

Air

EPA

**NORTHEAST CORRIDOR
REGIONAL MODELING
PROJECT
ANNUAL EMISSION
INVENTORY COMPILATION
AND
FORMATTING
Volume XIII:
Vermont Emission Inventory**

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NORTHEAST CORRIDOR REGIONAL MODELING PROJECT ANNUAL EMISSION INVENTORY COMPILATION AND FORMATTING

Volume XIII: Vermont Emission Inventory

by
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Bedford, MA

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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 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 84 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 State of Vermont. This was achieved through the cooperation of the Vermont Agency of Environmental Protection (VAEP) and U.S. EPA/Region I. The intent was to avoid direct contact between GCA and individual facilities in Vermont. Rather, GCA worked directly with the VAEP who in turn contacted sources when necessary. GCA reviewed the State and EPA provided data and submitted a list of potential errors back to the VAEP, 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 also compiled for point sources. Because of this emphasis, quality assurance checks mainly focused on sources of VOC and NO_x.

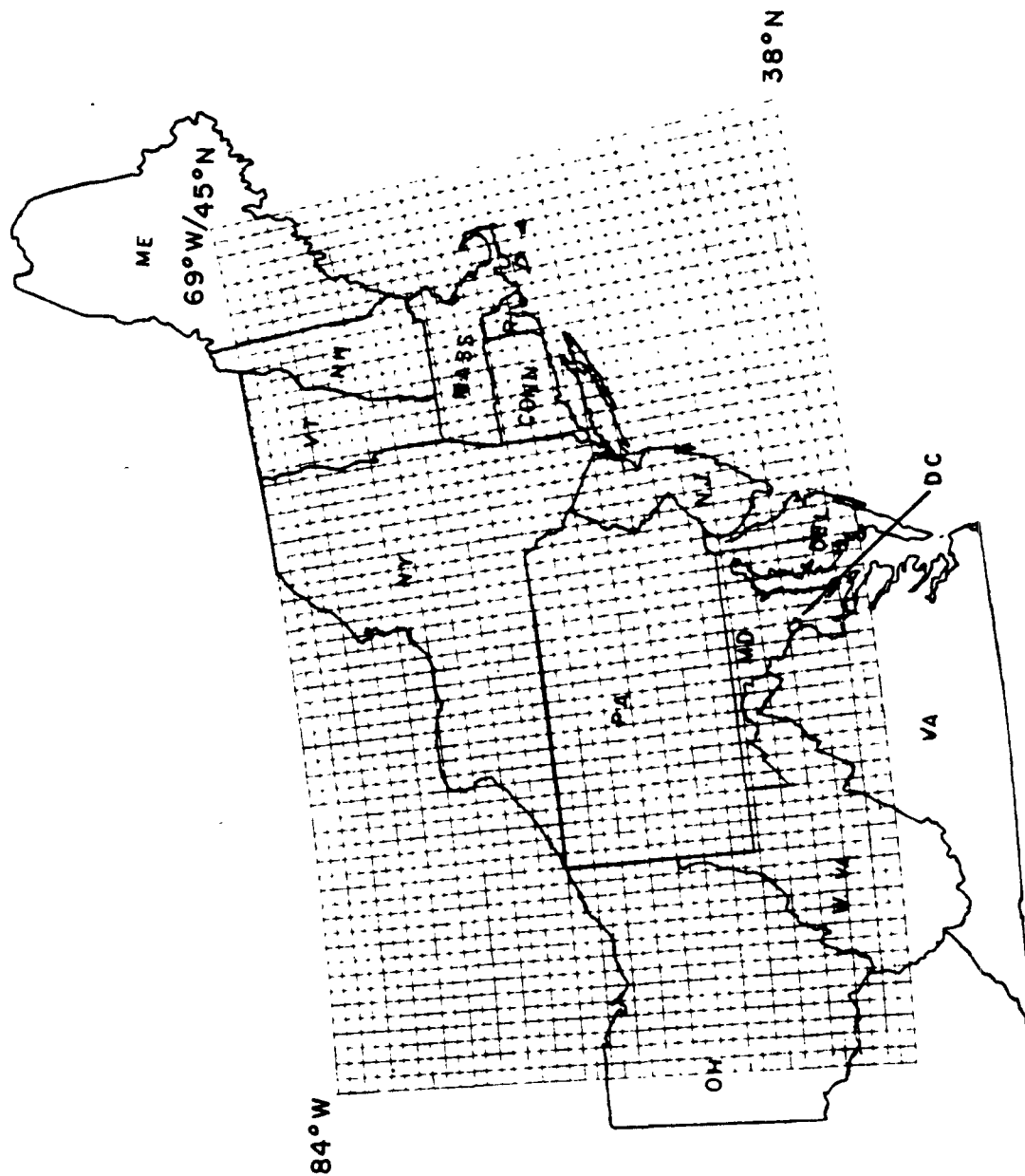


Figure 1. Boundaries of regional model grid system.

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

REPORT ORGANIZATION

The results of the NECRMP annual emission inventory are reported in an 18 volume set of documents. Volume I in this series describes the background of the program and discusses the methods used to compile and verify the annual emission inventory. Volumes II through XVI present a more detailed discussion of each state's inventory effort. Volume XVII describes the spatial, temporal, and species allocation factors developed to allow for the creation of modeler's tapes from the completed inventory. Volume XVIII presents a summary of the point and area source inventories for the entire study area. Also included in Volume XVIII is a detailed analysis of the overall quality of the data base and an assessment of the data's suitability for use in 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 Vermont, consists of five sections. Section 2 describes the project history and includes a summary of the major events that relate to the Vermont inventory development. Section 3 discusses in greater detail the point source inventory task while the area source inventory development is covered in Section 4. All references cited in the volume are identified in Section 5. Appendices A and B present county emissions for point and area sources, respectively.

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 Officer provided agency contacts in the Vermont Agency of Environmental Protection (VAEP) and the Environmental Protection Agency's Region I Office (EPA/Region I). The VAEP 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.

Since Vermont did not maintain a current area source inventory of the quality required for the NECRMP, it was necessary to develop this inventory. The Agency contact played a key role in this 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 Vermont AEP contact was Mr. Harold Garabedian, (802) 828-3395.

SUMMARY OF EVENTS

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

Point Sources

Work on the Vermont point source inventory occurred between May and July, 1981; the completed data were provided to EPA in September 1981. Major milestones are identified below.

- NEDS data (1979) procured from EPA/NADB 5/12/81
- QA audit completed, lists of missing and/or questionable data sent to Project Officer, Agency contact 6/10/81
- Errors resolved during state agency visit 6/17/81
- Corrections reflected in completed EIS/PS master file 7/30/81

- 1979 data adjusted to 1980 7/31/81
- Completed inventories (1979, 1980) sent to EPA 9/21/81

Area Sources

The Vermont area source inventory was developed by GCA during the period between January and June 1981. While most of the effort was concentrated between January and March, the area source inventory had to be "balanced" with the point source data, which were not available until May. Major events are identified below:

- Begin procurement of input data 1/5/81
- Emissions calculated by category 2/27/81
- Balance with point source data (i.e., adjust area source totals to avoid double accounting of overlapping point source totals) 6/1/81
- Provide completed inventory to State Agency for concurrence 6/17/81
- Completed master file sent to EPA 2/8/82

SECTION 3

POINT SOURCE INVENTORY

DATA PROCUREMENT

A computer tape containing the National Emission Data System (NEDS) point source inventory for Vermont was procured from the Environmental Protection Agency, National Air Data Branch (EPA/NADB) on May 12, 1981. The NEDS tape contained 1979 data on 331 individual emission points at 162 facilities. In an earlier step³, data on certain facilities were updated from 1977 to 1979. The criteria for including individual facilities in that update are presented in Table 2. As a result of this effort, the data were in relatively good shape as received, particularly with respect to the major VOC and NO_x emitters. Since Vermont is in attainment of the National Ambient Air Quality Standard for ozone (O₃), the State was not required to develop an emission inventory for State Implementation Plan (SIP) purposes. This update, then, was undertaken specifically for NECRMP.

TABLE 2. SUMMARY OF SOURCES INCLUDED IN PREVIOUS UPDATE
EFFORT BY POLLUTANT AND SIZE³

Pollutant(s) emitted	Minimum source size included in update (tons/yr)
VOC and NO _x ^a	100
VOC ^a only	500
NO _x only	750
RACT Sources	50
CO	500
SO ₂ and PART.	1000
Data Gaps and Inconsistencies	All

^aMay include RACT sources.

DATA REVIEW AND UPDATE

The 1979 NEDS file was converted into EIS/PS format using the GCA-modified version of the EIS/PS Conversion Editor¹ described previously in Volume I.⁴ The data were then subjected to the quality assurance (QA) measures presented in Volume I.⁴

One QA measure involved cross-checking the VOC sources listed in the RACT Directory⁵ against those facilities included in the NEDS inventory to identify possible omissions. Table 3 lists sources identified as being listed in the RACT Directory, but not in the NEDS inventory, and the VAEP's resolution of these potential omissions.

