARY METALS & ELECTRICAL	73	811	123	0	15	1	0
33 FABRICATED METAL PRODUCTS	58	548	0	0	0	0	0
34 IN-PROCESS FUEL USE	0	0	0	0	0	0	0
35 OTHERS - (INDUSTRIAL PROCESSES)	2	12	0	0	0	0	0
36 ADHESIVES	2	0	0	0	134	0	0
37 IND. SFC. COATING-LARGE APPLIANCES	0	0	0	0	0	0	0
38 IND. SFC. COATING-MAGNET WIRE	2	0	0	0	102	0	0
39 IND. SFC. COATING-AUTOMOBILE	20	2	0	0	787	0	0
40 IND. SFC. COATING-CANS	3	0	0	0	13	0	0
41 IND. SFC. COATING-METAL COILS	0	0	0	0	0	0	0
42 IND. SFC. COATING-PAPER	12	0	0	0	1429	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	34	122	0	0	707	0	0
50 OTHERS - (INDUSTRIAL SURFACE COATING)	3	0	0	0	212	0	0

TABLE A-1 (continued)

GCA / TECHNOLOGY DIVISION
OHIO 1980 INVENTORY

COUNTY:1600

CATEGORY	POINT COUNT	----- PRIMARY SCC EMISSIONS (TONS/YEAR) -----				
		TSP	SO2	NOX	HC	CO
51 DEGREASING	12	0	0	0	754	0
52 DRY CLEANING	0	0	0	0	0	0
53 GRAPHIC ARTS	2	0	0	0	2830	0
54 OTHER - (SOLVENT USE)	2	0	0	0	83	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	12	768	8929	5106	79	275
59 EXT. COMB. BOILERS-INDUSTRIAL	57	9617	24742	3065	77	322
60 EXT. COMB. BOILERS-COMM/INST	19	390	3578	1303	35	150
61 EXT. COMB. SPACE HEATERS-INDUST.	3	24	181	88	1	6
62 EXT. COMB. SPACE HEATERS-COMM.	3	9	17	5	2	2
63 OTHERS-(FUEL COMBUSTION)	0	0	0	0	0	0
64 SOLID WASTE DISPOSAL-GOVT.	9	44	47	58	28	710
65 SOLID WASTE DISPOSAL-COMM/INST	5	21	10	69	7	0
66 SOLID WASTE DISPOSAL-INDUSTRIAL	1	1	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	1	12	0	0	0	0
COUNTY TOTALS		21750	44683	9805	14545	24129

TABLE A-1 (continued)

GCA / TECHNOLOGY DIVISION
OHIO 1980 INVENTORY

COUNTY:2080

CATEGORY	POINT COUNT	----- PRIMARY SCC EMISSIONS (TUNS/YEAR) -----				
		TSP	SO ₂	NO _x	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	0	0	0	0	0	0
31 STONE,CLAY,GLASS,CONCRETE	8	178	6	0	77	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)

GCA / TECHNOLOGY DIVISION
OHIO 1980 INVENTORY

COUNTY:2080

CATEGORY	POINT COUNT	----- PRIMARY SCC EMISSIONS (TONS/YEAR) -----				
		TSP	SO2	NOX	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	3	91	2620	332	46	159
60 EXT. COMB. BOILERS-COMM/INST	2	760	654	74	2	9
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		1049	3482	406	125	168

TABLE A-1 (continued)

SCA / TECHNOLOGY DIVISION
OHIO 1980 INVENTORY

COUNTY:2220

CATEGORY	POINT COUNT	EMISSIONS (TONS/YEAR)				
		PRIMARY TSP	SCC SO2	NOX	HC	CJ
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	2	46	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	2	44	0	0	0	0
25 IRON AND STEEL MANUFACTURE	1	9	0	9	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	16	164	0	0	0	0
32 PRIMARY & SECONDARY METALS & ELECTRICAL	4	64	2127	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	5	0	0	0	304	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	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	3	0	0	0	160	0
50 OTHERS - (INDUSTRIAL SURFACE COATING)	0	0	0	0	0	0

TABLE A-1 (continued)

SCA / TECHNOLOGY DIVISION
OHIO 1990 INVENTORY

COUNTY:2220

CATEGORY	POINT COUNT	----- PRIMARY SCC EMISSIONS (TONS/YEAR) -----				
		TSP	SO2	NOX	HC	CO
51 DEGREASING	2	0	0	0	21	0
52 DRY CLEANING	3	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	22	466	8252	1281	67	146
60 EXT. COMB. BOILERS-COMM/INST	20	1432	4567	1308	67	160
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.	2	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	3	16	157	240	19	53
70 NOT CLASSIFIED	0	0	0	0	0	0
COUNTY TOTALS		2241	15123	2636	667	363

TABLE A-1 (continued)

SCA / TECHNOLOGY DIVISION
OnIC 1990 INVENTORY

COUNTY:2360

CATEGORY	POINT COUNT	----- PRIMARY SCC EMISSIONS (TONS/YEAR) -----				
		TSP	SO ₂	NO _x	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 SER 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	4	92	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	0	0	0	0	0	0
50 OTHERS - (INDUSTRIAL SURFACE COATING)	0	0	0	0	0	0

TABLE A-1 (continued)

SCA / TECHNOLOGY DIVISION
OHIO 1980 INVENTORY

COUNTY:2380

CATEGORY	POINT COUNT	----- PRIMARY TSP	SCC SO2	EMISSIONS (TONS/YEAR) NOX	----- PM10	----- 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	2	155	329	64	4	8
60 EXT. COMB. BOILERS-COMM/INST	0	0	0	0	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		247	329	64	4	8

TABLE A-1 (continued)

GCA / TECHNOLOGY DIVISION
OHIO 1980 INVENTORY

COUNTY:2660

CATEGORY	POINT COUNT	----- PRIMARY SCC EMISSIONS (TONS/YEAR) -----					CO
		TSP	SO2	NOX	HC		
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 SER 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	3	17	0	0	0	0	
32 PRIMARY & SECONDARY METALS & ELECTRICAL	4	25	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)	2	0	0	0	377	0	

TABLE A-1 (continued)

GCA / TECHNOLOGY DIVISION
OHIO 1980 INVENTORY

COUNTY:2660

CATEGORY	POINT COUNT	----- PRIMARY SCC EMISSIONS (TONS/YEAR) -----				
		TSP	SO2	NOX	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	0	0	0	0	0	0
60 EXT. COMB. BOILERS-COMM/INST	3	590	647	84	4	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	2	0	0	0	632	0
69 STATIONARY INTERNAL COMBUSTION ENGINES	1	0	1	204	15	81
70 NOT CLASSIFIED	0	0	0	0	0	0
COUNTY TOTALS		632	648	288	1228	91

TABLE A-1 (continued)

GCA / TECHNOLOGY DIVISION
OHIO 1990 INVENTORY

COUNTY:26:0

CATEGORY	POINT COUNT	----- PRIMARY		EMISSIONS (TONS/YEAR)				-----	
		TSP	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, 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 JEACCO 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	1	1	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)

GCA / TECHNOLOGY DIVISION
OHIO 1980 INVENTORY

COUNTY:2800

CATEGORY	POINT COUNT	----- PRIMARY SCC EMISSIONS (TONS/YEAR) -----				
		TSP	SO2	NOX	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	5	266	275	10	1	1
60 EXT. COMB. BOILERS-COMM/INST	0	0	0	0	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		269	275	10	1	1

TABLE A-1 (continued)

SCA / TECHNOLOGY DIVISION
OHIO 1980 INVENTORY

COUNTY:2960

CATEGORY	POINT	----- PRIMARY SCC EMISSIONS (TONS/YEAR) -----					CO
	COUNT	TSP	SO2	NOX	HC		
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	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	3	0	0	0	1634	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)

SCA / TECHNOLOGY DIVISION
OHIO 1980 INVENTORY

COUNTY:2960

CATEGORY	POINT CJUNT	----- PRIMARY SCC EMISSIONS (TUNS/YEAR) -----				
		TSP	SO2	NOX	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	1	36	128	16	1	2
60 EXT. COMB. BOILERS-COMM/INST	0	0	0	0	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-GCVT.	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		36	128	16	1635	0

TABLE A-1 (continued)

SCA / TECHNOLOGY DIVISION
OHIO 1980 INVENTORY

COUNTY:3160

CATEGORY	POINT COUNT	----- PRIMARY SCC EMISSIONS (TONS/YEAR) -----				CO
		TSP	SO2	NOX	HC	
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	36	2040	7	7	0	0
26 TIEACCO 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	2	15	0	0	0	0
32 PRIMARY & SECONDARY METALS & ELECTRICAL	12	62	0	0	0	0
33 FABRICATED METAL PRODUCTS	0	0	0	0	0	0
34 IN-PROCESS FUEL USE	13	0	5	483	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)

GCA / TECHNOLOGY DIVISION
OHIO 1990 INVENTORY

COUNTY:3160

CATEGORY	POINT COUNT	----- PRIMARY SCC EMISSIONS (TONS/YEAR) -----				
		TSP	SO2	NOX	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	21	58542	287608	76776	1268	4234
59 EXT. COMB. BOILERS-INDUSTRIAL	37	3704	7003	873	62	121
60 EXT. COMB. BOILERS-COMM/INST	0	0	0	0	0	0
61 EXT. COMB. SPACE HEATERS-INDUST.	1	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-SCVT.	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		64371	294623	78139	1335	4364

TABLE A-1 (continued)

SCA / TECHNOLOGY DIVISION
OHIO 1980 INVENTORY

COUNTY:3280

CATEGORY	POINT COUNT	----- PRIMARY SCC EMISSIONS (TONS/YEAR) -----				
		TSP	SO2	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	0	0	0	0	0	0
8 TANK TRUCK LOADING	4	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	14	0	0	0	2803	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 SER RUBBER MANUFACTURE	0	0	0	0	0	0
24 OTHER CHEMICAL MANUFACTURE	11	29	30	0	60	0
25 IRON AND STEEL MANUFACTURE	2	203	315	2	211	52
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	7	193	676	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 INC. SFC. COATING-LARGE APPLIANCES	0	0	0	0	0	0
38 INC. SFC. COATING-MAGNET WIRE	0	0	0	0	0	0
39 INC. SFC. COATING-AUTOMOBILE	0	0	0	0	0	0
40 INC. SFC. COATING-CANS	0	0	0	0	0	0
41 INC. SFC. COATING-METAL COILS	0	0	0	0	0	0
42 INC. SFC. COATING-PAPER	0	0	0	0	0	0
43 INC. SFC. COATING-FABRIC	0	0	0	0	0	0
44 INC. SFC. COATING-MISC. FURNITURE	0	0	0	0	0	0
45 INC. 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 INC. SFC. COATING-MISC. METAL PRODUCTS	2	0	0	0	10	0
50 OTHERS - (INDUSTRIAL SURFACE COATING)	0	0	0	0	0	0

TABLE A-1 (continued)

GCA / TECHNOLOGY DIVISION
OHIO 1980 INVENTORY

COUNTY: 3280

CATEGORY	POINT COUNT	----- PRIMARY SCC EMISSIONS (TONS/YEAR) -----					-----
		TSP	SO2	NOX	HC	CO	
51 DEGREASING	2	0	0	0	106	0	
52 DRY CLEANING	0	0	0	0	0	0	
53 GRAPHIC ARTS	31	0	0	0	6263	0	
54 OTHER - (SOLVENT USE)	1	0	0	0	66	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	8	17152	153021	23397	387	1297	
59 EXT. COMB. BOILERS-INDUSTRIAL	7	81	1457	252	12	24	
60 EXT. COMB. BOILERS-COMM/INST	0	0	0	0	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	1	1	4	12	0	2	
70 NOT CLASSIFIED	0	0	0	0	0	0	
COUNTY TOTALS		17659	155505	23663	9926	1375	

TABLE A-1 (continued)

GCA / TECHNOLOGY DIVISION
OHIO 1980 INVENTORY

COUNTY:3440

CATEGORY	POINT COUNT	----- PRIMARY SCC EMISSIONS (TONS/YEAR) -----				
		TSP	SO2	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	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	1	1	0	0	1	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	28	5746	392	173	341	500
32 PRIMARY & SECONDARY METALS & ELECTRICAL	5	5	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 INC. SFC. COATING-LARGE APPLIANCES	0	0	0	0	0	0
38 INC. SFC. COATING-MAGNET WIRE	0	0	0	0	0	0
39 INC. SFC. COATING-AUTOMOBILE	0	0	0	0	0	0
40 INC. SFC. COATING-CANS	0	0	0	0	0	0
41 INC. SFC. COATING-METAL COILS	0	0	0	0	0	0
42 INC. SFC. COATING-PAPER	0	0	0	0	0	0
43 INC. SFC. COATING-FABRIC	0	0	0	0	0	0
44 INC. SFC. COATING-MISC. FURNITURE	0	0	0	0	0	0
45 INC. 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 INC. 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)

GCA / TECHNOLOGY DIVISION
OHIO 1980 INVENTORY

COUNTY:3440

CATEGORY	POINT COUNT	----- PRIMARY SCC EMISSIONS (TONS/YEAR) -----				
		TSP	SO2	NOX	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	1	0	0	0	13	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	2	22	560	78	4	10
60 EXT. COMB. BOILERS-COMM/INST	1	30	915	0	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		5604	1867	251	359	510

TABLE A-1 (continued)

GCA / TECHNOLOGY DIVISION
OHIO 1980 INVENTORY

COUNTY:3640

CATEGORY	POINT COUNT	PRIMARY SCC EMISSIONS (TONS/YEAR)					-----
		TSP	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, 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 SSR 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	33	3065	6029	1935	3354	2648	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)	2	18	254	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	17	0	0	0	962	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	2	0	0	0	114	0	0
50 OTHERS - (INDUSTRIAL SURFACE COATING)	0	0	0	0	0	0	0

TABLE A-1 (continued)

GCA / TECHNOLOGY DIVISION
OHIO 1980 INVENTORY

COUNTY:3640

CATEGORY	POINT COUNT	----- PRIMARY TSP	SCC SO2	EMISSIONS NOX	(TONS/YEAR) HC	----- CO
51 DEGREASING	1	0	0	0	22	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	14	9783	40297	6396	135	457
59 EXT. COMB. BOILERS-INDUSTRIAL	19	299	1632	1662	25	122
60 EXT. COMB. BOILERS-COMM/INST	1	101	153	22	1	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.	0	0	0	0	0	0
65 SOLID WASTE DISPOSAL-COMM/INST	0	0	0	0	0	0
66 SOLID WASTE DISPOSAL-INDUSTRIAL	1	95	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		13361	48365	12017	4613	3230

TABLE A-1 (continued)

GCA / TECHNOLOGY DIVISION
OHIO 1980 INVENTORY

COUNTY:3820

CATEGORY	POINT COUNT	----- PRIMARY SCC EMISSIONS (TONS/YEAR) -----				
		TSP	SO2	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	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)	9	0	0	0	516	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	73	9932	14551	3546	3078	26406
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	7	320	370	0	0	0
32 PRIMARY & SECONDARY METALS & ELECTRICAL	3	69	45	7	0	0
33 FABRICATED METAL PRODUCTS	0	0	0	0	0	0
34 IN-PROCESS FUEL USE	5	0	0	0	504	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	1	0	0	0	84	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	27	0	0	0	360	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	7	0	0	0	181	0
50 OTHERS - (INDUSTRIAL SURFACE COATING)	8	0	0	0	431	0

TABLE A-1 (continued)

SCA / TECHNOLOGY DIVISION
OHIO 1980 INVENTORY

COUNTY:3820

CATEGORY	POINT COUNT	----- PRIMARY SCC EMISSIONS (TONS/YEAR) -----				
		TSP	SO2	NOX	HC	CO
51 DEGREASING	2	0	0	0	63	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	4	1009	1845	251	15	32
59 EXT. COMB. BOILERS-INDUSTRIAL	30	9020	11908	3416	51	263
60 EXT. COMB. BOILERS-COMM/INST	1	0	0	0	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	2	4	4	28	4	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		20354	28723	7248	5287	26701

TABLE A-1 (continued)

GCA / TECHNOLOGY DIVISION
OHIO 1980 INVENTORY

COUNTY:4160

CATEGORY	POINT COUNT	----- PRIMARY SCC EMISSIONS (TONS/YEAR) -----				
		TSP	SO2	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	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	4	26	0	0	3	0
25 IRON AND STEEL MANUFACTURE	2	1	0	0	0	0
26 THERMO PRODUCTS	0	0	0	0	0	0
27 FOOD PRODUCTS	4	1	0	0	5	0
28 TEXTILE MILL PRODUCTS	0	0	0	0	0	0
29 LUMBER AND WOOD PRODUCTS	5	4	0	0	0	0
30 PAPER AND ALLIED PRODUCTS	0	0	0	0	0	0
31 STONE, CLAY, GLASS, CONCRETE	19	41	0	0	4	0
32 PRIMARY & SECONDARY METALS & ELECTRICAL	16	13	0	0	0	0
33 FABRICATED METAL PRODUCTS	10	6	0	0	0	0
34 IN-PROCESS FUEL USE	0	0	0	0	0	0
35 OTHERS - (INDUSTRIAL PROCESSES)	4	5	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	3	0	0	0	51	0
39 IND. SFC. COATING-AUTOMOBILE	1	0	0	0	0	0
40 IND. SFC. COATING-CANS	0	0	0	0	0	0
41 IND. SFC. COATING-METAL COILS	1	1	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	10	0	0	0	294	0
50 OTHERS - (INDUSTRIAL SURFACE COATING)	10	0	0	0	18	0

TABLE A-1 (continued)

SCA / TECHNOLOGY DIVISION
OHIO 1980 INVENTORY

COUNTY:4160

CATEGORY	POINT	----- PRIMARY SCC EMISSIONS (TONS/YEAR) -----				COUNT
	COUNT	TSP	SO2	NOX	HC	
51 DEGREASING	0	0	0	0	0	0
52 DRY CLEANING	0	0	0	0	0	0
53 GRAPHIC ARTS	3	0	0	0	160	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)	2	3	0	0	1	0
58 EXT. COMB. BOILERS-ELEC. GENERATION	0	0	0	0	0	0
59 EXT. COMB. BOILERS-INDUSTRIAL	47	153	593	19	15	15
60 EXT. COMB. BOILERS-COMM/INST	68	94	175	30	11	11
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	19	13	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	10	0	0	0	122	0
69 STATIONARY INTERNAL COMBUSTION ENGINES	0	0	0	0	0	0
70 NOT CLASSIFIED	0	0	0	0	0	0
COUNTY TOTALS		361	768	49	684	26

TABLE A-1 (continued)

SCA / TECHNOLOGY DIVISION
OHIO 1990 INVENTORY

COUNTY:4100

CATEGORY	POINT COUNT	----- PRIMARY SCC EMISSIONS (TONS/YEAR) -----				
		TSP	SO2	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	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	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 FULL 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)

SCA / TECHNOLOGY DIVISION
OHIO 1980 INVENTORY

COUNTY:4180

CATEGORY	POINT COUNT	----- PRIMARY SCC EMISSIONS (TONS/YEAR) -----				
		TSP	SO2	NOX	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	0	0	0	0	0	0
60 EXT. COMB. BOILERS-COMM/INST	0	0	0	0	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	2	0	2	160	65	19
70 NOT CLASSIFIED	0	0	0	0	0	0
COUNTY TOTALS		0	2	160	65	19

TABLE A-1 (continued)

SCA / TECHNOLOGY DIVISION
OHIO 1990 INVENTORY

COUNTY:4460

CATEGORY	POINT COUNT	----- PRIMARY SCC EMISSIONS (TCNS/YEAR) -----				
		TSP	SO2	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	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	0	0	0	0	0	0
31 STONE,CLAY, GLASS, CONCRETE	1	91	0	0	0	0
32 PRIMARY & SECONDARY METALS & ELECTRICAL	105	931	0	0	0	0
33 FABRICATED METAL PRODUCTS	0	0	0	0	0	0
34 IN-PROCESS FUEL USE	18	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)	1	0	0	0	7	0

TABLE A-1 (continued)

GCA / TECHNOLOGY DIVISION
OHIO 1980 INVENTORY

COUNTY:4460

CATEGORY	POINT COUNT	----- PRIMARY SCC EMISSIONS (TONS/YEAR) -----				
		TSP	SO2	NOX	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	3	3	33	11	3	3
60 EXT. COMB. BOILERS-COMM/INST	0	0	0	0	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-SOVT.	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		1025	33	11	10	3

TABLE A-1 (continued)

GCA / TECHNOLOGY DIVISION
OHIO 1990 INVENTORY

COUNTY:4540

CATEGORY	POINT COUNT	----- PRIMARY SCC EMISSIONS (TONS/YEAR) -----				
		TSP	SO ₂	NO _x	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	2	30	0	0	0	0
30 PAPER AND ALLIED PRODUCTS	0	0	0	0	0	0
31 STONE,CLAY,GLASS,CONCRETE	1	1	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 FULL 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)

GCA / TECHNOLOGY DIVISION
OHIO 1990 INVENTORY

COUNTY:4540

CATEGORY	POINT COUNT	----- PRIMARY SCC EMISSIONS (TONS/YEAR) -----				
		TSP	SO2	NOX	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)	3	0	0	0	4	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	0	0	0	0	0	0
60 EXT. COMB. BOILERS-COMM/INST	0	0	0	0	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		31	0	0	4	0

TABLE A-1 (continued)

GCA / TECHNOLOGY DIVISION
OHIO 1990 INVENTORY

COUNTY:4640

CATEGORY	POINT COUNT	----- PRIMARY SCC EMISSIONS (TONS/YEAR) -----				
		TSP	SO2	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	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	8	109	0	0	0	33
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	13	3210	5129	974	0	37
32 PRIMARY & SECONDARY METALS & ELECTRICAL	18	365	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	22	0
50 OTHERS - (INDUSTRIAL SURFACE COATING)	0	0	0	0	0	0

TABLE A-1 (continued)

GCA / TECHNOLOGY DIVISION
OHIO 1980 INVENTORY

COUNTY:4640

CATEGORY	POINT COUNT	EMISSIONS (TONS/YEAR)				
		PRIMARY TSP	SCC SO2	NOX	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	2	14	724	74	4	10
60 EXT. COMB. BOILERS-COMM/INST	2	2	178	8	4	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.	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	1	0	0	23	9	3
70 NOT CLASSIFIED	0	0	0	0	0	0
COUNTY TOTALS		3700	6031	1079	39	97

TABLE A-1 (continued)

GCA / TECHNOLOGY DIVISION
OHIO 1980 INVENTORY

COUNTY:4900

CATEGORY	POINT COUNT	----- PRIMARY SCC EMISSIONS (TONS/YEAR) -----				
		TSP	SO2	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	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	0	0	0	0	0	0
31 STONE,CLAY,GLASS,CONCRETE	1	210	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	0	0	0	0	0	0
50 OTHERS - (INDUSTRIAL SURFACE COATING)	0	0	0	0	0	0

TABLE A-1 (continued)

SCA / TECHNOLOGY DIVISION
OHIO 1980 INVENTORY

COUNTY:4900

CATEGORY	POINT COUNT	----- PRIMARY SCC EMISSIONS (TONS/YEAR) -----				
		TSP	SO2	NOX	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	0	0	0	0	0	0
60 EXT. COMB. BOILERS-COMM/INST	0	0	0	0	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		210	0	0	0	0

TABLE A-1 (continued)

SCA / TECHNOLOGY DIVISION
OHIO 1980 INVENTORY

COUNTY:5440

CATEGORY	POINT COUNT	----- PRIMARY SCC EMISSIONS (TONS/YEAR) -----				
		TSP	SO ₂	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	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	0	0	0	0	0	0
31 STONE,CLAY,GLASS,CONCRETE	11	446	21	10	0	1
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)

SCA / TECHNOLOGY DIVISION
OHIO 1980 INVENTORY

COUNTY:5440

CATEGORY	POINT COUNT	----- PRIMARY SCC EMISSIONS (TONS/YEAR) -----				
		TSP	SO2	NOx	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	0	0	0	0	0	0
60 EXT. COMB. BOILERS-COMM/INST	0	0	0	0	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-SOVT.	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		448	21	10	0	1

TABLE A-1 (continued)

SCA / TECHNOLOGY DIVISION
OHIO 1980 INVENTORY

COUNTY:5580

CATEGORY	POINT COUNT	----- PRIMARY SCC EMISSIONS (TONS/YEAR) -----					CO
		TSP	SO2	NOx	HC		
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	2	0	0	0	125	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)	7	0	0	0	751	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	1	0	0	0	18	0	
25 IRON AND STEEL MANUFACTURE	1	18	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	14	79	0	0	0	0	
32 PRIMARY & SECONDARY METALS & ELECTRICAL	1	2	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)

SCA / TECHNOLOGY DIVISION
OHIO 1980 INVENTORY

COUNTY:5580

CATEGORY	POINT COUNT	----- PRIMARY SCC EMISSIONS (TONS/YEAR) -----				
		TSP	SO2	NOX	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	3	3	0	0	0	0
60 EXT. COMB. BOILERS-COMM/INST	9	10	69	5	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-GCVT.	0	0	0	0	0	0
65 SOLID WASTE DISPOSAL-COMM/INST	0	0	0	0	0	0
66 SOLID WASTE DISPOSAL-INDUSTRIAL	2	2	0	0	0	0
67 UTFLR 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		114	69	5	896	2

TABLE A-1 (continued)

SCA / TECHNOLOGY DIVISION
OHIO 1980 INVENTORY

COUNTY:6400

CATEGORY	POINT COUNT	----- PRIMARY SCC EMISSIONS (TONS/YEAR) -----				
		TSP	SO2	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	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	2	104	1261	281	671	5425
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 SEM RUBBER MANUFACTURE	0	0	0	0	0	0
24 OTHER CHEMICAL MANUFACTURE	0	0	0	0	0	0
25 IRON AND STEEL MANUFACTURE	28	250	1	7	131	7749
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	21	352	99	9	3	3
32 PRIMARY & SECONDARY METALS & ELECTRICAL	4	47	199	0	0	0
33 FABRICATED METAL PRODUCTS	2	0	0	0	413	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	2	0	0	0	49	0
39 IND. SFC. COATING-AUTOMOBILE	11	0	0	0	220	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	95	0
50 OTHERS - (INDUSTRIAL SURFACE COATING)	0	0	0	0	0	0

TABLE A-1 (continued)

SCA / TECHNOLOGY DIVISION
OHIO 1980 INVENTORY

COUNTY:6400

CATEGORY	POINT	----- PRIMARY SCC EMISSIONS (TONS/YEAR) -----					CO
	COUNT	TSP	SO2	NOX	HC		
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)	2	0	0	0	63	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	2	5	95	70	2	4	
59 EXT. COMB. BOILERS-INDUSTRIAL	50	4615	9961	18875	362	1782	
60 EXT. COMB. BOILERS-COMM/INST	0	0	0	0	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-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	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		5373	11636	19242	2212	63503	

TABLE A-1 (continued)

GCA / TECHNOLOGY DIVISION
OHIO 1980 INVENTORY

COUNTY:6500

CATEGORY	POINT COUNT	----- PRIMARY SCC EMISSIONS (TONS/YEAR) -----				
		TSP	SO2	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	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)	15	0	0	0	2663	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	3	1	0	0	224	0
16 SYNTHETIC FIBER MANUFACTURE	3	3	0	0	0	0
17 ORGANIC CHEMICAL MANUFACTURE	4	2	0	0	59	0
18 INORGANIC CHEMICAL MANUFACTURE	29	93	95	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 SYN RUBBER MANUFACTURE	0	0	0	0	0	0
24 OTHER CHEMICAL MANUFACTURE	116	134	100	12	3942	0
25 IRON AND STEEL MANUFACTURE	16	75	0	0	26	135
26 TOBACCO PRODUCTS	0	0	0	0	0	0
27 FOOD PRODUCTS	1	1	0	0	0	0
28 TEXTILE MILL PRODUCTS	0	0	0	0	0	0
29 LUMBER AND WOOD PRODUCTS	2	36	0	0	0	0
30 PAPER AND ALLIED PRODUCTS	0	0	0	0	0	0
31 STONE,CLAY, GLASS, CONCRETE	36	221	0	0	0	0
32 PRIMARY & SECONDARY METALS & ELECTRICAL	6	5	0	0	0	0
33 FABRICATED METAL PRODUCTS	17	2	0	0	230	0
34 IN-PROCESS FUEL USE	3	0	0	0	0	0
35 OTHERS - (INDUSTRIAL PROCESSES)	6	6	0	0	70	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	1	0	0	0	1	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	15	40	0	0	1582	0
50 OTHERS - (INDUSTRIAL SURFACE COATING)	10	9	0	0	244	0

TABLE A-1 (continued)

SCA / TECHNOLOGY DIVISION
OHIO 1980 INVENTORY

COUNTY:6500

CATEGORY	POINT COUNT	----- PRIMARY SCC EMISSIONS (TONS/YEAR) -----				
		TSP	SO2	NOx	HC	CO
51 DEGREASING	8	0	0	0	201	0
52 DRY CLEANING	0	0	0	0	0	0
53 GRAPHIC ARTS	6	0	0	0	7686	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)	3	0	0	0	31	0
58 EXT. COMB. BOILERS-ELEC. GENERATION	9	638	9751	1660	27	91
59 EXT. COMB. BOILERS-INDUSTRIAL	157	3085	87332	19415	295	663
60 EXT. COMB. BOILERS-COMM/INST	93	62	439	50	35	36
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-GCVT.	4	116	0	0	0	0
65 SOLID WASTE DISPOSAL-COMM/INST	28	23	0	0	0	0
66 SOLID WASTE DISPOSAL-INDUSTRIAL	3	1	0	0	0	0
67 OTHER SOLID WASTE DISPOSAL	0	0	0	0	0	0
68 WASTE SOLVENT RECOVERY PROCESSES	9	0	0	0	528	0
69 STATIONARY INTERNAL COMBUSTION ENGINES	0	0	0	0	0	0
70 NOT CLASSIFIED	0	0	0	0	0	0
COUNTY TOTALS		4753	97715	21137	17849	915

TABLE A-1 (continued)

GCA / TECHNOLOGY DIVISION
OHIO 1980 INVENTORY

COUNTY:6700

CATEGORY	POINT COUNT	----- PRIMARY SCC EMISSIONS (TONS/YEAR) -----				
		TSP	SO2	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	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	18	2525	3155	589	587	1524
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	7	162	3	43	1	0
32 PRIMARY & SECONDARY METALS & ELECTRICAL	3	23	0	0	1	0
33 FABRICATED METAL PRODUCTS	0	0	0	0	0	0
34 IN-PROCESS FUEL USE	1	0	0	0	50	0
35 OTHERS - (INDUSTRIAL PROCESSES)	4	29	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	2	0	0	0	175	0
39 IND. SFC. COATING-AUTOMOBILE	21	0	0	0	1228	0
40 IND. SFC. COATING-CANS	6	0	0	0	412	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	16	0	0	0	865	0
50 OTHERS - (INDUSTRIAL SURFACE COATING)	5	0	0	0	1267	0

TABLE A-1 (continued)

GCA / TECHNOLOGY DIVISION
OHIO 1980 INVENTORY

COUNTY:6700

CATEGORY	POINT COUNT	----- PRIMARY SCC EMISSIONS (TONS/YEAR) -----				
		TSP	SO2	NOX	HC	CO
51 DEGREASING	1	0	0	0	40	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	2	2617	40075	17034	92	309
59 EXT. COMB. BOILERS-INDUSTRIAL	12	1357	3934	1201	30	92
60 EXT. COMB. BOILERS-COMM/INST	0	0	0	0	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.	2	564	4	28	4	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	1	13	134	185	15	42
70 NOT CLASSIFIED	0	0	0	0	0	0
COUNTY TOTALS		7294	47306	19080	4767	15692

TABLE A-1 (continued)

GCA / TECHNOLOGY DIVISION
OHIO 1980 INVENTORY

COUNTY:6720

CATEGORY	POINT COUNT	----- PRIMARY SCC EMISSIONS (TONS/YEAR) -----					CO
		TSP	SO2	NOX	HC		
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	2	7	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	2	2	0	0	0	0	
25 IRON AND STEEL MANUFACTURE	7	22	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	50	0	0	0	0	
30 PAPER AND ALLIED PRODUCTS	0	0	0	0	0	0	
31 STONE,CLAY,GLASS,CONCRETE	12	149	135	4	0	12	
32 PRIMARY & SECONDARY METALS & ELECTRICAL	5	6	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	1	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	3	0	0	0	167	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	3	0	0	0	1139	0	
50 OTHERS - (INDUSTRIAL SURFACE COATING)	2	0	0	0	139	0	

TABLE A-1 (continued)

SCA / TECHNOLOGY DIVISION
OHIO 1980 INVENTORY

COUNTY:6720

CATEGORY	POINT COUNT	----- PRIMARY SCC EMISSIONS (TUNS/YEAR) -----				
		TSP	SO2	NOX	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	4	71	2368	362	24	48
59 EXT. COMB. BOILERS-INDUSTRIAL	3	108	2793	314	15	39
60 EXT. COMB. BOILERS-COMM/INST	2	15	157	41	2	4
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-GCVT.	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		430	5453	721	1514	103

TABLE A-1 (continued)

SCA / TECHNOLOGY DIVISION
OHIO 1980 INVENTORY

COUNTY: 7100

CATEGORY	POINT COUNT	----- PRIMARY SCC EMISSIONS (TUNS/YEAR) -----				
		TSP	SO2	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	10	0	0	0	284	0
7 GASOLINE BULK PLANTS	0	0	0	0	0	0
8 TANK TRUCK LOADING	3	0	0	0	303	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	5	11	1	0	680	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	4	164	1636	547	1796	5290
25 IRON AND STEEL MANUFACTURE	1	1	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	6	2114	0	0	0	0
32 PRIMARY & SECONDARY METALS & ELECTRICAL	46	824	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	1	0	0	0	31	0
37 INC. SFC. COATING-LARGE APPLIANCES	0	0	0	0	0	0
38 INC. SFC. COATING-MAGNET WIRE	0	0	0	0	0	0
39 INC. SFC. COATING-AUTOMOBILE	0	0	0	0	0	0
40 INC. SFC. COATING-CANS	0	0	0	0	0	0
41 INC. SFC. COATING-METAL COILS	0	0	0	0	0	0
42 INC. SFC. COATING-PAPER	0	0	0	0	0	0
43 INC. SFC. COATING-FABRIC	0	0	0	0	0	0
44 INC. SFC. COATING-MISC. FURNITURE	0	0	0	0	0	0
45 INC. SFC. COATING-METAL/WOOD PRODUCTS	2	0	0	0	195	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 INC. SFC. COATING-MISC. METAL PRODUCTS	4	0	0	0	232	0
50 OTHERS - (INDUSTRIAL SURFACE COATING)	6	0	0	0	301	0

TABLE A-1 (continued)

SCA / TECHNOLOGY DIVISION
OHIO 1980 INVENTORY

COUNTY: 7100

CATEGORY	POINT COUNT	----- PRIMARY SCC EMISSIONS (TONS/YEAR) -----				
		TSP	SO2	NOx	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	10	1783	305086	53469	510	1712
59 EXT. COMB. BOILERS-INDUSTRIAL	2	174	2186	1188	10	40
60 EXT. COMB. BOILERS-COMM/INST	0	0	0	0	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	1	0	5	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		5671	308914	55204	4342	54554

TABLE A-1 (continued)

GCA / TECHNOLOGY DIVISION
OHIO 1980 INVENTORY

COUNTY: 7160

CATEGORY	POINT COUNT	PRIMARY TSP	SCC SO2	EMISSIONS NOX	(TONS/YEAR) HC	
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 SER RUBBER MANUFACTURE	0	0	0	0	0	0
24 OTHER CHEMICAL MANUFACTURE	0	0	0	0	0	0
25 IRON AND STEEL MANUFACTURE	4	62	0	0	0	0
26 TOBACCO PRODUCTS	0	0	0	0	0	0
27 FOOD PRODUCTS	2	2	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	4	130	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	0	0	0	0	0	0
50 OTHERS - (INDUSTRIAL SURFACE COATING)	0	0	0	0	0	0

TABLE A-1 (continued)

GCA / TECHNOLOGY DIVISION
OHIO 1980 INVENTORY

COUNTY:7160

CATEGORY	POINT COUNT	----- PRIMARY SCC EMISSIONS (TONS/YEAR) -----				
		TSP	SO2	NOX	HC	CO
51 DEGREASING	0	0	0	0	0	0
52 DRY CLEANING	0	0	0	0	0	0
53 GRAPHIC ARTS	4	0	0	0	215	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	7	11358	22841	496	33	65
60 EXT. COMB. BOILERS-COMM/INST	5	307	756	63	4	8
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		11859	23597	559	252	73

APPENDIX B

AREA SOURCE EMISSIONS BY CATEGORY FOR THE OHIO NECRMP COUNTIES

Table B-1 presents area source emissions, by category, for each of the Ohio counties included in the NECRMP study area, which are identified below.