TABLE 3. SUMMARY OF VERMONT SOURCES LISTED IN THE RACT DIRECTORY,⁵ BUT NOT IN THE VERMONT POINT SOURCE INVENTORY

RACT category	County	Facility name	Resolution
Polymer and Resin Manufacturing	Chittenden	Johnson Filaments	Insignificant source
Fabric Surface Coating	Lamoille	Pleasant Valley Printers	VAEP unaware of this source
Magnet Wire Coating	Grand Isle	Phoenix Wire	Very small (10-19 employees)
	Rutland	Caddel Coil Corp.	Very small (0-9 employees)

Similarly, two sources listed in the Organic Chemical Producers Data Base⁶ were not included in the Vermont inventory. These sources were brought to the attention of the VAEP and resolution of their possible omissions are summarized in Table 4.

TABLE 4. SUMMARY OF VERMONT SOURCES LISTED IN THE ORGANIC CHEMICAL PRODUCERS DATA BASE,⁶ BUT NOT IN THE VERMONT POINT SOURCE INVENTORY

Source	Location	Principal product	Resolution
Johnson Filaments	Williston	Nylon monofilament	See Table 3
E.B. & A.C. Whiting	Burlington	Nylon monofilament	No emissions

A manual review was undertaken of all sources emitting more than 100 tons/yr of VOC or NO_x or 500 tons/yr of any other criteria pollutant. In addition, all "error," "conditional," or "warning" messages resulting from the conversion of data from NEDS format to EIS/PS format were examined. Since an extensive update of the inventory had previously been completed,³ relatively few additional problems were detected. Problems that were encountered were often with sources that did not meet the Table 2 criteria and, thus, had not been included in the earlier update. The majority of these problems involved missing SIC codes, stack exhaust flow rates, and missing or incorrect UTM coordinates.

A list of questions and/or problems related to the Vermont inventory was forwarded to the VAEP and a visit to that Agency was made to resolve those questions on June 17, 1981. All corrections, additions, and deletions resulting from that visit were entered on NEDS coding forms in compliance with the instructions given in AEROS, Volume II.⁷

The NEDS update transactions were converted into EIS/PS update transactions using the NEDS to EIS/PS conversion editor and the EIS/PS Master File was updated using the EIS/PS Master File maintenance program. A detailed list of all changes, additions, and deletions performed is provided in Table 5.

Growth Factors

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

Growth factors were calculated based on employment data from County Business Patterns,^{8,9} using the following equation:

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

As shown in the above equation, employment change from 1978 to 1979 was assumed to approximate 1979 to 1980 change. This approach was used owing to the unavailability of 1980 employment information. Table 6 presents the county-specific growth factors used for the seven most significant SIC's, while Table 7 presents the statewide growth factors used for the remaining SIC's in Vermont.

The calculated Vermont growth factors were reviewed and found to be somewhat suspicious. As shown in Tables 6 and 7, calculated growth factors ranged from 0.610 to 1.883 for SICs from which emissions occurred. One factor was as high as 17.50, but no point source emissions were associated with that SIC in Vermont. Examination of previous years' data revealed similar fluctuations. It was determined that such fluctuations were not likely to occur in actual emissions, and the reported 1979 emissions were probably a more accurate indication of the 1980 emissions than the "adjusted" inventories were. More accurate adjustment techniques would have required significant additional resources and were not explored.

TABLE 5. UPDATES MADE TO THE VERMONT POINT SOURCE INVENTORY

Facility	NEDS Facility ID	Update action taken	Comments
<u>Addison County (0020)</u>			
Kraft Food	0002	Change UTM-Y coordinate Add ash content	
Middlebury College	0004	Add % annual thruput Add common stack data	
Polymers, Inc.	0005	Add plume height Add temperature	
Weyerhaeuser	0007	Add process description	
<u>Caledonia County (0160)</u>			
NE VT Regional Hospital	0006	Add annual operating rate Add flow rate Add source description	
St. Johnsbury Academy	0008	Change UTM-Y coordinate	
<u>Chittenden County (0180)</u>			
Vermont Morgan	0002	Add plume height Add temperature	
Beld Moran	0003	Change UTM-X coordinate	
Elias Lyman	0004	Add temperature	
Green Mountain Petroleum	0012	Add temperature	
Astroline Petroleum	0013	Change UTM-Y coordinate Add temperature	
IBM	0016	Add process description	
Cray Energy	0026	Add plume height Add temperature Add process description	

(continued)

TABLE 5 (continued)

Facility	NEDS Facility ID	Update action taken	Comments
Underhill Firing Range	0027	Add SIC Add plume height Add year of record	
Vermont Furniture Co.	0034	Change estimation method	Source closed
<u>Essex County (0200)</u>			
Ethan Allen, Inc. (Beechers Falls)	0002	Change process rate Add stack temperature, flow rate Add plume height	Point 4 Point 6
<u>Lamoille County (0280)</u>			
Pratt, Read	0004	Add flow rate Add stack height, flow, temperature	Point 1 Point 2
<u>Orange County (0360)</u>			
Ethan Allen, Inc. (Randolph)	0004	Add temperature, flow rate	
<u>Orleans County (0380)</u>			
Ethan Allen, Inc. (Orleans)	0002	Add plume height	
Indian Head Plywood	0004	Add flow rate Add SIC Delete boiler design capacity Add all estimation methods Change VOC estimation method Add year of record	Is a veneer dryer Point 2 Point 3
<u>Rutland County (0420)</u>			
Rutland Plywood	0013	Add flow rate	

(continued)

TABLE 5 (continued)

Facility	NEDS Facility ID	Update action taken	Comments
<u>Windham County (0580)</u>			
American Optical	0002	Add SIC Add flow rate Add estimation methods Add % space heat Add plume height	
<u>Windsor County (0620)</u>			
Goodyear Tire & Rubber	0007	Add SIC Add estimation methods Add % space heat Add plume height Add VOC emission estimate Add stack parameters	

TABLE 6. COUNTY-SPECIFIC GROWTH FACTORS (1979 TO 1980) FOR VERMONT POINT SOURCES

SIC	Adison (0020)	Bennington (0100)	Caledonia (0160)	Chittenden (0180)	Essex (0200)	Franklin (0240)	Lamolle (0280)	Orange (0360)	Orleans (0380)	Rutland (0420)	Washington (0500)	Windham (0580)	Windsor (0620)	Statewide default
24	1.091	1.289	1.164	0.971	0.610	1.192	0.954	1.119	0.948	1.149	0.968	1.036	1.036	1.054
25	1.000	1.096	-	-	1.000	1.000	-	1.000	1.000	-	-	0.991	-	1.047
26	-	0.982	1.000	-	1.000	1.000	-	-	-	1.000	-	1.101	-	0.974
36	-	1.081	-	1.000	-	1.000	-	-	-	1.000	1.000	-	-	1.153
38	-	-	-	0.896	-	-	-	-	-	1.000	-	1.000	-	1.231
49	-	-	1.000	-	-	-	1.000	-	-	1.000	1.000	0.886	0.991	1.186
51	-	1.646	1.000	1.000	-	1.054	-	0.981	0.777	-	1.000	1.130	1.067	1.000

Dashed line indicates insufficient data, statewide default used.

Source: GCM calculations, 1981.

TABLE 7. VERMONT STATEWIDE GROWTH FACTORS (1979 TO 1980)
FOR POINT SOURCES

2-digit SIC	Adjustment factor	Comments
07	0.695	
08	0.769	No emissions in this SIC
10	1.000	No emissions in this SIC
14	1.000	No emissions in this SIC
15	1.045	
16	1.100	
17	1.137	
20	1.067	
22	0.918	
23	0.910	
27	1.140	
28	2.171	No VOC or NO _x emissions in this SIC
30	1.007	
31	0.836	
32	1.147	
33	1.014	
34	1.054	
35	1.139	
37	1.000	
39	1.150	
41	1.207	
42	1.158	
44	1.000	No emissions in this SIC
45	1.194	
47	1.371	
48	1.027	
50	1.883	
52	1.014	
53	1.016	
54	1.030	
55	1.018	
56	1.054	
57	0.984	
58	1.131	
59	1.097	
60	1.052	
61	1.072	
62	0.978	
63	1.191	

(continued)

TABLE 7 (continued)

2-digit SIC	Adjustment factor	Comments
64	1.027	
65	1.136	
66	0.938	
67	17.500	No emissions in this SIC
70	0.956	
72	1.135	
73	1.239	
75	1.162	
76	0.804	
78	0.982	
79	1.097	
80	1.000	
81	1.077	
82	0.980	
83	0.866	
84	0.978	
86	0.939	
89	<u>1.146</u>	
Statewide default	1.065	

Source: GCA calculations, 1981.

As a result, only 1979 data are reported here, although both 1979 and 1980 data were supplied to EPA on computer tape.

RESULTS

For reporting purposes, point source emissions for 1979 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.⁴ 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.

Statewide point source emissions for 1979 are presented, by category, in Table 8. County-specific point source emissions are presented, by category, in Appendix A.

A list of "major" facilities was developed by totaling emissions at each facility using a criteria of 100 tons/yr of VOC or NO_x to define a major source. These facilities, and their reported 1979 emissions for all five criteria pollutants, are presented in Table 9.