County	NEDS/EIS County code
Ashtabula	0220
Athens	0260
Belmont	0540
Carroll	1040
Columbiana	1440
Coshocton	1520
Cuyahoga	1600
Fairfield	2080
Franklin	2220
Geauga	2380
Guernsey	2680
Harrison	2800
Holmes	2960
Jefferson	3160
Lake	3280
Licking	3440
Lorain	3640
Mahoning	3820
Medina	4160
Meigs	4180
Monroe	4460
Morgan	4540
Muskingum	4640
Noble	4900
Perry	5440
Portage	5580
Stark	6400
Summit	6500
Trumbull	6700
Tuscarawas	6720
Washington	7100
Wayne	7160

TABLE B-1. AREA SOURCE HYDROCARBON AND NITROGEN OXIDE EMISSIONS BY CATEGORY
FOR EACH OF THE 32 NECRMP OHIO COUNTIES

COUNTY:0220						
GC / TECHNOLOGY DIVISION AREA SOURCE MASTER FILE SUMMARY FOR OHIO						
CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RATL	UNITS	POLLUTANT EMISSION F.C.	EMISSION FACTOR	EMISSIONS ESTIMATE
001	STAGE I GASOLINE EVAP	00005635	THOUS GAL	THC	8.35	0000249
002	STAGE II GASOLINE EVAP	00005692	THOUS GAL	THC	9.70	0000286
003	STORAGE TANK BREATHING	00005635	THOUS GAL	THC	1.00	0000030
004	GASOLINE LOADING/TRANSIT	00005635	THOUS GAL	THC	6.87	0000205
005	SM IND/COMM DEGREASING	000104215	POPULATION	NHC	7.59	0000395
006	DRY CLEANING	000104215	POPULATION	NHC	1.50	0000076
007	POOR SURFACE COATING	000104215	POPULATION	NHC	4.60	0000240
008	AUTO BODY REFINISHING	000104215	POPULATION	NHC	1.50	0000099
009	SM IND SURFACE COATING	000000870	POP	THC	1,175.00	0000511
010	GRAPHIC ARTS	000104215	POPULATION	NHC	0.80	0000042
011	COMM/CCRS SOLVENT USE	000104215	POPULATION	NHC	6.30	0000328
012	CUTBACK ASPHALT	000001791	TON	NHC	400.00	0000358
013	PESTICIDES	000090712	ACRE	NHC	3.50	0000141
014	ON-HIGHWAY LDV	000560224	THOUS VMT	NOX NHC	7.68 7.57	0002228 0002197
015	ON-HIGHWAY LOT1	000337109	THOUS VMT	NOX NHC	8.24 8.57	0000153 0000159
016	ON-HIGHWAY LOT2	000037109	THOUS VMT	NOX	9.48	0000176

TABLE B-1 (continued)

GC4 / TECHNOLOGY DIVISION
AREA SOURCE MASTER FILE SUMMARY
F.R. CHIO

COUNTY:020

CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RATE	UNITS	POLLUTANT I.D.	EMISSION FACTOR	EMISSIONS ESTIMATE
017	ON-HIGHWAY HDG	000002050	THOUS VMT	NOX RHC	26.27 23.06	0000266 0000203
018	ON-HIGHWAY HDD	000054037	THOUS VMT	NOX RHC	56.89 5.28	0001591 0000143
019	ON-HIGHWAY MC	000003652	THOUS VMT	NOX RHC	1.23 13.43	0000002 0000025
020	RESIDENTIAL ANTHRACITE	000012117	TON	NOX THC	3.00 2.50	0000018 0000015
021	RESIDENTIAL BITUMINOUS	000000000	TON	NOX THC	6.00 3.00	0000000 0000000
022	RESIDENTIAL RESIDUAL OIL	000000000	THOUS GAL	NOX THC	18.00 1.00	0000000 0000000
023	RESIDENTIAL DISTILLATE	000013719	THOUS GAL	NOX THC	18.00 1.00	0000123 0000007
024	RESIDENTIAL NATURAL GAS	000003098	MIL CU FT	NOX THC	80.00 8.00	0000155 0000016
025	RESIDENTIAL LPG	000002196	THOUS GAL	NOX THC	7.50 0.75	0000008 0000001
026	RESIDENTIAL WOOD	000000623	TON	NOX RHC	1.00 5.00	0000004 0000022
027	COMM/INST ANTHRACITE	000000000	TON	NOX THC	10.00 0.00	0000000 0000000
028	COMM/INST BITUMINOUS	000000000	TON	NOX THC	6.00 3.00	0000000 0000000
029	COMM/INST RESIDUAL OIL	000001826	THOUS GAL	NOX THC	60.00 1.00	0000055 0000001

TABLE B-1 (continued)

GCA / TECHNOLOGY DIVISION
AREA SOURCE MASTER FILE SUMMARY
FOR CHIO

CCLITY: 220

CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RATL	UNITS	POLLUTANT I.D.	EMISSION FACTOR	EMISSIONS ESTIMATE
030	COMM/INST DISTILLATE	000000000	THOUS GAL	NOX THC	22.00 1.00	000000 000000
031	COMM/INST NATURAL GAS	000001925	MIL CU FT	NOX THC	120.00 8.00	0000116 0000008
032	COMM/INST LPG	000000000	THOUS GAL	NOX THC	11.00 0.75	0000000 0000000
033	COMM/INST WOOD/OTHER	000000000	TON	NOX THC	1.00 5.00	0000000 0000000
034	INDUSTRIAL ANTHRACITE	000000000	TON	NOX THC	18.00 0.00	0000000 0000000
035	INDUSTRIAL BITUMINOUS	000246144	TON	NOX THC	15.00 1.00	0001845 0000123
036	INDUSTRIAL RESIDUAL OIL	000002466	THOUS GAL	NOX THC	60.00 1.00	0000074 0000001
037	INDUSTRIAL DISTILLATE OIL	000016321	THOUS GAL	NOX THC	22.00 1.00	0000180 0000003
038	INDUSTRIAL NATURAL GAS	000002545	MIL CU FT	NOX THC	175.00 3.00	0000231 0000004
039	INDUSTRIAL LPG	000001535	THOUS GAL	NOX THC	11.65 0.30	0000009 0000000
040	INDUSTRIAL WOOD/OTHER	000000000	TON	NOX THC	1.00 5.00	0000000 0000000
041	MILITARY AIRCRAFT	000000000	LND/TAKE OFF	NOX THC	9.16 27.10	0000000 0000003
042	CIVIL AIRCRAFT	000029565	LND/TAKE OFF	NOX THC	0.02 0.41	0000000 0000006

TABLE B-1 (continued)

GCA / TECHNOLOGY DIVISION
AREA SOURCE WASTE FILE SUMMARY
FOR OHIO

COUNTY:0220

CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RAIL	UNITS LND/TAKE OFF	POLLUTANT I.D.	EMISSION FACTOR	EMISSIONS ESTIMATE
043	COMMERCIAL AIRCRAFT	000000000		NOX THC	26.53 30.66	0000000 0000000
044	RAILROAD LOCOMOTIVES	0000003671	THOUS GAL	NOX THC	370.00 94.00	0000579 0000173
045	VESSELS - GASOLINE	0000000222	THOUS GAL	NOX THC	39.05 835.47	0000004 0000093
046	VESSELS - DISTILLATE OIL	0000001661	THOUS GAL	NOX THC	270.00 50.00	0000224 0000042
047	VESSELS - RESIDUAL OIL	0000002868	THOUS GAL	NOX THC	63.60 1.72	0000091 0000002
048	OFF-HIGHWAY VEHICLES-GAS	0000000874	THOUS GAL	NOX THC	68.65 217.39	0000030 0000395
049	OFF-HIGHWAY VEH - DIESEL	0000001519	THOUS GAL	NOX THC	393.68 44.77	0000299 0000034
050	ON-SITE INCINERATION	000015065	TON	NOX THC	2.25 38.49	0000017 0000293
051	DEER BURNING	000051559	TON	NOX THC	5.53 25.02	0000143 0000748
052	STRUCTURAL FIRS	0000000259	FIRLS	NOX THC	17.00 107.00	0000002 0000314
053	FIELD/SLASH BURNING	0000000000	TON	NOX THC	4.00 23.00	0000000 0000000
054	FOREST FIRLS	0000000026	ACFE	NOX THC	43.21 261.02	0000001 0000003
099	COUNTY TOTALS			THC NOX THC		0002968 0004508 0008726

TABLE B-1 (continued)

CITY CODE NUMBER	CATEGORY DESCRIPTION	PROCESS P/F	UNITS	POLLUTANT I.D.	EMISSION FACTOR	EMISSIONS ESTIMATE
01	STREET GASOLINE PUMP	000024960	THOUS GAL	THC	8.75	0000104
02	STREET GASOLINE PUMP	000024707	THOUS GAL	THC	9.70	0000120
03	STORAGE TANK EVAPORATING	000024960	THOUS GAL	THC	1.00	0000012
04	GASOLINE EVAPORATION/TRANSPIRATION	000024960	THOUS GAL	THC	6.87	0000066
05	SP INDUSTRY/COMMERCIAL POP	000056359	POPULATION	THC	7.55	0000214
06	PAV CLIMATE	000056359	POPULATION	THC	1.50	0000042
07	PAV SURFACE CLIMATE	000056359	POPULATION	THC	4.60	0000131
08	PAV SURFACE CLIMATE	000056359	POPULATION	THC	1.50	0000054
09	PAV SURFACE CLIMATE	000004664	POPULATION	THC	1,175.00	0000074
10	PAV SURFACE CLIMATE	000056359	POPULATION	THC	1.50	0000023
11	PAV SURFACE CLIMATE	000056359	POPULATION	THC	6.30	0000178
12	PAV SURFACE CLIMATE	000006665	POPULATION	THC	400.00	0000134
13	PAV SURFACE CLIMATE	000018112	POPULATION	THC	3.50	0000029
14	PAV SURFACE CLIMATE	000044664	POPULATION	THC	7.68	0000039
15	PAV SURFACE CLIMATE	000015644	POPULATION	THC	7.57	0000026
16	PAV SURFACE CLIMATE	000015644	POPULATION	THC	8.24	0000064
17	PAV SURFACE CLIMATE	000015644	POPULATION	THC	8.57	0000067
18	PAV SURFACE CLIMATE	000015644	POPULATION	THC	9.48	0000074
19	PAV SURFACE CLIMATE	000015644	POPULATION	THC	9.61	0000075

TABLE B-1 (continued)

CCA / TECHNOLOGY DIVISION
AREA SOURCE MASTER FILE SUMMARY
FOR OHIO

COUNTY: C26C

CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RATE	UNITS	POLLUTANT I.D.	EMISSION FACTOR	EMISSIONS ESTIMATE
017	ON-HIGHWAY HDG	000000537	THOUS VMT	NOX THC	26.27 20.06	0000112 0000086
018	ON-HIGHWAY HDG	000022760	THOUS VMT	NOX THC	58.89 5.28	0000671 0000060
019	ON-HIGHWAY PC	000001544	THOUS VMT	NOX THC	1.33 13.43	0000001 0000010
020	RESIDENTIAL ANTHRACITE	000010319	TON	NOX THC	3.00 2.50	0000015 0000013
021	RESIDENTIAL BITUMINOUS	000000000	TON	NOX THC	6.00 3.00	0000000 0000000
022	RESIDENTIAL RESIDUAL OIL	000000000	THOUS GAL	NOX THC	18.00 1.00	0000000 0000000
023	RESIDENTIAL DISTILLATE	000003070	THOUS GAL	NOX THC	18.00 1.00	0000028 0000002
024	RESIDENTIAL NATURAL GAS	000002154	MIL CU FT	NOX THC	80.00 8.00	0000086 0000009
025	RESIDENTIAL LPG	000001944	THOUS GAL	NOX THC	7.50 0.75	0000007 0000001
026	RESIDENTIAL WOOD	000001422	TON	NOX THC	1.00 5.00	0000001 0000004
027	COMM/JUST ANTHRACITE	000000000	TON	NOX THC	10.00 0.00	0000000 0000000
028	COMM/JUST BITUMINOUS	000000000	TON	NOX THC	6.00 3.00	0000000 0000000
029	COMM/JUST RESIDUAL OIL	000000917	THOUS GAL	NOX THC	60.00 1.00	0000028 0000000

TABLE B-1 (continued)

SCS / TECHNOLOGY DIVISION
AREA SOURCE MASTER FILE SUMMARY
FOR OHIO

COUNTY: 0260

CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RATE	UNITS	POLLUTANT I.D.	EMISSION FACTOR	EMISSIONS ESTIMATE
030	COMM/INST DISTILLATE	000000000	THOUS GAL	NOX THC	22.00 1.00	000000 000000
031	COMM/INST NATURAL GAS	000000967	MIL CU FT	NOX THC	120.00 8.00	000005P 0000004
032	COMM/INST LPG	000000000	THOUS GAL	NOX THC	11.00 0.75	0000000 0000000
033	COMM/INST WOOD/OTHER	000000000	TON	NOX THC	1.00 5.00	0000000 0000000
034	INDUSTRIAL ANTHRACITE	000000000	TON	NOX THC	18.00 0.00	0000000 0000000
035	INDUSTRIAL BITUMINOUS	000028794	TON	NOX THC	15.00 1.00	0000216 0000014
036	INDUSTRIAL RESIDUAL OIL	000000417	THOUS GAL	NOX THC	60.00 1.00	0000013 0000000
037	INDUSTRIAL DISTILLATE OIL	000001938	THOUS GAL	NOX THC	22.00 1.00	0000021 0000001
038	INDUSTRIAL NATURAL GAS	000000319	MIL CU FT	NOX THC	175.00 3.00	0000028 0000000
039	INDUSTRIAL LPG	000000182	THOUS GAL	NOX THC	11.65 0.30	0000001 0000000
040	INDUSTRIAL WOOD/OTHER	000000000	TON	NOX THC	1.00 5.00	0000000 0000000
041	MILITARY AIRCRAFT	000000000	LND/TAKE OFF	NOX THC	9.16 27.10	0000000 0000000
042	CIVIL AIRCRAFT	000015330	LND/TAKE OFF	NOX THC	0.02 0.41	0000000 0000003

TABLE B-1 (continued)

GC / TECHNOLOGY DIVISION
AREA SOURCE MASTER FILE SUMMARY
FOR OHIO

COUNTY:0260

CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RATE	UNITS	POLLUTANT I.D.	EMISSION FACTOR	EMISSIONS ESTIMATE
043	COMMERCIAL AIRCRAFT	00000000	LND/TAKE OFF	NOX THC	26.93 30.46	0000000 0000000
044	RAILROAD LOCOMOTIVES	000001187	THOUS GAL	NOX THC	370.00 94.00	0000220 0000056
045	VESSELS - GASOLINE	000000100	THOUS GAL	NOX THC	39.05 835.47	0000002 0000042
046	VESSELS - DISTILLATE OIL	000000000	TPOUS GAL	NOX THC	270.00 50.00	0000000 0000000
047	VESSELS - RESIDUAL OIL	000000000	THOUS GAL	NOX THC	63.60 1.72	0000000 0000000
048	OFF-HIGHWAY VEHICLES-GAS	000000270	THOUS GAL	NOX THC	81.48 325.32	0000011 0000044
049	OFF-HIGHWAY VEH - DIESEL	000000472	THOUS GAL	NOX THC	377.12 50.85	0000089 0000012
050	ON-SITE INCINERATION	000006325	TON	NOX THC	2.53 47.11	0000008 0000149
051	OPEN BURNING	000020968	TON	NOX THC	5.53 20.02	0000075 0000391
052	STRUCTURAL FIRES	000000144	FIRES	NOX THC	17.00 107.00	0000001 0000008
053	FIELD/SLASH BURNING	000000000	TON	NOX THC	4.00 23.00	0000000 0000000
054	FOREST FIRES	000000217	ACFE	NOX THC	43.21 261.02	0000005 0000028
059	COUNTY TOTALS			THC THC NOX		0001373 0002092 0002774

TABLE B-1 (continued)

GC / TECHNOLOGY DIVISION
AREA SOURCE MASTER FILE SUMMARY
FOR 2010

COUNTY:0540

CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RATE	UNITS	POLLUTANT I.D.	EMISSION FACTOR	EMISSIONS ESTIMATE
001	STAGE I GASOLINE EVAP	000044445	THOUS GAL	THC	8.35	0000186
002	STAGE II GASOLINE EVAP	000043959	THOUS GAL	THC	9.70	0000213
003	STORAGE TANK BREATHING	000044445	THOUS GAL	THC	1.00	0000022
004	GASOLINE LOADING/TRANSIT	000044445	THOUS GAL	THC	6.87	0000153
005	SM IND/COMM DEGREASING	000042569	POPULATION	NHC	7.59	0000313
006	DRY CLEANING	000042569	POPULATION	NHC	1.50	0000062
007	ARCH SURFACE COATING	000042569	POPULATION	NHC	4.60	00000190
008	AUTO BODY PFFINISHING	000042569	POPULATION	NHC	1.90	0000078
009	SM IND SURFACE COATING	000006681	TON	THC	1.175.00	0000400
010	GRAPHIC ARTS	000042569	POPULATION	NHC	0.80	0000033
011	COMP/CCRS SOLVENT USE	000042569	POPULATION	NHC	6.10	0000260
012	CUTEACK ASPHALT	000001419	TON	NHC	400.00	0000284
013	PESTICIDES	000030495	ACRE	NHC	3.50	0000053
014	ON-HIGHWAY LDV	000430324	THOUS VMT	NOX NHC	7.68 7.57	0001660 0001637
015	ON-HIGHWAY LDT1	000027650	THOUS VMT	NOX NHC	8.24 8.57	0000114 0000118
016	ON-HIGHWAY LDT2	000027650	THOUS VMT	NOX NHC	9.48 9.61	0000131 0000133

TABLE B-1 (continued)

SCA / TECHNOLOGY DIVISION
AREA SOURCE MASTER FILE SUMMARY
FOR OHIO

COUNTY: 0540

CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RATE	UNITS	POLLUTANT I.D.	EMISSION FACTOR	EMISSIONS ESTIMATE
017	ON-HIGHWAY HOG	000015088	THOUS VMT	NOX	26.27	0000198
				NHC	20.06	0000151
018	ON-HIGHWAY HOD	000040263	THOUS VMT	NOX	58.89	0001186
				NHC	5.28	0000106
019	ON-HIGHWAY MC	000002729	THOUS VMT	NOX	1.33	0000002
				NHC	13.43	0000018
020	RESIDENTIAL ANTHRACITE	000034677	TON	NOX	3.00	0000058
				THC	2.50	0000048
021	RESIDENTIAL BITUMINOUS	000000000	TON	NOX	6.00	0000000
				THC	3.00	0000000
022	RESIDENTIAL RESIDUAL OIL	000000000	THOUS GAL	NOX	18.00	0000000
				THC	1.00	0000000
023	RESIDENTIAL DISTILLATE	000007253	THOUS GAL	NOX	18.00	0000065
				THC	1.00	0000024
024	RESIDENTIAL NATURAL GAS	000002951	MIL CU FT	NOX	80.00	0000118
				THC	8.00	0000012
025	RESIDENTIAL LPG	000000691	THOUS GAL	NOX	7.50	0000003
				THC	0.75	0000000
026	RESIDENTIAL WOOD	000004692	TON	NOX	1.00	0000002
				NHC	5.00	0000012
027	COMM/INST ANTHRACITE	000000000	TON	NOX	10.00	0000000
				THC	0.00	0000000
028	COMM/INST BITUMINOUS	000000000	TON	NOX	6.00	0000000
				THC	3.00	0000000
029	COMM/INST RESIDUAL OIL	000001215	THOUS GAL	NOX	60.00	0000036
				THC	1.00	0000001

TABLE B-1 (continued)

GC / TECHNOLOGY DIVISION
AREA SOURCE MASTER FILE SUMMARY
FOR OHIO

COUNTY: 540

CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RATE	UNITS	POLLUTANT EMISSION F.D. FACTOR	EMISSIONS ESTIMATE
030	COMM/INST DISTILLATE	000000000	THOUS GAL		
				NOX	22.00 0000000
				THC	1.00 0000000
031	COMM/INST NATURAL GAS	000001201	MIL CU FT		
				NOX	120.00 0000077
				THC	8.00 0000005
032	COMM/INST LPG	000000000	THOUS GAL		
				NOX	11.00 0000000
				THC	9.75 0000000
033	COMM/INST WOOD/OTHER	000000000	TON		
				NOX	1.00 0000007
				THC	5.00 0000000
034	INDUSTRIAL ANTHRACITE	000000000	TON		
				NOX	18.00 0000000
				THC	0.00 0000000
035	INDUSTRIAL BITUMINOUS	000135651	TON		
				NOX	15.00 0001047
				THC	1.00 0000070
036	INDUSTRIAL RESIDUAL OIL	000001990	THOUS GAL		
				NOX	60.00 0000060
				THC	1.00 0000001
037	INDUSTRIAL DISTILLATE OIL	000000014	THOUS GAL		
				NOX	22.00 0000057
				THC	1.00 0000004
038	INDUSTRIAL NATURAL GAS	000001501	MIL CU FT		
				NOX	175.00 0000131
				THC	3.00 0000002
039	INDUSTRIAL LPG	000000070	THOUS GAL		
				NOX	11.65 0000005
				THC	0.20 0000000
040	INDUSTRIAL WOOD/OTHER	000000000	TON		
				NOX	1.00 0000000
				THC	5.00 0000000
041	MILITARY AIRCRAFT	000000000	LND/TAKF OFF		
				NOX	9.16 0000000
				THC	27.10 0000000
042	CIVIL AIRCRAFT	000014600	LND/TAKF OFF		
				NOX	0.02 0000000
				THC	0.41 0000000

TABLE B-1 (continued)

GCA / TECHNOLOGY DIVISION AREA SOURCE MASTER FILE SUMMARY FOR OHIO									
COUNTY: 0540									
CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RATE	UNITS	POLLUTANT EMISSION I.D.	EMISSIONS ESTIMATE				
043	COMMERCIAL AIRCRAFT	000000000	LND/TAKE OFF	NOX THC	26.93 30.66				
044	RAILROAD LOCOMOTIVES	000002550	THOUS GAL	NOX THC	370.00 94.00				
045	VESSELS - GASOLINE	000000246	THOUS GAL	NOX THC	39.05 835.47				
046	VESSELS - DISTILLATE OIL	000000000	THOUS GAL	NOX THC	270.00 50.00				
047	VESSELS - RESIDUAL OIL	000000000	THOUS GAL	NOX THC	63.60 1.72				
048	OFF-HIGHWAY VEHICLES-GAS	000000461	THOUS GAL	NOX THC	86.77 295.35				
049	OFF-HIGHWAY VEH - DIESEL	000001027	THOUS GAL	NOX THC	397.27 44.79				
050	ON-SITE INCINERATION	000009749	TON	NOX TPC	2.05 45.13				
051	OFF-FLA BURNING	000039732	TON	NOX THC	5.53 29.02				
052	STRUCTURAL FIRES	000000093	PIPES	NOX TPC	17.00 107.00				
053	FILL/SLASH BURNING	000000000	TON	NOX THC	4.30 23.30				
054	FOREST FIRES	000000233	ACRE	NOX THC	43.21 261.02				
059	COUNTY TOTALS			THC THC NOX					

TABLE B-1 (continued)

OC / TECHNOLOGY DIVISION
AREA SOURCE MASTER FILE SUMMARY
FOR OHIO

COUNTY:1040

CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RATE	UNITS	POLLUTANT EMISSION F.D.	EMISSION FACTOR	EMISSIONS ESTIMATE
001	STAGE I GASOLINE EVAP	000016143	THOUS GAL	THC	8.35	0000067
002	STAGE II GASOLINE EVAP	000015966	THOUS GAL	THC	9.70	0000077
003	STORAGE TANK BREATHING	000016143	THOUS GAL	THC	1.00	0000008
004	GASOLINE LOADING/TRANSIT	000016143	THOUS GAL	THC	6.87	0000055
005	SP IND/COMM DEGREASING	000025598	POPULATION	NHC	7.59	0000097
006	DRY CLEANING	000025598	POPULATION	NHC	1.50	0000019
007	APCO SURFACE COATING	000025598	POPULATION	NHC	4.60	0000059
008	AUTO BODY REFINISHING	000025598	POPULATION	NHC	1.70	0000024
009	SP TTD SURFACE COATING	000000214	TON	THC	1,175.00	0000126
010	GRAPHIC ARTS	000025598	POPULATION	NHC	0.80	0000010
011	COMP/CLNS SOLVENT USE	000025598	POPULATION	NHC	6.30	0000081
012	CUTBACK ASPHALT	000000440	TON	NHC	400.00	0000088
013	PESTICIDES	0000043215	ACRE	NHC	3.50	0000076
014	ON-HIGHWAY LUV	000153589	THOUS VMT	NOX NHC	7.68 7.57	0000590 0000581
015	ON-HIGHWAY LOT1	000009823	THOUS VMT	NOX NHC	8.24 8.57	0000040 0000042
016	ON-HIGHWAY LOT2	000009823	THOUS VMT	NOX NHC	9.48 9.61	0000047 0000047

TABLE B-1 (continued)

SCA / TECHNOLOGY DIVISION
AREA SOURCE MASTER FILE SUMMARY
FOR OHIO

COUNTY:1040

CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RATL	UNITS	POLLUTANT EMISSION I.D. FACTOR	EMISSIONS ESTIMATE
017	ON-HIGHWAY HDG	000005360	THOUS VMT	NOX NHC	26.27 0000070 20.26 0000054
018	ON-HIGHWAY HDG	000014334	THOUS VMT	NOX NHC	58.89 0000421 5.28 0000038
019	ON-HIGHWAY MC	000000969	THOUS VMT	NOX NHC	1.33 0000001 13.43 0000007
020	RESIDENTIAL ANTHRACITE	000000803	TON	NOX THC	3.00 0000015 2.50 0000012
021	RESIDENTIAL BITUMINOUS	000000000	TON	NOX THC	6.00 0000000 3.00 0000000
022	RESIDENTIAL RESIDUAL OIL	000000000	THOUS GAL	NOX THC	19.00 0000000 1.00 0000000
023	RESIDENTIAL DISTILLATE	000003437	THOUS GAL	NOX THC	18.00 0000031 1.00 0000002
024	RESIDENTIAL NATURAL GAS	000001012	PIB CU FT	NOX THC	80.00 0000040 8.00 0000004
025	RESIDENTIAL LPG	000000074	THOUS GAL	NOX THC	7.50 0000003 0.75 0000000
026	RESIDENTIAL WOOD	000000000	TON	NOX NHC	1.00 0000000 5.00 0000000
027	COMM/INST ANTHRACITE	000000000	TON	NOX THC	10.00 0000000 0.00 0000000
028	COMM/INST BITUMINOUS	000000000	TON	NOX THC	6.00 0000000 3.00 0000000
029	COMM/INST RESIDUAL OIL	000000242	THOUS GAL	NOX THC	60.00 0000007 1.00 0000000

TABLE B-1 (continued)

SCS / TECHNOLOGY DIVISION
AREA SOURCE MASTER FILE SUMMARY
FOR GRI

COUNTRY:1040

CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RATE	UNITS	POLLUTANT I.D.	EMISSION FACTOR	EMISSIONS ESTIMATE
030	COMM/INST DISTILLATE	000000000	THOUS GAL	NOX THC	22.00 1.00	000000 000000
031	COMM/INST NATURAL GAS	000000255	MIL CU FT	NOX THC	120.00 8.00	0000015 0000001
032	COMM/INST LPG	000000000	THOUS GAL	NOX THC	11.00 0.75	0000000 0000000
033	COMM/INST WOOD/OTHER	000000000	TON	NOX THC	1.00 5.00	0000000 0000000
034	INDUSTRIAL ANTHRACITE	000000000	TON	NOX THC	18.00 0.30	0000000 0000000
035	INDUSTRIAL BITUMINOUS	000027354	TON	NOX THC	15.00 1.00	0000205 0000014
036	INDUSTRIAL RESIDUAL OIL	000000412	THOUS GAL	NOX THC	60.00 1.00	0000012 0000000
037	INDUSTRIAL DISTILLATE OIL	000001868	THOUS GAL	NOX THC	22.00 1.00	0000021 0000001
038	INDUSTRIAL NATURAL GAS	000000307	MIL CU FT	NOX THC	175.00 3.00	0000027 0000000
039	INDUSTRIAL LPG	000000170	THOUS GAL	NOX THC	11.65 0.10	0000001 0000000
040	INDUSTRIAL WOOD/OTHER	000000000	TON	NOX THC	1.00 5.00	0000000 0000000
041	MILITARY AIRCRAFT	000000000	LND/TAKE OFF	NOX THC	9.16 27.10	0000000 0000000
042	CIVIL AIRCRAFT	000000030	LND/TAKE OFF	NOX THC	0.02 0.41	0000000 0000002

TABLE B-1 (continued)

CCA / TECHNOLOGY DIVISION
AREA SOURCE MASTER FILE SUMMARY
FOR OHIO

COUNTY:1040

CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RATE	UNITS	POLLUTANT I.D.	EMISSION FACTOR	EMISSIONS ESTIMATE
043	COMMERCIAL AIRCRAFT	00000000	LBS/TAKE OFF	NOX THC	26.93 30.66	0000000 0000000
044	RAILROAD LOCOMOTIVES	000001076	THOUS GAL	NOX THC	370.00 94.00	0000199 0000051
045	VESSELS - GASOLINE	000000999	THOUS GAL	NOX THC	39.05 835.47	0000002 0000041
046	VESSELS - DISTILLATE OIL	000000000	THOUS GAL	NOX THC	270.00 50.00	0000000 0000000
047	VESSELS - RESIDUAL OIL	000000000	THOUS GAL	NOX THC	63.60 1.72	0000000 0000000
048	OFF-HIGHWAY VEHICLES-GAS	000000272	THOUS GAL	NOX THC	102.54 227.94	0000014 0000031
049	OFF-HIGHWAY VEH - DIESEL	000000481	THOUS GAL	NOX THC	349.27 54.05	0000004 0000013
050	ON-SITE INCINERATION	000003132	TON	NOX THC	2.55 44.06	0000004 0000069
051	OPEN BURNING	000012373	TON	NOX THC	5.53 29.02	0000034 0000180
052	STRUCTURAL FIRES	000000041	FIRES	NOX THC	17.00 107.00	0000000 0000002
053	FIELD/SLASH BURNING	000000000	TON	NOX THC	4.00 23.00	0000000 0000009
054	FOREST FIRES	000000170	ACRE	NOX THC	43.21 261.02	0000004 0000022
99	COUNTY TOTALS			THC NOX NOX		0000774 0001223 0001487

TABLE B-1 (continued)

GA / TECHNOLOGY DIVISION
AREA SOURCE MASTER FILE SUMMARY
FOR C116

COUNTY:1440

CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RATE	UNITS	POLLUTANT EMISSION I.D.	EMISSION FACTOR	EMISSIONS ESTIMATE
001	STAGE 1 GASOLINE EVAP	00006600R	THOUS GAL	THC	8.35	0000276
002	STAGE II GASOLINE EVAP	0000662E5	THOUS GAL	THC	9.70	0000317
003	STORAGE TANK BREATHING	00006600R	THOUS GAL	THC	1.00	0000033
004	GASOLINE LOADING/TRANSIT	00006600R	THOUS GAL	THC	6.87	0000227
005	SP ITD/CONP DEGREASING	000113572	POPULATION	NHC	7.59	0000431
006	DRY CLEANING	000113572	POPULATION	NHC	1.50	0000005
007	ARCH SURFACE COATING	000113572	POPULATION	NHC	4.60	0000261
008	AUTO BODY R FINISHING	000113572	POPULATION	NHC	1.90	0000108
009	SP ITD SURFACE COATING	000000941	TON	THC	1,175.00	0000553
010	GRAPHIC ARTS	000113572	POPULATION	NHC	0.80	0000045
011	COAT/CO'S SOLVENT USE	000113572	POPULATION	NHC	6.30	0000358
012	CUTPAK ASPHALT	000001952	TON	NHC	400.00	0000390
013	PESTICIDES	00006488R	ACRF	NHC	3.50	0000122
014	ON-HIGHWAY LDV	00053710R	THOUS VMT	NOX NHC	7.68 7.57	0002446 0002412
015	ON-HIGHWAY LDT1	000040747	THOUS VMT	NOX NHC	8.24 8.57	0000168 0000175
016	ON-HIGHWAY LDT2	000040747	THOUS VMT	NOX NHC	5.46 9.61	0000193 0000196

TABLE B-1 (continued)

SCA / TECHNOLOGY DIVISION
AREA SOURCE MASTER FILE SUMMARY
FOR OHIO

CATEGORY		CATEGORY		PROCESS		POLLUTANT EMISSION		EMISSIONS	
NUMBER		DESCRIPTION		RATE		I.O.		ESTIMATE	
917		ON-HIGHWAY HDG		000022336 THOUS VMT		NOX		26.27 0000292	
						NHC		20.06 0000223	
018		ON-HIGHWAY HDD		000059335 THOUS VMT		NOX		58.89 0001747	
						NHC		5.28 0000157	
019		ON-HIGHWAY MC		000004021 THOUS VMT		NOX		1.33 0000003	
						NHC		13.43 0003027	
020		RESIDENTIAL ANTHRACITE		000037211 TON		NOX		3.00 0000056	
						THC		2.50 0000047	
021		RESIDENTIAL BITUMINOUS		000000000 TON		NOX		6.00 0000000	
						THC		3.00 0000000	
022		RESIDENTIAL RESIDUAL OIL		000000000 THOUS GAL		NOX		18.00 0000003	
						THC		1.00 0000000	
023		RESIDENTIAL DISTILLATE		000011046 THOUS GAL		NOX		18.00 0000099	
						THC		1.00 0000006	
024		RESIDENTIAL NATURAL GAS		000004014 MIL CU FT		NOX		80.00 0000161	
						THC		8.00 0000016	
025		RESIDENTIAL LPG		000001797 THOUS GAL		NOX		7.50 0000007	
						THC		0.75 0000001	
026		RESIDENTIAL WOOD		000000000 TON		NOX		1.00 0000000	
						NHC		5.00 0000000	
027		COMM/INST ANTHRACITE		000000000 TON		NOX		10.00 0000000	
						THC		0.00 0000000	
028		COMM/INST BITUMINOUS		000000000 TON		NOX		6.00 0000000	
						THC		3.00 0000000	
029		COMM/INST RESIDUAL OIL		000001920 THOUS GAL		NOX		60.00 0000058	
						THC		1.00 0000001	

TABLE B-1 (continued)

SC / TECHNOLOGY DIVISION
AREA SOURCE MASTER FILE SUMMARY
FOR OHIO

COUNTY:1440

CATEGORY NUMBER (30)	CATEGORY DESCRIPTION COMP/INST DISTILLATE	PRCLSS RATE 00000000 THOUS GAL	UNITS THOUS GAL	POLLUTANT I.D.	EMISSION FACTOR	EMISSIONS ESTIMATE
031	COMM/INST NATURAL GAS	000002024	MIL CU FT	NOX THC	22.00 1.00	0000000 0000000
032	COMM/INST LPG	000000000	THOUS GAL	NOX THC	120.00 8.00	0000121 0000008
033	COMM/INST WOOD/OTHER	000000000	TON	NOX THC	11.00 0.75	0000000 0000000
034	INDUSTRIAL ANTHRACITE	000000000	TON	NOX THC	1.00 5.00	0000000 0000000
035	INDUSTRIAL BITUMINOUS	000202998	TON	NOX THC	18.00 0.00	0000000 0000000
036	INDUSTRIAL RESIDUAL OIL	000000095	THOUS GAL	NOX THC	15.00 1.00	0001522 0000101
037	INDUSTRIAL DISTILLATE OIL	000013454	THOUS GAL	NOX THC	60.00 1.00	0000087 0000001
038	INDUSTRIAL NATURAL GAS	000002213	MIL CU FT	NOX THC	22.00 1.00	0000148 0000007
039	INDUSTRIAL LPG	000001266	THOUS GAL	NOX THC	175.00 3.00	0000194 0000003
040	INDUSTRIAL WOOD/OTHER	000000000	TON	NOX THC	11.00 0.30	0000007 0000000
041	MILITARY AIRCRAFT	000000000	LND/TAKE OFF	NOX THC	1.00 5.00	0000000 0000000
042	CIVIL AIRCRAFT	000043435	LND/TAKE OFF	NOX THC	9.16 27.10	0000000 0000000
				NOX THC	0.02 0.41	0000001 0000009

TABLE B-1 (continued)

GCA / TECHNOLOGY DIVISION
AREA SOURCE MASTER FILE SUMMARY
FOR CPIC

COUNTY:1440

CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RATE	UNITS	POLLUTANT I.C.	EMISSION FACTOR	EMISSIONS ESTIMATE
043	COMMERCIAL AIRCRAFT	00000000	LBS/TAKE OFF	NOX THC	26.93 30.66	0000000 0000000
044	RAILROAD LOCOMOTIVES	000002555	THOUS GAL	NOX THC	370.30 94.00	0000473 0000120
045	VESSELS - GASOLINE	000000169	THOUS GAL	NOX THC	39.05 835.47	0000003 0000071
046	VESSELS - DISTILLATE OIL	000000000	THOUS GAL	NOX THC	270.00 50.00	0000000 0000000
047	VESSELS - RESIDUAL OIL	000000000	THOUS GAL	NOX THC	63.60 1.72	0000000 0000000
048	OFF-HIGHWAY VEHICLES-GAS	000000551	THOUS GAL	NOX THC	94.37 341.20	0000026 0000094
049	OFF-HIGHWAY VEH - DIESEL	000001325	THOUS GAL	NOX THC	396.98 45.28	0000263 0000030
050	ON-SITE INCINERATION	000015221	TON	NOX THC	2.23 40.99	0000017 0000312
051	OPEN BURNING	000055576	TON	NOX THC	5.53 29.02	0000154 0000407
052	STRUCTURAL FIRES	000000281	FIRLS	NOX THC	17.00 107.00	0000002 0000015
053	FIELD/SLASH BURNING	000000000	TON	NOX THC	4.00 23.00	0000000 0000000
054	FOREST FIRES	000000105	ACRE	NOX THC	43.21 261.02	0000002 0000014
099	COUNTY TOTALS			THC NOX NOX		0000069 0004990 0006250

TABLE B-1 (continued)

6CA / TECHNOLOGY DIVISION
AREA SOURCE MASTER FILE SUMMARY
FOR 2010

COUNTY:1520

CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RATE	UNITS	POLLUTANT EMISSION I.D.	EMISSIONS FACTOR	EMISSIONS ESTIMATE
001	STAGE I GASOLINE EVAP	000021800	THOUS GAL	THC	8.25	0000091
002	STAGE II GASOLINE EVAP	000021562	THOUS GAL	THC	9.70	0000105
003	STORAGE TANK BREATHING	000021800	THOUS GAL	THC	1.00	0000011
004	GASOLINE LOADING/TRANSIT	000021800	THOUS GAL	THC	6.87	0000075
005	SH IND/COMM DEGREASING	000036024	POPULATION	NHC	7.59	0000137
006	DRY CLEANING	000036024	POPULATION	NHC	1.50	0000027
007	ARCH SURFACE COATING	000036024	POPULATION	NHC	4.60	0000083
008	AUT BODY REFINISHING	000036024	POPULATION	NHC	1.90	0000034
009	SH IND SURFACE COATING	000000296	TON	THC	1,175.00	0000174
010	GRAPHIC ARTS	000036024	POPULATION	NHC	0.80	0000014
011	COMM/CCFS SOLVENT USE	000036024	POPULATION	NHC	6.30	0000113
012	CUTBACK ASPHALT	000000619	TON	NHC	400.00	0000124
013	PESTICIDES	000066675	ACRF	NHC	3.50	0000117
014	ON-HIGHWAY LDV	000217473	THOUS VMT	NOX NHC	7.68 7.57	0000608 0000797
015	ON-HIGHWAY LDT1	000013461	THOUS VMT	NOX NHC	8.24 8.57	0000055 0000058
016	ON-HIGHWAY LDT2	000013461	THOUS VMT	NOX NHC	9.48 9.61	0000064 0000065

TABLE B-1 (continued)

SCA / TECHNOLOGY DIVISION
AREA SOURCE MASTER FILE SUMMARY
FOR OHIO

COUNTY:1520

CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS PAIL	UNITS	POLLUTANT I.D.	EMISSION FACTOR	EMISSIONS ESTIMATE
017	ON-HIGHWAY HDG	000007346	THOUS VMT	NOX NHC	26.27 20.06	0000097 0000074
018	ON-HIGHWAY HDD	000019602	THOUS VMT	NOX NHC	58.89 5.28	0000577 0000052
019	ON-HIGHWAY HC	000001328	THOUS VMT	NOX NHC	1.23 13.43	0000001 0000009
020	RESIDENTIAL ANTHRACITE	000015644	TON	NOX THC	3.00 2.50	0000023 0000020
021	RESIDENTIAL BITUMINOUS	000000000	TON	NOX THC	6.00 3.00	0000000 0000000
022	RESIDENTIAL RESIDUAL OIL	000000000	THOUS GAL	NOX THC	18.00 1.00	0000000 0000000
023	RESIDENTIAL DISTILLATE	000003276	THOUS GAL	NOX THC	16.00 1.00	0000029 0000002
024	RESIDENTIAL NATURAL GAS	000001392	MIL CU FT	NOX THC	80.00 8.00	0000056 0000006
025	RESIDENTIAL LPG	000000826	THOUS GAL	NOX THC	7.50 0.75	0000003 0000000
026	RESIDENTIAL WOOD	000000000	TON	NOX NHC	1.00 5.00	0000000 0000000
027	COMM/INST ANTHRACITE	000000000	TON	NOX THC	10.00 0.00	0000000 0000000
028	COMM/INST BITUMINOUS	000000000	TON	NOX THC	6.00 3.00	0000000 0000000
029	COMM/INST RESIDUAL OIL	000000634	THOUS GAL	NOX THC	60.00 1.00	0000019 0000000

TABLE B-1 (continued)

CCP / TECHNOLOGY DIVISION
AREA SOURCE MASTER FILE SUMMARY
FOR OHIO

COUNTY:520

CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS PAIL	UNITS	POLLUTANT I.D.	EMISSION FACTOR	EMISSIONS ESTIMATE
030	COM/INST DISTILLATE	000000000	THOUS GAL	NOX THC	22.00 1.00	0000000 0000000
031	COM/INST NATURAL GAS	000000669	MIL CU FT	NOX THC	120.00 8.00	0000040 0000003
032	COM/INST LPG	000000000	THOUS GAL	NOX THC	11.00 0.75	0000000 0000000
033	COM/INST WOOD/OTHER	000000000	TON	NOX THC	1.00 5.00	0000000 0000000
034	INDUSTRIAL ANTHRACITE	000000000	TON	NOX THC	18.00 0.00	0000000 0000000
035	INDUSTRIAL BITUMINOUS	000105098	TON	NOX THC	15.00 1.00	0000788 0000053
036	INDUSTRIAL RESIDUAL OIL	000000000	THOUS GAL	NOX THC	60.00 1.00	0000000 0000000
037	INDUSTRIAL DISTILLATE OIL	000000662	THOUS GAL	NOX THC	22.00 1.00	0000064 0000003
038	INDUSTRIAL NATURAL GAS	000000000	MIL CU FT	NOX THC	175.00 3.00	0000000 0000000
039	INDUSTRIAL LPC	000000653	THOUS GAL	NOX THC	11.65 0.30	0000004 0000000
040	INDUSTRIAL WOOD/OTHER	000000000	TON	NOX THC	1.00 5.00	0000000 0000000
041	MILITARY AIRCRAFT	000000000	LND/TAKE OFF	NOX THC	9.16 27.10	0000000 0000000
042	CIVIL AIRCRAFT	000012045	LND/TAKE OFF	NOX THC	0.02 0.41	0000000 0000002

TABLE B-1 (continued)

6CA / TECHNOLOGY DIVISION
AREA SOURCE MASTER FILE SUMMARY
FOR OHIO

COUNTY:1520

CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RATE	UNITS	POLLUTANT I.D.	EMISSION FACTOR	EMISSIONS ESTIMATE
043	COMMERCIAL AIRCRAFT	00000000	LND/TAKE OFF	NOX THC	26.93 30.66	0000000 0000000
044	RAILROAD LOCOMOTIVES	000001372	THOUS GAL	NOX THC	370.00 94.00	0000254 0000964
045	VESSELS - GASOLINE	000000085	THOUS GAL	NOX THC	39.05 835.47	0000002 0000036
046	VESSELS - DISTILLATE OIL	000000000	THOUS GAL	NOX THC	270.00 50.00	0000000 0000000
047	VESSELS - RESIDUAL OIL	000000000	THOUS GAL	NOX THC	63.60 1.72	0000000 0000000
048	OFF-HIGHWAY VEHICLES-GAS	000000426	THOUS GAL	NOX THC	107.58 225.35	0000023 0000049
049	OFF-HIGHWAY VEH - DIESEL	000000842	THOUS GAL	NOX THC	365.80 52.25	0000154 0000022
050	CAR-TIRE INCINERATION	000005405	TON	NOX THC	2.22 37.74	0000006 0000102
051	WPE, BURNING	000017524	TON	NOX THC	5.53 29.32	0000050 0000060
052	STRUCTURAL FIRES	000000090	FIRES	NOX THC	17.00 107.00	0000001 0000095
053	FIRE/SLASH BURNING	000000000	TON	NOX THC	4.00 23.00	0000000 0000000
054	FOREST FIRES	000000245	ACRL	NOX THC	43.21 261.02	0000005 0000032
999	COUNTY TOTALS			THC NOX NOX		0001114 0001704 0003123

TABLE B-1 (continued)

GCA / TECHNOLOGY DIVISION
AREA SOURCE MASTER FILE SUMMARY
FOR OHIO

CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RATE	UNITS	POLLUTANT I.D.	EMISSION FACTOR	EMISSIONS ESTIMATE
001	STAGE I GASOLINE EVAP	000776202	THOUS GAL	THC	8.49	0003295
002	STAGE II GASOLINE EVAP	000776202	THOUS GAL	THC	9.70	0003765
003	STORAGE TANK BREATHING	000776202	THOUS GAL	THC	1.00	0000388
004	GASOLINE LOADING/TRANSIT	000290539	THOUS GAL	THC	6.87	0000998
005	SM IND/COMM DEGREASING	000003274	TON	NHC	2,000.00	0003274
006	DRY CLEANING	000100029	OTHER	NHC	27.31	0001366
007	ARCH SURFACE COATING	001498295	POPULATION	NHC	4.60	0003446
008	AUTO BODY REFINISHING	001498295	POPULATION	NHC	1.35	0001015
009	SM IND SURFACE COATING	000012443	TON	THC	1,175.00	0007310
010	GRAPHIC ARTS	001498295	POPULATION	NHC	0.80	0000599
011	COMM/CCMS SOLVENT USE	001498295	POPULATION	NHC	6.30	0004720
012	CUTEACK ASPHALT	000015131	TON	NHC	417.00	0003155
013	PESTICIDES	000000000	ACRE	NHC	3.50	0000015
014	ON-HIGHWAY LDV	007121963	THOUS VMT	NOX NHC	7.68 7.57	0027348 0026964
015	ON-HIGHWAY LDV1	000455489	THOUS VMT	NOX NHC	8.24 8.57	0001877 0001952
016	ON-HIGHWAY LDV2	000455489	THOUS VMT	NOX NHC	9.48 9.61	0002160 0002189

TABLE B-1 (continued)

SCF / TECHNOLOGY DIVISION
AREA SOURCE MASTER FILE SUMMARY
FOR OHIO

COUNTY:1600

CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RATE	UNITS	POLLUTANT I.D.	EMISSION FACTOR	EMISSIONS ESTIMATE
C17	ON-HIGHWAY HDG	000248562	THOUS VMT	NOX NHC	26.27 20.06	0003266 0002494
018	ON-HIGHWAY HDG	000663283	THOUS VMT	NOX NHC	58.89 5.28	0019531 0001752
019	ON-HIGHWAY MC	000644949	THOUS VMT	NOX NHC	1.33 13.43	0000030 0000302
020	RESIDENTIAL ANTHRACITE	000002538	TON	NOX THC	3.00 2.50	0003004 0000303
021	RESIDENTIAL BITUMINOUS	000000000	TON	NOX THC	6.00 3.00	0003000 0000000
022	RESIDENTIAL RESIDUAL OIL	000000000	THOUS GAL	NOX THC	18.00 1.00	0000000 0000000
023	RESIDENTIAL DISTILLATE	000106134	THOUS GAL	NOX THC	18.00 1.00	0003955 0000053
024	RESIDENTIAL NATURAL GAS	000019300	MIL CU FT	NOX THC	80.00 8.00	0000772 0000077
025	RESIDENTIAL LPG	000012080	THOUS GAL	NOX THC	0.70 0.70	0000004 0000004
026	RESIDENTIAL WOOD	000000000	TON	NOX NHC	1.00 5.00	0000000 0000000
027	COMM/INST ANTHRACITE	000005260	TON	NOX THC	18.00 0.00	0000048 0000000
028	COMM/INST BITUMINOUS	000000000	TON	NOX THC	6.00 3.00	0000000 0000300
029	COMM/INST RESIDUAL OIL	000002260	THOUS GAL	NOX THC	60.00 1.00	0000068 0000001

TABLE B-1 (continued)

SCS / TECHNOLOGY DIVISION
AREA SOURCE MASTER FILE SUMMARY
FOR OHIO

COUNTY:1600

CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RATE	UNITS	POLLUTANT I.D.	EMISSION FACTOR	EMISSIONS ESTIMATE
030	COM/INST DISTILLATE	00000614	THOUS GAL	NOX THC	22.00 1.00	0000007 0000000
031	COM/INST NATURAL GAS	000007668	MIL CU FT	NOX THC	120.00 8.00	0000460 0000031
032	COM/INST LPG	000010262	THOUS GAL	NOX THC	11.00 0.70	0000056 0000004
033	COM/INST WOOD/OTHER	000000000	TON	NOX THC	1.00 5.00	0000000 0000000
034	INDUSTRIAL ANTHRACITE	000000000	TON	NOX THC	18.00 0.00	0000000 0000000
035	INDUSTRIAL BITUMINOUS	004450111	TON	NOX THC	15.00 1.00	0033376 0002225
036	INDUSTRIAL RESIDUAL OIL	000016253	THOUS GAL	NOX THC	60.00 1.00	0000488 0000004
037	INDUSTRIAL FISTILLATE OIL	000000000	THOUS GAL	NOX THC	22.00 1.00	0000000 0000000
038	INDUSTRIAL NATURAL GAS	000036032	MIL CU FT	NOX THC	175.00 2.00	0003153 0000054
039	INDUSTRIAL LPG	000006811	THOUS GAL	NOX THC	11.20 0.30	0000038 0000001
040	INDUSTRIAL WOOD/OTHER	000000000	TON	NOX THC	1.00 5.00	0000000 0000000
041	MILITARY AIRCRAFT	000000000	LAND/TAKE OFF	NOX THC	9.16 27.10	0000000 0000000
042	CIVIL AIRCRAFT	000340360	LAND/TAKE OFF	NOX THC	0.30 0.82	0000351 0000140

TABLE B-1 (continued)

COUNTY:1600		GCM / TECHNOLOGY DIVISION AREA SOURCE MASTER FILE SUMMARY FOR OPIU						
CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS PAIL	UNITS	POLLUTANT I.D.	EMISSION FACTOR	EMISSIONS ESTIMATE		
043	COMMERCIAL AIRCRAFT	000134062	LND/TAKE OFF	NOX THC	24.84 31.41	0001665 0002106		
044	RAILROAD LOCOMOTIVES	000026096	THOUS GAL	NOX THC	370.00 94.00	0004828 0001227		
045	VESSELS - GASOLINE	000002825	THOUS GAL	NOX THC	418.00 442.00	0000590 0000624		
046	VESSELS - DISTILLATE OIL	000001501	THOUS GAL	NOX THC	260.00 59.00	0000195 0000044		
047	VESSELS - RESIDUAL OIL	000003990	THOUS GAL	NOX THC	36.40 3.20	0000073 0000006		
048	OFF-HIGHWAY VEHICLES-GAS	000005048	THOUS GAL	NOX THC	156.27 373.77	0000707 0001691		
049	OFF-HIGHWAY VEH - DIESEL	000028321	THOUS GAL	NOX THC	334.38 35.38	0004735 0000501		
050	ON-SITE INCINERATION	000229224	TON	NOX THC	2.32 6.17	0000266 0000704		
051	OPEN BURNING	000073461	TON	NOX THC	4.98 30.00	0000183 0001102		
052	STRUCTURAL FIRES	000003830	FIRES	NOX THC	17.00 107.00	0000333 0000305		
053	FIELD/SLASH BURNING	000000000	TON	NOX THC	4.00 23.00	0000000 0000000		
054	FOREST FIRES	000000017	ACRE	NOX THC	43.21 261.02	0000900 0000002		
099	COUNTY TOTALS			THC NOX NOX		0026573 0053243 0106567		

TABLE B-1 (continued)

GC / TECHNOLOGY DIVISION
AREA SOURCE MASTER FILE SUMMARY
FOR OHIO

COUNTY: 0360

CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS PATH	UNITS	POLLUTANT I.D.	EMISSION FACTOR	EMISSIONS ESTIMATE
001	STAGE I GASOLINE EVAP	000055499	THOUS GAL	THC	8.35	0000232
002	STAGE II GASOLINE EVAP	000054692	THOUS GAL	THC	9.70	0000266
003	STORAGE TANK BREATHING	000055499	THOUS GAL	THC	1.00	0000028
004	GASOLINE LOADING/TRANSIT	000055499	THOUS GAL	THC	6.87	0000191
005	SM. ILD/COMP. DEWAXING	000093676	POPULATION	NHC	7.59	0000356
006	DRY CLEANING	000093678	POPULATION	NHC	1.50	0000070
007	ARCH SURFACE COATING	000093678	POPULATION	NHC	4.60	0000215
008	AUTO BODY REFINISHING	000093678	POPULATION	NHC	1.90	0000089
009	SM. IJD SURFACE COATING	000000780	TON	THC	1,175.00	0000458
010	GRAPHIC ARTS	000093678	POPULATION	NHC	0.80	0000037
011	COMP/CONS. SOLVENT USE	000093678	POPULATION	NHC	6.30	0000295
012	CUTBACK ASPHALT	00001610	TON	NHC	400.00	0000322
013	PESTICIDES	000131580	ACRE	NHC	3.50	0000230
014	ON-HIGHWAY LDV	000534716	THOUS VMT	NOX NHC	7.68 7.57	0002053 0002024
015	ON-HIGHWAY LUT1	000034198	THOUS VMT	NOX NHC	8.24 8.57	0000141 0000147
016	ON-HIGHWAY LOT2	000034198	THOUS VMT	NOX NHC	9.48 9.61	0000162 0000164

TABLE B-1 (continued)

SCA / TECHNOLOGY DIVISION
AREA SOURCE MASTER FILE SUMMARY
FOR OPIU

COUNTY:2080

CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RATE	UNITS	POLLUTANT I.D.	EMISSION FACTOR	EMISSIONS ESTIMATE
017	ON-HIGHWAY HDG	000018662	THOUS VMT	NOX NHC	26.27 20.06	0000245 0000187
018	ON-HIGHWAY HDD	000049795	THOUS VMT	NOX NHC	58.89 5.28	0001465 0000132
019	ON-HIGHWAY HC	000003375	THOUS VMT	NOX NHC	1.33 13.43	0000002 0000023
020	RESIDENTIAL ANTHRACITE	000007117	TON	NOX THC	3.00 2.50	0000011 0000009
021	RESIDENTIAL BITUMINOUS	000000000	TON	NOX THC	6.00 3.00	0000000 0000000
022	RESIDENTIAL RESIDUAL OIL	000000000	THOUS GAL	NOX THC	18.00 1.00	0000000 0000000
023	RESIDENTIAL DISTILLATE	000007341	THOUS GAL	NOX THC	18.00 1.00	0000066 0000004
024	RESIDENTIAL NATURAL GAS	000000571	MIL CU FT	NOX THC	80.00 8.00	0000143 0000014
025	RESIDENTIAL LPG	000001646	THOUS GAL	NOX THC	7.50 0.75	0000006 0000001
026	RESIDENTIAL WOOD	000001549	TON	NOX NHC	1.00 5.00	0000001 0000004
027	COMM/INST ANTHRACITE	000000000	TON	NOX THC	10.00 0.20	0000000 0000000
028	COMM/INST BITUMINOUS	000000000	TON	NOX THC	6.00 3.00	0000000 0000000
029	COMM/INST RESIDUAL OIL	000001236	THOUS GAL	NOX THC	60.00 1.00	0000037 0000001

TABLE B-1 (continued)

GCA / TECHNOLOGY DIVISION
AREA SOURCE MASTER FILE SUMMARY
FOR OHIO

COUNTY:2080

CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RATE	UNITS	POLLUTANT I.D.	EMISSION FACTOR	EMISSIONS ESTIMATE
030	COMM/INST DISTILLATE	000000000	THOUS GAL	NOX THC	22.00 1.00	0000000 0000000
031	COMM/INST NATURAL GAS	000001303	MIL CU FT	NOX THC	120.00 8.00	0000078 0000005
032	COMM/INST LPG	000000000	THOUS GAL	NOX THC	11.00 0.75	0000000 0000000
033	COMM/INST WOOD/OTHER	000000000	TON	NOX THC	1.00 5.00	0000000 0000000
034	INDUSTRIAL ANTHRACITE	000000000	TON	NOX THC	18.00 0.00	0000000 0000000
035	INDUSTRIAL BITUMINOUS	000220274	TON	NOX THC	15.00 1.00	0001652 0000110
036	INDUSTRIAL RESIDUAL OIL	000003150	THOUS GAL	NOX THC	60.00 1.00	0000095 0000002
037	INDUSTRIAL DISTILLATE OIL	000014645	THOUS GAL	NOX THC	22.00 1.00	0000161 0000007
038	INDUSTRIAL NATURAL GAS	000002908	MIL CU FT	NOX THC	175.00 3.00	0000211 0000004
039	INDUSTRIAL LPG	000001377	THOUS GAL	NOX THC	11.65 0.30	0000008 0000000
040	INDUSTRIAL WOOD/OTHER	000000000	TON	NOX THC	1.00 5.00	0000000 0000000
041	MILITARY AIRCRAFT	000000000	LND/TAKE OFF	NOX THC	9.16 27.10	0000000 0000000
042	CIVIL AIRCRAFT	000038325	LND/TAKE OFF	NOX THC	0.02 0.41	0000001 0000006

TABLE B-1 (continued)

GC1 / TECHNOLOGY DIVISION
AREA SOURCE MASTER FILE SUMMARY
FOR OHIO

COUNTY:2060

CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS PATE	UNITS	POLLUTANT I.D.	EMISSION FACTOR	EMISSIONS ESTIMATE
043	COMMERCIAL AIRCRAFT	00000000	LND/TAKE OFF	NOX THC	26.93 30.66	0000000 0000000
044	RAILROAD LOCOMOTIVES	000001557	THOUS GAL	NOX TPC	370.00 94.00	0000288 0000073
045	VESSELS - GASOLINE	000000181	THOUS GAL	NOX THC	39.05 835.47	0000004 0000076
046	VESSELS - DISTILLATE OIL	000000000	THOUS GAL	NOX TPC	270.00 50.00	0000000 0000000
047	VESSELS - RESIDUAL OIL	000000000	THOUS GAL	NOX THC	63.60 1.72	0000000 0000000
048	OFF-HIGHWAY VEHICLES-GAS	000000703	THOUS GAL	NOX THC	96.73 264.58	0007034 0000093
049	OFF-HIGHWAY VEH - DIESEL	000001604	THOUS GAL	NOX TPC	387.78 46.13	0000311 0000037
050	CN-SITE INCINERATION	000013559	TON	NOX THC	2.36 38.94	0000016 0000264
051	OPEN BURNING	000046354	TON	NOX THC	5.53 25.02	0000128 0000073
052	STRUCTURAL FIRES	000000188	FIRES	NOX THC	17.00 107.00	0000002 0000010
053	FIELD/SLASH BURNING	000000000	TON	NOX THC	4.00 23.00	0000000 0000000
054	FOREST FIRES	000000098	ACRE	NOX THC	43.21 261.02	0000002 0000013
059	COUNTY TOTALS			THC NPC NOX		0002579 0004295 0007324

TABLE B-1 (continued)

SCS / TECHNOLOGY DIVISION
AFER SOURCE MASTER FILE SUMMARY
FOR CPIO

COUNTY:0220

CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RATE	UNITS	POLLUTANT I.D.	EMISSION FACTOR	EMISSIONS ESTIMATE
001	STAGE I GASOLINE EVAP	000454995	THOUS GAL	THC	8.35	0001900
002	STAGE II GASOLINE EVAP	000450015	THOUS GAL	THC	9.70	0002183
003	STORAGE TANK BREATHING	000454995	THOUS GAL	THC	1.00	0000227
004	GASOLINE LOADING/TRANSIT	000454995	THOUS GAL	THC	6.87	0001563
005	SM TID/CCM/ DEGREASING	000869109	POPULATION	NHC	7.59	0003298
006	DRY CLEANING	000869109	POPULATION	NHC	1.50	0000652
007	ARCH SURFACE COATING	000869109	POPULATION	NHC	4.60	0001999
008	AUTC BODY R FINISHING	000869109	POPULATION	NHC	1.90	0000426
009	SM I/D SURFACE COATING	000007217	TON	THC	1,175.00	0004240
010	GRAPHIC ARTS	000869109	POPULATION	NPC	0.40	0000148
011	COMP/CONS SOLVENT USE	000869109	POPULATION	NHC	6.30	0002738
012	CUTEACK ASPHALT	000014937	TON	NHC	400.00	0002987
013	PLASTICIDES	000102044	ACFE	NPC	3.50	0000179
014	ON-HIGHWAY LCV	004004563	THOUS VMT	NOX NHC	7.68 7.57	0016929 0016791
015	ON-HIGHWAY LDT1	000261952	THOUS VMT	NOX NHC	8.24 8.57	0001162 0001208
016	ON-HIGHWAY LDT2	000261952	THOUS VMT	NOX NHC	9.48 9.61	0001337 0001355

TABLE B-1 (continued)

CC4 / TECHNOLOGY DIVISION
AREA SOURCE MASTER FILE SUMMARY
FOR OHIO

COUNTRY:2220

CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RATE	UNITS	POLLUTANT I.D.	EMISSION FACTOR	EMISSIONS ESTIMATE
017	ON-HIGHWAY HDG	000153862	THOUS VMT	NOX	26.27	0002022
				NHC	20.06	0001544
018	ON-HIGHWAY HDD	0004410579	THOUS VMT	NOX	58.59	0012090
				NHC	5.28	0001064
019	ON-HIGHWAY MC	000027824	THOUS VMT	NOX	1.33	0000019
				NHC	13.43	0000187
020	RESIDENTIAL ANTHRACITE	000014460	TON	NOX	3.00	0000026
				THC	2.50	0000023
021	RESIDENTIAL BITUMINOUS	000000000	TON	NOX	6.00	0000000
				THC	3.00	0000000
022	RESIDENTIAL RESIDUAL OIL	000000000	THOUS GAL	NOX	18.00	0000000
				THC	1.00	0000000
023	RESIDENTIAL DISTILLATE	000025664	THOUS GAL	NOX	18.00	0000231
				THC	1.00	0000013
024	RESIDENTIAL NATURAL GAS	000030804	MIL CU FT	NOX	80.00	0001235
				THC	8.00	0000123
025	RESIDENTIAL LPG	000007225	THOUS GAL	NOX	7.50	0000027
				THC	0.75	0000001
026	RESIDENTIAL WOOD	000000000	TON	NOX	1.00	0000000
				NHC	5.00	0000000
027	COMM/INST ANTHRACITE	000000000	TON	NOX	10.00	0000000
				THC	0.00	0000000
028	COMM/INST BITUMINOUS	000000000	TON	NOX	6.00	0000000
				THC	3.00	0000000
029	COMM/INST RESIDUAL OIL	000034616	THOUS GAL	NOX	60.00	0001034
				THC	1.00	0000017

TABLE B-1 (continued)

CCP / TECHNOLOGY DIVISION
AREA SOURCE MASTER FILE SUMMARY
FOR OHIO

COUNTY: 0220

CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RATE	UNITS	POLLUTANT I.D.	EMISSION FACTOR	EMISSIONS ESTIMATE
030	COMM/INST DISTILLATE	000000000	THOUS GAL			
				NOX	22.00	0000000
				THC	1.00	0000000
031	COMM/INST NATURAL GAS	000036469	MIL CU FT	NOX	120.00	0002189
				THC	6.00	0000146
032	COMM/INST LPG	000000000	THOUS GAL	NOX	11.00	0000000
				THC	0.75	0000000
033	COMM/INST WOOD/OTHER	000000000	TON	NOX	1.00	0000000
				THC	5.00	0000000
034	INDUSTRIAL ANTHRACITE	000000000	TON	NOX	18.00	0000000
				THC	0.00	0000000
035	INDUSTRIAL BITUMINOUS	001621101	TON	NOX	15.00	0012158
				THC	1.00	0000811
036	INDUSTRIAL RESIDUAL OIL	000023160	THOUS GAL	NOX	60.00	0000695
				THC	1.00	0000012
037	INDUSTRIAL DISTILLATE OIL	000100512	THOUS GAL	NOX	22.00	0001106
				THC	1.00	0000050
038	INDUSTRIAL NATURAL GAS	000017706	MIL CU FT	NOX	175.00	0001549
				THC	3.00	0000027
039	INDUSTRIAL LPG	000010126	THOUS GAL	NOX	11.65	0000059
				THC	0.30	0000002
040	INDUSTRIAL WOOD/OTHER	000000000	TON	NOX	1.00	0000000
				THC	5.00	0000000
041	MILITARY AIRCRAFT	000035572	LWD/TAKE OFF	NOX	9.16	0000163
				THC	27.10	0000482
042	CIVIL AIRCRAFT	000016090	LWD/TAKE OFF	NOX	0.02	0000074
				THC	0.41	0000065

TABLE B-1 (continued)