Final Data Tape

The completed Vermont point source inventory was written onto computer tape for delivery to EPA. Included on the tape, which was forwarded on September 21, 1981, were the following files:

- Original NEDS file, as received (1979)
- Updated 1979 NEDS file (after manual updates)
- EIS/PS Master file (1979)
- EIS/PS Master file (1980)
- NEDS (1980) translated from EIS/PS 1980 file
- Growth factors
- NEDS update transactions (1979)
- NEDS (1979) translated from final 1979 EIS/PS file

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

TABLE 8. VERMONT POINT SOURCE EMISSIONS (1979) BY CATEGORY--STATEWIDE

DOA / TECHNOLOGY DIVISION
VERMONT POINT SOURCE EMISSIONS BY CATEGORY 1979

STATE OR REGION TOTALS

CATEGORY	POINT COUNT	----- TSP	PRIMARY SC2	SCC SC2	EMISSIONS NOX	(TONS/YEAR) HC	----- CO
1 OIL AND GAS PRODUCTION & PROCESSING	0	0	0	0	0	0	0
2 SYN. ORGANIC CHEM. STORAGE & TRANSFER	0	0	0	0	0	0	0
3 GASOLINE AND CRUDE OIL STORAGE	8	0	0	0	0	31	0
4 SHIP AND BARGE TRANSFER OF VOC	0	0	0	0	0	0	0
5 D-CEC AND TANKER CLEANING	0	0	0	0	0	0	0
6 FUEL GASOLINE TERMINALS	0	0	0	0	0	0	0
7 GASOLINE-BULK PLANTS	0	0	0	0	0	0	0
8 FUEL OIL BULK PLANTS	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 CHEMICAL STORAGE, FOR SALE, MKT OF VOC	59	0	0	0	0	1236	0
12 FUEL OIL MANUFACTURE	0	0	0	0	0	0	0
13 FERTILIZER MANUFACTURE	0	0	0	0	0	0	0
14 PHARMACEUTICAL MANUFACTURE	0	0	0	0	0	0	0
15 TEXTILE POLYMER RESIN MANUFACTURE	1	0	0	0	0	0	0
16 SYNTHETIC FIBER MANUFACTURE	1	0	0	0	0	15	0
17 ORGANIC CHEMICAL MANUFACTURE	0	0	0	0	0	0	0
18 INORGANIC CHEMICAL MANUFACTURE	0	0	0	0	0	0	0
19 FERTILIZER MANUFACTURE	0	0	0	0	0	0	0
20 NONMETALLIC MINERAL PRODUCTS	0	0	0	0	0	0	0
21 CERAMIC PRODUCTS MANUFACTURE	0	0	0	0	0	0	0
22 RUBBER, TIRE MANUFACTURE	0	0	0	0	0	0	0
23 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	25	4	0	0	0	0	0
26 METAL PRODUCTS	17	934	0	0	0	0	0
27 FOOD PRODUCTS	17	180	0	0	0	28	0
28 FLYING MILL PRODUCTS	17	281	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	50	125	3	0	0	0	0
32 PRIMARY & SECONDARY METALS & ELECTRICAL	11	7	0	0	0	0	0
33 FERTILIZED METAL PRODUCTS	1	0	0	0	0	0	0
34 TA-PROCESS FULL USE	28	11	47	1	1006	0	0
35 TA-PROCESS FULL USE	12	4	0	0	0	0	0
36 TA-PROCESS FULL USE	0	0	0	0	0	0	0
37 TA-PROCESS FULL USE	0	0	0	0	0	0	0
38 TA-PROCESS FULL USE	0	0	0	0	0	0	0
39 TA-PROCESS FULL USE	0	0	0	0	0	0	0
40 TA-PROCESS FULL USE	0	0	0	0	0	0	0
41 TA-PROCESS FULL USE	0	0	0	0	0	0	0
42 TA-PROCESS FULL USE	0	0	0	0	0	0	0
43 TA-PROCESS FULL USE	0	0	0	0	0	0	0
44 TA-PROCESS FULL USE	0	0	0	0	0	0	0
45 TA-PROCESS FULL USE	0	0	0	0	0	0	0
46 TA-PROCESS FULL USE	0	0	0	0	0	0	0
47 TA-PROCESS FULL USE	0	0	0	0	0	0	0
48 TA-PROCESS FULL USE	0	0	0	0	0	0	0
49 TA-PROCESS FULL USE	0	0	0	0	0	0	0
50 TA-PROCESS FULL USE	0	0	0	0	0	0	0
51 TA-PROCESS FULL USE	0	0	0	0	0	0	0
52 TA-PROCESS FULL USE	0	0	0	0	0	0	0
53 TA-PROCESS FULL USE	0	0	0	0	0	0	0
54 TA-PROCESS FULL USE	0	0	0	0	0	0	0
55 TA-PROCESS FULL USE	0	0	0	0	0	0	0
56 TA-PROCESS FULL USE	0	0	0	0	0	0	0
57 TA-PROCESS FULL USE	0	0	0	0	0	0	0
58 TA-PROCESS FULL USE	0	0	0	0	0	0	0
59 TA-PROCESS FULL USE	0	0	0	0	0	0	0
60 TA-PROCESS FULL USE	0	0	0	0	0	0	0
61 TA-PROCESS FULL USE	0	0	0	0	0	0	0
62 TA-PROCESS FULL USE	0	0	0	0	0	0	0
63 TA-PROCESS FULL USE	0	0	0	0	0	0	0
64 TA-PROCESS FULL USE	0	0	0	0	0	0	0
65 TA-PROCESS FULL USE	0	0	0	0	0	0	0
66 TA-PROCESS FULL USE	0	0	0	0	0	0	0
67 TA-PROCESS FULL USE	0	0	0	0	0	0	0
68 TA-PROCESS FULL USE	0	0	0	0	0	0	0
69 TA-PROCESS FULL USE	0	0	0	0	0	0	0
70 TA-PROCESS FULL USE	0	0	0	0	0	0	0
71 TA-PROCESS FULL USE	0	0	0	0	0	0	0
72 TA-PROCESS FULL USE	0	0	0	0	0	0	0
73 TA-PROCESS FULL USE	0	0	0	0	0	0	0
74 TA-PROCESS FULL USE	0	0	0	0	0	0	0
75 TA-PROCESS FULL USE	0	0	0	0	0	0	0
76 TA-PROCESS FULL USE	0	0	0	0	0	0	0
77 TA-PROCESS FULL USE	0	0	0	0	0	0	0
78 TA-PROCESS FULL USE	0	0	0	0	0	0	0
79 TA-PROCESS FULL USE	0	0	0	0	0	0	0
80 TA-PROCESS FULL USE	0	0	0	0	0	0	0
81 TA-PROCESS FULL USE	0	0	0	0	0	0	0
82 TA-PROCESS FULL USE	0	0	0	0	0	0	0
83 TA-PROCESS FULL USE	0	0	0	0	0	0	0
84 TA-PROCESS FULL USE	0	0	0	0	0	0	0
85 TA-PROCESS FULL USE	0	0	0	0	0	0	0
86 TA-PROCESS FULL USE	0	0	0	0	0	0	0
87 TA-PROCESS FULL USE	0	0	0	0	0	0	0
88 TA-PROCESS FULL USE	0	0	0	0	0	0	0
89 TA-PROCESS FULL USE	0	0	0	0	0	0	0
90 TA-PROCESS FULL USE	0	0	0	0	0	0	0
91 TA-PROCESS FULL USE	0	0	0	0	0	0	0
92 TA-PROCESS FULL USE	0	0	0	0	0	0	0
93 TA-PROCESS FULL USE	0	0	0	0	0	0	0
94 TA-PROCESS FULL USE	0	0	0	0	0	0	0
95 TA-PROCESS FULL USE	0	0	0	0	0	0	0
96 TA-PROCESS FULL USE	0	0	0	0	0	0	0
97 TA-PROCESS FULL USE	0	0	0	0	0	0	0
98 TA-PROCESS FULL USE	0	0	0	0	0	0	0
99 TA-PROCESS FULL USE	0	0	0	0	0	0	0
100 TA-PROCESS FULL USE	0	0	0	0	0	0	0

TABLE 8 (continued)

SCA / TECHNOLOGY DIVISION
VERMONT POINT SOURCE EMISSIONS BY CATEGORY 1979

STATE CP REGION TOTALS

CATEGORY	POINT COUNT	----- TSP	PRIMARY SC2	SCC LOX	EMISSIONS (TONS/YEAR)	----- CO
51 DURESSING	8	0	0	0	235	0
52 DRY CLEANING	1	0	0	0	5	0
53 GRAPHIC ARTS	0	0	0	0	0	0
54 FILMS - SOLVENT USED	0	0	0	0	0	0
55 RECHARGEABLE BATTERIES	0	0	0	0	0	0
56 AUTO REPAIRING	0	0	0	0	0	0
57 CHEM-CLIN-INDUSTRIAL SURFACE COATING	0	0	0	0	0	0
58 CHEM. CLIN. COATERS-ELEG. REPAIRATION	3	74	40	514	80	95
59 CHEM. CLIN. COATERS-INDUSTRIAL	115	1234	1707	670	74	153
60 CHEM. CLIN. COATERS-COMM/INST	84	14	579	108	1	11
61 CHEM. CLIN. COATERS-INDUST.	0	0	0	0	0	0
62 CHEM. CLIN. COATERS-INDUST.	0	0	0	0	0	0
63 CHEM. CLIN. COATERS-INDUST.	0	0	0	0	0	0
64 CHEM. CLIN. COATERS-INDUST.	0	0	0	0	0	0
65 CHEM. CLIN. COATERS-INDUST.	0	0	0	0	0	0
66 CHEM. CLIN. COATERS-INDUST.	0	0	0	0	0	0
67 CHEM. CLIN. COATERS-INDUST.	0	0	0	0	0	0
68 CHEM. CLIN. COATERS-INDUST.	0	0	0	0	0	0
69 CHEM. CLIN. COATERS-INDUST.	0	0	0	0	0	0
70 CHEM. CLIN. COATERS-INDUST.	0	0	0	0	0	0
71 CHEM. CLIN. COATERS-INDUST.	0	0	0	0	0	0
72 CHEM. CLIN. COATERS-INDUST.	0	0	0	0	0	0
73 CHEM. CLIN. COATERS-INDUST.	0	0	0	0	0	0
74 CHEM. CLIN. COATERS-INDUST.	0	0	0	0	0	0
75 CHEM. CLIN. COATERS-INDUST.	0	0	0	0	0	0
76 CHEM. CLIN. COATERS-INDUST.	0	0	0	0	0	0
77 CHEM. CLIN. COATERS-INDUST.	0	0	0	0	0	0
78 CHEM. CLIN. COATERS-INDUST.	0	0	0	0	0	0
79 CHEM. CLIN. COATERS-INDUST.	0	0	0	0	0	0
STATE OR REGION TOTALS		2987	2508	1595	4521	303