SCA / TECHNOLOGY DIVISION
AREA SOURCE MASTER FILE SUMMARY
FOR OHIO

COUNTY:2220

CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RATE	UNITS	POLLUTANT I.D.	EMISSION FACTOR	EMISSIONS ESTIMATE
043	COMMERCIAL AIRCRAFT	000023534	LND/TAKE OFF	NOX THC	26.93 30.66	0000322 0000367
044	RAILROAD LOCOMOTIVES	000005303	THOUS GAL	NOX THC	370.30 94.00	0000381 0000249
045	VESSELS - GASOLINE	000001176	THOUS GAL	NOX THC	39.05 835.47	0000023 0000491
046	VESSELS - DISTILLATE OIL	000000000	THOUS GAL	NOX THC	270.00 50.00	0000000 0000000
047	VESSELS - RESIDUAL OIL	000000000	THOUS GAL	NOX THC	63.60 1.72	0000000 0000000
048	OFF-HIGHWAY VEHICLES-GAS	000003195	THOUS GAL	NOX THC	53.77 375.12	0000086 0000400
049	OFF-HIGHWAY VEH - DIESEL	000015053	THOUS GAL	NOX THC	436.46 35.21	0003285 0000265
050	ON-SITE INCINERATION	000115141	TON	NOX THC	2.29 41.42	0000132 0002395
051	OPEN BURNING	000424612	TON	NOX THC	5.53 29.02	0001174 0006162
052	STRUCTURAL FIRES	000002602	FIRES	NOX THC	17.00 107.00	0000022 0000139
053	FILLO/SLASH BURNING	000000000	TON	NOX THC	4.00 23.00	0000000 0000000
054	FOREST FIRES	000000020	ACRE	NOX THC	43.21 261.02	0000000 0000003
099	COUNTY TOTALS			THC NPC NOX		002548 0035096 0060066

TABLE B-1 (continued)

GC / TECHNOLOGY DIVISION
AREA SOURCE MASTER FILE SUMMARY
FOR OHIO

COUNTY:2380

CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RATE	UNITS	POLLUTANT I.D.	EMISSION FACTOR	EMISSIONS ESTIMATE
001	STAGE I GASOLINE EVAP	000041605	THOUS GAL	THC	8.35	0000174
002	STAGE II GASOLINE EVAP	000041149	THOUS GAL	THC	9.70	0000200
003	STORAGE TANK BREATHING	000041605	THOUS GAL	THC	1.00	0000021
004	GASOLINE LOADING/TRANSIT	000041605	THOUS GAL	THC	6.87	0000143
005	SM TLD/COMM DEGP/CLASING	000074474	POPULATION	NHC	7.59	0000283
006	DRY CLEANING	000074474	POPULATION	NHC	1.50	0000056
007	ARCH SURFACE COATING	000074474	POPULATION	NHC	4.60	0000171
008	AUTO BODY REFINISHING	000074474	POPULATION	NHC	1.50	0000071
009	SM ITO SURFACE COATING	000006614	TON	THC	1.175.00	0000363
010	GRAPHIC ARTS	000074474	POPULATION	NHC	0.60	0000130
011	COMM/CLAS SOLVENT USE	000074474	POPULATION	NHC	6.30	0000235
012	CUTBACK ASPHALT	000001280	TON	NHC	400.00	0000256
013	PLASTICS	000027195	ACRE	NHC	3.50	0000048
014	ON-HIGHWAY LDV	600403281	THOUS VMT	NOX NHC	7.68 7.57	0001191 0001529
015	ON-HIGHWAY LDT1	000025830	THOUS VMT	NOX NHC	8.24 8.57	0000106 0000111
016	ON-HIGHWAY LDT2	000025830	THOUS VMT	NOX NHC	9.48 9.61	0000122 0000124

TABLE B-1 (continued)

PCA / TECHNOLOGY DIVISION
AREA SOURCE MASTER FILE SUMMARY
FOR GHG

COUNTY:2380

CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RATE	UNITS	POLLUTANT I.D.	EMISSION FACTOR	EMISSIONS ESTIMATE
017	ON-HIGHWAY HDG	000014096	THOUS VMT	NOX NHC	26.27 20.06	0000185 0000141
018	ON-HIGHWAY HDG	000037614	THOUS VMT	NOX NHC	58.89 5.28	0001108 0000099
019	ON-HIGHWAY MC	000002549	THOUS VMT	NOX NHC	1.53 13.43	0000002 0000017
020	RESIDENTIAL ANTHRACITE	000007761	TON	NOX THC	3.00 2.50	0000012 0000010
021	RESIDENTIAL BITUMINOUS	000000000	TON	NOX THC	6.00 3.00	0000000 0000000
022	RESIDENTIAL RESIDUAL OIL	000000000	THOUS GAL	NOX THC	18.00 1.00	0000000 0000000
023	RESIDENTIAL DISTILLATE	000022288	THOUS GAL	NOX THC	18.00 1.00	0000201 0000011
024	RESIDENTIAL NATURAL GAS	000003090	MIL CU FT	NOX THC	80.00 8.00	0000124 0000012
025	RESIDENTIAL LPG	000001520	THOUS GAL	NOX THC	7.50 0.75	0000006 0000001
026	RESIDENTIAL WOOD	000028460	TON	NOX NHC	1.00 5.00	0000014 0000071
027	COMM/INST ANTHRACITE	000000000	TON	NOX THC	10.00 0.00	0000000 0000000
028	COMM/INST BITUMINOUS	000000000	TON	NOX THC	6.00 3.00	0000000 0000000
029	COMM/INST RESIDUAL OIL	000000997	THOUS GAL	NOX THC	60.00 1.00	0000030 0000000

TABLE B-1 (continued)

CCA / RECOMMENDATION
AREA SOURCE MASTER FILE SUMMARY
FOR CFIQ

COUNTRY: 360

CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RATE	UNITS	POLLUTANT I.D.	EMISSION FACTOR	EMISSIONS ESTIMATE
030	COMM/INST DISTILLATE	000000000	THOUS GAL	NOX THC	22.00 1.00	0000000 0000000
031	COMM/INST NATURAL GAS	000001051	MIL CU FT	NOX THC	120.00 8.00	0000063 0000004
032	COMM/INST LPG	000000000	THOUS GAL	NOX THC	11.00 0.75	0000000 0000000
033	COMM/INST WOOD/OTHER	000000000	TON	NOX THC	1.00 5.00	0000000 0000000
034	INDUSTRIAL ANTHRACITE	000000000	TON	NOX THC	18.00 0.00	0000000 0000000
035	INDUSTRIAL BITUMINOUS	000123014	TON	NOX THC	15.00 1.00	0000029 0000062
036	INDUSTRIAL RESIDUAL OIL	000001768	THOUS GAL	NOX THC	60.00 1.00	0000053 0000001
037	INDUSTRIAL DISTILLATE OIL	000000221	THOUS GAL	NOX THC	22.00 1.00	0000090 0000004
038	INDUSTRIAL NATURAL GAS	000001352	MIL CU FT	NOX THC	175.00 3.00	0000118 0000002
039	INDUSTRIAL LPG	000000773	THOUS GAL	NOX THC	11.05 0.30	0000005 0000000
040	INDUSTRIAL FUEL/OTHER	000000000	TON	NOX THC	1.00 5.00	0000000 0000000
041	MILITARY AIRCRAFT	000000000	LND/TAKE OFF	NOX THC	9.16 27.10	0000000 0000000
042	CIVIL AIRCRAFT	000036325	LND/TAKE OFF	NOX THC	0.02 0.41	0000001 0000008

TABLE B-1 (continued)

SCS / TECHNOLOGY DIVISION
AREA SOURCE MASTER FILE SUMMARY
FOR 941C

COUNTY:239C

CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RATE	UNITS LMD/TAKE OFF	POLLUTANT I.D.	EMISSION FACTOR	EMISSIONS ESTIMATE
043	COMMERCIAL AIRCRAFT	00000000		NOX THC	26.53 30.66	000000 000000
044	RAILROAD LOCOMOTIVES	000000482	THOUS GAL	NOX THC	370.10 94.00	0000089 0000023
045	VESSELS - GASOLINE	000000107	THOUS GAL	NOX THC	39.05 835.47	0000002 0000045
046	VESSELS - DISTILLATE OIL	000000000	THOUS GAL	NOX THC	270.00 50.00	0000000 0000000
047	VESSELS - RESIDUAL OIL	000000000	THOUS GAL	NOX THC	63.60 1.72	0000000 0000000
048	OFF-HIGHWAY VEHICLES-GAS	000000359	THOUS GAL	NOX THC	61.30 314.36	0000015 0000058
049	OFF-HIGHWAY VEH - DIESEL	000001204	THOUS GAL	NOX THC	415.28 39.87	0000250 0000024
050	ON-SITE INCINERATION	000000686	TON	NOX THC	2.27 41.51	0000011 0000203
051	OPEN BURNING	000030292	TON	NOX THC	5.53 29.02	0000100 0000527
052	STRUCTURAL FIRES	000000096	FIRES	NOX THC	17.00 107.00	0000001 0000005
053	FIELD/SLASH BURNING	000000000	TON	NOX THC	4.00 23.00	0000000 0000000
054	FOREST FIRES	000000015	ACPE	NOX THC	43.21 261.02	0000000 0000002
099	COUNTY TOTALS			THC NHC NOX		0001503 0003242 0005188

TABLE B-1 (continued)

 OCA / TECHNOLOGY DIVISION
 AREA SOURCE MASTER FILE SUMMARY
 FOR OHIO

COUNTY:2600

CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS NAME	UNITS	POLLUTANT EMISSION F.D.	EMISSION FACTOR	EMISSIONS ESTIMATE
001	STAGE 1 GASOLINE EVAP	000023511 THOUS GAL	THC	8.35	0000098	
002	STAGE II GASOLINE EVAP	000023254 THOUS GAL	THC	9.70	0000113	
003	STORAGE TANK BREATHING	000023511 THOUS GAL	THC	1.00	0000012	
004	GASOLINE LOADING/TRANSIT	000023511 THOUS GAL	THC	6.87	0000081	
005	SP. IP/DCOMM DESGREASING	000042024 POPULATION	NHC	7.59	0000159	
006	DRY CLEANING	000042024 POPULATION	NHC	1.50	0000032	
007	ARCH SURFACE COATING	000042024 POPULATION	NHC	4.60	0000097	
008	AUTO BODY REFINISHING	000042024 POPULATION	NHC	1.90	0000040	
009	SM IP/O SURFACE COATING	000000349 TON	THC	1,175.00	0000205	
010	GRAPHIC ARTS	000042024 POPULATION	NHC	0.60	0000017	
011	CLUB/CCMS SOLVENT USE	000042024 POPULATION	NHC	6.30	0000132	
012	CUTEACK ASPHALT	000000722 TON	NHC	400.00	0000144	
013	PESTICIDES	000031671 ACRE	NHC	3.50	0000055	
014	ON-HIGHWAY LDV	000227539 THOUS VMT	NOX NHC	7.68 7.57	0000674 0000661	
015	ON-HIGHWAY LDT1	000014552 THOUS VMT	NOX NHC	8.24 8.57	0000060 0000062	
016	ON-HIGHWAY LDT2	000014552 THOUS VMT	NOX NHC	9.48 9.61	0000069 0000070	

TABLE B-1 (continued)

GCA / TECHNOLOGY DIVISION
AREA SOURCE MASTER FILE SUMMARY
FOR OHIO

COUNTY:2680

CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RATE	UNITS	POLLUTANT I.O.	EMISSION FACTOR	EMISSIONS ESTIMATE
017	ON-HIGHWAY FOG	000037941	THOUS VMT	NOX NHC	26.27 20.06	0000104 0000083
018	ON-HIGHWAY FOG	000021191	THOUS VMT	NOX NHC	58.89 5.28	0000024 0000056
019	ON-HIGHWAY FOG	000001416	THOUS VMT	NOX NHC	1.73 13.43	0000001 0000010
020	RESIDENTIAL ANTHRACITE	000000175	TON	NOX THC	3.00 2.50	0000012 0000010
021	RESIDENTIAL BITUMINOUS	000000000	TON	NOX THC	6.00 3.00	0000000 0000000
022	RESIDENTIAL RESIDUAL OIL	000000000	THOUS GAL	NOX THC	18.00 1.00	0000000 0000000
023	RESIDENTIAL DISTILLATE	000003209	THOUS GAL	NOX THC	18.00 1.00	0000029 0000002
024	RESIDENTIAL NATURAL GAS	000015974	MIL CU FT	NOX THC	80.00 8.00	0000639 0000064
025	RESIDENTIAL LPG	000000001	THOUS GAL	NOX THC	7.50 0.75	0000002 0000000
026	RESIDENTIAL WOOD	000001507	TON	NOX NHC	1.00 5.00	0000001 0000004
027	COMM/INST ANTHRACITE	000000000	TON	NOX THC	10.00 0.00	0000000 0000000
028	COMM/INST BITUMINOUS	000000000	TON	NOX THC	6.00 3.00	0000000 0000000
029	COMM/INST RESIDUAL OIL	000000076	THOUS GAL	NOX THC	60.00 1.00	0000023 0000000

TABLE B-1 (continued)

GCA / TECHNOLOGY DIVISION
AREA SOURCE MASTER FILE SUMMARY
FOR GHG

COUNTRY:2680

CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RATE	UNITS	POLLUTANT I.D.	EMISSION FACTOR	EMISSIONS ESTIMATE
030	COMM/INST DISTILLATE	00000000	THOUS GAL	NOX THC	22.00 1.00	000000 000000
031	COMM/INST NATURAL GAS	00000000	MIL CU FT	NOX THC	120.00 8.00	000000 000000
032	COMM/INST LPG	00000000	THOUS GAL	NOX THC	11.00 0.75	000000 000000
033	COMM/INST WOOD/OTHER	00000000	TON	NOX THC	1.00 5.00	000000 000000
034	INDUSTRIAL ANTHRACITE	00000000	TON	NOX THC	18.00 0.00	000000 000000
035	INDUSTRIAL BITUMINOUS	00010365	TON	NOX THC	15.00 1.00	000777 000052
036	INDUSTRIAL RESIDUAL OIL	00000147	THOUS GAL	NOX THC	60.00 1.00	000000 000001
037	INDUSTRIAL DISTILLATE OIL	00000000	THOUS GAL	NOX THC	22.00 1.00	000000 000000
038	INDUSTRIAL NATURAL GAS	00000000	MIL CU FT	NOX THC	175.00 3.00	000000 000000
039	INDUSTRIAL LPG	00000000	THOUS GAL	NOX THC	11.65 0.30	000000 000000
040	INDUSTRIAL WOOD/OTHER	00000000	TON	NOX THC	1.00 5.00	000000 000000
041	MILITARY AIRCRAFT	00000000	LND/TAKE OFF	NOX THC	9.16 27.10	000000 000000
042	CIVIL AIRCRAFT	00000000	LND/TAKE OFF	NOX THC	0.02 0.41	000000 000000

TABLE B-1 (continued)

GCA / TECHNOLOGY DIVISION
AREA SOURCE MASTER FILE SUMMARY
FOR CHIO

COUNTY:0660

CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RATE	UNITS	POLLUTANT I.D.	EMISSION FACTOR	EMISSIONS ESTIMATE
043	COMMERCIAL AIRCRAFT	00000000	LNO/TAKF OFF	NOX THC	26.93 30.66	000000 000000
044	RAILROAD LOCOMOTIVES	000001187	THOUS GAL	NOX THC	370.00 94.00	0000229 0000056
045	VESSELS - GASOLINE	000000113	THOUS GAL	NOX THC	39.05 835.47	0000002 0000047
046	VESSELS - DISTILLATE OIL	000000000	THOUS GAL	NOX THC	270.00 50.00	0000000 0000000
047	VESSELS - RESIDUAL OIL	000000000	THOUS GAL	NOX THC	63.60 1.72	0000000 0000000
048	OFF-HIGHWAY VEHICLES-GAS	000000352	THOUS GAL	NOX THC	104.71 246.10	0000020 0000047
049	OFF-HIGHWAY VEH - DIESEL	000000819	THOUS GAL	NOX THC	361.41 50.06	0000160 0000021
050	ON-SITE INCINERATION	000005932	TON	NOX THC	2.36 39.78	0000007 0000114
051	OPEN BURNING	000020718	TON	NOX THC	5.53 29.02	0000057 0000301
052	STRUCTURAL FIRES	000000071	FIRES	NOX THC	17.00 107.00	0000001 0000004
053	FIELD/GLASS BURNING	000000000	TON	NOX THC	4.00 23.00	0000000 0000000
054	FOREST FIRES	000000020	ACRE	NOX THC	43.21 261.02	0000005 0000030
059	COUNTY TOTALS			THC HHC NOX		0001270 0001819 0003859

TABLE B-1 (continued)

SCA / TECHNOLOGY DIVISION
AREA SOURCE MASTER FILE SUMMARY
FOR OJJN

COUNTY:2800

CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RATE	UNITS	POLLUTANT I.O.	EMISSION FACTOR	EMISSIONS ESTIMATE
001	STAGE I GASOLINE EVAP	000011034	THOUS GAL	THC	8.35	0000046
002	STAGE II GASOLINE LVAP	000010913	THOUS GAL	THC	9.70	0000053
003	STORAGE TANK BREATHING	000011034	THOUS GAL	THC	1.00	0000006
004	GASOLINE LOADING/TRANSIT	000011034	THOUS GAL	THC	6.87	0000038
005	SM IND/COMM DEGREASING	000018152	POPULATION	NHC	7.59	0000069
006	DRY CLEANING	000018152	POPULATION	NHC	1.50	0000014
007	ARCH SURFACE COATING	000018152	POPULATION	NHC	4.80	0000042
008	AUTO BODY REFINISHING	000018152	POPULATION	NHC	1.90	0000017
009	SM IND SURFACE COATING	000000153	TON	THC	1.175.00	0000090
010	GRAPHIC ARTS	000018152	POPULATION	NHC	0.40	0000007
011	COMM/COMM SOLVENT USE	000018152	POPULATION	NHC	6.30	0000057
012	CUTEACK ASPHALT	000000312	TON	NHC	400.00	0000062
013	PESTICIDES	000021844	ACRE	THC	3.50	0000038
014	OR-HIGHWAY LDV	000102081	THOUS VMT	NOX NHC	7.68 7.57	0000415 0007409
015	OR-HIGHWAY LDT1	000006912	THOUS VMT	NOX NHC	8.24 8.57	0000028 0000039
016	OR-HIGHWAY LDT2	000006912	THOUS VMT	NOX NHC	9.48 9.61	0000033 0000033

TABLE B-1 (continued)

SCS / TECHNOLOGY DIVISION
AREA SOURCE MASTER FILE SUMMARY
FOR OHIO

COUNTY:2800

CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS PATH	UNITS	POLLUTANT I.D.	EMISSION FACTOR	EMISSIONS ESTIMATE
017	ON-HIGHWAY HDG	000003772	THOUS VMT	NOX NPC	26.27 20.06	0000350 0000038
018	ON-HIGHWAY HDG	000010066	THOUS VMT	NOX NHC	58.89 5.28	0003296 0000027
019	ON-HIGHWAY FC	000000682	THOUS VMT	NOX NHC	1.33 13.43	0000000 0000005
020	RESIDENTIAL ANTHRACITE	000013589	TON	NOX THC	3.00 2.50	0000020 0000017
021	RESIDENTIAL BITUMINOUS	000000000	TON	NOX THC	6.00 3.00	0000000 0000000
022	RESIDENTIAL RESIDUAL OIL	000000000	THOUS GAL	NOX THC	18.00 1.00	0000000 0000000
023	RESIDENTIAL DISTILLATE	000002092	THOUS GAL	NOX THC	18.00 1.00	0000019 0000001
024	RESIDENTIAL NATURAL GAS	000000678	MIL CU FT	NOX THC	80.00 9.00	0000027 0000003
025	RESIDENTIAL LPG	000000576	THOUS GAL	NOX THC	7.50 0.75	0000002 0000000
026	RESIDENTIAL WOOD	000000000	TON	NOX NHC	1.00 5.00	0000000 0000000
027	COMM/INST ANTHRACITE	000000000	TON	NOX THC	10.00 0.00	0000000 0000000
028	COMM/INST BITUMINOUS	000000000	TON	NOX THC	6.00 3.00	0000000 0000000
029	COMM/INST RESIDUAL OIL	000000221	THOUS GAL	NOX THC	60.00 1.00	0000007 0000000

TABLE B-1 (continued)

607 / TECHNOLOGY DIVISION
AREA SOURCE MASTER FILE SUMMARY
FOR QUID

CITY:2800

CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RATE	UNITS	POLLUTANT I.D.	EMISSION FACTOR	EMISSIONS ESTIMATE
030	COMP/INST DISTILLATE	00000000	THOUS GAL	NOX THC	22.00 1.00	000000 000000
031	COMP/INST NATURAL GAS	000000233	MIL CU FT	NOX THC	120.00 8.00	0000014 0000001
032	COMP/INST LPG	00000000	THOUS GAL	NOX THC	11.00 0.75	0000000 0000000
033	COMM/INST WOOD/OTHER	00000000	TON	NOX THC	1.00 5.00	0000000 0000000
034	INDUSTRIAL ANTHRACITE	00000000	TON	NOX THC	18.00 0.00	0000000 0000000
035	INDUSTRIAL BITUMINOUS	00053269	TON	NOX THC	15.00 1.00	0000000 0000027
036	INDUSTRIAL RESIDUAL OIL	00000076	THOUS GAL	NOX THC	60.00 1.00	0000023 0000000
037	INDUSTRIAL DISTILLATE OIL	000003561	THOUS GAL	NOX THC	22.00 1.00	0000039 0000002
038	INDUSTRIAL NATURAL GAS	000000586	MIL CU FT	NOX THC	175.00 3.00	0000051 0000001
039	INDUSTRIAL LPG	000000335	THOUS GAL	NOX THC	11.65 0.30	0000002 0000000
040	INDUSTRIAL WOOD/OTHER	00000000	TON	NOX THC	1.00 5.00	0000000 0000000
041	MILITARY AIRCRAFT	00000000	LND/TAKE OFF	NOX THC	9.16 27.10	0000000 0000000
042	CIVIL AIRCRAFT	000006570	LND/TAKE OFF	NOX THC	0.02 0.41	0000000 0000001

TABLE B-1 (continued)

GCA / TECHNOLOGY DIVISION
AREA SOURCE WASTES FILE SUMMARY
FOR OHIO

COUNTY:2800

CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RATE	UNITS	POLLUTANT I.D.	EMISSION FACTOR	EMISSIONS ESTIMATE
043	COMMERCIAL AIRCRAFT	000000000	LMD/TAKE OFF	NOX THC	26.93 30.66	0000000 0000000
044	RAILROAD LOCOMOTIVES	000000000	THOUS GAL	NOX THC	370.00 94.00	0000000 0000000
045	VESSELS - GASOLINE	000000000	THOUS GAL	NOX THC	39.05 835.47	0000000 0000000
046	VESSELS - DISTILLATE OIL	000000000	THOUS GAL	NOX THC	270.00 50.00	0000000 0000000
047	VESSELS - RESIDUAL OIL	000000000	THOUS GAL	NOX THC	63.60 1.72	0000000 0000000
048	OFF-HIGHWAY VEHICLES-GAS	000000000	THOUS GAL	NOX THC	104.27 227.49	0000000 0000000
049	OFF-HIGHWAY VEH - DIESEL	000000000	THOUS GAL	NOX THC	358.67 49.05	0000000 0000000
050	ON-SITE INCINERATION	000000000	TON	NOX THC	1.80 43.59	0000000 0000000
051	OPEN BURNING	000000000	TON	NOX THC	5.53 29.02	0000000 0000000
052	STRUCTURAL FIRES	000000000	FIRES	NOX THC	17.00 107.00	0000000 0000000
053	FILL/SLASH BURNING	000000000	TON	NOX THC	4.00 23.00	0000000 0000000
054	FOREST FIRES	000000000	ACRE	NOX THC	43.21 261.02	0000000 0000000
099	COUNTY TOTALS			THC NOX NOX		0000000 0000000 0000000

TABLE B-1 (continued)

GC / TECHNOLOGY DIVISION
AREA SOURCE MASTER FILE SUMMARY
FOR GHG

COUNTY:0960

CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RATE	UNITS	POLLUTANT EMISSION F.I.O.	EMISSIONS FACTOR	EMISSIONS ESTIMATE
001	STAGE I GASOLINE EVAP	000011811	THOUS GAL	THC	8.35	0000049
002	STAGE II GASOLINE EVAP	000011682	THOUS GAL	THC	9.70	0000057
003	STORAGE TANK BREATHING	000011811	THOUS GAL	THC	1.00	0000006
004	GASOLINE LOADING/TRANSIT	000011811	THOUS GAL	THC	6.87	0000041
005	SM IND/COMM DEGREASING	000029416	POPULATION	NHC	7.59	0000112
006	DRY CLEANING	000029416	POPULATION	NHC	1.50	0000022
007	ARCH SURFACE COATING	000029416	POPULATION	NHC	4.60	0000068
008	AUT BODY REFINISHING	000029416	POPULATION	NHC	1.90	0000028
009	SM FLD SURFACE COATING	000000242	TON	THC	1.0175.00	0000142
010	GRAPHIC ARTS	000029416	POPULATION	NHC	0.80	0000012
011	COMM/CONS SOLVENT USE	000029416	POPULATION	NHC	6.30	0000093
012	CUTBACK ASPHALT	000000506	TON	NHC	400.00	0000101
013	PESTICIDES	000000906	ACRE	NHC	3.50	0000142
014	ON-HIGHWAY LOV	000111769	THOUS VMT	NOX NHC	7.68 7.57	0000437 0000431
015	ON-HIGHWAY LD11	000007276	THOUS VMT	NOX NHC	8.24 8.57	0000639 0000631
016	ON-HIGHWAY LD12	000007276	THOUS VMT	NOX NHC	9.48 9.61	0000035 0000035

TABLE B-1 (continued)

GCA / TECHNOLOGY DIVISION
AREA SOURCE FASTER FILE SUMMARY
FOR OHIO

COUNTY:2960

CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RATE	UNITS	POLLUTANT I.D.	EMISSION FACTOR	EMISSIONS ESTIMATE
017	ON-HIGHWAY HDG	000003971	THOUS VMT	NOX NHC	26.27 20.06	0000052 0000040
018	ON-HIGHWAY HDD	000010596	THOUS VMT	NOX NHC	58.89 5.28	0000312 0000024
019	ON-HIGHWAY MC	000000718	THOUS VMT	NOX NHC	1.33 13.43	0000000 0000005
020	RESIDENTIAL ANTHRACITE	000017157	TON	NOX THC	3.00 2.50	0000026 0000021
021	RESIDENTIAL BITUMINOUS	000000000	TON	NOX THC	6.00 3.00	0000000 0000000
022	RESIDENTIAL RESIDUAL OIL	000000000	THOUS GAL	NOX THC	18.00 1.00	0000000 0000000
023	RESIDENTIAL DISTILLATE	000002617	THOUS GAL	NOX THC	18.00 1.00	0000024 0000001
024	RESIDENTIAL NATURAL GAS	000001160	MIL CU FT	NOX THC	80.00 8.00	0000046 0000005
025	RESIDENTIAL LPG	000000380	THOUS GAL	NOX THC	7.50 0.75	0000001 0000000
026	RESIDENTIAL WOOD	000000432	TON	NOX NHC	1.00 5.00	0000005 0000024
027	COMM/INST ANTHRACITE	000000000	TON	NOX THC	10.00 0.00	0000000 0000000
028	COMM/INST BITUMINOUS	000000000	TON	NOX THC	6.00 3.00	0000000 0000000
029	COMM/INST RESIDUAL OIL	000000333	THOUS GAL	NOX THC	60.00 1.00	0000010 0000000

TABLE B-1 (continued)

6CA / TECHNOLOGY DIVISION
AREA SOURCE MASTER FILE SUMMARY
FOR OHIO

COUNTY:2969

CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RATE	UNITS	POLLUTANT I.D.	EMISSION FACTOR	EMISSIONS ESTIMATE
030	COMM/INST DISTILLATE	000000000	THOUS GAL	NOX THC	22.00 1.00	0000000 0000000
031	COMM/INST NATURAL GAS	000000361	MIL CU FT	NOX THC	120.00 8.00	0000021 0000001
032	COMM/INST LPG	000000000	THOUS GAL	NOX THC	11.00 0.75	0000000 0000000
033	COMM/INST WOOD/OTHER	000000000	TON	NOX THC	1.00 5.00	0000000 0000000
034	INDUSTRIAL ANTHRACITE	000000000	TON	NOX THC	18.00 0.00	0000000 0000000
035	INDUSTRIAL BITUMINOUS	000054709	TON	NOX THC	15.00 1.00	0000410 0000027
036	INDUSTRIAL RESIDUAL OIL	000000773	THOUS GAL	NOX THC	60.00 1.00	0000023 0000000
037	INDUSTRIAL DISTILLATE OIL	000000356	THOUS GAL	NOX THC	22.00 1.00	0000040 0000002
038	INDUSTRIAL NATURAL GAS	000000591	MIL CU FT	NOX THC	175.00 3.00	0000052 0000001
039	INDUSTRIAL LPG	000000030	THOUS GAL	NOX THC	11.65 0.70	0000002 0000000
040	INDUSTRIAL WOOD/OTHER	000000000	TON	NOX THC	1.00 5.00	0000000 0000000
041	MILITARY AIRCRAFT	000000000	LND/TAKE OFF	NOX THC	9.16 27.10	0000000 0000000
042	CIVIL AIRCRAFT	000000635	LND/TAKE OFF	NOX THC	0.02 0.41	0000000 0000001

TABLE B-1 (continued)

GCA / TECHNOLOGY DIVISION
AREA SOURCE MASTER FILE SUMMARY
FOR OHIO

COUNTY:2960

CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RATE	UNITS	POLLUTANT I.D.	EMISSION FACTOR	EMISSIONS ESTIMATE
043	COMMERCIAL AIRCRAFT	000000000	LND/TAKE OFF	NOX THC	26.93 30.66	0000000 0000000
044	RAILROAD LOCOMOTIVES	000000816	THOUS GAL	NOX THC	370.00 94.00	0000151 0000038
045	VESSELS - GASOLINE	000000032	THOUS GAL	NOX THC	39.05 835.47	0000001 0000013
046	VESSELS - DISTILLATE OIL	000000000	THOUS GAL	NOX THC	270.00 50.00	0000000 0000000
047	VESSELS - RESIDUAL OIL	000000000	THOUS GAL	NOX THC	63.60 1.72	0000000 0000000
048	OFF-HIGHWAY VEHICLES-GAS	000000479	THOUS GAL	NOX THC	116.91 200.41	0000028 0000049
049	OFF-HIGHWAY VEH - DIESEL	000000937	THOUS GAL	NOX THC	352.19 55.49	0000165 0000026
050	ON-SITE INCINERATION	000003931	TON	NOX THC	2.54 41.21	0000005 0000081
051	OPEN BURNING	000014389	TON	NOX THC	5.53 29.02	0000040 0000009
052	STRUCTURAL FIRES	000006020	FIRES	NOX THC	17.00 107.00	0000000 0000001
053	FILL/SLASH BURNING	000000000	TON	NOX THC	4.00 23.00	0000000 0000000
054	FOREST FIRES	000000159	ACRE	NOX THC	43.21 261.02	0000003 0000021
059	COUNTY TOTALS			THC THC NOX		0000191 0001172 0001919

TABLE B-1 (continued)

CC1 / TECHNOLOGY DIVISION
AREA SOURCE MASTER FILE SUMMARY
FOR 2013

COUNTY:3160

CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RAT.	UNITS	POLLUTANT I.D.	EMISSION FACTOR	EMISSIONS ESTIMATE
001	STAGE I GASOLINE EVAP	000049749	THOUS GAL	THC	8.75	0000208
002	STAGE II GASOLINE EVAP	000049205	THOUS GAL	THC	9.70	0000239
003	STORAGE TANK BREATHING	000049749	THOUS GAL	THC	1.00	0000025
004	GASOLINE LOADING/TRANSIT	000049749	THOUS GAL	THC	6.87	0000171
005	SM IND/COMM DEGREASING	000091564	POPULATION	NHC	7.59	0000347
005	DRY CLEANING	000091564	POPULATION	NHC	1.50	0000069
007	ARCH SURFACE COATING	00009164	POPULATION	NHC	4.60	0000211
008	AUTO BODY REFINISHING	000091564	POPULATION	NHC	1.90	0000067
009	SP IND SURFACE COATING	000006763	TON	THC	1,175.00	0000444
010	GRAPHIC ARTS	000091564	POPULATION	NHC	0.80	0000037
011	COMP/CCNS SOLVENT USE	000091564	POPULATION	NHC	6.30	0000264
012	CUTPAK ASPHALT	000001674	TON	NHC	400.00	0000315
013	PESTICIDES	000015008	ACRE	NHC	3.50	0000026
014	ON-HIGHWAY LUV	000483520	THOUS VMT	NOX NHC	7.68 7.57	0001857 0001031
015	UL-HIGHWAY LOT1	00030924	THOUS VMT	NOX NHC	8.24 8.57	0000127 0000133
016	ON-HIGHWAY LOT2	000030924	THOUS VMT	NOX NHC	9.48 9.61	0000147 0000149

TABLE B-1 (continued)

GCA / TECHNOLOGY DIVISION
AREA SOURCE MASTER FILE SUMMARY
FOR OHIO

COUNTY:3140

CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RATE	UNITS	POLLUTANT I.D.	EMISSION FACTOR	EMISSIONS ESTIMATE
017	ON-HIGHWAY HDG	000016875	THOUS VMT	NOX NHC	26.27 20.06	0000222 0000169
018	ON-HIGHWAY HDD	000045031	THOUS VMT	NOX NHC	58.89 5.28	0001326 0000119
019	ON-HIGHWAY MC	000003052	THOUS VMT	NOX NHC	1.33 13.43	0000002 0000020
020	RESIDENTIAL ANTHRACITE	000031024	TON	NOX THC	3.00 2.50	0000047 0000039
021	RESIDENTIAL BITUMINOUS	000000000	TON	NOX THC	6.00 3.00	0000000 0000000
022	RESIDENTIAL RESIDUAL OIL	000000000	THOUS GAL	NOX THC	18.00 1.00	0000000 0000000
023	RESIDENTIAL DISTILLATE	000010136	THOUS GAL	NOX THC	18.00 1.00	0000091 0000005
024	RESIDENTIAL NATURAL GAS	000003355	MIL CU FT	NOX THC	80.00 8.00	0000134 0000015
025	RESIDENTIAL LPG	000000748	THOUS GAL	NOX THC	7.50 0.75	0000003 0000000
026	RESIDENTIAL WOOD	000001224	TON	NOX NHC	1.00 5.00	0000001 0000003
027	COMM/INST ANTHRACITE	000000000	TON	NOX THC	10.00 0.00	0000000 0000000
028	COMM/INST BITUMINOUS	000000000	TON	NOX THC	6.00 3.00	0000000 0000000
029	COMM/INST RESIDUAL OIL	000001997	THOUS GAL	NOX THC	60.00 1.00	0000060 0000001

TABLE B-1 (continued)