TABLE 9. VERMONT SOURCES (1979) EMITTING MORE THAN 100 TONS/YEAR OF VOC OR NO_x

NECRM 1979 NEWS STATE INVENTORY LARGE FACILITIES SELECTED FOR VERMONT									
STATE	COUNTY	ADDR	PLANT	FACILITY	TSP (****)	SO ₂ (****)	NO _x (100)	HC (100)	CO (****)
47	20	159	0006	SIM. CHOS. PRODN. PROD. PATIGN. RD. VERGENNES	0	19	5	478	0
47	20	159	0007	MEYERHAUSER CO. PARK. CUCK. 05748	0	0	0	398	0
47	100	221	0001	BEN-MONT PAPER, BEN-MONT AVE. 05201	2	4	6	152	0
47	100	159	0003	FIELD MGRAN. PLANT, 120 LAKE ST. EUNCLINGTON	74	66	621	108	87
47	100	159	0013	ASTROLING PETROLFUM, LAKE ST. 05401	0	0	0	110	0
47	100	159	0016	IPM. COX. J. ESSEX JCT. 05452	8	0	44	171	4
47	100	159	0021	MOBIL OIL CORP. FLYING AVE. 05401	0	0	0	331	0
47	100	105	0006	GRAY ENERGY, LN. ST. FCB. 6. 05410	0	0	0	464	0
47	100	159	0034	VT FUR. CO. ALLETTIS PAY. V. 05404	0	0	0	117	0
47	200	221	0002	ETHAN ALLEN INC. BECCERS FALLS DIV. 05902	237	87	60	233	14
47	240	159	0019	SAXON INDUST. INC. FORDA. CC. 05403	0	0	2	600	0
47	300	221	0004	ETHAN ALLEN INC. RANDOLPH CIV. 05404	150	6	42	166	8
47	300	221	0002	ETHAN ALLEN INC. ORLEANS DIV. 05404	2	50	10	591	1
47	500	221	0002	AN. OPTICAL CORP. PUTNEY RD. 05404	1	31	6	168	0
TOTALS					474	263	915	3997	114

SECTION 4

AREA SOURCE INVENTORY DEVELOPMENT

OBJECTIVES

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

METHODOLOGIES

Since Vermont is in attainment of the National Ambient Air Quality Standard (NAAQS) for ozone, the VAEP is not required to maintain an area source inventory of the quality required for the NECRMP. Therefore, GCA developed a 1980 area source inventory of VOC and NO_x emissions 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 are documented in Volume I of this series.⁴

Area source emissions of VOC and NO_x were calculated for each county for 54 individual 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 designates whether the VOC emissions inventoried in each category represent total or reactive VOC.

TABLE 10. AREA SOURCE CATEGORIES INVENTORIED FOR VERMONT

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	Architectural 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 Oil	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 Vermont 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
- The source of these emission factors

DEVIATIONS FROM THE VOLUME I⁴ METHODOLOGIES

For some area source categories, the methodologies reported in Volume I⁴ of this series had to be modified to accommodate the source activity data available for Vermont. Additionally, the quality of existing activity data sometimes necessitated making certain assumptions or adjusting older data to 1980. The assumptions, adjustments, and deviations from the Volume I⁴ methodologies are discussed below. The information supplied here is supplemental to the general methodology description presented in Volume I.⁴

Gasoline Marketing Operations

Statewide 1979 gasoline sales for Vermont were obtained from Highway Statistics.¹² Statewide estimates of 1980 sales were developed based on actual 1979 sales and the FHWA predicted change for 1980.¹³ County-specific estimates were derived by apportioning statewide sales to counties on the basis of the number of gasoline service stations in each county.⁹

Composite emission factors were calculated for two gasoline marketing categories, service station loading (Stage I evaporation) and tank truck loading and transit. These factors were developed based on AP-42¹⁰ factors and the assumption that both service stations and tanker trucks are comprised of 25 percent splash loading tanks and 75 percent submerged fill tanks.¹¹ Derivations of these composite emission factors are further explained in Volume I.⁴

Cutback Asphalt Paving

The Vermont Agency of Transportation¹⁴ provided data on the quantity and type of asphalt applied statewide in Vermont during 1980. Statewide usage was apportioned to counties on the basis of vehicle miles traveled, as reported in a recent Vermont mobile source emission inventory for lead (Pb).¹⁵

TABLE 11. VERMONT 1980 AREA SOURCE INVENTORY DATA SOURCES

EIS/AS Category No.	Category Description	Activity Rate Basis	Activity Rate Source	Emission Factors			Emission Factor Source ^a
				Organic Compounds	Nitrogen Oxides	Volatile	
001	Stage I Gasoline Evaporation	Gasoline Delivered	Highway Statistics	8.35 #/10 ³ gal	-	-	AP-42; Table 4.4-4
002	Stage II Gasoline Evaporation	Gasoline Taxed	Highway Statistics	9.7 #/10 ³ gal	-	-	AP-42; Table 4.4-4
003	Gasoline Storage Tank Breathing	Gasoline Delivered	Highway Statistics	1.0 #/10 ³ gal	-	-	AP-42; Table 4.4-4
004	Gasoline Loading/Transit	Gasoline Delivered	Highway Statistics	6.87 #/10 ³ gal	-	-	AP-42; Table 4.4-3
005	Small Ind./Comm. Degreasing	Population	1980 Census of Population	7.59 #/capita	-	-	GCA, based on EPA-450/2-78-045(a)
006	Dry Cleaning	Population	1980 Census of Population	1.5 #/capita	-	-	EPA-450/2-77-028
007	Architectural Surface Coating	Population	1980 Census of Population	4.6 #/capita	-	-	EPA-450/2-77-028
008	Autobody Refinishing	Population	1980 Census of Population	1.9 #/capita	-	-	EPA-450/2-77-028
009	Small Industrial Surface Coating	Coating applied	National Paint and Coating Assoc.	1175 #/ton	-	-	AP-42; Table 4.2-1
010	Graphic Arts	Population	1980 Census of Population	0.8 #/capita	-	-	EPA-450/2-77-028
011	Commercial/Consumer Solvent Use	Population	1980 Census of Population	6.3 #/capita	-	-	EPA-450/2-77-028
012	Cutback Asphalt	Asphalt applied	VT-AOT	577 #/ton	-	-	GCA calc. based on AP-42; Table 4.5-1
013	Pesticide Application	Pesticide applied	VT - Department of Agriculture	0.9 #/# applied	-	-	EPA-450/2-77-028
014	On-Highway - Light Duty Vehicles	Vehicle Miles Traveled	VT-AOT	County-specific	County-specific	-	MOBILE2, GCA calc.
015	On-Highway - Light Duty Truck - 1	Vehicle Miles Traveled	VT-AOT	County-specific	County-specific	-	MOBILE2, GCA calc.

(continued)

TABLE 11 (continued)

EIS/AS Category No.	Category Description	Activity Rate Basis	Activity Rate Source	Emission Factors			Emission Factor Source ^a
				Organic Compounds	Nitrogen Oxides	Volatile	
016	On-Highway - Light Duty Truck - 2	Vehicle Miles Traveled	VT-AOT	County-specific	County-specific	County-specific	MOBILE2, GCA calc.
017	On-Highway - Heavy Duty - Gasoline	Vehicle Miles Traveled	VT-AOT	County-specific	County-specific	County-specific	MOBILE2, GCA calc.
018	On-Highway - Heavy Duty - Diesel	Vehicle Miles Traveled	VT-AOT	County-specific	County-specific	County-specific	MOBILE2, GCA calc.
019	On-Highway - Motorcycles	Vehicle Miles Traveled	VT-AOT	County-specific	County-specific	County-specific	MOBILE2, GCA calc. ♦
020	Residential - Anthracite Coal	Anthracite burned	GCA (based on EPA-450/2-77-028)	2.5 #/ton	3 #/ton		AP-42; Table 1.2-1
021	Residential - Bituminous Coal	Bituminous burned	GCA (based on EPA-450/2-77-028)	3 #/ton	6 #/ton		AP-42; Table 1.1-2
022	Residential Residual Oil	N/A	N/A	N/A	N/A		N/A
023	Residential Distillate Oil	Distillate burned	GCA (based on EPA-450/2-77-028)	1 #/10 ³ gal	18 #/10 ³ gal		AP-42; Table 1.3-1
024	Residential Natural Gas	Natural Gas burned	GCA (based on EPA-450/2-77-028)	8 #/10 ⁶ ft ³	80 #/10 ⁶ ft ³		AP-42; Table 1.4-1
025	Residential LPG	LPG burned	GCA (based on EPA-450/2-77-028)	0.75 #/10 ³ gal	7.5 #/10 ³ gal		AP-42; Table 1.5-1
026	Residential Wood	Wood burned	GCA (based on EPA-450/4-80-028)	5 #/ton	1 #/ton		AP-42; Table 1.9-1
027	Comm./Instit. Anthracite Coal	Anthracite burned		0 #/ton	10 #/ton		AP-42; Table 1.2-1
028	Comm./Instit. Bituminous Coal	Bituminous burned	DOE - Bituminous and Subbituminous Coal and Lignite Distribution	3 #/ton	6 #/ton		AP-42; Table 1.1-2
029	Comm./Instit. Residual Oil	Residual Oil burned	DOE - Sales of fuel oil and kerosene	1 #/10 ³ gal	60 #/10 ³ gal		AP-42; Table 1.3-1

(continued)

TABLE 11 (continued)

EIS/AS Category No.	Category Description	Activity Rate Basis	Activity Rate Source	Emission Factors			Emission Factor Source ^a
				Organic Compounds	Nitrogen Oxides	Volatile	
030	Comm./Instit. Distillate Oil	Distillate Oil burned	DOE - Sales of fuel oil and kerosene	1 #/10 ³ gal	22 #/10 ³ gal		AP-42; Table 1.3-1
031	Comm./Instit. Natural Gas	Natural Gas burned	AGA - Gas Facts	8 #/10 ⁶ ft ³	120 #/10 ⁶ ft ³		AP-42; Table 1.4-1
032	Comm./Instit. LPG	LPG burned	DOE - Sales of LPG and Ethane	0.75 #/10 ³ gal	11 #/10 ³ gal		AP-42; Table 1.5-1
033	Comm./Instit. Wood/Other	Wood burned	EPA-450/4-80-028	36 #/ton	10 #/ton		AB-42; Table 1.6-1
034	Industrial Anthracite	Anthracite burned	EPA-450/4-80-028	0 #/ton	18 #/ton		AP-42; Table 1.2-1
035	Industrial Bituminous	Bituminous burned	DOE - Bituminous and Subbituminous Coal and Lignite distribution	1 #/ton	15 #/ton		AP-42; Table 1.1-2
036	Industrial Residual Oil	Residual Oil burned	DOE - Sales of fuel oil and kerosene	1 #/10 ³ gal	60 #/10 ³ gal		AP-42; Table 1.3-1
037	Industrial Distillate Oil	Distillate Oil burned	DOE - Sales of fuel oil and kerosene	1 #/10 ³ gal	22 #/10 ³ gal		AP-42; Table 1.3-1
038	Industrial Natural Gas	Natural Gas burned	AGA - Gas Facts	3 #/10 ⁶ ft ³	175 #/10 ⁶ ft ³		AP-42; Table 1.4-1
039	Industrial LPG	LPG burned	DOE - Sales of LPG and Ethane	0.3 #/10 ³ gal	11.65 #/10 ³ gal		AP-42; Table 1.5-1
040	Industrial Wood	Wood burned	EPA-450/4-80-028	36 #/ton	10 #/ton		AP-42; Table 1.6-1
041	Military Aircraft	LTO Cycles	FAA	27.1 #/LTO	9.16 #/LTO		EPA/NAVB
042	Civil Aircraft	LTO Cycles	FAA	0.41 #/LTO	0.028 #/LTO		EPA/NAVB
043	Commercial Aircraft	LTO Cycles	FAA	30.66 #/LTO	26.93 #/LTO		EPA/NAVB

(continued)

TABLE 11 (continued)

EIS/AS Category No.	Category Description	Activity Rate Basis	Activity Rate Source	Emission Factors			Emission Factor Source ^a
				Organic Compounds	Volatile Nitrogen Oxides		
044	Railroad Locomotives	Oil sales to railroads	DOE - Sales of fuel oil and kerosene	94 #/10 ³ gal	370 #/10 ³ gal		AP-42; Table 3.2.2-1
045	Vessels - Gasoline	Gasoline used	VT-RMV and GCA (based on EPA-450/2-77-028)	887.06 #/10 ³ gal	32.72 #/10 ³ gal		GCA - based on AP-42; Tables 3.2.3-5 and 3.2.4-1
046	Vessels - Distillate Oil	Oil used	DOE - Sales of fuel oil and kerosene	50 #/10 ³ gal	270 #/10 ³ gal		AP-42; Table 3.2.3-1
047	Vessels - Residual Oil	Oil used	DOE - Sales of fuel oil and kerosene	1.72 #/10 ³ gal	63.6 #/10 ³ gal		AP-42; Table 3.2.3-2
048	Off-Highway Gasoline Vehicles	Gasoline used	EPA-450/4-80-028	267 #/10 ³ gal	105 #/10 ³ gal		Composite from AP-42
049	Off-Highway - Diesel Vehicles	Diesel fuel used	EPA-450/4-80-028	39 #/10 ³ gal	421 #/10 ³ gal		Composite from AP-42
050	Onsite Incineration	Tons of waste	EPA-450/2-77-028	29 #/ton	5.5 #/ton		Composite from AP-42
051	Open Burning	Tons burned	EPA-450/2-77-028	37 #/ton	2.5 #/ton		Composite from AP-42
052	Structural Fires	Number of fires	VT State Fire Marshall	107 #/fire	17 #/fire		EPA/NADDB
053	Field/Slash Burning	Acres burned	VT Department of Agriculture	23.5 #/acre	4 #/acre		Composite from AP-42
054	Forest Fires	Acres burned	VT Conservation Agency - Forestry Division	261 #/acre	43.2 #/acre		AP-42; Table 11.12

^aWhen AP-42 is designated, the latest factors through supplement 12 were used.

The state-supplied asphalt usage was broken down into rapid cure, medium cure, and MCRC (a 50/50 mix of medium cure and rapid cure).

Emissions were calculated independently for each asphalt type using the following equation:

$$\text{Emissions}_i \text{ (t/yr)} = \frac{[(\text{gallons of asphalt}_i)(\text{solvent content } \%_i)(\text{solvent density \#/gal}_i)(\% \text{ of solvent evaporated}_i)]}{2000}$$

where: gallons of asphalt_i = State supplied usage of asphalt_i

solvent content %_i = 35% for medium cure, 45% for rapid cure,
40% for 50/50 mix

solvent density = 6.1 #/gal for rapid cure; 6.8 #/gal for
medium cure, 6.45 #/gal for 50/50 mix

% solvent evaporated = 70% for medium cure, 95% for rapid cure,
82.5% for 50/50 mix.

Pesticide Application

Data on the quantity of pesticide, including biologically inert solvent, applied statewide in 1979 were available from the Vermont Department of Agriculture--Plant Industry Department.¹⁶ No significant change between usage in 1979 and 1980 was assumed. Statewide figures were apportioned to counties assuming pesticide application was inversely proportional to population.

On-Highway Motor Vehicles

Statewide vehicle miles traveled (VMT) data for 1979 were available from the Vermont AOT.^{17,18} At the suggestion of the VAOT,¹⁸ no change in VMT through 1980 was assumed. County-specific VMT estimates were derived by apportioning statewide 1979 VMT to counties based on county-specific VMT estimates reported in an earlier mobile source inventory.⁵¹

Emission factors were developed using the MOBILE2 emissions model, and the VMT distribution, speed, temperature and cold/hot start assumptions presented in Volume I.⁴

Residential Fuel Combustion

Fuel used in the residential sector was estimated using the equations presented in Reference 11. The number of housing units using each individual fuel type were determined using the following equation:

$$H_{i\ 80} = H_{i\ 70} \left(\frac{H_{T\ 80}}{H_{T\ 70}} \right)$$

where $H_{i\ 80}$ = Number of housing units using fuel type i in 1980

$H_{i\ 70}$ = Number of housing units using fuel type i in 1970 (from the 1970 Census of Housing)

$H_{T\ 80}$ = Number of total housing units in 1980 (from the 1980 Census)

$H_{T\ 70}$ = Number of total housing units in 1970 (from the 1970 Census)

This method, used in lieu of fuel-specific data for 1980, assumes an insignificant change in fuel mix from 1970 to 1980. The emission factor for LPG was derived assuming a 1:1 ratio of propane to butane. Emission factors for the remaining fuels were obtained directly from AP-42.

Commercial/Institutional and Industrial Fuel Combustion

To determine area source fuel use in the commercial/institutional and industrial sectors, the following approach was used. Total statewide fuel use was available for 1978 or 1979 from the sources listed in Table 10. Historical data back to 1970 were obtained from earlier versions of the same references. Total 1980 fuel use was estimated through linear regression of the 1970 to 1978/79 data. For each fuel, area source use in the commercial/institutional and industrial sectors was calculated using the following equation:

$$C/I \ \& \ I_{80-x} = (T_{80-x}) - (R_{80-x}) - (P_{80-x})$$

where $C/I \ \& \ I_{80-x}$ = Commercial/Institutional and Industrial area source use of fuel x in 1980

T_{80-x} = Total use of fuel-x in 1980 (estimated previously through linear regression)

R_{80-x} = Residential use of fuel-x in 1980 (calculated previously)

P_{80-x} = Point source use of fuel-x in 1980 (determined from point source inventory)

Fuel use calculated using the above equation was split between the commercial and industrial sectors using the distribution of area source fuel use for the two sectors reported in NEDS Fuel Use Report.¹⁹

Aircraft Operations

Aircraft landing and takeoff (LTO) data were available for 1979 from the Federal Aviation Administration (FAA).^{20,21} Based on historical FAA

data, it was determined that changes in the quantity of LTO operations between 1979 and 1980 in Vermont were probably insignificant. Therefore, 1979 data were used as approximations of 1980 activity. Composite emission factors for civil, commercial, and military aircraft LTOs were obtained from EPA/NADB.²²

Railroad Locomotives

Historical data on sales of fuel oil to railroads from 1970 to 1978 were available from the sources listed in Table 11. The 1980 statewide use was determined through linear regression. County-specific use was determined by apportioning statewide use to counties on the basis of railroad right-of-way, measured from state rail line maps.