COUNTY:3150		GCA / TECHNOLOGY DIVISION		AREA SOURCE MASTER FILE SUMMARY		FOR CHIC	
CITY:0000	CATEGORY	PROCESS	UNITS	POLLUTANT EMISSION	EMISSIONS		
NUMBER	DESCRIPTION	RATE		1-D.	FACTOR	ESTIMATE	
030	COMM/INST DISTILLATE	000000000	THOUS GAL	NOX	22.00	0000000	
				THC	1.00	0000000	
031	COMM/INST NATURAL GAS	000002105	MIL CU FT	NOX	120.00	0000125	
				THC	8.00	0000008	
032	COMM/INST LPG	000000000	THOUS GAL	NOX	11.00	0000000	
				THC	0.75	0000000	
033	COMM/INST WOOD/OTHER	000000000	TON	NOX	1.00	0000000	
				THC	5.00	0000000	
034	INDUSTRIAL ANTHRACITE	000000000	TON	NOX	18.00	0000000	
				THC	0.00	0000000	
035 *	INDUSTRIAL BITUMINOUS	000159807	TON	NOX	15.00	0001199	
				THC	1.00	0000000	
036	INDUSTRIAL RESIDUAL OIL	000000000	THOUS GAL	NOX	60.00	0000000	
				THC	1.00	0000000	
037	INDUSTRIAL DISTILLATE OIL	000006710	THOUS GAL	NOX	22.00	0000074	
				THC	1.00	0000003	
038	INDUSTRIAL NATURAL GAS	000000143	MIL CU FT	NOX	175.00	0000013	
				THC	3.00	0000000	
039	INDUSTRIAL LPG	000000985	THOUS GAL	NOX	11.65	0000006	
				THC	0.30	0000000	
040	INDUSTRIAL WOOD/OTHER	000000000	TON	NOX	1.00	0000000	
				THC	5.00	0000000	
041	MILITARY AIRCRAFT	000000000	LND/TAKE OFF	NOX	9.16	0000000	
				THC	27.10	0000000	
042	CIVIL AIRCRAFT	000024820	LND/TAKE OFF	NOX	0.02	0000000	
				THC	0.41	0000005	

TABLE B-1 (continued)

CCF / TECHNOLOGY DIVISION
AREA SOURCE WASTE FILE SUMMARY
FOR OHIO

COUNTY:3160

CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RATE	UNITS	POLLUTANT I.D.	EMISSION FACTOR	EMISSIONS ESTIMATE
043	COMMERCIAL AIRCRAFT	00000000	LNB/TAKE OFF	NOX THC	26.93 30.66	000000 000000
044	RAILROAD LOCOMOTIVES	000003115	THOUS GAL	NOX THC	370.00 94.00	0000576 0000145
045	VESSELS - GASOLINE	000000185	THOUS GAL	NOX THC	39.05 835.47	0000004 0000077
046	VESSELS - DISTILLATE OIL	000000000	THOUS GAL	NOX THC	270.00 50.00	0000000 0000000
047	VESSELS - RESIDUAL OIL	000000000	THOUS GAL	NOX THC	63.60 1.72	0000000 0000000
048	OFF-HIGHWAY VEHICLES-GAS	000000381	THOUS GAL	NOX THC	64.04 351.71	0000013 0000067
049	OFF-HIGHWAY VEH - DIESEL	000000596	THOUS GAL	NOX THC	420.84 40.08	0000210 0000020
050	ON-SITE INCINERATION	000011871	TON	NOX THC	2.35 42.12	0000014 0000250
051	OPEN BURNING	000044602	TON	NOX THC	5.53 29.02	0000123 0000647
052	STRUCTURAL FIRES	000000156	FIRES	NOX THC	17.00 107.00	0000001 0000006
053	FIELD/SLASH BURNING	000000000	TON	NOX THC	4.00 23.00	0000000 0000000
054	FOREST FIRES	000000179	ACRE	NOX THC	43.21 261.02	0000004 0000023
999	COUNTY TOTALS			THC NOX THC		0002483 0003004 0006380

TABLE B-1 (continued)

CC / TECHNOLOGY DIVISION
AREA SOURCE MASTER FILE SUMMARY
FOR CPIO

COUNTY:3280

CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RATE	UNITS	POLLUTANT I.C.	EMISSION FACTOR	EMISSIONS ESTIMATE
001	STAGE I GASOLINE EVAP	000110886	THOUS GAL	THC	7.86	0000436
002	STAGE II GASOLINE EVAP	000110886	THOUS GAL	THC	9.70	0000539
003	STORAGE TANK BREATHING	000110886	THOUS GAL	THC	1.00	0000055
004	GASOLINE LOADING/TRANSIT	000119749	THOUS GAL	THC	6.87	0000411
005	SM TRD/COMM DEGREASING	000000403	TON	NHC	2.000.00	0000403
006	DRY CLEANING	000011275	OTHER	NHC	27.31	0000154
007	ARCH SURFACE COATING	000212001	POPULATION	NPC	4.40	0000429
008	AUTO BODY REFINISHING	000212001	POPULATION	NHC	2.56	0000272
009	SM TRD SURFACE COATING	000001767	TON	THC	1.175.00	0001034
010	GRAPHIC ARTS	000212001	POPULATION	NHC	0.80	0000085
011	COMM/CLUB SOLVENT USE	000212001	POPULATION	NHC	6.30	0000670
012	CUTBACK ASPHALT	000000567	TON	NPC	417.00	0000118
013	PESTICIDES	000024896	ACRE	NHC	3.50	0000047
014	ON-HIGHWAY LDV	001160446	THOUS VMT	NOX THC	7.68 7.57	0004456 0004193
015	ON-HIGHWAY LDT1	000074217	THOUS VMT	NOX NPC	8.74 8.57	0000306 0000318
016	ON-HIGHWAY LDT2	000074217	THOUS VMT	NOX NHC	9.48 9.61	0000352 0000357

TABLE B-1 (continued)

6CA / TECHNOLOGY DIVISION
APEA SOURCE MASTER FILE SUMMARY
FOR 0410

COUNTY:3280

CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RATE	UNITS	POLLUTANT I.D.	EMISSION FACTOR	EMISSIONS ESTIMATE
017	ON-HIGHWAY HDG	000040501	THOUS VMT	NOX NHC	26.27 20.06	0000532 0000406
018	ON-HIGHWAY FDD	000104075	THOUS VMT	NOX NHC	58.69 5.28	0003182 0000285
019	ON-HIGHWAY MC	000007324	THOUS VMT	NOX NHC	1.33 13.43	0000005 0000049
020	RESIDENTIAL ANTHRACITE	000000320	TON	NOX THC	3.00 2.50	0000000 0000000
021	RESIDENTIAL BITUMINOUS	000000000	TON	NOX THC	6.00 3.00	0000000 0000000
022	RESIDENTIAL RESIDUAL OIL	000000000	THOUS GAL	NOX THC	18.00 1.00	0000009 0000000
023	RESIDENTIAL DISTILLATE	000013395	THOUS GAL	NOX THC	18.00 1.00	0000121 0000007
024	RESIDENTIAL NATURAL GAS	000002436	MIL CU FT	NOX THC	80.00 6.00	0000097 0000010
025	RESIDENTIAL LPG	000001526	THOUS GAL	NOX THC	0.70 0.70	0000001 0000001
026	RESIDENTIAL WOOD	000000000	TON	NOX NHC	1.00 5.00	0000000 0000000
027	COMM/INST ANTHRACITE	000000749	TON	NOX THC	18.00 0.00	0000007 0000000
028	COMM/INST BITUMINOUS	000000000	TON	NOX THC	6.00 3.00	0000000 0000000
029	COMM/INST RESIDUAL OIL	000001297	THOUS G/L	NOX THC	60.00 1.00	0000036 0000001

TABLE B-1 (continued)

CC / TECHNOLOGY DIVISION
AREA SOURCE MASTER FILE SUMMARY
FOR OHIO

COUNTY:326C

CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS DATE	UNITS	POLLUTANT I.D.	EMISSION FACTOR	EMISSIONS ESTIMATE
030	COMM/INST DISTILLATE	000000102	THOUS GAL	NOX THC	22.00 1.00	0000001 0000000
031	COMM/INST NATURAL GAS	000001120	MIL CU FT	NOX THC	120.00 8.00	0000067 0000004
032	COMM/INST LPG	000001456	THOUS GAL	NOX THC	11.00 0.70	0000008 0000001
033	COMM/INST WOOD/OTHER	000000000	TON	NOX THC	1.00 5.00	0000000 0000000
034	INDUSTRIAL ANTHRACITE	000000000	TON	NOX THC	10.00 0.00	0000000 0000000
035	INDUSTRIAL BITUMINOUS	000511093	TON	NOX THC	15.00 1.00	0001833 0000256
036	INDUSTRIAL RESIDUAL OIL	000004669	THOUS GAL	NOX THC	60.00 1.00	0003140 0000002
037	INDUSTRIAL DISTILLATE OIL	000001466	THOUS GAL	NOX THC	22.00 1.00	0000016 0000001
038	INDUSTRIAL NATURAL GAS	000004750	MIL CU FT	NOX THC	175.00 3.00	0000416 0000007
039	INDUSTRIAL LPG	000000798	THOUS GAL	NOX THC	11.20 0.30	0000004 0000000
040	INDUSTRIAL WOOD/OTHER	000000000	TON	NOX THC	1.00 5.00	0000000 0000000
041	MILITARY AIRCRAFT	000000000	LAND/TAKE OFF	NOX THC	3.16 27.10	0000000 0000000
042	CIVIL AIRCRAFT	000055514	LAND/TAKE OFF	NOX THC	0.06 0.45	0000002 0000015

TABLE B-1 (continued)

GCA / TECHNOLOGY DIVISION
AREA SOURCE MASTER FILE SUMMARY
FOR CPIO

COUNTY:3280

CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RATE	UNITS	POLLUTANT I.D.	EMISSION FACTOR	EMISSIONS ESTIMATE
043	COMMERCIAL AIRCRAFT	000000000	LMD/TAKE OFF	NOX THC	26.93 30.66	0000000 0000000
044	RAILROAD LOCOMOTIVES	000003707	THOUS GAL	NOX THC	370.00 94.00	0000686 0000374
045	VESSELS - GASOLINE	000005688	THOUS GAL	NOX THC	313.30 1.2298.00	0000890 0003692
046	VESSELS - DISTILLATE OIL	000000170	THOUS GAL	NOX THC	260.00 59.00	0000022 0000005
047	VESSELS - RESIDUAL OIL	000000452	THOUS GAL	NOX THC	36.40 3.20	0000004 0000001
048	OFF-HIGHWAY VEHICLES-GAS	000001489	THOUS GAL	NOX THC	205.51 376.87	0000153 0000282
049	OFF-HIGHWAY VEH - DIESEL	000004230	THOUS GAL	NOX THC	444.92 35.46	0000941 0000075
050	CW-SITE INCINERATION	000030706	TON	NOX THC	2.22 6.35	0000036 0000097
051	OPEN BURNING	000030051	TON	NOX THC	4.32 27.20	0000065 0000409
052	STRUCTURAL FIRES	000000320	FIRES	NOX THC	17.00 107.00	0000003 0000017
053	FIELD/SLASH BURNING	000000000	TON	NOX THC	4.00 23.00	0000000 0000000
054	FOREST FIRES	000000009	ACRE	NOX THC	43.21 261.02	0000000 0000001
059	COUNTY TOTALS			THC NHC NOX		0007536 0008046 0016386

TABLE B-1 (continued)

CC: / TECHNOLOGY DIVISION
AREA SOURCE MASTER FILE SUMMARY
FOR CHIC

COUNTY: 3440

CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS FAC	UNITS	POLLUTANT I.D.	EMISSION FACTOR	EMISSIONS ESTIMATE
001	STAGE I GASOLINE EVAP	00006903	THOUS GAL	THC	8.35	0000288
002	STAGE II GASOLINE EVAP	00006914	THOUS GAL	THC	9.70	0000331
003	STORAGE TANK BREATHING	00006903	THOUS GAL	THC	1.00	0000034
004	GASOLINE LOADING/TRANSIT	00006903	THOUS GAL	THC	6.67	0000237
005	SM IPD/COMP. DEGREASING	00012098	POPULATION	NHC	7.59	0000459
006	DRY CLEANING	00012098	POPULATION	NHC	1.50	0000091
007	ARCH. SURFACE COATING	00012098	POPULATION	NHC	4.60	0000278
008	AUTO BODY REFINISHING	00012098	POPULATION	NHC	1.90	0000115
009	SM IPD SURFACE COATING	00000100	TON	THC	1,175.00	0000590
010	GRAPHIC ARTS	00012098	POPULATION	NHC	0.60	0000048
011	COMP/CONS. SOLVENT USE	00012098	POPULATION	NHC	6.30	0000381
012	CUTBACK ASPHALT	00000207	TON	NHC	400.00	0000416
013	PESTICIDES	00014301	ACRE	NHC	3.50	0000250
014	ON-HIGHWAY LOV	00066551	THOUS VMT	NOX NHC	7.68 7.57	0002556 0002520
015	ON-HIGHWAY LDT1	00004256	THOUS VMT	NOX NHC	8.24 8.57	0000175 0000182
016	ON-HIGHWAY LDT2	00004256	THOUS VMT	NOX NHC	9.48 9.51	0000202 0000205

TABLE B-1 (continued)

GC / TECHNOLOGY DIVISION
AREA SOURCE MASTER FILE SUMMARY
FOR OHIO

COUNTY:3446

CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RAIL	UNITS	POLLUTANT I.D.	EMISSION FACTOR	EMISSIONS ESTIMATE
017	OH-HIGHWAY FOG	000023228	THOUS VMT	NOX NHC	26.27 20.06	0000305 0000233
018	OH-HIGHWAY HDD	000061984	THOUS VMT	NOX NHC	58.49 5.28	0001825 0000164
019	OH-HIGHWAY MC	000004200	THOUS VMT	NOX NHC	1.33 13.43	0000003 0000020
020	RESIDENTIAL ANTHRACITE	000007103	TON	NOX THC	3.00 2.50	0000011 0000009
021	RESIDENTIAL BITUMINOUS	000000000	TON	NOX THC	6.00 3.00	0000000 0000000
022	RESIDENTIAL RESIDUAL OIL	000000000	THOUS GAL	NOX THC	18.00 1.00	0000000 0000000
023	RESIDENTIAL DISTILLATE	000000025	THOUS GAL	NOX THC	18.00 1.00	0000072 0000004
024	RESIDENTIAL NATURAL GAS	000004641	MIL CU FT	NOX THC	80.00 8.00	0000186 0000019
025	RESIDENTIAL LPG	000002873	THOUS GAL	NOX THC	7.50 0.75	0000011 0000001
026	RESIDENTIAL WOOD	000002330	TON	NOX NHC	1.00 5.00	0000001 0000006
027	COMM/INST ANTHRACITE	000000000	TON	NOX THC	10.00 0.00	0000000 0000000
028	COMM/INST BITUMINOUS	000000000	TON	NOX THC	6.00 3.00	0000000 0000000
029	COMM/INST RESIDUAL OIL	000002587	THOUS GAL	NOX THC	60.00 1.00	0000078 0000001

TABLE B-1 (continued)

CC: / TECHNOLOGY DIVISION
AREA SOURCE MASTER FILE SUMMARY
FOR CPIO

COUNTY:3442

CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS FACILITY	UNITS	POLLUTANT I.D.	EMISSION FACTOR	EMISSIONS ESTIMATE
030	COMBUST DISTILLATE	000000000	THOUS GAL	NOX THC	22.00 1.00	0000003 0000000
031	COMM/INST NATURAL GAS	000002727	MIL CU FT	NOX THC	120.00 8.00	0000164 0000011
032	COMB/INST LPG	000000000	THOUS GAL	NOX THC	11.00 0.75	0000009 0000000
033	COMB/INST WOOD/OTHER	000000000	TON	NOX THC	1.00 5.00	0000000 0000000
034	INDUSTRIAL ANTHRACITE	000000000	TON	NOX THC	10.00 0.00	0000000 0000000
035	INDUSTRIAL BITUMINOUS	000215955	TON	NOX THC	15.00 1.00	0001020 0000106
036	INDUSTRIAL RESIDUAL OIL	000003044	THOUS GAL	NOX THC	60.00 1.00	0000093 0000002
037	INDUSTRIAL DISTILLATE OIL	000014383	THOUS GAL	NOX THC	22.00 1.00	0000150 0000007
038	INDUSTRIAL NATURAL GAS	000002365	MIL CU FT	NOX THC	175.00 3.00	0000207 0000004
039	INDUSTRIAL LPG	000001353	THOUS GAL	NOX THC	11.05 0.30	0000004 0000000
040	INDUSTRIAL ALCOH/OTHER	000000000	TON	NOX THC	1.00 5.00	0000000 0000000
041	MILITARY AIRCRAFT	000000000	LND/TAKE OFF	NOX THC	5.16 27.10	0000000 0000000
042	CIVIL AIRCRAFT	000034675	LND/TAKE OFF	NOX THC	0.02 0.41	0000000 0000007

TABLE B-1 (continued)

604 / TECHNOLOGY DIVISION
AREA SOURCE MASTER FILE SUMMARY
FOR OHIO

COUNTY:3440

CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS PAIL	UNITS	POLLUTANT I.L.	EMISSION FACTOR	EMISSIONS ESTIMATE
043	COMMERCIAL AIRCRAFT	00000000	LND/TAKE OFF	NOX THC	26.53 30.66	000000 000000
044	RAILROAD LOCOMOTIVES	000002335	THOUS GAL	NOX THC	370.50 94.00	0000432 0000110
045	VESSELS - GASOLINE	000000233	THOUS GAL	NOX THC	39.05 835.47	0000005 0000097
046	VESSELS - DISTILLATE OIL	000000000	THOUS GAL	NOX THC	270.00 50.00	0000000 0000000
047	VESSELS - RESIDUAL OIL	000000000	THOUS GAL	NOX THC	63.60 1.72	0000000 0000000
048	OFF-HIGHWAY VEHICLES-GAS	000000061	THOUS GAL	NOX THC	95.24 269.45	0000041 0000116
049	OFF-HIGHWAY VEH - DIESEL	000002070	THOUS GAL	NOX THC	389.37 42.88	0000403 0000048
050	CITY INCINERATION	000016062	TON	NOX THC	2.24 41.34	0000016 0000332
051	OPEN BURNING	000057524	TON	NOX THC	5.53 29.02	0000159 0000035
052	STRUCTURAL FIRES	000000277	FIRES	NOX THC	17.00 107.00	0000002 0000015
053	FIELD/SLASH BURNING	000000000	TON	NOX THC	4.00 23.00	0000000 0000000
054	FOREST FIRES	000000163	ACRE	NOX THC	43.21 261.02	0000004 0000021
999	COUNTY TOTALS			THC MHC NOX		0003027 0005376 0000730

TABLE B-1 (continued)

GA / TECHNOLOGY DIVISION
AREA SOURCE MASTER FILE SUMMARY
FOR OHIO

COUNTY:3640

CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RATE	UNITS	POLLUTANT I.D.	EMISSION FACTOR	EMISSIONS ESTIMATE
001	STAGE I GASOLINE EVAP	000110886	THOUS GAL	THC	8.56	0000475
002	STAGE II GASOLINE EVAP	000110886	THOUS GAL	THC	9.70	0000538
003	STORAGE TANK EVAPORATING	000110886	THOUS GAL	THC	1.00	0000055
004	GASOLINE LOADING/TRANSIT	000151741	THOUS GAL	THC	6.87	0000521
005	SM IND/COMM DISGREASING	000000383	TON	UHC	2.000.00	0000383
006	DRY CLEANING	000013492	OTHER	NHC	27.31	0000183
007	ARCH SURFACE COATING	000274909	POPULATION	NHC	4.60	0000632
008	AUTO BODY REFINISHING	000274909	POPULATION	NHC	2.26	0000312
009	SM IND SURFACE COATING	000002285	TON	THC	1,175.00	0001343
010	GRAPHIC ARTS	000274909	POPULATION	NHC	0.80	0000110
011	COMM/COMM SOLVENT USE	000274909	POPULATION	NHC	6.70	0000866
012	CUTBACK ASPHALT	000001728	TON	NPC	417.00	0000360
013	PESTICIDES	000151036	ACRF	NHC	3.50	0000264
014	ON-HIGHWAY LDV	001467625	THOUS VMT	NOX NHC	7.68 7.57	0005636 0005556
015	ON-HIGHWAY LDT1	000093863	THOUS VMT	NOX NHC	9.24 8.57	0000347 0000402
016	ON-HIGHWAY LDT2	000093863	THOUS VMT	NOX NHC	9.48 9.51	0000445 0000451

TABLE B-1 (continued)

SCA / TECHNOLOGY DIVISION
AREA SOURCE MASTER FILE SUMMARY
FOR OHIO

COUNTY:3640

CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS KATL	UNITS	POLLUTANT I.D.	EMISSION FACTOR	EMISSIONS ESTIMATE
017	ON-HIGHWAY T/DG	000051231	THOUS VMT	NOX NHC	26.27 20.06	0000673 0000514
018	ON-HIGHWAY FDD	000136683	THOUS VMT	NOX NHC	58.99 5.28	0004025 0000361
019	ON-HIGHWAY MC	000009263	THOUS VMT	NOX NHC	1.13 13.43	0000006 0000062
020	RESIDENTIAL ANTHRACITE	000000410	TON	NOX THC	3.00 2.50	0000001 0000001
021	RESIDENTIAL BITUMINOUS	000000000	TON	NOX THC	6.00 3.00	0000000 0000000
022	RESIDENTIAL RESIDUAL OIL	000000000	THOUS GAL	NOX THC	18.00 1.00	0000000 0000000
023	RESIDENTIAL DISTILLATE	000017128	THOUS GAL	NOX THC	18.00 1.00	0000154 0000009
024	RESIDENTIAL NATURAL GAS	000003115	MIL CU FT	NOX THC	60.00 8.00	0000125 0000012
025	RESIDENTIAL LPG	000001951	THOUS GAL	NOX THC	0.70 0.70	0000001 0000001
026	RESIDENTIAL WOOD	000000000	TON	NOX NHC	1.00 5.00	0000000 0000000
027	COMM/INST ANTHRACITE	000000970	TON	NOX THC	18.00 0.00	0000000 0000000
028	COMM/INST BITUMINOUS	000000000	TON	NOX THC	6.00 3.00	0000000 0000000
029	COMM/INST RESIDUAL OIL	000001563	THOUS GAL	NOX THC	60.00 1.00	0000047 0000001

TABLE B-1 (continued)

GC / TECHNOLOGY DIVISION
AREA SOURCE MASTER FILE SUMMARY
FOR OHIO

COUNTY:3640

CATALOG NUMBER	CATEGORY DESCRIPTION	PROCESS RAIL	UNITS	POLLUTANT I.D.	EMISSION FACTOR	EMISSIONS ESTIMATE
030	COMM/INST DISTILLATE	000000132	THOUS GAL	NOX THC	22.00 1.00	0000001 0000000
031	COMM/INST NATURAL GAS	000001450	MIL CU FT	NOX THC	120.00 8.00	0000007 0000006
032	COMM/INST LPG	000001885	THOUS GAL	NOX THC	11.00 0.70	0000010 0000001
033	COMM/INST COOD/OTHR	000000000	TON	NOX THC	1.00 5.00	0000000 0000000
034	INDUSTRIAL ANTHRACITE	000000000	TON	NOX THC	19.00 0.00	0000000 0000000
035	INDUSTRIAL BITUMINOUS	000774558	TON	NOX THC	15.00 1.00	0000009 0000397
036	INDUSTRIAL RESIDUAL OIL	000000000	THOUS GAL	NOX THC	60.00 1.00	0000000 0000000
037	INDUSTRIAL DISTILLATE OIL	000000000	THOUS GAL	NOX THC	22.00 1.00	0000000 0000000
038	INDUSTRIAL NATURAL GAS	000004334	MIL CU FT	NOX THC	175.00 3.00	0000079 0000007
039	INDUSTRIAL LPG	000001227	THOUS GAL	NOX THC	11.20 0.30	0000007 0000000
040	INDUSTRIAL WOOD/OTHR	000000000	TON	NOX THC	1.00 5.00	0000000 0000000
041	MILITARY AIRCRAFT	000000000	LND/TAKE OFF	NOX THC	9.16 27.10	0000000 0000000
042	CIVIL AIRCRAFT	000079422	LND/TAKE OFF	NOX THC	0.20 0.60	0000000 0000024

TABLE B-1 (continued)

SC. 7 TECHNOLOGY DIVISION
AREA SOURCE MASTER FILE SUMMARY
FOR OHIO

COUNTY:3640

CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RATE	UNITS LAD/TAKE OFF	POLLUTANT I.D.	EMISSION FACTOR	EMISSIONS ESTIMATE
043	COMMERCIAL AIRCRAFT	00000000		NOX THC	26.93 30.66	000000 000000
044	RAILROAD LOCOMOTIVES	000004768	THOUS GAL	NOX THC	370.00 94.00	0000086 0000225
045	VESSELS - GASOLINE	000002626	THOUS GAL	NOX THC	104.00 1,656.00	0000137 0002174
046	VESSELS - DISTILLATE OIL	000000559	THOUS GAL	NOX THC	260.00 54.00	0000073 0000016
047	VESSELS - RESIDUAL OIL	000001486	THOUS GAL	NOX THC	36.40 3.20	0000027 0000002
048	OFF-HIGHWAY VEHICLES-GAS	000002640	THOUS GAL	NOX THC	201.49 339.04	0000271 0000456
049	OFF-HIGHWAY VEH - DIESEL	000007074	THOUS GAL	NOX THC	239.75 38.45	0000148 0000136
050	ON-SITE INCINERATION	000041941	TON	NOX THC	2.32 6.50	0000049 0000136
051	OPEN BURNING	000040070	TON	NOX THC	1.41 27.10	0000034 0000651
052	STRUCTURAL FIRES	000000512	FIRES	NOX THC	17.00 107.00	0000004 0000027
053	FILL/SLASH BURNING	000000000	TON	NOX THC	4.00 23.00	0000000 0000000
054	FOREST FIRES	000000018	ACRE	NOX THC	43.21 261.02	0000000 0000002
099	COUNTY TOTALS			THC NHC PCX		0002006 0010456 0000139

TABLE B-1 (continued)

CCA / TECHNOLOGY DIVISION
AREA SOURCE MASTER FILE SUMMARY
FOR OHIO

COUNTY: 5820

CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RATE	UNITS	POLLUTANT I.D.	EMISSION FACTOR	EMISSIONS ESTIMATE
001	STAGE I GASOLINE EVAP	000156448	THOUS GAL	THC	8.15	0000053
002	STAGE II GASOLINE EVAP	000154775	THOUS GAL	THC	9.70	0000751
003	STORAGE TANK BREATHING	000156448	THOUS GAL	THC	1.00	0000078
004	GASOLINE LOADING/TRANSIT	000156448	THOUS GAL	THC	6.67	0000538
005	SP. INT./COMM. DEGREASING	000289487	POPULATION	NHC	7.59	0001099
006	DRY CLEANING	000289487	POPULATION	NHC	1.50	0000217
007	ARCH SURFACE COATING	000289487	POPULATION	NHC	4.60	0000666
008	AUT. BODY W. FINISHING	000289487	POPULATION	NHC	1.50	0000275
009	SM. IND. SURFACE COATING	000002483	TON	THC	1.175.00	0001412
010	GRAPHIC ARTS	000289487	POPULATION	NHC	0.80	0000116
011	COMP/CCNS. SOLVENT USE	000289487	POPULATION	NHC	6.20	0000912
012	CUTBACK ASPHALT	000004975	TON	NHC	400.00	0000395
013	PLASTICLES	000044899	ACRE	NHC	3.50	0000079
014	ON-HIGHWAY LDV	001513133	THOUS VMT	NOX NHC	7.68 7.57	0005810 0005729
015	ON-HIGHWAY LDT1	000096773	THOUS VMT	NOX NHC	8.24 8.57	0000399 0000415
016	ON-HIGHWAY LDT2	000096773	THOUS VMT	NOX NHC	9.48 9.61	0000459 0000465

TABLE B-1 (continued)

CCF / TECHNOLOGY DIVISION
AREA SOURCE MASTER FILE SUMMARY
FOR 2010

COUNTY:3622

CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RAT	UNITS	POLLUTANT I.D.	EMISSION FACTOR	EMISSIONS ESTIMATE
017	OL-HIGHWAY HOG	000052810	THOUS VMT	NOX NHC	26.27 20.06	0003694 0005530
018	OL-HIGHWAY HOG	000140921	THOUS VMT	NOX NHC	58.89 5.28	0004149 0000372
019	ON-HIGHWAY FC	000069550	THOUS VMT	NOX NHC	1.33 13.43	0000006 0000064
020	RESIDENTIAL ANTHRACITE	000027869	TON	NOX THC	3.00 2.50	0000042 0000335
021	RESIDENTIAL BITUMINOUS	000000000	TON	NOX THC	6.00 3.00	0000000 0000000
022	RESIDENTIAL RESIDUAL OIL	000000000	THOUS GAL	NOX THC	18.00 1.00	0000000 0000000
023	RESIDENTIAL DISTILLATE	000011417	THOUS GAL	NOX THC	18.00 1.00	0000103 0000006
024	RESIDENTIAL NATURAL GAS	000010303	PIB CU FT	NOX THC	80.00 6.00	0000412 0000041
025	RESIDENTIAL LPG	000002987	THOUS GAL	NOX THC	7.50 0.75	0000011 0000001
026	RESIDENTIAL WOOD	000002436	TON	NOX NHC	1.00 5.00	0000001 0000006
027	COMM/INST ANTHRACITE	000000000	TON	NOX THC	10.00 0.00	0000000 0000000
028	COMM/INST BITUMINOUS	000000000	TON	NOX THC	6.00 3.00	0000000 0000000
029	COMM/INST RESIDUAL OIL	000007914	THOUS GAL	NOX THC	60.00 1.00	0000237 0000004

TABLE B-1 (continued)

SCS / TECHNOLOGY DIVISION
AREA SOURCE MASTER FILE SUMMARY
FOR OHIO

COUNTY: 0620

CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RATE	UNITS	POLLUTANT I.D.	EMISSION FACTOR	EMISSIONS ESTIMATE
030	COMM/INST DISTILLATE	00000000	THOUS GAL	NOX THC	22.00 1.00	000000 000000
031	COMM/INST NATURAL GAS	000000342	MIL CU FT	NOX THC	120.00 8.00	0000501 0000033
032	COMM/INST LPG	00000000	THOUS GAL	NOX THC	11.00 0.75	0000000 0000000
033	COMM/INST WOOD/OTHER	00000000	TON	NOX THC	1.00 5.00	0000000 0000000
034	INDUSTRIAL ANTHRACITE	00000000	TON	NOX THC	18.00 0.00	0000000 0000000
035	INDUSTRIAL BITUMINOUS	000652184	TON	NOX THC	15.00 1.00	0004891 0000326
036	INDUSTRIAL RESIDUAL OIL	00000000	THOUS G/L	NOX THC	60.00 1.00	0000000 0000000
037	INDUSTRIAL DISTILLATE OIL	000043255	THOUS GAL	NOX THC	22.00 1.00	0000475 0000022
038	INDUSTRIAL NATURAL GAS	00000000	MIL CU FT	NOX THC	175.00 3.00	0000000 0000000
039	INDUSTRIAL LPG	000004065	THOUS GAL	NOX THC	11.65 0.10	0000024 0000001
040	INDUSTRIAL WOOD/OTHER	00000000	TON	NOX THC	1.00 5.00	0000000 0000000
041	MILITARY AIRCRAFT	000003465	LND/TAKE OFF	NOX THC	9.16 27.10	0000016 0000047
042	CIVIL AIRCRAFT	000071175	LND/TAKE OFF	NOX THC	0.02 0.41	0000001 0000015

TABLE B-1 (continued)

OCG / TECHNOLOGY DIVISION
APLA SOURCE MASTER FILE SUMMARY
FOR OHIO

COUNTY:3820

CITY/COUNTY NUMBER	CATEGORY DESCRIPTION	PROCESS DATE	UNITS	POLLUTANT EMISSION I.D.	EMISSIONS ESTIMATE
043	COMMERCIAL AIRCRAFT	000000004	LND/TAKE OFF	NOX THC	20.93 000027 30.66 0000031
044	RAILROAD LOCOMOTIVES	000003226	THOUS GAL	NOX THC	370.50 0000597 94.00 0000152
045	VESSELS - GASOLINE	0000000376	THOUS GAL	NOX THC	39.05 0000007 835.47 0000157
046	VESSELS - DISTILLATE OIL	000000000	THOUS GAL	NOX THC	270.00 0000000 50.30 0000000
047	VESSELS - RESIDUAL OIL	000000000	THOUS GAL	NOX THC	63.60 0000000 1.72 0000000
048	OFF-HIGHWAY VEHICLES-GAS	000001101	THOUS GAL	NOX THC	59.95 0000033 368.76 0000203
049	OFF-HIGHWAY VEH - DIESEL	000004092	THOUS GAL	NOX THC	432.55 0000085 36.17 0000074
050	ON-SITE INCINERATION	000040830	TON	NOX THC	0.93 0000019 39.38 0000004
051	OPEN BURNING	000142698	TON	NOX THC	5.53 0000395 29.02 0000071
052	STRUCTURAL FIRES	0000000488	FIRES	NOX THC	17.00 0000004 107.00 0000025
053	FIELD/SLASH BURNING	000000000	TON	NOX THC	4.00 0000000 23.30 0000000
054	FOREST FIRES	0000000016	ACRE	NOX THC	43.21 0000000 261.02 0000002
099	COUNTY TOTALS			THC NOX NOX	0007403 0011940 0020199

TABLE B-1 (continued)

CCF / TECHNOLOGY DIVISION
AREA SOURCE MASTER FILE SUMMARY
FOR OHIO

COUNTY:4160

CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS PATE	UNITS	POLLUTANT I.D.	EMISSION FACTOR	EMISSIONS ESTIMATE
001	STAGE I GASOLINE EVAP	000055443	THOUS GAL	THC	7.86	0000218
002	STAGE II GASOLINE EVAP	000055443	THOUS GAL	THC	9.70	0000269
003	STORAGE TANK BREATHING	000055443	THOUS GAL	THC	1.00	0000028
004	GASOLINE LOADING/TRANSIT	000055734	THOUS GAL	THC	6.87	0000226
005	SM INT/COMM DEGREASING	000000212	TON	NHC	2.000.00	0000212
006	DRY CLEANING	000003553	OTHER	NHC	27.31	0000054
007	PEOP SURFACE COATING	000113150	POPULATION	NHC	4.60	0000260
008	AUTO BODY REFINISHING	000113150	POPULATION	NHC	2.06	0000117
009	SM INT SURFACE COATING	000000941	TON	THC	1.175.00	0000553
010	GRAPHIC ARTS	000113150	POPULATION	NHC	0.80	0000045
011	COMP/CCAS SOLVENT USE	000113150	POPULATION	NHC	6.30	0000356
012	CURTICK ASPHALT	000001810	TON	NHC	417.00	0000377
013	PESTICIDES	000100000	ACRF	NHC	3.50	0000175
014	ON-HIGHWAY LDV	000637108	THOUS VMT	NOX NHC	7.68 7.57	0002446 0002412
015	ON-HIGHWAY LOT1	000040747	THOUS VMT	NOX NHC	8.24 8.57	0000168 0000175
016	ON-HIGHWAY LOT2	000040747	THOUS VMT	NOX NHC	9.48 9.61	0000193 0000195

TABLE B-1 (continued)

GC / TECHNOLOGY DIVISION
AREA SOURCE MASTER FILE SUMMARY
FLA CHS

COUNTRY:4160

CATEGORY NUMBER	CATEGORY DESCRIPTION	PFOGLSS RATE	UNITS	POLLUTANT I.D.	EMISSION FACTOR	EMISSIONS ESTIMATE
017	ON-HIGHWAY HCG	000022236	THOUS VMT	NOX	26.27	0000292
				NHC	20.06	0000223
018	ON-HIGHWAY HDD	000059335	THOUS VMT	NOX	59.89	0001747
				NHC	5.28	0000157
019	ON-HIGHWAY MC	000004021	THOUS VMT	HCX	1.33	0000003
				NHC	13.43	0000227
020	RESIDENTIAL ANTHRACITE	000000163	TON	NOX	3.00	0000000
				THC	2.50	0000000
021	RESIDENTIAL BITUMINOUS	000000000	TON	NOX	6.00	0000000
				THC	3.00	0000000
022	RESIDENTIAL RESIDUAL OIL	000000000	THOUS GAL	HCX	18.00	0000000
				THC	1.00	0000000
023	RESIDENTIAL DISTILLATE	000000007	THOUS GAL	NOX	18.00	0000061
				THC	1.00	0000003
024	RESIDENTIAL NATURAL GAS	000001238	MIL CU FT	HCX	80.00	0000050
				THC	8.00	0000005
025	RESIDENTIAL LPG	000000075	THOUS GAL	NOX	0.70	0000000
				THC	0.70	0000000
026	RESIDENTIAL WOOD	000000000	TON	HCX	1.00	0000000
				NHC	5.00	0000000
027	COMM/INST ANTHRACITE	000000039	TON	NOX	16.00	0000004
				THC	0.00	0000000
028	COMM/INST BITUMINOUS	000000000	TON	NOX	6.00	0000000
				THC	3.00	0000000
029	COMM/INST RESIDUAL OIL	000000043	THOUS GAL	NOX	60.00	0000019
				THC	1.00	0000000

TABLE B-1 (continued)

SCS / TECHNOLOGY DIVISION
AREA SOURCE MASTER FILE SUMMARY
FOR OHIO

COUNTY:0160

CATEGORY NUMBER C30	CATEGORY DESCRIPTION C30 CUP/INST DISTILLATE	PROCESS PAL 00000003 THOUS GAL	UNITS THOUS GAL	POLLUTANT I.C.	EMISSION FACTOR	EMISSIONS ESTIMATE
				NOX	22.00	0000000
				THC	1.00	0000000
031	CUP/INST NATURAL GAS	000000361 MIL CU FT		NOX	120.00	0000023
				THC	8.00	0000002
032	CUP/INST LFG	000000776 THOUS GAL		NOX	11.00	0000004
				THC	0.70	0000000
033	CUP/INST WOOD/OTHER	000000000 TON		NOX	1.00	0000000
				THC	5.00	0000000
034	INDUSTRIAL ANTHRACITE	000000000 TON		NOX	18.00	0000000
				THC	0.00	0000000
035	INDUSTRIAL BITUMINOUS	00015565 TON		NOX	15.00	0001242
				THC	1.00	0000083
036	INDUSTRIAL RESIDUAL OIL	000001321 THOUS GAL		NOX	60.00	0000040
				THC	1.00	0000001
037	INDUSTRIAL DISTILLATE OIL	000000676 THOUS GAL		NOX	22.00	0000007
				THC	1.00	0000000
038	INDUSTRIAL NATURAL GAS	000001181 MIL CU FT		NOX	175.00	0000103
				THC	3.00	0000002
039	INDUSTRIAL LPG	000000243 THOUS GAL		NOX	11.00	0000001
				THC	0.30	0000000
040	INDUSTRIAL WOOD/OTHER	000000000 TON		NOX	1.00	0000000
				THC	5.00	0000000
041	MILITARY AIRCRAFT	000000000 LNG/TAKE OFF		NOX	9.16	0000000
				THC	27.10	0000000
042	CIVIL AIRCRAFT	000000000 LNG/TAKE OFF		NOX	0.06	0000002
				THC	0.42	0000014

TABLE B-1 (continued)

SC1 / TECHNOLOGY DIVISION
 AREA SOURCE MASTER FILE SUMMARY
 FOR CHIC

COUNTY:4160

CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS DATE	UNITS LND/TAKE OFF	POLLUTANT I.D.	EMISSION FACTOR	EMISSIONS ESTIMATE
043	COMMERCIAL AIRCRAFT	00000000	00000000	NOX THC	25.93 30.66	0000000 0000000
044	RAILROAD LOCOMOTIVES	000001971	THOUS GAL	NOX THC	370.00 94.00	0000365 0000093
045	VESSELS - GASOLINE	000000000	THOUS GAL	NOX THC	39.05 835.47	0000000 0000000
046	VESSELS - DISTILLATE OIL	000000000	THOUS GAL	NOX THC	260.00 59.00	0000000 0000000
047	VESSELS - RESIDUAL OIL	000000000	THOUS GAL	NOX THC	63.60 1.72	0000000 0000000
048	OFF-HIGHWAY VEHICLES-GAS	000001488	THOUS GAL	NOX THC	162.07 308.21	0000153 0000291
049	OFF-HIGHWAY VEH - DIESEL	000003904	THOUS GAL	NOX THC	332.48 40.38	0000649 0000060
050	ON-JOB INCINERATION	000014404	TON	NOX THC	2.29 5.93	0000016 0000343
051	OPEN BURNING	000035641	TON	NOX THC	6.00 26.50	0000107 0000472
052	STRUCTURAL FIRES	000000210	FIRES	NOX THC	17.00 107.00	0000002 0000011
053	FILL/SLASH BURNING	000000000	TON	NOX THC	4.00 23.00	0000000 0000000
054	FOREST FIRES	000000016	ACRE	NOX THC	42.21 261.32	0000000 0000002
099	COUNTY TOTALS			THC THC NOX		0002396 0004786 0007697

TABLE B-1 (continued)

GC4 / TECHNOLOGY DIVISION
AREA SOURCE MASTER FILE SUMMARY
FOR OHIO

COUNTY:4160

CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RATE	UNITS	POLLUTANT I.D.	EMISSION FACTOR	EMISSIONS ESTIMATE
001	STAGE I GASOLINE EVAP	000013617	THOUS GAL	THC	8.25	0000057
002	STAGE II GASOLINE EVAP	000013468	THOUS GAL	THC	9.70	0000065
003	STORAGE TANK BREATHING	000013617	THOUS GAL	THC	1.00	0000007
004	GASOLINE LOADING/TRANSIT	000013617	THOUS GAL	THC	6.87	0000047
005	SP. INK/COMP. DESEALING	000023641	POPULATION	NPC	7.59	0000090
006	DRY CLEANING	000023641	POPULATION	NHC	1.50	0000018
007	ARCH. SURFACE COATING	000023641	POPULATION	NHC	4.60	0000054
008	AUTO BODY REFINISHING	000023641	POPULATION	NHC	1.90	0000022
009	SM. INK SURFACE COATING	000000197	TON	THC	1,175.00	0000116
010	GRAPHIC ARTS	000023641	POPULATION	NHC	0.80	0000009
011	CLRM/CONS. SOLVENT USE	000023641	POPULATION	NPC	6.30	0000074
012	CUTBACK ASPHALT	000000406	TON	NHC	400.00	0000001
013	PESTICIDES	000020976	ACRE	NHC	3.50	0000037
014	ON-HIGHWAY LDV	000130835	THOUS VMT	NOX NHC	7.68 7.57	0000502 0000495
015	ON-HIGHWAY LDT1	000004368	THOUS VMT	NOX NHC	8.24 8.57	0000034 0000036
016	ON-HIGHWAY LDT2	000004368	THOUS VMT	NOX NHC	9.48 9.61	0000040 0000040

TABLE B-1 (continued)

COUNTY:4180						
OCF / TECHNOLOGY DIVISION						
AREA SOURCE MASTER FILE SUMMARY						
FOR OHIO						
CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS DATE	UNITS	POLLUTANT I.D.	EMISSION FACTOR	EMISSIONS ESTIMATE
017	ON-HIGHWAY HDS	000004566	THOUS VMT	NOX	26.27	0000060
				NHC	20.06	0000046
018	ON-HIGHWAY HDO	000012185	THOUS VMT	NOX	58.89	0000359
				NHC	5.28	0000032
019	ON-HIGHWAY HC	000000825	THOUS VMT	NOX	1.33	0000001
				NHC	13.43	0000006
020	RESIDENTIAL ANTHRACITE	000009030	TON	NOX	3.00	0000014
				THC	2.50	0000011
021	RESIDENTIAL BITUMINOUS	000000000	TON	NOX	6.00	0000000
				THC	3.00	0000000
022	RESIDENTIAL RESIDUAL OIL	000000000	THOUS GAL	NOX	18.00	0000000
				THC	1.00	0000000
023	RESIDENTIAL DISTILLATE	000002015	THOUS GAL	NOX	18.00	0000018
				THC	1.00	0000001
024	RESIDENTIAL NATURAL GAS	000000964	MIL CU FT	NOX	80.00	0000039
				THC	8.00	0000004
025	RESIDENTIAL LPG	000001730	THOUS GAL	NOX	7.50	0000006
				THC	0.75	0000001
026	RESIDENTIAL WOOD	000002436	TON	NOX	1.00	0000001
				NHC	5.00	0000006
027	COMM/INST ANTHRACITE	000000000	TON	NOX	10.00	0000000
				THC	0.00	0000000
028	COMM/INST BITUMINOUS	000000000	TON	NOX	6.00	0000000
				THC	3.00	0000000
029	COMM/INST RESIDUAL OIL	000000227	THOUS GAL	NOX	60.00	0000007
				THC	1.00	0000000

TABLE B-1 (continued)

SCS / TECHNOLOGY DIVISION
AREA SOURCE MASTER FILE SUMMARY
FOR Ohio

COUNTRY:4180

CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RATE	UNITS	POLLUTANT I.D.	EMISSION FACTOR	EMISSIONS ESTIMATE
030	COMM/INST DISTILLATE	00000000	THOUS GAL	NOX THC	22.60 1.00	0000000 0000000
031	COMM/INST NATURAL GAS	000000144	MIL CU FT	NOX THC	120.00 8.00	0000009 0000001
032	COMM/INST LPG	00000000	THOUS GAL	NOX THC	11.00 0.75	0000000 0000000
033	COMM/INST WOOD/OTHER	00000000	TON	NOX THC	1.00 5.00	0000000 0000000
034	INDUSTRIAL ANTHRACITE	00000000	TON	NOX THC	18.00 0.30	0000000 0000000
035	INDUSTRIAL BITUMINOUS	000035992	TON	NOX THC	15.00 1.00	0000270 0000018
036	INDUSTRIAL RESIDUAL OIL	000000522	THOUS GAL	NOX THC	60.60 1.00	0000016 0000000
037	INDUSTRIAL DISTILLATE OIL	000002426	THOUS GAL	NOX THC	22.90 1.00	0000027 0000001
038	INDUSTRIAL NATURAL GAS	000000399	MIL CU FT	NOX THC	175.00 3.00	0000035 0000001
039	INDUSTRIAL LPG	000002282	THOUS GAL	NOX THC	11.65 0.70	0000013 0000000
040	INDUSTRIAL WOOD/OTHER	00000000	TON	NOX THC	1.00 5.00	0000000 0000000
041	MILITARY AIRCRAFT	00000000	LND/TAKE OFF	NOX THC	5.16 27.10	0000000 0000000
042	CIVIL AIRCRAFT	000005110	LND/TAKE OFF	NOX THC	0.32 0.41	0000000 0000001

TABLE B-1 (continued)

SCS / TECHNOLOGY DIVISION
AREA SOURCE MASTER FILE SUMMARY
FOR OHIO

COUNTY:4180

CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RATE	UNITS	POLLUTANT I.D.	EMISSION FACTOR	EMISSIONS ESTIMATE
043	COMMERCIAL AIRCRAFT	000000000	LND/TAKE OFF	NOX THC	26.93 30.66	0000000 0000000
044	RAILROAD LOCOMOTIVES	000000000	THOUS GAL	NOX THC	370.00 94.00	0000089 0000023
045	VESSELS - GASOLINE	000000000	THOUS GAL	NOX THC	35.05 835.47	0000001 0000019
046	VESSELS - DISTILLATE OIL	000000000	THOUS GAL	NOX THC	270.00 50.00	0000000 0000000
047	VESSELS - RESIDUAL OIL	000000000	THOUS GAL	NOX THC	63.60 1.72	0000000 0000000
048	OFF-HIGHWAY VEHICLES-GAS	000000000	THOUS GAL	NOX THC	106.56 229.50	0000013 0000028
049	OFF-HIGHWAY VEH - DIESEL	000000000	THOUS GAL	NOX THC	357.62 52.98	0000081 0000012
050	ON-SITE INCINERATION	000000000	TON	NOX THC	2.14 49.24	0000003 0000063
051	OPEN BURNING	000011257	TON	NOX THC	5.53 29.02	0000031 0000163
052	STRUCTURAL FIRES	000000000	FIRES	NOX THC	17.00 107.00	0000001 0000004
053	FIELD/SLASH BURNING	000000000	TON	NOX THC	4.00 23.00	0000000 0000000
054	FOREST FIRES	000000187	ACRE	NOX THC	43.21 261.02	0000004 0000024
059	COUNTY TOTALS			THC NHC NOX		0000067 0001046 0001674

TABLE B-1 (continued)

SCS / TECHNOLOGY DIVISION
AREA SOURCE RASTRAK FILE SUMMARY
FOR OHIO

COUNTY:4460

CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RATE	UNITS	POLLUTANT EMISSION F.D.	EMISSION FACTOR	EMISSIONS ESTIMATE
001	STAGE I GASOLINE EVAP	000009174	THOUS GAL	THC	8.35	0000036
002	STAGE II GASOLINE EVAP	000009074	THOUS GAL	THC	9.70	0000044
003	STORAGE TANK BREATHING	000009174	THOUS GAL	THC	1.00	0000005
004	GASOLINE LOADING/TRANSIT	000009174	THOUS GAL	THC	6.87	0000032
005	SH IPD/COMM DREGREASING	000017302	POPULATION	NHC	7.59	0000066
006	DRY CLEANING	000017302	POPULATION	NHC	1.50	0000013
007	ARCH SURFACE COATING	000017302	POPULATION	NHC	4.60	0000040
008	AUTO BODY REFINISHING	000017302	POPULATION	NHC	1.50	0000017
009	SH IND SURFACE COATING	000000143	TON	THC	1.175.00	0000004
010	GRAPHIC ARTS	000017302	POPULATION	NHC	0.80	0000007
011	COMP/CCRS SOLVENT USE	000017302	POPULATION	NHC	6.30	0000055
012	CUTBACK ASPHALT	000000299	TON	NHC	400.00	0000000
013	PESTICIDES	000024007	ACRE	NHC	3.50	0000044
014	ON-HIGHWAY LDV	000091015	THOUS VMT	NOX NHC	7.68 7.57	0000343 0000345
015	ON-HIGHWAY LDV1	000005021	THOUS VMT	NOX NHC	8.24 8.57	0000024 0000025
016	ON-HIGHWAY LDV2	000005021	THOUS VMT	NOX NHC	5.48 9.61	0000028 0000026

TABLE B-1 (continued)

GCA / TECHNOLOGY DIVISION
AREA SOURCE MASTER FILE SUMMARY
FOR OHIO

COUNTY:4400

CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RATE	UNITS	POLLUTANT I.O.	EMISSION FACTOR	EMISSIONS ESTIMATE
017	ON-HIGHWAY HDG	000003177	THOUS VMT	NOX NHC	26.27 20.06	0000042 0000032
018	ON-HIGHWAY HDD	000000476	THOUS VMT	NOX NHC	54.89 5.78	0000250 0000022
019	ON-HIGHWAY MC	000000574	THOUS VMT	NOX NHC	1.33 13.43	0000000 0000004
020	RESIDENTIAL ANTHRACITE	00002768	TON	NOX THC	3.00 2.50	0000004 0000003
021	RESIDENTIAL BITUMINOUS	000000000	TON	NOX THC	6.00 3.00	0000000 0000000
022	RESIDENTIAL RESIDUAL OIL	000000000	THOUS GAL	NOX THC	18.00 1.00	0000000 0000000
023	RESIDENTIAL DISTILLATE	000001695	THOUS GAL	NOX THC	18.00 1.00	0000015 0000001
024	RESIDENTIAL NATURAL GAS	000000658	MIL CU FT	NOX THC	80.00 8.00	0000026 0000003
025	RESIDENTIAL LPG	000000177	THOUS GAL	NOX THC	7.50 0.75	0000001 0000000
026	RESIDENTIAL WOOD	000003844	TON	NOX NHC	1.00 5.00	0000002 0000010
027	COMM/INST ANTHRACITE	000000000	TON	NOX THC	10.00 0.00	0000000 0000000
028	COMM/INST BITUMINOUS	000000000	TON	NOX THC	6.00 3.00	0000000 0000000
029	COMM/INST RESIDUAL OIL	000000112	THOUS GAL	NOX THC	60.00 1.00	0000003 0000000

TABLE B-1 (continued)

GC1 / TECHNOLOGY DIVISION
AREA SOURCE MASTER FILE SUMMARY
FOR OHIO

COUNTY:4460

CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RATE	UNITS	POLLUTANT EMISSION FACTOR	EMISSIONS ESTIMATE
030	COMBUST DISTILLATE	000000000	THOUS GAL	NOX THC	22.00 000000 1.00 000000
031	COMBUST NATURAL GAS	000000116	MIL CU FT	NOX THC	120.00 000007 8.00 000000
032	COMBUST LPG	000000000	THOUS GAL	NOX THC	11.60 000000 0.75 000000
033	COMBUST WOOD/OTHER	000000000	TON	NOX THC	1.00 000000 5.00 000000
034	INDUSTRIAL ANTHRACITE	000000000	TON	NOX THC	18.00 000000 0.00 000000
035	INDUSTRIAL BITUMINOUS	000002141	TON	NOX THC	15.00 000091 1.00 000046
036	INDUSTRIAL RESIDUAL OIL	000001321	THOUS GAL	NOX THC	00.00 000000 1.00 000001
037	INDUSTRIAL DISTILLATE OIL	000005204	THOUS GAL	NOX THC	22.00 000057 1.00 000003
038	INDUSTRIAL NATURAL GAS	000000052	MIL CU FT	NOX THC	175.00 000005 3.00 000000
039	INDUSTRIAL LPG	000000578	THOUS GAL	NOX THC	11.65 000003 0.50 000000
040	INDUSTRIAL WOOD/OTHER	000000000	TON	NOX THC	1.00 000000 5.00 000000
041	MILITARY AIRCRAFT	000000000	LND/TAKE OFF	NOX THC	9.16 000000 27.10 000000
042	CIVIL AIRCRAFT	000004745	LND/TAKE OFF	NOX THC	0.02 000000 0.41 000001

TABLE B-1 (continued)

CCR / TECHNOLOGY DIVISION
AREA SOURCE MASTER FILE SUMMARY
FCA OHIO

COUNTY:4460

CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RATE	UNITS	POLLUTANT I.D.	EMISSION FACTOR	EMISSIONS ESTIMATE
043	COMMERCIAL AIRCRAFT	000000000	LND/TAKE OFF	NOX THC	26.93 30.66	000000 000000
044	RAILROAD LOCOMOTIVES	000000222	THOUS GAL	NOX THC	370.00 94.00	0000041 0000010
045	VESSELS - GASOLINE	000000043	THOUS GAL	NOX THC	39.05 835.47	0000001 0000018
046	VESSELS - DISTILLATE OIL	000000000	THOUS GAL	NOX THC	270.00 50.00	0000000 0000000
047	VESSELS - RESIDUAL OIL	000000000	THOUS GAL	NOX THC	63.60 1.72	0000000 0000000
048	OFF-HIGHWAY VEHICLES-GAS	000000294	THOUS GAL	NOX THC	115.65 204.08	0000017 0000030
049	OFF-HIGHWAY VEH - DIESEL	000000535	THOUS GAL	NOX THC	354.48 52.24	0000095 0000014
050	ON-SITE INCINERATION	000002942	TON	NOX THC	2.00 34.68	0000003 0000052
051	OPEN BURNING	000004839	TON	NOX THC	5.53 29.02	0000024 0000128
052	STRUCTURAL FIRES	000000026	FIRES	NOX THC	17.00 107.00	0000000 0000001
053	FILL/FLASH BURNING	000000000	TON	NOX THC	4.00 23.00	0000000 0000000
054	FOREST FIRES	000000196	ACRE	NOX THC	43.21 261.02	0000004 0000026
059	COUNTY TOTALS			THC NOX NOX		0000549 0000764 0001732

TABLE B-1 (continued)

CC / TECHNOLOGY DIVISION
APLA SOURCE MASTER FILE SUMMARY
FOR OHIO

COUNTY:4543

CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS PATH	UNITS	POLLUTANT I.D.	EMISSION FACTOR	EMISSIONS ESTIMATE
001	STAGE I GASOLINE EVAP	000000414	THOUS GAL	THC	8.35	0000035
002	STAGE II GASOLINE EVAP	000000322	THOUS GAL	THC	9.70	0000040
003	STORAGE TANK BREATHING	000000414	THOUS GAL	THC	1.00	0000004
004	GASOLINE LOADING/TRANSIT	000000414	THOUS GAL	THC	6.87	0000029
005	SH TRD/COMM DEGREASING	000014241	POPULATION	NHC	7.59	0000054
006	DRY CLEANING	000014241	POPULATION	NHC	1.50	0000011
007	RECH SURFACE COATING	000014241	POPULATION	NHC	4.60	0000033
008	AUT BODY REFRESHING	000014241	POPULATION	NHC	1.50	0000014
009	SP TRD SURFACE COATING	000000116	TON	THC	1,175.00	0000068
010	GRAPHIC ARTS	000014241	POPULATION	NHC	0.80	0000005
011	COMM/CONS SOLVENT USE	000014241	POPULATION	NHC	6.30	0000045
012	CUTBACK ASPHALT	000000245	TON	NHC	400.00	0000049
013	PESTICIDES	000021948	ACRE	NHC	3.50	0000036
014	ON-HIGHWAY LDV	000079639	THOUS VMT	NOX NHC	7.68 7.57	0000304 0000302
015	ON-HIGHWAY LDT1	000005093	THOUS VMT	NOX NHC	8.24 8.57	0000021 0000022
016	ON-HIGHWAY LDT2	000005093	THOUS VMT	NOX NHC	9.48 9.61	0000024 0000024

TABLE B-1 (continued)

GCA / TECHNOLOGY DIVISION
AREA SOURCE MASTER FILE SUMMARY
FOR OHIO

COUNTY:4540

CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RATE UNITS	POLLUTANT I.D.	EMISSION FACTOR	EMISSIONS ESTIMATE
017	ON-HIGHWAY HOG	000002779 THOUS VMT	NOX NHC	26.27 20.06	0000037 0000028
018	ON-HIGHWAY HOG	000007417 THOUS VMT	NOX NHC	58.69 5.28	0000218 0000020
019	ON-HIGHWAY *C	000000503 THOUS VMT	NOX NHC	1.33 13.43	0000000 0000003
020	RESIDENTIAL ANTHRACITE	000005373 TON	NOX THC	3.00 2.50	0000008 0000007
021	RESIDENTIAL BITUMINOUS	000000000 TON	NOX THC	6.00 3.00	0000000 0000000
022	RESIDENTIAL RESIDUAL OIL	000000000 THOUS GAL	NOX THC	16.00 1.00	0000009 0000000
023	RESIDENTIAL DISTILLATE	000001829 THOUS GAL	NOX THC	18.00 1.00	0000016 0000001
024	RESIDENTIAL NATURAL GAS	000000583 MIL CU FT	NOX THC	80.00 8.00	0000023 0000002
025	RESIDENTIAL LPG	000000500 THOUS GAL	NOX THC	7.50 0.75	0000002 0000000
026	RESIDENTIAL WOOD	000000000 TON	NOX NHC	1.00 5.00	0000000 0000000
027	COMM/INST ANTHRACITE	000000000 TON	NOX THC	10.00 0.00	0000000 0000000
028	COMM/INST BITUMINOUS	000000000 TON	NOX THC	6.00 3.00	0000000 0000000
029	COMM/INST RESIDUAL OIL	000000130 THOUS GAL	NOX THC	60.00 1.00	0000004 0000000

TABLE B-1 (continued)

CCF / TECHNOLOGY DIVISION
AREA SOURCE MASTER FILE SUMMARY
FOR Ohio

COUNTY:4540

CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS FACILITY	UNITS	POLLUTANT I.D.	EMISSION FACTOR	EMISSIONS ESTIMATE
030	COMH/INST DISTILLATE	000000000	THOUS GAL	NOX THC	22.00 1.00	0000000 0000000
031	COMH/INST NATURAL GAS	000000137	MIL CU FT	NOX THC	120.00 8.00	0000008 0000001
032	COMH/INST LPG	000000000	THOUS GAL	NOX THC	11.00 0.75	0000000 0000000
033	COMH/INST WOOD/OTHER	000000000	TON	NOX THC	1.00 5.00	0000000 0000000
034	INDUSTRIAL ANTHRACITE	000000000	TON	NOX THC	18.00 0.00	0000000 0000000
035	INDUSTRIAL BITUMINOUS	000031673	TON	NOX THC	15.00 1.00	0000238 0000016
036	INDUSTRIAL RESIDUAL OIL	000000443	THOUS GAL	NOX THC	60.00 1.00	0000013 0000000
037	INDUSTRIAL DISTILLATE OIL	000000060	THOUS GAL	NOX THC	22.00 1.00	0000023 0000001
038	INDUSTRIAL NATURAL GAS	000000339	MIL CU FT	NOX THC	175.00 3.00	0000030 0000001
039	INDUSTRIAL LPG	000000154	THOUS GAL	NOX THC	11.65 0.30	0000001 0000000
040	INDUSTRIAL WOOD/OTHER	000000000	TON	NOX THC	1.00 5.00	0000000 0000000
041	MILITARY AIRCRAFT	000000000	LNO/TAKE OFF	NOX THC	9.16 27.10	0000000 0000000
042	CIVIL AIRCRAFT	000003650	LNO/TAKE OFF	NOX THC	0.02 0.41	0000000 0000001

TABLE B-1 (continued)

COUNTY:4540		604 / TECHNOLOGY DIVISION AREA SOURCE MASTER FILE SUMMARY FOR OHIO					
CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RATE	UNITS	POLLUTANT I.D.	EMISSION FACTOR	EMISSIONS ESTIMATE	
043	COMMERCIAL AIRCRAFT	000000000	LND/TAKE OFF	NOX THC	26.93 30.66	000000 000000	
044	RAILROAD LOCOMOTIVES	000000592	THOUS GAL	NOX THC	370.00 94.00	000010 000026	
045	VESSELS - GASOLINE	000000019	THOUS GAL	NOX THC	39.05 835.47	000000 000006	
046	VESSELS - DISTILLATE OIL	000000000	THOUS GAL	NOX THC	270.00 50.00	000000 000000	
047	VESSELS - RESIDUAL OIL	000000000	THOUS GAL	NOX THC	63.60 1.72	000000 000000	
048	OFF-HIGHWAY VEHICLES-GAS	000000227	THOUS GAL	NOX THC	123.35 202.64	000014 000023	
049	OFF-HIGHWAY VEH - DIESEL	000000394	THOUS GAL	NOX THC	345.18 55.84	000068 000011	
050	ON-SITE INCINERATION	000001820	TON	NOX THC	1.00 42.86	000001 000039	
051	OPEN BURNING	000006923	TON	NOX THC	5.53 29.02	000019 000100	
052	STRUCTURAL FIRES	000000027	FIRES	NOX THC	17.00 107.00	000000 000001	
053	FILL/SLASH BURNING	000000000	TON	NOX THC	4.00 23.00	000000 000000	
054	FOREST FIRES	000000180	ACRE	NOX THC	43.21 261.02	000004 000023	
099	COUNTY TOTALS			THC NOX NOX		000043 000049 000186	

TABLE B-1 (continued)

GGT / TECHNOLOGY DIVISION
AREA SOURCE MASTER FILE SUMMARY
FOR OHIO

COUNTY:4646

CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RATE	UNITS	POLLUTANT I.U.	EMISSION FACTOR	EMISSIONS ESTIMATE
001	STAGE I GASOLINE EVAP	000045601	THOUS GAL	THC	8.35	0000190
002	STAGE II GASOLINE EVAP	000045102	THOUS GAL	THC	9.70	0000219
003	STORAGE TANK BREATHING	000045601	THOUS GAL	THC	1.00	0000323
004	GASOLINE LOADING/TRANSIT	000045601	THOUS GAL	THC	6.67	0000157
005	SM IND/COMM DEGREASING	000083340	POPULATION	NHC	7.59	0000316
006	DRY CLEANING	000083340	POPULATION	NHC	1.50	0000063
007	ARCH SURFACE COATING	000083340	POPULATION	NHC	4.60	0000192
008	AUTO BODY FINISHING	000083340	POPULATION	NHC	1.90	0000079
009	SP IND SURFACE COATING	000000051	TON	THC	1,175.00	0000406
010	GRAPHIC ARTS	000083340	POPULATION	NHC	0.80	0000033
011	COMM/CONS SOLVENT USE	000083340	POPULATION	NHC	6.30	0000263
012	CUTBACK ASPHALT	000001432	TON	NPC	400.00	0000286
013	PLASTICATES	000054648	ACRE	NPC	3.50	0000096
014	ON-HIGHWAY LDV	000443701	THOUS VMT	NOX THC	7.68 7.57	0001704 0001680
015	ON-HIGHWAY LDT1	000028377	THOUS VMT	NOX NHC	8.24 8.57	0000117 0000122
016	ON-HIGHWAY LDT2	000028377	THOUS VMT	NOX NHC	9.48 5.61	0000135 0000136

TABLE B-1 (continued)

GCA / TECHNOLOGY DIVISION
AREA SOURCE MASTER FILE SUMMARY
FOR DMIC

COUNTY:0640

CATEGORY ALPSEEP	CATEGORY DESCRIPTION	PROCESS RATE	UNITS	POLLUTANT I.D.	EMISSION FACTOR	EMISSIONS ESTIMATE
017	ON-HIGHWAY HOG	000015445	THOUS VMT	NOX NHC	26.27 20.66	0000203 0000155
018	ON-HIGHWAY HOG	000041323	THOUS VMT	NOX NHC	58.49 5.26	0001217 0000109
019	ON-HIGHWAY PC	000002600	THOUS VMT	NOX NHC	1.33 13.43	0000002 0000019
020	RESIDENTIAL ANTHRACITE	000013297	TON	NOX THC	3.00 2.50	0000020 0000017
021	RESIDENTIAL BITUMINOUS	000000000	TON	NOX THC	6.00 3.00	0000000 0000000
022	RESIDENTIAL RESIDUAL OIL	000000000	THOUS GAL	NOX THC	16.60 1.00	0000000 0000000
023	RESIDENTIAL DISTILLATE	000005820	THOUS GAL	NOX THC	18.60 1.00	0000052 0000003
024	RESIDENTIAL NATURAL GAS	000003298	MIL CU FT	NOX THC	80.00 8.60	0000132 0000013
025	RESIDENTIAL LPG	000001076	THOUS GAL	NOX THC	7.50 0.75	0000004 0000000
026	RESIDENTIAL WOOD	000000000	TON	NOX NHC	1.00 5.00	0000000 0000000
027	COMM/INST ANTHRACITE	000000000	TON	NOX THC	10.00 0.00	0000000 0000000
028	COMM/INST BITUMINOUS	000000000	TON	NOX THC	6.00 3.00	0000000 0000000
029	COMM/INST RESIDUAL OIL	000001855	THOUS GAL	NOX THC	60.00 1.60	0000056 0000001

TABLE B-1 (continued)

SCS / TECHNOLOGY DIVISION
AREA SOURCE MASTER FILE SUMMARY
FOR OHIO

COUNTY: 4647

CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RATE	UNITS	POLLUTANT EMISSION F.D.	EMISSIONS ESTIMATE
030	COMM/INST DISTILLATE	000000000	THOUS GAL	NOX THC	22.00 000000 1.00 000000
031	COMM/INST NATURAL GAS	000001942	MIL CU FT	NOX THC	120.00 0000117 8.00 0000038
032	COMM/INST LPG	000000000	THOUS GAL	NOX THC	11.00 0000000 0.75 0000000
033	COMM/INST WOOD/OTHER	000000000	TON	NOX THC	1.00 0000000 5.00 0000000
034	INDUSTRIAL ANTHRACITE	000000000	TON	NOX THC	18.00 0000000 0.00 0000000
035	INDUSTRIAL BITUMINOUS	000185721	TON	NOX THC	15.00 0001393 1.00 0000093
036	INDUSTRIAL RESIDUAL OIL	000002647	THOUS GAL	NOX THC	60.00 0000079 1.00 0000001
037	INDUSTRIAL DISTILLATE OIL	000012306	THOUS GAL	NOX THC	22.00 0000135 1.00 0000006
038	INDUSTRIAL NATURAL GAS	000002023	MIL CU FT	NOX THC	175.00 0000177 3.00 0000003
039	INDUSTRIAL LPG	000001157	THOUS GAL	NOX THC	11.65 0000007 0.30 0000000
040	INDUSTRIAL WOOD/OTHER	000000000	TON	NOX THC	1.00 0000000 5.00 0000000
041	MILITARY AIRCRAFT	000000000	LHD/TAKE OFF	NOX THC	9.16 0000000 27.10 0000000
042	CIVIL AIRCRAFT	000038690	LHD/TAKE OFF	NOX THC	0.02 0000001 0.41 0000008

TABLE B-1 (continued)