Structural Fires

The Vermont Fire Prevention Division provided the actual number of structural fires, by county, for 1979.²³ No change was assumed between 1979 and 1980. Emissions were calculated using a composite emission factor obtained from EPA/NADB.²⁴

DEVELOPMENT OF EIS/AS MASTER FILE

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

RESULTS

Statewide totals of 1980 VOC and NO_x emissions from area sources in Vermont are provided in Table 12. County summaries of area source emissions are provided in Appendix B.

TABLE 12. ANNUAL EMISSIONS (1980) OF VOC AND NO_x FROM AREA SOURCES
IN VERMONT

GCP / TECHNOLOGY DIVISION AREA SOURCE MASTER FILE SUMMARY FOR VERMONT						
STATE SUMMARY						
CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RATE	UNITS	POLLUTANT I.D.	EMISSION FACTOR	EMISSIONS ESTIMATE
001	STAGE I GASOLINE EVAP	244581	THOUS GAL	NOX VOC		0 1021
002	STAGE II GASOLINE EVAP	244416	THOUS GAL	NOX VOC		0 1184
003	STORAGE TANK BREATHING	244581	THOUS GAL	NOX VOC		0 122
004	GASOLINE LOADING/TRANSIT	244581	THOUS GAL	NOX VOC		0 835
005	SM IND/COMM DEGREASING	511299	POPULATION	NOX VOC		0 1940
006	DRY CLEANING	511299	POPULATION	NOX VOC		0 124
007	ARCH SURFACE COATING	511299	POPULATION	NOX VOC		0 1176
008	AUTO BODY REFINISHING	511299	POPULATION	NOX VOC		0 486
009	SM IND SURFACE COATING	27	THOUS GAL	NOX VOC		0 54
010	GRAPHIC ARTS	511299	POPULATION	NOX VOC		0 204
011	COMM/CONS SOLVENT USE	511299	POPULATION	NOX VOC		0 1611
012	CUTBACK ASPHALT	215	TON	NOX VOC		0 62
013	PAINTS	244671	LBS	NOX VOC		0 111

TABLE 12 (continued)

SC6 / TECHNOLOGY DIVISION
APCA SOURCE MASTER FILE SUMMARY
FOR VERMONT

STATE SUMMARY

CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RATE	UNITS	POLLUTANT I.C.	EMISSION FACTOR	EMISSIONS ESTIMATE
014	ON-HIGHWAY LDV	2056474	THOUS VMT	NOX VOC		11481 13766
015	ON-HIGHWAY LDT1	538892	THOUS VMT	NOX VOC		2234 2059
016	ON-HIGHWAY LDT2	44574	THOUS VMT	NOX VOC		223 143
017	ON-HIGHWAY HD3	81719	THOUS VMT	NOX VOC		1137 855
018	ON-HIGHWAY HDD	33436	THOUS VMT	NOX VOC		363 92
019	ON-HIGHWAY HC	199440	THOUS VMT	NOX VOC		143 1314
020	RESIDENTIAL ANTHRACITE	20991	TON	NOX VOC		31 27
023	RESIDENTIAL DISTILLATE	251612	THOUS GAL	NOX VOC		2265 127
024	RESIDENTIAL NATURAL GAS	5309	MIL CU FT	NOX VOC		213 21
025	RESIDENTIAL LFG	32793	THOUS GAL	NOX VOC		124 15
026	RESIDENTIAL WOOD	177055	TON	NOX VOC		88 443
029	COMM/INST RESIDUAL OIL	11877	THOUS GAL	NOX VOC		358 4
036	INDUSTRIAL RESIDUAL OIL	17092	THOUS GAL	NOX VOC		517 5

TABLE 12 (continued)

GCA / TECHNOLOGY DIVISION AREA SOURCE MASTER FILE SUMMARY FOR VERMONT						
STATE SUMMARY						
CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS FATE	UNITS	POLLUTANT I.D.	EMISSION FACTOR	EMISSIONS ESTIMATE
041	MILITARY AIRCRAFT	9222 LND/TAKE OFF		NOX VOC		42 125
042	CIVIL AIRCRAFT	387630 LND/TAKE OFF		NOX VOC		3 81
043	COMMERCIAL AIRCRAFT	6345 LND/TAKE OFF		NOX VOC		43 79
044	RAILROAD LOCOMOTIVES	2731 THOUS GAL		NOX VOC		505 126
045	VESSELS - GASOLINE	2314 THOUS GAL		NOX VOC		32 895
046	OFF-HIGHWAY VEHICLES-GAS	9516 THOUS GAL		NOX VOC		506 1269
049	OFF-HIGHWAY VEH - UTES/L	10249 THOUS GAL		NOX VOC		3452 359
050	ON-SITE INCINERATION	66384 TON		NOX VOC		81 1303
051	OPEN BURNING	266110 TON		NOX VOC		732 3863
052	STRUCTURAL FIRES	585 FIRES		NOX VOC		2 31
054	FOREST FIRES	780 ACRES		NOX VOC		16 103
STATE OR REGION TOTALS						25791 3351

SECTION 5

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APPENDIX A

POINT SOURCE EMISSIONS BY CATEGORY
FOR THE VERMONT COUNTIES

Table A-1 presents point source emissions, by category, for each of the Vermont counties, which are identified below.

<u>County</u>	<u>NEDS/EIS County Code</u>
Addison	0020
Bennington	0100
Caledonia	0160
Chittenden	0180
Essex	0200
Franklin	0240
Grand Isle	0260
Lamoille	0280
Orange	0360
Orleans	0380
Rutland	0420
Washington	0500
Windham	0580
Windsor	0620

TABLE A-1. COUNTY SUMMARIES OF POINT SOURCE EMISSIONS (1979) FOR VERMONT

SCA / TECHNOLOGY DIVISION
VERMONT POINT SOURCE EMISSIONS BY CATEGORY 1979

COUNTY: 0020

CATEGORY	POINT COUNT	TSP	PRIMARY SO ₂	SCC NOX	EMISSIONS (TONS/YEAR)	HC	CO
1 OIL AND GAS PRODUCTION & PROCESSING	0	0	0	0	0	0	0
2 SYN. ORGANIC CHEM. STORAGE & TRANSFER	0	0	0	0	0	0	0
3 GASOLINE AND CRUDE OIL STORAGE	0	0	0	0	0	0	0
4 SHIP AND BARGE TRANSFER OF VOC	0	0	0	0	0	0	0
5 WASTE AND TANKER CLEANING	0	0	0	0	0	0	0
6 PULP 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-ASTORAGE, TRANSF., MKT OF VOC	0	0	0	0	0	0	0
12 LUB. 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	1	0	0	0	15	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 FERTILIZATION 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 SAW MILL MANUFACTURE	0	0	0	0	0	0	0
24 OTHER CHEMICAL MANUFACTURE	0	0	0	0	0	0	0
25 IRON AND STEEL MANUFACTURE	0	0	0	0	0	0	0
26 TOBACCO PRODUCTS	0	0	0	0	0	0	0
27 FOOD PRODUCTS	0	0	0	0	0	0	0
28 TEXTILE MILL PRODUCTS	0	0	0	0	0	0	0
29 LUMBER AND WOOD PRODUCTS	2	0	0	0	0	0	0
30 PAPER AND ALLIED PRODUCTS	0	0	0	0	0	0	0
31 STONE, CLAY, GLASS, CONCRETE	4	4	0	0	0	0	0
32 PRIMARY METAL/COAL/STEEL & ELECTRICAL	0	0	0	0	0	0	0
33 FURNITURE/STEEL PRODUCTS	0	0	0	0	0	0	0
34 METAL/PROCESS FUEL USE	4	0	11	0	398	0	0
35 OTHERS - (INDUSTRIAL PROCESSES)	1	0	0	0	0	0	0
36 ADHESIVES	0	0	0	0	0	0	0
37 INC. SEC. COATING-LARGE APPLIANCES	0	0	0	0	0	0	0
38 INC. SEC. COATING-AIRCRAFT VEH	0	0	0	0	0	0	0
39 INC. SEC. COATING-AUTOMOBILE	0	0	0	0	0	0	0
40 INC. SEC. COATING-CLAS	0	0	0	0	0	0	0
41 INC. SEC. COATING-METAL COILS	0	0	0	0	0	0	0
42 INC. SEC. COATING-PAPE	0	0	0	0	0	0	0
43 INC. SEC. COATING-FABRIC	0	0	0	0	0	0	0
44 INC. SEC. COATING-MISC. FURNITURE	0	0	0	0	0	0	0
45 INC. SEC. COATING-METAL/WOOD PRODUCTS	2	0	0	0	31	0	0
46 PLASTIC PAINTS PAINTING	0	0	0	0	0	0	0
47 LARGE AIRCRAFT	0	0	0	0	0	0	0
48 INC. SEC. COATING-MISC. METAL PRODUCTS	3	0	0	0	476	0	0
49 OTHERS - (INDUSTRIAL SURFACE COATING)	0	0	0	0	0	0	0

TABLE A-1 (continued)

GCA / TECHNOLOGY DIVISION
VERMONT POINT SOURCE EMISSIONS BY CATEGORY 1979

COUNTY:0020

CATEGORY	POINT COUNT	----- TSP	PRIMARY SC2	SCC EMISSIONS NOX	(TONS/YEAR) HC	----- CO
51 DEGREASING	0	0	0	0	0	0
52 DRY CLEANING	0	0	0	0	0	0
53 GRAPHIC ARTS	0	0	0	0	0	0
54 OTHER - (SOLVENT USE)	0	0	0	0	0	0
55 ARCHITECTURAL COATINGS	0	0	0	0	0	0
56 AUTO. PAINTING	0	0	0	0	0	0
57 OTHERS-COM-INDUSTRIAL SURFACE COATINGS)	0	0	0	0	0	0
58 EXT. COMB. BOILERS-ELEC. GENERATION	0	0	0	0	0	0
59 EXT. COMB. BOILERS-INDUSTRIAL	13	15	139	32	2	3
60 EXT. COMB. BOILERS-COMM/INST	4	0	126	10	0	3
61 EXT. COMB. SPACE HEATERS-INDUST.	0	0	0	0	0	0
62 EXT. COMB. SPACE HEATERS-COMM.	0	0	0	0	0	0
63 OTHERS-(FUEL COMBUSTION)	0	0	0	0	0	0
64 SOLID WASTE DISPOSAL-COMM.	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	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	6	5	78	6	17
70 NOT CLASSIFIED	0	0	0	0	0	0
COUNTY TOTALS		25	281	120	930	23

TABLE A-1 (continued)

SCA / TECHNOLOGY DIVISION
VERMONT POINT SOURCE EMISSIONS BY CATEGORY 1979

COUNTY:0100

CATEGORY	POINT COUNT	TSP	PRIMARY SC2	SCC EMISSIONS ACX	(TONS/YEAR) HC	CO
1 OIL AND GAS PRODUCTION & PROCESSING	0	0	0	0	0	0
2 SYN. CRACKING 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	0	0	0	0	0
16 SYNTHETIC FIBER MANUFACTURE	0	0	0	0	0	0
17 ORGANIC CHEMICAL MANUFACTURE	0	0	0	0	0	0
18 INORGANIC CHEMICAL MANUFACTURE	0	0	0	0	0	0
19 FERTILIZATION PROCESSES	0	0	0	0	0	0
20 VULCANIZING PROCESSES	0	0	0	0	0	0
21 PLASTIC PRODUCTS MANUFACTURE	0	0	0	0	0	0
22 RUBBER, TIPE MANUFACTURE	0	0	0	0	0	0
23 SOFT RUBBER MANUFACTURE	0	0	0	0	0	0
24 OTHER CHEMICAL MANUFACTURE	0	0	0	0	0	0
25 IRON AND STEEL MANUFACTURE	0	0	0	0	0	0
26 TOBACCO PRODUCTS	0	0	0	0	0	0
27 FOOD PRODUCTS	0	0	0	0	0	0
28 TEXTILE MILL PRODUCTS	0	0	0	0	0	0
29 LUMBER AND WOOD PRODUCTS	1	1	0	0	0	0
30 PAPER AND ALLIED PRODUCTS	0	0	0	0	0	0
31 STONECLAY, GLASS, CERAMIC	1	3	0	0	0	0
32 PRIMARY & SECONDARY METALS & ELECTRICAL	2	0	0	0	0	0
33 FURNITURE MANUFACTURE	0	0	0	0	0	0
34 FUEL PROCESS FUEL USE	5	11	0	0	0	0
35 OTHERS - (INDUSTRIAL PROCESSES)	0	0	0	0	0	0
36 ADHESIVES	0	0	0	0	0	0
37 INC. SEC. COATING-LARGE APPLIANCES	0	0	0	0	0	0
38 INC. SEC. COATING-ELECTRICAL WIRE	0	0	0	0	0	0
39 INC. SEC. COATING-AUTOMOBILE	0	0	0	0	0	0
40 INC. SEC. COATING-CANS	0	0	0	0	0	0
41 INC. SEC. COATING-METAL COILS	0	0	0	0	0	0
42 INC. SEC. COATING-PAPER	0	0	0	0	0	0
43 INC. SEC. COATING-FABRIC	0	0	0	0	0	0
44 INC. SEC. COATING-MISC. FURNITURE	0	0	0	0	0	0
45 INC. SEC. COATING-METAL/WOOD PRODUCTS	1	0	0	0	37	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. SEC. COATING-MISC. METAL PRODUCTS	1	0	0	0	1	0
50 OTHERS - (INDUSTRIAL SURFACE COATING)	1	0	0	0	152	0

TABLE A-1 (continued)

PCA / TECHNOLOGY DIVISION
VERMONT POINT SOURCE EMISSIONS BY CATEGORY 1979

COUNTY:0100

CATEGORY	POINT COUNT	----- TSP	PRIMARY SC2	EMISSIONS (TONS/YEAR) NOX	HC	----- CO
51 DEGREASING	1	0	0	0	1	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-INDU.-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	11	15	138	48	2	7
60 EXT. COMB. BOILERS-COMM/INST	2	6	159	31	0	2
61 EXT. COMB. SPACE HEATERS-INDUST.	0	0	0	0	0	0
62 EXT. COMB. SPACE HEATERS-COMM.	0	0	0	0	0	0
63 OTHERS-(FUEL COMBUSTION)	0	0	0	0	0	0
64 SOLID WASTE DISPOSAL-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		36	297	79	193	9

TABLE A-1 (continued)

SCA / TECHNOLOGY DIVISION
VERMONT POINT SOURCE EMISSIONS BY CATEGORY 1979

COUNTY:0160

CATEGORY	POINT COUNT	----- TSP	PRIMARY SO2	SCC EMISSIONS SO2	NCX	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 TANKER 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 RULK 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, TRANSF., MKT OF VOC)	0	0	0	0	0	0	0
12 LUBRICANT 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 POLYMER & 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 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	6	0	0	0	0	0	0
26 TOBACCO PRODUCTS	1	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, GLASS, CERAMIC	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	1	0	0	0	0	0	0
35 OTHERS - (INDUSTRIAL PROCESSES)	1	2	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-PAINTS	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	1	0	0	0	0	15	0
50 OTHERS - (INDUSTRIAL SURFACE COATING)	0	0	0	0	0	0	0

TABLE A-1 (continued)

GCA / TECHNOLOGY DIVISION
VERMONT POINT SOURCE EMISSIONS BY CATEGORY 1979

COUNTY:0160

CATEGORY	POINT COUNT	----- TSP	PRIMARY SC2	SCC EMISSIONS NCX	(TONS/YEAR) HC	----- CO
51 DEGREASING	1	0	0	0	23	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 AUTOBODY FINISHING	0	0	0	0	0	0
57 OTHERS-(NON-INDUSTRIAL SURFACE COATING)	0	0	0	0	0	0
58 EXT. COMB. BOILERS-ELEC. GENERATION	0	0	0	0	0	0
59 EXT. COMB. BOILERS-INDUSTRIAL	4	60	313	46	3	9
60 EXT. COMB. BOILERS-COMM/INST	15	1	33	11	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-CVLT.	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 STATIGARY INTERNAL COMBUSTION ENGINES	2	0	0	0	0	0
70 NOT CLASSIFIED	0	0	0	0	0	0
COUNTY TOTALS		63	346	57	41	9

TABLE A-1 (continued)

GCA / TECHNOLOGY DIVISION
VERMONT POINT SOURCE EMISSIONS BY CATEGORY 1979

COUNTY:0180

CATEGORY	POINT COUNT	----- TSP	PRIMARY SC2	SCC SC2	EMISSIONS NOX	(TONS/YEAR) HC	----- CO
1 OIL AND GAS PRODUCTION & PROCESSING	0	0	0	0	0	0	0
2 SYN. ORGANIC CHEM. STORAGE & TRANSFER	0	0	0	0	0	0	0
3 GASOLINE AND CRUDE OIL STORAGE	8	0	0	0	0	31	0
4 SHIP AND CARGO 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, TRANSF., MKT OF VOC)	55	0	0	0	0	1236	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 SYN. 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	1	0	0	0	0	0	0
26 METAL PRODUCTS	0	0	0	0	0	0	0
27 FOOD PRODUCTS	1	0	0	0	0	0	0
28 TEXTILE MILL PRODUCTS	0	0	0	0	0	0	0
29 LUMBER AND WOOD PRODUCTS	0	0	0	0	0	0	0
30 PAPER AND ALLIED PRODUCTS	0	0	0	0	0	0	0
31 STONE, CLAY, GLASS, CONCRETE	4	15	0	0	0	0	0
32 PRIMARY & SECONDARY METALS & ELECTRICAL	1	0	0	0	0	0	0
33 FERTILIZER PRODUCTS	0	0	0	0	0	0	0
34 FERTILIZER FUEL USE	6	0	25	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 INC. SFC. COATING-LARGE APPLIANCES	0	0	0	0	0	0	0
38 INC. SFC. COATING-MAGNET WIRE	0	0	0	0	0	0	0
39 INC. SFC. COATING-AUTOMOBILE	0	0	0	0	0	0	0
40 INC. SFC. COATING-CARS	0	0	0	0	0	0	0
41 INC. SFC. COATING-METAL COILS	0	0	0	0	0	0	0
42 INC. SFC. COATING-PAINTS	0	0	0	0	0	0	0
43 INC. SFC. COATING-PAINTS	0	0	0	0	0	0	0
44 INC. SFC. COATING-MISC. FURNITURE	0	0	0	0	0	0	0
45 INC. SFC. COATING-METAL/WOOD PRODUCTS	1	0	0	0	0	117	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 INC. SFC. COATING-MISC. METAL PRODUCTS	7	5	0	0	0	188	0
50 OTHERS - (INDUSTRIAL SURFACE COATING)	3	0	0	0	0	84	0