GCA / TECHNOLOGY DIVISION
AREA SOURCE MASTER FILE SUMMARY
FOR OHIO

COUNTY:4640

CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RATE	UNITS LHD/TAKT OFF	POLLUTANT EMISSION I.D. FACTOR	EMISSIONS ESTIMATE
043	COMMERCIAL AIRCRAFT	00000000		NOX THC	26.93 000000 30.66 000000
044	RAILROAD LOCOMOTIVES	000002484	THOUS GAL	NOX THC	370.00 0000460 94.00 0000117
045	VESSELS - GASOLINE	000000149	THOUS GAL	NOX THC	39.05 0000003 835.47 0000062
046	VESSELS - DISTILLATE OIL	000000000	THOUS GAL	NOX THC	270.00 0000000 50.00 0000000
047	VESSELS - RESIDUAL OIL	000000000	THOUS GAL	NOX THC	63.60 0000000 1.72 0000000
048	OFF-HIGHWAY VEHICLES-GAS	000000611	THOUS GAL	NOX THC	96.20 0000030 268.41 0000082
049	OFF-HIGHWAY VEH - DIESEL	000001434	THOUS GAL	NOX THC	390.52 0000280 46.03 0000033
050	ON-SITE INCINERATION	000011537	TON	NOX THC	2.25 0000013 5.37 0000031
051	OPEN BURNING	000040969	TON	NOX THC	5.53 0000113 29.02 0000595
052	STRUCTURAL FIRES	000000162	FIRES	NOX THC	17.00 0000001 107.00 0000009
053	FILL/CLASH BURNING	000000000	TON	NOX THC	4.00 0000000 23.00 0000000
054	FOREST FIRES	000000284	ACRE	NOX THC	47.21 0000006 261.02 0000037
099	COUNTY TOTALS			THC NOX NOX	0002114 0003549 0006457

TABLE B-1 (continued)

SCA / TECHNOLOGY DIVISION
APLA SOURCE PASTER FILE SUMMARY
FOR 0410

COUNTY:4900

CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RATE	UNITS	POLLUTANT EMISSION F.I.O.	EMISSIONS ESTIMATE
001	STAGE I GASOLINE EVAP	000006651	THOUS GAL	THC	8.35 0000028
002	STAGE II GASOLINE EVAP	000006579	THOUS GAL	THC	9.70 0000032
003	STORAGE TANK BREATHING	000006651	THOUS GAL	THC	1.00 0000003
004	GASOLINE LUBRICATION/TRANSIT	000006651	THOUS GAL	THC	6.87 0000023
005	SM I/O/COMP DESPEASING	000011310	POPULATION	NHC	7.59 0000043
006	DRY CLEANING	000011310	POPULATION	NHC	1.50 0000008
007	SHOP SURFACE COATING	000011310	POPULATION	NHC	4.60 0000026
008	AUT BODY REFINISHING	000011310	POPULATION	NHC	1.50 0000011
009	SM I/O SURFACE COATING	000000090	TON	THC	1.175.00 0000053
010	GRAPHIC ARTS	000011310	POPULATION	NHC	9.80 0000005
011	COMM/CRPS SOLVENT USE	000011310	POPULATION	NHC	6.30 0000036
012	CUTBACK ASPHALT	000000194	TON	NHC	400.00 0000039
013	PLASTICS	000011110	ACRE	NHC	3.50 0000033
014	ON-HIGHWAY LDV	000062573	THOUS VMT	NHC	7.68 0000240
015	ON-HIGHWAY LDV	000004002	THOUS VMT	NHC	7.57 0000237
016	ON-HIGHWAY LDV	000004002	THOUS VMT	NHC	8.24 0000316
017	ON-HIGHWAY LDV	000004002	THOUS VMT	NHC	8.57 0000017
018	ON-HIGHWAY LDV	000004002	THOUS VMT	NHC	9.48 0000019
019	ON-HIGHWAY LDV	000004002	THOUS VMT	NHC	9.61 0000019

TABLE B-1 (continued)

GCA / TECHNOLOGY DIVISION AREA SOURCE MASTER FILE SUMMARY FOR OHIO						
CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RATE	UNITS	POLLUTANT I.D.	EMISSION FACTOR	EMISSIONS ESTIMATE
017	ON-HIGHWAY HDS	000002184	THOUS VMT	NOX NHC	26.27 20.06	0000029 0000022
018	ON-HIGHWAY HDQ	000005028	THOUS VMT	NOX NHC	58.89 5.28	0000172 0000015
019	ON-HIGHWAY PC	000000395	THOUS VMT	NOX NHC	1.33 13.43	0000000 0000003
020	RESIDENTIAL ANTHRACITE	000004864	TON	NOX THC	3.00 2.50	0000007 0000006
021	RESIDENTIAL BITUMINOUS	000000000	TON	NOX THC	6.70 3.00	0000000 0000000
022	RESIDENTIAL RESIDUAL OIL	000000000	THOUS GAL	NOX THC	18.30 1.00	0000000 0000000
023	RESIDENTIAL DISTILLATE	000001192	THOUS GAL	NOX THC	18.00 1.00	0000011 0000001
024	RESIDENTIAL NATURAL GAS	000000439	MIL CU FT	NOX THC	80.00 8.00	0000018 0000002
025	RESIDENTIAL LPG	000000326	THOUS GAL	NOX THC	7.50 0.75	0000001 0000000
026	RESIDENTIAL WOOD	000001957	TON	NOX NHC	1.00 5.00	0000001 0000005
027	CUMULATIVE ANTHRACITE	000000000	TON	NOX THC	10.00 0.00	0000000 0000000
028	CUMULATIVE BITUMINOUS	000000000	TON	NOX THC	6.00 3.00	0000000 0000000
029	CUMULATIVE RESIDUAL OIL	000000100	THOUS GAL	NOX THC	60.00 1.00	0000003 0000000

TABLE B-1 (continued)

RC / TECHNOLOGY DIVISION
AREA SOURCE MASTER FILE SUMMARY
FOR CHS

COUNTY: 090

CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS PATH	UNITS	POLLUTANT I.D.	EMISSION FACTOR	EMISSIONS ESTIMATE
030	COMM/INST DISTILLATE	00000000	THOUS GAL	NOX THC	22.00 1.00	000000 000000
031	COMM/INST NATURAL GAS	000000106	MIL CU FT	NOX THC	120.00 8.00	0000006 0000000
032	COMM/INST LPG	000000000	THOUS GAL	NOX THC	11.00 0.75	0000000 0000000
033	COMM/INST WOOD/OTHER	000000000	TON	NOX THC	1.00 5.00	0000000 0000000
034	INDUSTRIAL ANTHRACITE	000000000	TON	NOX THC	18.00 0.00	0000000 0000000
035	INDUSTRIAL BITUMINOUS	000012957	TON	NOX THC	15.00 1.00	0000097 0000006
036	INDUSTRIAL RESIDUAL OIL	000000108	THOUS GAL	NOX THC	60.00 1.00	0000006 0000000
037	INDUSTRIAL DISTILLATE OIL	000000873	THOUS GAL	NOX THC	22.00 1.00	0000010 0000003
038	INDUSTRIAL NATURAL GAS	000000144	MIL CU FT	NOX THC	175.00 3.00	0000013 0000000
039	INDUSTRIAL LPG	000000082	THOUS GAL	NOX THC	11.00 0.70	0000003 0000000
040	INDUSTRIAL WOOD/OTHER	000000000	TON	NOX THC	1.00 5.00	0000000 0000000
041	MILITARY AIRCRAFT	000000000	LND/TAKE OFF	NOX THC	9.16 27.10	0000000 0000000
042	CIVIL AIRCRAFT	000001825	LND/TAKE OFF	NOX THC	0.02 0.41	0000000 0000000

TABLE B-1 (continued)

COUNTY:4900		GCA / TECHNOLOGY DIVISION AREA SOURCE MASTER FILE SUMMARY FOR OHIO						
CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RATE	UNITS	POLLUTANT T.D.	EMISSION FACTOR	EMISSIONS ESTIMATE		
043	COMMERCIAL AIRCRAFT	00000000	LND/TAKE OFF	NOX TFC	26.53 30.66	000000 000000		
044	RAILROAD LOCOMOTIVES	000000407	THOUS GAL	NOX TFC	370.00 94.00	0000075 0000019		
045	VESSELS - GASOLINE	000000017	THOUS GAL	NOX TFC	39.05 835.47	0000000 0000007		
046	VESSELS - DISTILLATE OIL	000000000	THOUS GAL	NOX TFC	270.00 50.00	0000000 0000000		
047	VESSELS - RESIDUAL OIL	000000000	THOUS GAL	NOX TFC	63.60 1.72	0000000 0000000		
048	OFF-HIGHWAY VEHICLES-GAS	000000206	THOUS GAL	NOX TFC	116.50 194.17	0000012 0000020		
049	OFF-HIGHWAY VEH - DIESEL	000000378	THOUS GAL	NOX TFC	338.62 58.20	0000064 0000011		
050	ON-CITY INCINERATION	000001363	TON	NOX TFC	1.45 43.38	0000001 0000030		
051	OPEN BURNING	000005467	TON	NOX TFC	5.53 29.02	0000015 0000079		
052	STRUCTURAL FIRES	000000000	FIRES	NOX TFC	17.00 107.00	0000000 0000000		
053	FIELD/SLASH BURNING	000000000	TON	NOX TFC	4.00 23.00	0000000 0000000		
054	FOREST FIRES	000000174	ACRE	NOX TFC	43.21 261.02	0000004 0000023		
055	COUNTY TOTALS			TFC NOX NOX		0000343 0000519 0000620		

TABLE B-1 (continued)

CC / TECHNOLOGY DIVISION
AREA SOURCE MASTER FILE SUMMARY
FAR OHIO

COUNTY:5440

CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RATE	UNITS	POLLUTANT I.D.	EMISSION FACTOR	EMISSIONS ESTIMATE
001	STAGE I GASOLINE EVAP	000016240	THOUS GAL	THC	8.75	0000068
002	STAGE II GASOLINE EVAP	000016101	THOUS GAL	THC	9.70	0000078
003	STORAGE TANK BREATHING	000016200	THOUS GAL	THC	1.00	0000008
004	GASOLINE LOADING/TRANSIT	000016200	THOUS GAL	THC	6.87	0000056
005	SM I AD/COMM DEGREASING	000031032	POPULATION	NHC	7.59	0000116
006	DRY CLEANING	000031032	POPULATION	NHC	1.50	0000023
007	PROP SURFACE COATING	000031032	POPULATION	NHC	4.60	0000071
008	AUTO BODY REFINISHING	000031032	POPULATION	NHC	1.90	0000029
009	SM I AD SURFACE COATING	000000250	TON	THC	1,175.00	0000153
010	GRAPHIC ARTS	000031032	POPULATION	NHC	0.80	0000012
011	COMM/CCNS SOLVENT USE	000031032	POPULATION	NHC	6.30	0000098
012	CUTBACK ASPHALT	000000533	TON	NHC	400.00	0000107
013	PESTICIDES	000038216	ACRE	NHC	3.50	0000067
014	ON-HIGHWAY LUV	000159277	THOUS VMT	NCH NHC	7.68 7.57	0000612 0000603
015	ON-HIGHWAY IDT1	000010187	THOUS VMT	NCH NHC	8.24 8.57	0000042 0000044
016	ON-HIGHWAY IDT2	000010187	THOUS VMT	NCH NHC	5.48 9.61	0000048 0000049

TABLE B-1 (continued)

GCA / TECHNOLOGY DIVISION
AREA SOURCE MASTER FILE SUMMARY
FOR OHIO

COUNTY:5440

CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RATE	UNITS	POLLUTANT I.D.	EMISSION FACTOR	EMISSIONS ESTIMATE
017	01-HIGHWAY HDG	000005559	THOUS VMT	NOX NHC	26.27 20.06	0000073 0000056
018	0N-HIGHWAY HDG	000014034	THOUS VMT	NOX NHC	58.89 5.28	0000437 0000039
019	0H-HIGHWAY PC	000001005	THOUS VMT	NOX NHC	1.33 13.43	0000001 0000007
020	RESIDENTIAL ANTHRACITE	000011411	TON	NOX THC	3.00 2.50	0000017 0000014
021	RESIDENTIAL BITUMINOUS	000000000	TON	NOX THC	6.00 3.00	0000000 0000000
022	RESIDENTIAL RESIDUAL OIL	000000000	THOUS GAL	NOX THC	18.00 1.00	0000000 0000000
023	RESIDENTIAL DISTILLATE	000002584	THOUS GAL	NOX THC	18.00 1.00	0000023 0000001
024	RESIDENTIAL NATURAL GAS	000012177	MIL CU FT	NOX THC	80.00 8.00	0000487 0000049
025	RESIDENTIAL LPG	000000719	THOUS GAL	NOX THC	7.50 0.75	0000003 0000000
026	RESIDENTIAL WOOD	000001377	TON	NOX NHC	1.00 5.00	0000001 0000003
027	COMM/INST ANTHRACITE	000000000	TON	NOX THC	18.00 0.00	0000000 0000000
028	COMM/INST BITUMINOUS	000000000	TON	NOX THC	6.00 3.00	0000000 0000000
029	COMM/INST RESIDUAL OIL	000000230	THOUS G-L	NOX THC	60.00 1.00	0000007 0000000

TABLE B-1 (continued)

CCF / TECHNOLOGY DIVISION
AREA SOURCE MASTER FILE SUMMARY
FOR CHIU

COUNTY:5440

CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RATE	UNITS	POLLUTANT I.D.	EMISSION FACTOR	EMISSIONS ESTIMATE
030	CORR/INST DISTILLATE	00000000	THOUS GAL	NOX THC	22.00 1.00	000000 000000
031	CORR/INST NATURAL GAS	000000243	MIL CU FT	NOX THC	123.00 8.00	0000015 0000001
032	CORR/INST LFG	000000000	THOUS GAL	NOX THC	11.00 0.75	0000000 0000000
033	CORR/INST WOOD/OTHER	000000000	TON	NOX THC	1.00 5.00	0000000 0000000
034	INDUSTRIAL ANTHRACITE	000000000	TON	NOX THC	18.00 0.00	0000000 0000000
035	INDUSTRIAL BITUMINOUS	000046070	TON	NOX THC	15.00 1.00	0000346 0000023
036	INDUSTRIAL RESIDUAL OIL	000000653	THOUS GAL	NOX THC	60.00 1.00	0000020 0000000
037	INDUSTRIAL DISTILLATE OIL	000000037	THOUS GAL	NOX THC	22.00 1.00	0000033 0000002
038	INDUSTRIAL NATURAL GAS	000000499	MIL CU FT	NOX THC	175.00 3.00	0000044 0000001
039	INDUSTRIAL LPG	000000266	THOUS GAL	NOX THC	11.65 0.30	0000002 0000000
040	INDUSTRIAL WOOD/OTHER	000000000	TON	NOX THC	1.00 5.00	0000000 0000000
041	MILITARY AIRCRAFT	000000000	LND/TAKE OFF	NOX THC	9.16 27.10	0000000 0000000
042	CIVIL AIRCRAFT	000000665	LND/TAKE OFF	NOX THC	0.02 0.41	0000000 0000002

TABLE B-1 (continued)

GCA / TECHNOLOGY DIVISION
AREA SOURCE MASTER FILE SUMMARY
FOR Q4-10

COUNTY:5940

CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RATE	POLLUTANT ID.	EMISSION FACTOR	EMISSIONS ESTIMATE
043	COMMERCIAL AIRCRAFT	000000000 LAD/TAKE OFF	NOX THC	26.53 30.66	0000000 0000000
044	RAILROAD LOCOMOTIVES	000001463 THOUS GAL	NOX THC	370.00 94.00	0000274 0000070
045	VESSELS - GASOLINE	000000002 THOUS GAL	NOX THC	39.05 635.47	0000002 0000034
046	VESSELS - DISTILLATE OIL	000000000 THOUS GAL	NOX THC	270.00 50.00	0000000 0000000
047	VESSELS - RESIDUAL OIL	000000000 THOUS GAL	NOX THC	63.60 1.72	0000000 0000000
048	OFF-HIGHWAY VEHICLES-GAS	000000287 THOUS GAL	NOX THC	104.53 236.93	0000015 0000034
049	OFF-HIGHWAY VEH - DIESEL	000000530 THOUS GAL	NOX THC	362.26 52.83	0000096 0000014
050	CITY-PILE INCINERATION	000003769 TON	NOX THC	2.65 44.00	0000005 0000063
051	OPEN BURNING	000014986 TON	NOX THC	5.53 29.02	0000041 0000217
052	STRUCTURAL PILES	000000024 FIRES	NOX THC	17.00 107.00	0000000 0000001
053	FIELD/FLASH BURNING	000000000 TON	NOX THC	4.50 23.00	0000000 0000000
054	FOREST FIRES	000000176 ACRE	NOX THC	43.21 261.02	0000094 0000023
999	COUNTY TOTALS		THC NOX NOX		0000032 0001326 0002648

TABLE B-1 (continued)

607 / TECHNOLOGY DIVISION
AREA SOURCE MASTER FILE SUMMARY
FOR CUIS

COUNTY:580

CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RATE	UNITS	POLLUTANT I.D.	EMISSION FACTOR	EMISSIONS ESTIMATE
001	STAGE 1 GASOLINE EVAP	000000200	THOUS GAL	THC	8.35	0000335
002	STAGE 11 GASOLINE EVAP	000079322	THOUS GAL	THC	9.70	0000385
003	STORAGE TANK BREATHING	000000200	THOUS GAL	THC	1.00	0000040
004	GASOLINE LOADING/TRANSIT	000045668	THOUS GAL	THC	6.47	0000150
005	SM IND/COMM DEGREASING	000135856	POPULATION	NHC	7.59	0000516
006	PAV CLEANING	000135856	POPULATION	NHC	1.50	0000102
007	PAV SURFACE COATING	000135856	POPULATION	NHC	4.60	0000312
008	AUT BODY REFINISHING	000135856	POPULATION	NHC	1.90	0000129
009	SM IND SURFACE COATING	000001130	TON	THC	1.175.00	0000664
010	GRAPHIC ARTS	000135856	POPULATION	NHC	0.40	0000054
011	COMM/CO'S SOLVENT USE	000135856	POPULATION	NHC	6.30	0000428
012	CUTBACK ASPHALT	000002336	TON	NHC	400.00	0000467
013	PESTICIDES	000053560	ACRE	NHC	3.50	0000094
014	ON-HIGHWAY LDV	000775320	THOUS VMT	NOX NHC	7.68 7.57	0002593 0002951
015	ON-HIGHWAY LDT	000049842	THOUS VMT	NOX NHC	4.24 8.57	0002205 0000214
016	ON-HIGHWAY LDT2	000049842	THOUS VMT	NOX NHC	9.48 9.61	0000236 0000239

TABLE B-1 (continued)

SCA / TECHNOLOGY DIVISION AREA SOURCE MASTER FILE SUMMARY FOR OHIO							
COUNTY:5560		CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RATE	UNITS	POLLUTANT EMISSION I.D. FACTOR	EMISSIONS ESTIMATE
		017	ON-HIGHWAY HOG	000027199	THOUS VMT	NOX NHC	26.27 0000357 20.06 0000273
		018	ON-HIGHWAY HOD	000072580	THOUS VMT	NOX NHC	58.49 0002137 5.28 0000192
		019	ON-HIGHWAY PC	000004919	THOUS VMT	NOX NHC	1.33 0000003 13.43 0000033
		020	RESIDENTIAL ANTHRACITE	000015988	TON	NOX THC	3.00 0000025 2.50 0000021
		021	RESIDENTIAL BITUMINOUS	000000000	TON	NOX THC	6.00 0000000 3.00 0000000
		022	RESIDENTIAL RESIDUAL OIL	000000000	THOUS GAL	NOX THC	18.00 0000000 1.00 0000000
		023	RESIDENTIAL DISTILLATE	000019737	THOUS GAL	NOX THC	18.00 0000178 1.00 0000010
		024	RESIDENTIAL NATURAL GAS	000005020	MIL CU FT	NOX THC	80.00 0000201 8.00 0000020
		025	RESIDENTIAL LPG	000003191	THOUS GAL	NOX THC	7.50 0000012 0.75 0000001
		026	RESIDENTIAL WOOD	000003866	TON	NOX NHC	1.00 0000002 5.00 0000010
		027	COMM/INST ANTHRACITE	000000000	TON	NOX THC	10.00 0000000 0.00 0000000
		028	COMM/INST BITUMINOUS	000000000	TON	NOX THC	6.00 0000000 3.00 0000000
		029	COMM/INST RESIDUAL OIL	000001815	THOUS GAL	NOX THC	60.00 0000056 1.00 0000001

TABLE B-1 (continued)

SCS / TECHNOLOGY DIVISION
APLA SOURCE MASTER FILE SUMMARY
FOR CHU

CATEGORY: 0330

CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RATE	UNITS	POLLUTANT EMISSION FACOR	EMISSIONS ESTIMATE
0330	COMM/INST DISTILLATE	000000000	THOUS GAL		
				NOX THC	22.00 000000 1.00 000000
0331	COMM/INST NATURAL GAS	000001781	MIL CU FT		
				NOX THC	120.00 0000107 8.00 0000007
0332	COMM/INST LPG	000000000	THOUS GAL		
				NOX THC	11.00 0000000 0.75 0000000
0333	COMM/INST FLOOD/OTHER	000000000	TON		
				NOX THC	1.00 0000000 5.00 0000000
0334	INDUSTRIAL ANTHRACITE	000000000	TON		
				NOX THC	18.00 0000000 0.00 0000000
0335	INDUSTRIAL BITUMINOUS	000101402	TON		
				NOX THC	15.00 0001361 1.00 0000091
0336	INDUSTRIAL RESIDUAL OIL	000002587	THOUS GAL		
				NOX THC	60.00 0000078 1.00 0000001
0337	INDUSTRIAL DISTILLATE OIL	000011579	THOUS GAL		
				NOX THC	22.00 000132 1.00 0000006
0338	INDUSTRIAL NATURAL GAS	000001957	MIL CU FT		
				NOX THC	175.00 0000171 3.00 0000003
0339	INDUSTRIAL LPG	000001131	THOUS GAL		
				NOX THC	11.65 0000007 0.30 0000000
0340	INDUSTRIAL FLOOD/OTHER	000000000	TON		
				NOX THC	1.00 0000000 5.00 0000000
0341	MILITARY AIRCRAFT	000000000	LND/TAKE OFF		
				NOX THC	9.16 0000000 27.10 0000003
0342	CIVIL AIRCRAFT	000046355	LND/TAKE OFF		
				NOX THC	0.02 0000001 0.41 0000010

TABLE B-1 (continued)

CCA / TECHNOLOGY DIVISION AREA SOURCE MASTER FILE SUMMARY FOR QUID									
COUNTY:5500	CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RATE	UNITS	POLLUTANT I.D.	EMISSION FACTOR	EMISSIONS ESTIMATE		
	043	COMMERCIAL AIRCRAFT	000000000	LND/TAKE OFF	NOX THC	26.93 30.66	000000 000000		
	044	RAILROAD LOCOMOTIVES	000004265	THOUS GAL	NOX THC	370.00 94.00	0000769 0000200		
	045	VESSELS - GASOLINE	000000256	THOUS GAL	NOX THC	39.05 835.47	0000005 0000107		
	046	VESSELS - DISTILLATE OIL	000000000	THOUS GAL	NOX THC	270.00 50.00	0000000 0000300		
	047	VESSELS - RESIDUAL OIL	000000000	THOUS GAL	NOX THC	63.60 1.72	0000000 0000000		
	048	OFF-HIGHWAY VEHICLES-GAS	000000616	THOUS GAL	NOX THC	71.20 330.10	0000022 0000102		
	049	OFF-HIGHWAY VEH - DIESEL	000001743	THOUS GAL	NOX THC	411.53 40.16	0000359 0000035		
	050	ON-SITE INCINERATION	000017031	TON	NOX THC	2.35 43.00	0000020 0000366		
	051	OPEN BURNING	000005880	TON	NOX THC	5.53 29.02	0000182 0000556		
	052	STRUCTURAL FIRES	000000192	FIRES	NOX THC	17.00 107.00	0000002 0000010		
	053	PILE/FLASH BURNING	000000000	TON	NOX THC	4.00 23.00	0000000 0000000		
	054	FOREST FIRES	000000018	ACRF	NOX THC	43.21 261.02	0000000 0000002		
	059	COUNTY TOTALS			THC NOX NOX		0003523 0005014 0009641		

TABLE B-1 (continued)

SCA / TECHNOLOGY DIVISION
AREA SOURCE MASTER FILE SUMMARY
FOR CHIO

CITY: INDIANAPOLIS

CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RATE	UNITS	POLLUTANT I.D.	EMISSION FACTOR	EMISSIONS ESTIMATE
001	STAGE I GASOLINE EVAP	000209420	THOUS GAL	THC	8.35	0000874
002	STAGE II GASOLINE EVAP	000207127	THOUS GAL	THC	9.70	0001005
003	STORAGE TANK BREATHING	000209420	THOUS GAL	THC	1.00	0000105
004	GASOLINE LOADING/TRANSIT	000209420	THOUS GAL	THC	6.87	0000719
005	SP ICE/COMP. DEGREASING	000378823	POPULATION	NHC	7.59	0001436
006	DRY CLEANING	000378823	POPULATION	NHC	1.50	0000284
007	ARCH SURFACE COATING	000378823	POPULATION	NHC	4.60	0000871
008	AUT. BODY REFINISHING	000378823	POPULATION	NHC	1.90	0000360
009	SM INT SURFACE COATING	00003147	TON	THC	1,175.00	0001849
010	GRAPHIC ARTS	000378823	POPULATION	NHC	0.80	0000152
011	COMP/CONS SOLVENT USE	000378823	POPULATION	NHC	6.30	0001191
012	CUTBACK ASPHALT	00006511	TON	NHC	400.00	0001302
013	PESTICIDES	000088592	ACRE	NHC	3.50	0000155
014	ON-HIGHWAY LDV	002030763	THOUS VMT	NOX NHC	7.68 7.57	0007796 0007689
015	ON-HIGHWAY LDT1	000129680	THOUS VMT	NOX NHC	8.24 9.57	0000735 0000557
016	ON-HIGHWAY LDT2	000129680	THOUS VMT	NOX NHC	9.48 9.61	0000616 0000624

TABLE B-1 (continued)

COUNTY:600		CCA / TECHNOLOGY DIVISION AREA SOURCE MASTER FILE SUMMARY FOR NMIC			POLLUTANT EMISSION I.D. FACTOR			EMISSIONS ESTIMATE	
CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RATE	UNITS						
017	ON-HIGHWAY HDG	000070876	THOUS VMT		NOX	26.27	000031		
					NHC	20.66	0000711		
018	ON-HIGHWAY HDD	000189131	THOUS VMT		NOX	58.89	0005569		
					NHC	5.28	0000499		
019	ON-HIGHWAY MC	000012017	THOUS VMT		NOX	1.33	0000009		
					NHC	13.43	0000066		
020	RESIDENTIAL ANTHRACITE	000033147	TON		NOX	3.00	0000950		
					THC	2.50	0000041		
021	RESIDENTIAL BITUMINOUS	000000000	TON		NOX	6.00	0000000		
					THC	3.00	0000000		
022	RESIDENTIAL RESIDUAL OIL	000000000	THOUS G/L		NOX	18.06	0000000		
					THC	1.00	0000000		
023	RESIDENTIAL DISTILLATE	000022803	THOUS GAL		NOX	1A.00	0000205		
					THC	1.00	0000011		
024	RESIDENTIAL NATURAL GAS	000013854	ML CU FT		NOX	80.00	0000554		
					THC	8.00	0000055		
025	RESIDENTIAL LPG	000002991	THOUS GAL		NOX	7.50	0000011		
					THC	0.75	0000001		
026	RESIDENTIAL WOOD	000002701	TON		NOX	1.00	0000001		
					NHC	5.00	0000007		
027	COMM/INST ANTHRACITE	000000000	TON		NOX	10.00	0000000		
					THC	0.00	0000000		
028	COMM/INST BITUMINOUS	000000000	TON		NOX	6.00	0000000		
					THC	3.00	0000000		
029	COMM/INST RESIDUAL OIL	000010180	THOUS GAL		NOX	60.00	0000305		
					THC	1.00	0000005		

TABLE B-1 (continued)

GC / TECHNOLOGY DIVISION
AREA SOURCE MASTER FILE SUMMARY
FOR OHIO

COUNTY:0400

CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RATE	UNITS	POLLUTANT I.D.	EMISSION FACTOR	EMISSIONS ESTIMATE
030	COMM/INST DISTILLATE	000000000	THOUS GAL	NOX THC	22.00 1.00	0000000 0000000
031	COMM/INST NATURAL GAS	000010730	PIL CU FT	NOX THC	120.00 8.00	0000644 0000043
032	COMM/INST LPG	000000000	THOUS GAL	NOX THC	11.00 0.75	0000000 0000000
033	COMM/INST WOOD/OTHER	000000000	TON	NOX THC	1.00 5.00	0000000 0000000
034	INDUSTRIAL ANTHRACITE	000000000	TON	NOX THC	18.00 0.50	0000000 0000000
035	INDUSTRIAL BITUMINOUS	001058179	TON	NOX THC	15.00 1.00	0007936 0000529
036	INDUSTRIAL RESIDUAL OIL	000000000	THOUS GAL	NOX THC	60.00 1.00	0000118 0000002
037	INDUSTRIAL DISTILLATE OIL	000072215	THOUS GAL	NOX THC	22.00 1.00	0000772 0000035
038	INDUSTRIAL NATURAL GAS	000000000	PIL CU FT	NOX THC	175.00 3.00	0000000 0000000
039	INDUSTRIAL LPG	000006609	THOUS GAL	NOX THC	11.65 0.10	0000034 0000001
040	INDUSTRIAL WOOD/OTHER	000000000	TON	NOX THC	1.00 5.00	0000000 0000000
041	MILITARY AIRCRAFT	000000000	LND/TAKE OFF	NOX THC	5.16 27.10	0000000 0000000
042	CIVIL AIRCRAFT	000135780	LND/TAKE OFF	NOX THC	0.02 0.41	0000002 0000020

TABLE B-1 (continued)

NOA / TECHNOLOGY DIVISION
AREA SOURCE MASTER FILE SUMMARY
FOR 1990

COUNTY: 000

CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RATE	UNITS	POLLUTANT I.D.	EMISSION FACTOR	EMISSIONS ESTIMATE
043	COMMERCIAL AIRCRAFT	00000000	LND/TAKE OFF	NOX THC	26.93 30.66	000000 000000
044	RAILROAD LOCOMOTIVES	000004672	THOUS GAL	NOX THC	370.30 94.03	0000064 0000220
045	VESSELS - GASOLINE	000000787	THOUS GAL	NOX THC	39.05 835.47	0000015 0000329
046	VESSELS - DISTILLATE OIL	000000000	THOUS GAL	NOX THC	270.00 50.00	0000000 0000000
047	VESSELS - RESIDUAL OIL	000000000	THOUS GAL	NOX THC	63.60 1.72	0000000 0000000
048	OFF-HIGHWAY VEHICLES-GAS	000001645	THOUS G/L	NOX THC	77.81 345.29	0000064 0000284
049	OFF-HIGHWAY VEH - DIESEL	000005567	THOUS GAL	NOX THC	430.75 37.36	0001199 0000104
050	ON-CITY INCINERATION	000057115	TON	NOX THC	2.28 37.78	0000065 0001079
051	OPEN BURNING	000188621	TON	NOX THC	5.53 29.02	0000522 0002737
052	STRUCTURAL FIRES	000000595	FIRES	NOX THC	17.00 107.00	0000005 0000032
053	FIELD/SLASH BURNING	000000000	TON	NOX THC	4.00 23.00	0000000 0000000
054	FOREST FIRES	000000067	ACFE	NOX THC	43.21 261.32	0000001 0000004
059	COUNTY TOTALS			THC NOX NOX		0010097 0015328 0024829

TABLE B-1 (continued)

CCA / TECHNOLOGY DIVISION
AREA SOURCE BASILIP FILE SUMMARY
FOR 3-13

COUNTS

CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RATE	UNITS	POLLUTANT I.D.	EMISSION FACTOR	EMISSIONS ESTIMATE
001	STAGE I GASOLINE EVAP	000267251	THOUS GAL	THC	8.35	0001199
002	STAGE II GASOLINE EVAP	000284106	THOUS GAL	THC	9.70	0001378
003	STORAGE TANK BREATHING	000267251	THOUS GAL	THC	1.00	0000144
004	GASOLINE LOADING/TRANSIT	000267251	THOUS GAL	THC	6.87	0000987
005	SH IND/COMM DEGREASING	000524472	POPULATION	NHC	7.59	0001490
006	DRY CLEANING	000524472	POPULATION	NHC	1.50	0000393
007	ARCH SURFACE COATING	000524472	POPULATION	NHC	4.60	0001206
008	AUTO BODY REFINISHING	000524472	POPULATION	NHC	1.90	0000498
009	SH IND SURFACE COATING	000034357	TON	TPC	1,175.00	0002560
010	GRAPHIC ARTS	000524472	POPULATION	NHC	0.80	0000210
011	COMM/CCPS SOLVENT USE	000524472	POPULATION	NHC	6.30	0001652
012	CUTBACK ASPHALT	000000014	TON	NPC	400.00	0001803
013	PLASTICLES	000012600	ACRE	NHC	3.50	0000022
014	ON-HIGHWAY LDV	002781661	THOUS VMT	NOX NHC	7.68 7.57	0010662 0010531
015	ON-HIGHWAY LDT1	000177903	THOUS VMT	NOX NHC	8.24 8.57	0000733 0000762
016	ON-HIGHWAY LDT2	000177903	THOUS VMT	NOX NHC	9.48 9.61	0000844 0000855

TABLE B-1 (continued)

GCA / TECHNOLOGY DIVISION
AREA SOURCE MASTER FILE SUMMARY
F.A. #410

COUNTY:6500

CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RATE UNITS	POLLUTANT I.D.	EMISSION FACTOR	EMISSIONS ESTIMATE
017	ON-HIGHWAY HDG	000097082 THOUS VMT	NOX NHC	26.27 20.06	0001276 0000974
018	ON-HIGHWAY HDD	000259062 THOUS VMT	NOX NHC	58.89 5.28	0007628 0000684
019	ON-HIGHWAY MC	000017556 THOUS VMT	NOX NHC	1.33 13.43	0000012 0000119
020	RESIDENTIAL ANTHRACITE	000011262 TON	NOX THC	3.00 2.50	0003017 0000014
021	RESIDENTIAL BITUMINOUS	000000000 TON	NOX THC	6.00 3.00	0000000 0000000
022	RESIDENTIAL RESIDUAL OIL	000000000 THOUS GAL	NOX THC	18.00 1.00	0000000 0000000
023	RESIDENTIAL DISTILLATE	000021619 THOUS GAL	NOX THC	18.00 1.00	0000195 0000011
024	RESIDENTIAL NATURAL GAS	000018875 MIL CU FT	NOX THC	80.00 8.00	0000755 0000075
025	RESIDENTIAL LPG	000003525 THOUS GAL	NOX THC	7.50 0.75	0000013 0000001
026	RESIDENTIAL WOOD	000000000 TON	NOX NHC	1.00 5.00	0000000 0000000
027	COMM/INST ANTHRACITE	000000000 TON	NOX THC	10.00 0.00	0000000 0000000
028	COMM/INST BITUMINOUS	000000000 TON	NOX THC	6.00 3.00	0000000 0000000
029	COMM/INST RESIDUAL OIL	000017491 THOUS GAL	NOX THC	60.00 1.00	0000522 0000009

TABLE B-1 (continued)

602 / TECHNOLOGY DIVISION
AREA SOURCE MASTER FILE SUMMARY
FOR OHIO

COUNTY:0500

CATEGORY NUMBER 030	CATEGORY DESCRIPTION COMM/INST DISTILLATE	PROCESS RATE 000000000 THOUS GAL	POLLUTANT I.D.	EMISSION FACTOR	EMISSIONS ESTIMATE
031	COMM/INST NATURAL GAS	000017751 MIL CU FT	NOX THC	22.00 1.00	0000000 0000000
032	COMM/INST LPG	000000000 THOUS GAL	NOX THC	120.00 8.00	0001065 0000071
033	COMM/INST WOOD/OTHER	000000000 TON	NOX THC	11.00 0.75	0000000 0000000
034	INDUSTRIAL ANTHRACITE	000000000 TON	NOX THC	1.00 5.00	0000000 0000000
035	INDUSTRIAL BITUMINOUS	001424174 TON	NOX THC	16.00 0.00	0000000 0000000
036	INDUSTRIAL RESIDUAL OIL	000000000 THOUS GAL	NOX THC	15.00 1.00	0010961 0000732
037	INDUSTRIAL DISTILLATE OIL	000075346 THOUS GAL	NOX THC	60.00 1.00	0000000 0000000
038	INDUSTRIAL NATURAL GAS	000012452 MIL CU FT	NOX THC	22.00 1.00	0000429 0000030
039	INDUSTRIAL LPG	000000146 THOUS GAL	NOX THC	175.00 3.00	0001090 0000019
040	INDUSTRIAL WOOD/OTHER	000000000 TON	NOX THC	11.00 0.75	0000053 0000001
041	MILITARY AIRCRAFT	000012454 LND/TAKE OFF	NOX THC	1.00 5.00	0000000 0000000
042	CIVIL AIRCRAFT	000167170 LND/TAKE OFF	NOX THC	9.16 27.10	0000057 0000169
			NOX THC	0.02 0.41	0000002 0000034

TABLE B-1 (continued)

6CA / TECHNOLOGY DIVISION
AREA SOURCE MASTER FILE SUMMARY
FOR Ohio

COUNTY: 500

CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RAIL	UNITS LND/TAKE OFF	POLLUTANT I.D.	EMISSION FACTOR	EMISSIONS ESTIMATE
043	COMMERCIAL AIRCRAFT	000003666		NOX THC	26.53 30.66	0000052 0000059
044	RAILROAD LOCOMOTIVES	000003560	THOUS GAL	NOX THC	370.00 94.00	0000659 0000167
045	VESSELS - GASOLINE	000000978	THOUS GAL	NOX THC	34.05 835.47	0000019 0000409
046	VESSELS - DISTILLATE OIL	000000000	THOUS GAL	NOX THC	270.00 50.00	0000000 0000000
047	VESSELS - RESIDUAL OIL	000000000	THOUS GAL	NOX THC	63.60 1.72	0000000 0000000
048	OFF-HIGHWAY VEHICLES-GAS	000000070	THOUS GAL	NOX THC	56.04 362.32	0000058 0000375
049	OFF-HIGHWAY VEH - DIESEL	000011475	THOUS GAL	NOX THC	439.46 34.69	0002406 0000199
050	ON-SITE INCINERATION	000074211	TON	NOX THC	2.30 38.10	0000090 0001490
051	OPEN BURNING	000260697	TON	NOX THC	5.53 29.02	0000721 0003783
052	STRUCTURAL FIRES	000001200	FIRES	NOX THC	17.00 107.00	0000010 0000065
053	FIELD /SLASH BURNING	000000000	TON	NOX THC	4.00 23.00	0000003 0000000
054	FOREST FIRES	000000015	ACRE	NOX THC	43.21 261.02	0000000 0000002
059	COUNTY TOTALS			THC HHC NOX		0013592 0021596 0040869

TABLE B-1 (continued)

CCA / TECHNOLOGY DIVISION
AREA SOURCE MASTER FILE SUMMARY
FOR 2013

COUNTY:6700

CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RATE	UNITS	POLLUTANT I.D.	EMISSION FACTOR	EMISSIONS ESTIMATE
001	STAGE I GASOLINE EVAP	000140023	THOUS GAL	THC	8.35	0000585
002	STAGE II GASOLINE EVAP	000134490	THOUS GAL	THC	9.70	0000672
003	STORAGE TANK BREATHING	000140023	THOUS GAL	THC	1.00	0000070
004	GASOLINE LOADING/TRANSIT	000140023	THOUS GAL	THC	6.87	0000481
005	SM. IND/COMM DEGREASING	000241863	POPULATION	NHC	7.59	0000918
006	DRY CLEANING	000241863	POPULATION	NHC	1.50	0000181
007	ARCH SURFACE COATING	000241863	POPULATION	NHC	4.60	0000556
008	AUTO BODY REFINISHING	000241863	POPULATION	NHC	1.90	0000230
009	SM. IND SURFACE COATING	000002069	TON	THC	1,175.00	0001180
010	GRAPHIC ARTS	000241863	POPULATION	NHC	0.80	0000097
011	COMM/CLUB SOLVENT USE	000241863	POPULATION	NHC	6.30	0000762
012	CUTBACK ASPHALT	000004157	TON	NHC	400.00	0000231
013	PESTICIDES	000154492	ACFI	NHC	3.50	0000095
014	ON-HIGHWAY LDV	001353856	THOUS VMT	NOX NHC	7.68 7.57	0005199 0005125
015	ON-HIGHWAY LDV	000086587	THOUS VMT	NOX NHC	8.24 8.57	0003357 0003371
016	ON-HIGHWAY LDV	000086587	THOUS VMT	NOX NHC	9.48 9.61	0003411 0003416

TABLE B-1 (continued)

GCA / TECHNOLOGY DIVISION
AREA SOURCE MASTER FILE SUMMARY
FOR OHIO

COUNTY: 0700

CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS FAC	UNITS	POLLUTANT I.D.	EMISSION FACTOR	EMISSIONS ESTIMATE
017	ON-HIGHWAY FUG	000047251	THOUS VMT	NOX NHC	26.27 20.06	0000621 0000474
018	ON-HIGHWAY HDD	000126087	THOUS VMT	NOX NHC	58.89 5.28	0003713 0000533
019	ON-HIGHWAY MC	000008545	THOUS VMT	NOX NHC	1.33 13.43	0000006 0000057
020	RESIDENTIAL ANTHRACITE	000015875	TON	NOX THC	3.00 2.50	0000024 0000020
021	RESIDENTIAL BITUMINOUS	000000000	TON	NOX THC	6.00 3.00	0000000 0000000
022	RESIDENTIAL RESIDUAL OIL	000000000	THOUS GAL	NOX THC	18.00 1.00	0000000 0000000
023	RESIDENTIAL DISTILLATE	000023180	THOUS GAL	NOX THC	18.00 1.00	0000009 0000012
024	RESIDENTIAL NATURAL GAS	000008933	MIL CU FT	NOX THC	80.00 8.00	0000357 0000036
025	RESIDENTIAL LPG	000004041	THOUS GAL	NOX THC	7.50 0.75	0000015 0000002
026	RESIDENTIAL WOOD	000004184	TON	NOX NHC	1.00 5.00	0000002 0000010
027	COMM/INST ANTHRACITE	000000000	TON	NOX THC	10.00 0.00	0000000 0000000
028	COMM/INST BITUMINOUS	000000000	TON	NOX THC	6.00 3.00	0000000 0000000
029	COMM/INST RESIDUAL OIL	000005221	THOUS GAL	NOX THC	60.00 1.00	0000157 0000003

TABLE B-1 (continued)

GA / TECHNOLOGY DIVISION
AREA SOURCE MASTER FILE SUMMARY
FOR 0910

COUNTY: 0700

CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RATE	UNITS	POLLUTANT I.D.	EMISSION FACTOR	EMISSIONS ESTIMATE
030	COMP/INST DISTILLATE	00000000	THOUS GAL	NOX THC	22.00 1.00	000000 000000
031	COMP/INST NATURAL GAS	000005504	MIL CU FT	NOX THC	129.04 8.60	0000330 0000022
032	COMP/INST LPG	000000000	THOUS GAL	NOX THC	11.00 0.75	0000000 0000000
033	COMP/INST WOOD/OTHER	000000000	TON	NOX THC	1.00 5.60	0000000 0000000
034	INDUSTRIAL ANTHRACITE	000000000	TON	NOX THC	18.00 0.60	0000000 0000000
035	INDUSTRIAL BITUMINOUS	000006621	TON	NOX THC	15.00 1.90	0000425 0000428
036	INDUSTRIAL RESIDUAL OIL	000002062	THOUS GAL	NOX THC	60.00 1.60	0000062 0000001
037	INDUSTRIAL DISTILLATE OIL	000051408	THOUS GAL	NOX THC	22.00 1.90	0000565 0000226
038	INDUSTRIAL NATURAL GAS	000005141	MIL CU FT	NOX THC	175.06 2.20	0000450 0000068
039	INDUSTRIAL LPG	000005350	THOUS GAL	NOX THC	11.05 0.70	0000031 0000001
040	INDUSTRIAL WOOD/OTHER	000000000	TON	NOX THC	1.00 5.60	0000000 0000000
041	MILITARY AIRCRAFT	000000000	LND/TAKE OFF	NOX THC	9.16 27.10	0000000 0000000
042	CIVIL AIRCRAFT	000076285	LND/TAKE OFF	NOX THC	0.52 0.41	0000001 0000016

TABLE B-1 (continued)

COUNTY: 0700									
SCA / TECHNOLOGY DIVISION									
APR SOURCE MASTER FILE SUMMARY									
FOR CHD									
CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RATE	UNITS	POLLUTANT I.D.	EMISSION FACTOR	EMISSIONS ESTIMATE			
043	COMMERCIAL AIRCRAFT	00000000	L/0/TAKE OFF	NOX THC	26.93 30.66	000000 000000			
044	RAILROAD LOCOMOTIVES	000004562	THOUS GAL	NOX THC	370.00 94.00	000044 0000214			
045	VESSELS - GASOLINE	000000499	THOUS GAL	NOX THC	39.05 635.47	000010 0000206			
046	VESSELS - DISTILLATE OIL	000000000	THOUS GAL	NOX THC	270.00 50.00	000000 0000000			
047	VESSELS - RESIDUAL OIL	000000000	THOUS GAL	NOX THC	63.60 1.72	000000 0000000			
048	OFF-HIGHWAY VEHICLES-GAS	000001125	THOUS GAL	NOX THC	69.33 336.00	000039 0000189			
049	OFF-HIGHWAY VEH - DIESEL	000003191	THOUS GAL	NOX THC	429.56 38.23	000086 0000361			
050	ON-SITE INCINERATION	000043367	TON	NOX THC	0.54 35.02	000019 0000707			
051	OPEN BURNING	000122420	TON	NOX THC	5.53 20.02	0000334 0001777			
052	STRUCTURAL FIRES	000000406	FIRES	NOX THC	17.00 107.00	000003 0000022			
053	FIELD/SLASH BURNING	000000000	TON	NOX THC	4.00 23.00	000000 0000000			
054	FOREST FIRES	000000023	ACRE	NOX THC	43.21 261.02	000000 0000003			
999	COUNTY TOTALS			THC NHC NOX		0006744 0010457 0020874			

TABLE B-1 (continued)

SC / TECHNOLOGY DIVISION
AREA SOURCE MASTER FILE SUMMARY
FOR CHIO

COUNTY: 0720

CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RAT.	UNITS	POLLUTANT I.D.	EMISSION FACTOR	EMISSIONS ESTIMATE
001	STAGE I GASOLINE EVAP	000051582	THOUS GAL	THC	8.15	0000215
002	STAGE II GASOLINE EVAP	000051017	THOUS GAL	THC	9.70	0000247
003	STORAGE TANK BREATHING	000051582	THOUS GAL	THC	1.00	0000026
004	GASOLINE LOADING/UNLOADING	000051582	THOUS GAL	THC	6.07	0000177
005	SM INDUSTRY DEGREASING	000084614	POPULATION	NHC	7.59	0000321
006	DRY CLEANING	000084614	POPULATION	NHC	1.50	0000063
007	PAINT SURFACE COATING	000084614	POPULATION	NHC	4.60	0000195
008	AUTO BODY REFINISHING	000084614	POPULATION	NHC	1.90	0000080
009	SM IND SURFACE COATING	000030700	TON	THC	1,175.00	0000411
010	GRAPHIC ARTS	000084614	POPULATION	NHC	0.80	0000034
011	COMP/CONS SOLVENT USE	000084614	POPULATION	NHC	6.20	0000267
012	CUTBACK ASPHALT	000031454	TON	NHC	400.00	0000291
013	PLASTICS	000060610	ACRE	NHC	3.50	0000106
014	ON-HIGHWAY LDV	000060685	THOUS VMT	NOX PNC	7.68 7.57	0001922 0001195
015	ON-HIGHWAY LDT1	000033015	THOUS VMT	NOX PNC	8.24 8.57	0000132 0000137
016	ON-HIGHWAY LDT2	000033015	THOUS VMT	NOX PNC	9.46 9.61	0000152 0000154

TABLE B-1 (continued)

GCA / TECHNOLOGY DIVISION
APLA SOURCE MASTER FILE SUMMARY
FOR OHIO

COUNTRY: 0720

CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RATE	UNITS	POLLUTANT I.D.	EMISSION FACTOR	EMISSIONS ESTIMATE
017	ON-HIGHWAY FUG	000017471	THOUS VMT	NOX NHC	26.27 20.06	0000230 0000175
018	ON-HIGHWAY HDD	000046621	THOUS VMT	NOX NHC	58.89 5.28	0001373 0000123
019	ON-HIGHWAY MC	000003159	THOUS VMT	NOX NHC	1.33 13.43	0000002 0000021
020	RESIDENTIAL ANTHRACITE	000017795	TON	NOX THC	3.30 2.50	0000027 0000022
021	RESIDENTIAL BITUMINOUS	000000000	TON	NOX THC	6.00 3.00	0000000 0000000
022	RESIDENTIAL RESIDUAL OIL	000000000	THOUS GAL	NOX THC	18.00 1.00	0000000 0000000
023	RESIDENTIAL DISTILLATE	000000570	THOUS GAL	NOX THC	18.00 1.00	0000050 0000003
024	RESIDENTIAL NATURAL GAS	0000033187	MIL CU FT	NOX THC	80.00 8.00	0000127 0000013
025	RESIDENTIAL LPG	0000001598	THOUS GAL	NOX THC	7.50 0.75	0000006 0000001
026	RESIDENTIAL WOOD	000001345	TON	NOX NHC	1.00 5.00	0000001 0000003
027	COMM/INST ANTHRACITE	000000000	TON	NOX THC	10.00 0.00	0000000 0000000
028	COMM/INST BITUMINOUS	000000000	TON	NOX THC	6.00 3.00	0000000 0000000
029	COMM/INST RESIDUAL OIL	0000001740	THOUS GAL	NOX THC	60.00 1.00	0000052 0000001

TABLE B-1 (continued)

CC / TECHNOLOGY DIVISION
AREA SOURCE MASTER FILE SUMMARY
FIR UNIT

COUNTY:6720

CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RATE	UNITS	POLLUTANT FAC	EMISSION ESTIMATE
030	COMM/INST DISTILLATE	000000000	THOUS GAL	NOX THC	0000000 0000000
031	COMM/INST NATURAL GAS	000001755	MIL CU FT	NOX THC	120.00 0000105 8.00 0000007
032	COMM/INST LPG	000000000	THOUS GAL	NOX THC	11.00 0000000 0.75 0000000
033	COMM/INST WOOD/OTHER	000000000	TON	NOX THC	1.00 0000100 5.00 0000000
034	INDUSTRIAL ANTHRAcene	000000000	TON	NOX THC	16.00 0000000 0.00 0000000
035	INDUSTRIAL BITUMINOUS	000184282	TON	NOX THC	15.00 0001362 1.00 0000092
036	INDUSTRIAL RESIDUAL OIL	000000874	THOUS GAL	NOX THC	60.00 0000026 1.00 0000000
037	INDUSTRIAL DISTILLATE OIL	000012219	THOUS GAL	NOX THC	22.00 0000134 1.00 0000006
038	INDUSTRIAL NATURAL GAS	000000005	MIL CU FT	NOX THC	175.00 0000175 3.00 0000003
039	INDUSTRIAL LPG	000001149	THOUS GAL	NOX THC	11.65 0000007 0.00 0000000
040	INDUSTRIAL WOOD/OTHER	000000000	TON	NOX THC	1.00 0000000 5.00 0000000
041	MILITARY AIRCRAFT	000000000	LNO/TAKE OFF	NOX THC	9.16 0000000 27.10 0000000
042	CIVIL AIRCRAFT	000024455	LNO/TAKE OFF	NOX THC	0.02 0000000 0.41 0000005

TABLE B-1 (continued)

GCA / TECHNOLOGY DIVISION
AREA SOURCE MASTER FILE SUMMARY
FOR OHIO

COUNTY: 0720

CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RATE	UNITS	POLLUTANT I.D.	EMISSION FACTOR	EMISSIONS ESTIMATE
143	COMMERCIAL AIRCRAFT	00000000	LND/TAKE OFF	NOX THC	26.93 30.66	0000000 0000000
044	RAILROAD LOCOMOTIVES	000003004	THOUS GAL	NOX THC	370.20 94.00	0000556 0000141
045	VESSELS - GASOLINE	000000261	THOUS GAL	NOX THC	39.05 835.47	0000005 0000109
046	VESSELS - DISTILLATE OIL	000000000	THOUS GAL	NOX THC	270.00 50.00	0000000 0000000
047	VESSELS - RESIDUAL OIL	000000000	THOUS GAL	NOX THC	63.60 1.72	0000000 0000000
048	OFF-HIGHWAY VEHICLES-GAS	000000578	THOUS GAL	NOX THC	93.43 276.62	0000027 0000080
049	OFF-HIGHWAY VEH - DIESEL	000001405	THOUS GAL	NOX THC	397.21 44.44	0000295 0000033
050	ON-SITE INCINERATION	000011684	TON	NOX THC	2.23 40.00	0000013 0000034
051	OPEN BURNING	000041581	TON	NOX THC	5.53 25.02	0000115 0000003
052	STRUCTURAL FIRES	000000154	FIRES	NOX THC	17.00 107.00	0000001 0000008
053	FILL/SLASH BURNING	000000000	TON	NOX THC	4.00 23.00	0000000 0000000
054	FOREST FIRES	000000248	ACRE	NOX THC	43.21 261.02	0000005 0000032
999	COUNTY TOTALS			THC NHC NOX		0002459 0003465 0006020

TABLE B-1 (continued)

CO. / TECHNOLOGY DIVISION
AREA SOURCE MASTER FILE SUMMARY
FOR JMG

COUNTY:7130

CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RATE	UNITS	POLLUTANT I.D.	EMISSION FACTOR	EMISSIONS ESTIMATE
001	STAGE I GASOLINE EVAP	00003001P	THOUS GAL	THC	8.35	0000150
002	STAGE II GASOLINE EVAP	00003562P	THOUS GAL	THC	9.70	0000173
003	STORAGE TANK DEGATING	00003001B	THOUS GAL	THC	1.00	0000018
004	GASOLINE LOADING/TRANSIT	000000000	THOUS GAL	THC	6.87	0000000
005	SM INC/COMM DEGREASING	000064266	POPULATION	NHC	7.55	0000244
006	DRY CLEANING	000064266	POPULATION	NHC	1.50	0000048
007	DRCH SURFACE COATING	000064266	POPULATION	NHC	4.60	0000148
008	AUT BODY REFINISHING	000064266	POPULATION	NHC	1.90	0000061
009	SM I/D SURFACE COATING	00000053P	TON	THC	1,175.00	0000316
010	GRAPHIC ARTS	000064266	POPULATION	NHC	0.80	0000026
011	COMM/CONS SOLVENT USE	000064266	POPULATION	NHC	6.30	0000202
012	CUTBACK ASPHALT	000001105	TON	NHC	400.00	0000221
013	PESTICIDES	000030050	ACRE	NHC	3.50	0000063
014	ON-HIGHWAY LDV	000340997	THOUS VMT	NOX NHC	7.68 7.57	0001132 0001314
015	ON-HIGHWAY LD11	000022192	THOUS VMT	NOX NHC	8.24 8.57	0000091 0000095
016	ON-HIGHWAY LD12	000022192	THOUS VMT	NOX NHC	9.48 9.61	0000105 0000107

TABLE B-1 (continued)

GA / TECHNOLOGY DIVISION
APLA SOURCE MASTER FILE SUMMARY
FOR OHIO

COUNTY:7100

CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS FACILITY	UNITS	POLLUTANT I.D.	EMISSION FACTOR	EMISSIONS ESTIMATE
017	ON-HIGHWAY FOG	000012116	THOUS VMT	NOX NHC	26.27 20.06	0000159 0000122
018	ON-HIGHWAY FOG	000032317	THOUS VMT	NOX NHC	58.89 5.28	0003952 0000085
019	ON-HIGHWAY FOG	000002190	THOUS VMT	NOX NHC	1.33 13.43	0000001 0000015
020	RESIDENTIAL ANTHRACITE	000004749	TON	NOX THC	3.00 2.50	0000007 0000006
021	RESIDENTIAL BITUMINOUS	000000000	TON	NOX THC	6.00 3.00	0000000 0000000
022	RESIDENTIAL RESIDUAL OIL	000000000	THOUS GAL	NOX THC	18.00 1.00	0000000 0000000
023	RESIDENTIAL DISTILLATE	000002223	THOUS GAL	NOX THC	18.00 1.00	0000020 0000001
024	RESIDENTIAL NATURAL GAS	000002459	MIL CU FT	NOX THC	80.00 8.00	0000098 0000010
025	RESIDENTIAL LPS	000001427	THOUS GAL	NOX THC	7.50 0.75	0000005 0000001
026	RESIDENTIAL WOOD	000002427	TON	NOX NHC	1.00 5.00	0000001 0000005
027	COMM/INST ANTHRACITE	000000000	TON	NOX THC	10.00 0.00	0000000 0000000
028	COMM/INST BITUMINOUS	000000000	TON	NOX THC	6.00 3.00	0000000 0000000
029	COMM/INST RESIDUAL OIL	000001280	THOUS GAL	NOX THC	60.00 1.00	0000039 0000001

TABLE B-1 (continued)

OC - / TECHNOLOGY DIVISION
AREA SOURCE MASTER FILE SUMMARY
FOR OHIO

COUNTY:7100

CATEGORY NUMBER 030	CATEGORY DESCRIPTION COMB/INST DISTILLATE	PROCESS RATE 00000000 THOUS GAL	UNITS THOUS GAL	POLLUTANT I.D.	EMISSION FACTOR	EMISSIONS ESTIMATE
031	COMB/INST NATURAL GAS	000001349	MIL CU FT	NOX THC	22.00 1.00	000000 000000
032	COMB/INST LPG	000000000	THOUS GAL	NOX THC	120.00 8.00	0000081 0000005
033	COMB/INST WOOD/OTHER	000000000	TON	NOX THC	11.00 3.75	0000000 0000000
034	INDUSTRIAL ENTERPRISE	000000000	TON	NOX THC	1.00 5.00	0000000 0000000
035	INDUSTRIAL BITUMINOUS	000131013	TON	NOX THC	18.00 0.00	0000000 0000000
036	INDUSTRIAL RESIDUAL OIL	000001862	THOUS GAL	NOX THC	15.00 1.00	0000983 0000066
037	INDUSTRIAL DISTILLATE OIL	000005749	THOUS GAL	NOX THC	60.00 1.00	0000056 0000001
038	INDUSTRIAL NATURAL GAS	000001304	MIL CU FT	NOX THC	22.00 1.00	0000063 0000003
039	INDUSTRIAL LPG	000000814	THOUS GAL	NOX THC	175.00 3.00	0000114 0000002
040	INDUSTRIAL WOOD/OTHER	000000000	TON	NOX THC	11.00 0.30	0000005 0000000
041	MILITARY AIRCRAFT	000000000	LND/TAKE OFF	NOX THC	1.00 5.00	0000000 0000000
042	CIVIL AIRCRAFT	000012045	LND/TAKE OFF	NOX THC	9.16 27.10	0000000 0000000
				NOX THC	0.02 0.41	0000000 0000002

TABLE B-1 (continued)

GCA / TECHNOLOGY DIVISION
AREA SOURCE MASTER FILE SUMMARY
FOR OHIO

COUNTY: 7100

CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RATE	UNITS	POLLUTANT I.D.	EMISSION FACTOR	EMISSIONS ESTIMATE
043	COMMERCIAL AIRCRAFT	00000000	LAD/TAKE OFF	NOX	26.53	000000
				THC	30.66	000000
044	RAILROAD LOCOMOTIVES	000001521	THOUS GAL	NOX	370.10	0000281
				THC	94.00	0000071
045	VESSELS - GASOLINE	000000142	THOUS GAL	NOX	39.05	0000003
				THC	435.47	0000059
046	VESSELS - DISTILLATE OIL	000000000	THOUS GAL	NOX	270.00	0000000
				THC	50.00	0000000
047	VESSELS - RESIDUAL OIL	000000000	THOUS GAL	NOX	63.60	0000000
				THC	1.72	0000000
048	OFF-HIGHWAY VEHICLES-GAS	000000494	THOUS GAL	NOX	97.17	0000024
				THC	259.11	0000064
049	OFF-HIGHWAY VEH - DIESEL	000001675	THOUS GAL	NOX	405.97	0000340
				THC	41.79	0000035
050	ON-SITE INCINERATION	000006546	TON	NOX	2.34	0000010
				THC	41.42	0000177
051	OPEN BURNING	000031414	TON	NOX	5.53	0000087
				THC	29.02	0000456
052	STRUCTURAL FIRES	000000077	FIRES	NOX	17.00	0000001
				THC	107.00	0000004
053	FIELD/JLASH BURNING	000000000	TON	NOX	4.00	0000000
				THC	23.30	0000000
054	FOREST FIRES	000000276	ACRE	NOX	43.21	0000006
				THC	261.02	0000036
999	COUNTY TOTALS			THC		0001557
				NOX		0002757
				NOX		0004463

TABLE B-1 (continued)

 OCA / TECHNOLOGY DIVISION
 AREA SOURCE MASTER FILE SUMMARY
 FOR OHIO

COUNTY:7160

CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RATE	UNITS	POLLUTANT I.D.	EMISSION FACTOR	EMISSIONS ESTIMATE
001	STAGE I GASOLINE EVAP	000053281	THOUS GAL	THC	8.15	0000222
002	STAGE II GASOLINE EVAP	000052692	THOUS GAL	THC	9.70	0000256
003	STORAGE TANK ENCAPTING	000053281	THOUS GAL	THC	1.50	0000027
004	GASOLINE LOADING/TRANSIT	000053281	THOUS GAL	THC	6.87	0000183
005	SH TIR/COOK DEGREASING	000097408	POPULATION	NHC	7.59	0000370
006	DAY CLEANING	000097408	POPULATION	NHC	1.50	0000073
007	ARCH SURFACE COATING	000097408	POPULATION	NHC	4.60	0000224
008	AUTO BODY FINISHING	000097408	POPULATION	NHC	1.50	0000093
009	SP FPD SURFACE COATING	000000607	TON	THC	1,175.00	0000474
010	GRAPHIC ARTS	000097408	POPULATION	NHC	0.80	0000039
011	COOK/COOK SOLVENT USE	000097408	POPULATION	NHC	6.10	0000307
012	CUTBACK ASPHALT	000001674	TON	NHC	400.00	0000335
013	PESTICIDES	000164124	ACRF	NHC	3.50	0000287
014	ON-HIGHWAY LUV	000517651	THOUS VMT	NOX NHC	7.58 7.57	0001988 0001960
015	ON-HIGHWAY LOTI	000033107	THOUS VMT	NOX NHC	8.24 8.57	0000136 0000142
016	ON-HIGHWAY LOT2	000033107	THOUS VMT	NOX NHC	9.48 9.61	0000157 0000159

TABLE B-1 (continued)

GCA / TECHNOLOGY DIVISION
AREA SOURCE MASTER FILE SUMMARY
FOR QP10

COUNTY:7160

CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RATE	UNITS	POLLUTANT EMISSION I.D.	EMISSIONS ESTIMATE
017	ON-HIGHWAY HDG	000018066	THOUS WMT	NOX NHC	26.27 0000237 20.96 0000181
018	ON-HIGHWAY HDD	000044210	THOUS WMT	NOX NHC	58.89 0001420 5.28 0000127
019	ON-HIGHWAY MC	000003267	THOUS WMT	NOX NHC	1.33 0000002 13.43 0000022
020	RESIDENTIAL ANTHRACITE	000017414	TON	NOX THC	3.90 0000714 2.50 0000313
021	RESIDENTIAL BITUMINOUS	000000000	TON	NOX THC	6.00 0000000 3.00 0000000
022	RESIDENTIAL RESIDUAL OIL	000000000	THOUS GAL	NOX THC	18.00 0000000 1.00 0000000
023	RESIDENTIAL DISTILLATE	000011567	THOUS GAL	NOX THC	18.00 0000104 1.00 0000006
024	RESIDENTIAL NATURAL GAS	000003666	MIL CU FT	NOX THC	89.00 0000147 8.00 0000015
025	RESIDENTIAL LPG	000001875	THOUS GAL	NOX THC	7.50 0000007 0.75 0000001
026	RESIDENTIAL WOOD	000014554	TON	NOX NHC	1.00 0000007 5.00 0000035
027	COMM/INST ANTHRACITE	000000000	TON	NOX THC	10.00 0000000 0.00 0000000
028	COMM/INST BITUMINOUS	000000000	TON	NOX THC	6.00 0000000 3.00 0000000
029	COMM/INST RESIDUAL OIL	000001664	THOUS GAL	NOX THC	60.00 0000050 1.00 0000001

TABLE B-1 (continued)

SC / TECHNOLOGY DIVISION
AREA SOURCE MASTER FILE SUMMARY
FOR OHIO

COUNTY: 1160

CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RATE	UNITS	POLLUTANT I.C.	EMISSION FACTOR	EMISSIONS ESTIMATE
030	COMM/INST DISTILLATE	000000000	THOUS GAL	NOX THC	22.00 1.00	0000000 3000000
031	COMM/INST NATURAL GAS	000001754	MIL CU FT	NOX THC	120.00 8.00	0000105 0000007
032	COMM/INST LPG	000000000	THOUS GAL	NOX THC	11.00 0.75	0000000 0000000
033	COMM/INST WOOD/OTHER	000000000	TON	NOX THC	1.00 5.00	0000000 0000000
034	INDUSTRIAL ANTHRACITE	000000000	TON	NOX THC	12.00 0.00	0000000 0000000
035	INDUSTRIAL BITUMINOUS	000262025	TON	NOX THC	15.00 1.00	0001965 0000131
036	INDUSTRIAL RESIDUAL OIL	000003743	THOUS GAL	NOX THC	60.00 1.00	0000112 0000002
037	INDUSTRIAL DISTILLATE OIL	000017049	THOUS GAL	NOX THC	22.00 1.00	0000168 0000009
038	INDUSTRIAL NATURAL GAS	000002813	MIL CU FT	NOX THC	175.00 3.00	0000246 0000004
039	INDUSTRIAL LPG	000001637	THOUS GAL	NOX THC	11.00 0.30	0000010 0000000
040	INDUSTRIAL WOOD/OTHER	000000000	TON	NOX THC	1.00 5.00	0000000 0000000
041	MILITARY AIRCRAFT	000000000	LND/TAKE OFF	NOX THC	9.16 27.10	0000000 0000000
042	CIVIL AIRCRAFT	000034310	LND/TAKE OFF	NOX THC	0.02 0.41	0000000 0000007

TABLE B-1 (continued)

602 / TECHNOLOGY DIVISION
AREA SOURCE WASTE FILE SUMMARY
FW CHD

COUNTY:7169

CATEGORICAL NUMBER	CATEGORY DESCRIPTION	PROCESS RAT.	UNITS	POLLUTANT I.D.	EMISSION FACTOR	EMISSIONS ESTIMATE
043	COMMERCIAL AIRCRAFT	00000000	LHD/TAKE OFF	NOX THC	26.93 30.66	000000 000000
044	RAILROAD LOCOMOTIVES	000003337	THOUS GAL	NOX THC	370.00 94.00	000017 0000157
045	VESSELS - GASOLINE	000000150	THOUS GAL	NOX THC	33.05 835.47	0000003 0000063
046	VESSELS - DISTILLATE OIL	000000000	THOUS GAL	NOX THC	270.00 50.00	0000000 0000000
047	VESSELS - RESIDUAL OIL	000000000	THOUS GAL	NOX THC	63.60 1.72	0000000 0000000
048	OFF-HIGHWAY VEHICLES-GAS	000000026	THOUS GAL	NOX THC	101.45 251.21	0000042 0000104
049	OFF-HIGHWAY VEH - DIESEL	000002164	THOUS GAL	NOX THC	397.41 44.36	0000430 0000048
050	ON-SITE INCINERATION	000014482	TON	NOX THC	2.35 38.25	0000017 0000277
051	OFF-SITE BURNING	000044347	TON	NOX THC	5.53 29.02	0000134 0000702
052	STRUCTURAL FIRES	000000164	FIRES	NOX THC	17.00 107.00	0000001 0000009
053	FILL/SLUSH BURNING	000000000	TON	NOX THC	4.00 23.00	0000000 0000000
054	FOREST FIRES	000000021	ACRE	NOX THC	43.21 261.02	0000000 0000003
099	COUNTY TOTALS			THC THC NOX		5002721 5004355 0000141

TECHNICAL REPORT DATA
(Please read instructions on the reverse before completing)

1. REPORT NO. EPA-450/4-82-013j		2.		3. RECIPIENT'S ACCESSION NO.	
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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 the Ohio portion of the NECRMP study area.					
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