TABLE A-1 (continued)

SCA / TECHNOLOGY DIVISION
VERMONT POINT SOURCE EMISSIONS BY CATEGORY 1979

COUNTY: 0100

CATEGORY	POINT COUNT	----- TSP	PRIMARY SC2	SCC NOX	EMISSIONS (TONS/YEAR) HC	----- CO
51 DEGREASING	1	0	0	0	1	0
52 DRY CLEANING	0	0	0	0	0	0
53 GRAPHIC ARTS	0	0	0	0	0	0
54 OTHER - (SOLVENT USED)	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	74	60	614	80	45
59 EXT. COMB. BOILERS-INDUSTRIAL	14	3	2	50	0	50
60 EXT. COMB. BOILERS-COMM/INST.	23	1	20	22	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.	9	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	0	6	7	0	2
70 NOT CLASSIFIED	0	0	0	0	0	0
COUNTY TOTALS		106	123	693	1737	137

TABLE A-1 (continued)

SCA / TECHNOLOGY DIVISION
VERMONT POINT SOURCE EMISSIONS BY CATEGORY 1979

COUNTY:2200

CATEGORY	POINT COUNT	----- TSP	PRIMARY SC2	SCC NOX	EMISSIONS (TONS/YEAR) HC	----- CO
1 OIL AND GAS PRODUCTION & PROCESSING	0	0	0	0	0	0
2 SYN. ORGANIC CHEM. STORAGE & TRANSFER	0	0	0	0	0	0
3 GASOLINE AND CRUOIL 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	4	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 FERTILIZER 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 CARBON TIRE 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 THERMO 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	6	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 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-AUTO/CBIL	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-PAPEP	0	0	0	0	0	0
43 INC. SFC. COATING-FABRIC	0	0	0	0	0	0
44 INC. SFC. COATING-FISC. FURNITURE	0	0	0	0	0	0
45 INC. SFC. COATING-METAL/WOOD PRODUCTS	1	0	0	0	220	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)

SCA / TECHNOLOGY DIVISION
VERMONT POINT SOURCE EMISSIONS BY CATEGORY 1979

COUNTY:0200

CATEGORY	POINT COUNT	----- TSP	PRIMARY SC2	SCC SC2	EMISSIONS NCX	(TONS/YEAR) HC	----- CO
51 DREGGING	0	0	0	0	0	0	0
52 DRY CLEANING	0	0	0	0	0	0	0
53 GRAPHIC ARTS	0	0	0	0	0	0	0
54 OTHER - (SOLVENT USE)	0	0	0	0	0	0	0
55 ARCHITECTURAL COATINGS	0	0	0	0	0	0	0
56 AUTO REFINISHING	0	0	0	0	0	0	0
57 OTHERS-(NON-INDUSTRIAL SURFACE COATING)	0	0	0	0	0	0	0
58 EXT. COMB. BOILERS-ELFC. GENERATION	0	0	0	0	0	0	0
59 EXT. COMB. BOILERS-INDUSTRIAL	6	242	850	140	16	28	0
60 EXT. COMB. BOILERS-COMM/INST	0	0	0	0	0	0	0
61 EXT. COMB. SPACE HEATERS-INDUST.	0	0	0	0	0	0	0
62 EXT. COMB. SPACE HEATERS-COMM.	0	0	0	0	0	0	0
63 OTHERS-(FUEL COMBUSTION)	0	0	0	0	0	0	0
64 SOLID WASTE DISPOSAL-SMVT.	0	0	0	0	0	0	0
65 SOLID WASTE DISPOSAL-COMM/INST	0	0	0	0	0	0	0
66 SOLID WASTE DISPOSAL-INDUSTRIAL	0	0	0	0	0	0	0
67 OTHER SOLID WASTE DISPOSAL	0	0	0	0	0	0	0
68 WASTE SOLVENT RECOVERY PROCESSES	0	0	0	0	0	0	0
69 STATIONARY INTERNAL COMBUSTION ENGINES	0	0	0	0	0	0	0
70 NOT CLASSIFIED	0	0	0	0	0	0	0
COUNTY TOTALS		254	860	140	236		28

TABLE A-1 (continued)

SCA / TECHNOLOGY DIVISION
VERMONT POINT SOURCE EMISSIONS BY CATEGORY 1979

COUNTY:0240

CATEGORY	POINT COUNT	----- TSP	SCC SO2	EMISSIONS NOX	(TONS/YEAR) HC	----- CO
1 OIL AND GAS PRODUCTION & PROCESSING	0	0	0	0	0	0
2 SYN. ORGANIC CHEM. STORAGE & TRANSFER	0	0	0	0	0	0
3 GASOLINE AND CRUDE OIL STORAGE	0	0	0	0	0	0
4 SHIP AND BARGE TRANSFER OF VOC	0	0	0	0	0	0
5 BARGE AND TANKER CLEANING	0	0	0	0	0	0
6 BULK GASOLINE TERMINALS	0	0	0	0	0	0
7 GASOLINE BULK PLANTS	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 OTHER (STORAGE, TRANSF., MKT OF VOC)	0	0	0	0	0	0
12 LUBE OIL MANUFACTURE	0	0	0	0	0	0
13 PETROLEUM REFINERIES	0	0	0	0	0	0
14 PHARMACEUTICAL MANUFACTURE	0	0	0	0	0	0
15 TEXTILE POLYMERS & RESIN MANUFACTURE	0	0	0	0	0	0
16 SYNTHETIC FIBER MANUFACTURE	0	0	0	0	0	0
17 ORGANIC CHEMICAL MANUFACTURE	0	0	0	0	0	0
18 INORGANIC CHEMICAL MANUFACTURE	0	0	0	0	0	0
19 FERMENTATION PROCESSES	0	0	0	0	0	0
20 VEGETABLE OIL PROCESSING	0	0	0	0	0	0
21 PLASTIC PRODUCTS MANUFACTURE	0	0	0	0	0	0
22 RUBBER TIRE MANUFACTURE	0	0	0	0	0	0
23 SEW 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 FUEL PRODUCTS	0	0	0	0	0	0
27 FUEL PRODUCTS	11	916	0	0	0	0
28 TEXTILE MILL PRODUCTS	0	0	0	0	0	0
29 LEADERS AND WOOD PRODUCTS	0	0	0	0	0	0
30 PAPER AND ALLIED PRODUCTS	0	0	0	0	0	0
31 STONE, CLAY, GLASS, CONCRETE	19	0	0	0	0	0
32 PRIMARY & SECONDARY METALS & ELECTRICAL	3	0	0	0	0	0
33 FERRICATED METAL PRODUCTS	0	0	0	0	0	0
34 IN-PROCESS FUEL USE	2	0	0	1	500	0
35 OTHERS - (INDUSTRIAL PROCESSES)	1	0	0	0	0	0
36 ADHESIVES	0	0	0	0	0	0
37 1. L. SFC. COATING-LARGE APPLIANCES	0	0	0	0	0	0
38 1. L. SFC. COATING-WASHER WIRE	0	0	0	0	0	0
39 1. L. SFC. COATING-AUTOMOBILE	0	0	0	0	0	0
40 1. L. SFC. COATING-ORNS	0	0	0	0	0	0
41 1. L. SFC. COATING-METAL COILS	0	0	0	0	0	0
42 1. L. SFC. COATING-PAPER	0	0	0	0	0	0
43 1. L. SFC. COATING-FABRIC	0	0	0	0	0	0
44 1. L. SFC. COATING-MISC. FURNITURE	0	0	0	0	0	0
45 1. L. 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 1. L. SFC. COATING-MISC. METAL PRODUCTS	1	0	0	0	0	0
50 OTHERS - (INDUSTRIAL SURFACE COATING)	0	0	0	0	0	0

TABLE A-1 (continued)

GCA / TECHNOLOGY DIVISION
VERMONT POINT SOURCE EMISSIONS BY CATEGORY 1979

COUNTY: 0240

CATEGORY	POINT COUNT	----- TSP	PRIMARY SO2	SCC EMISSIONS NOX	(TONS/YEAR) HC	----- CO
51 DEGREASING	1	0	0	0	16	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	11	2	1	53	1	5
60 EXT. COMB. BOILERS-COMM/INST	2	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	1	1	0	0	1	1
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 STATUTORY INTERNAL COMBUSTION ENGINES	0	0	0	16	0	3
70 NOT CLASSIFIED	0	0	0	0	0	0
COUNTY TOTALS		938	1	70	618	9

TABLE A-1 (continued)

6CA / TECHNOLOGY DIVISION
VERMONT POINT SOURCE EMISSIONS BY CATEGORY 1979

COUNTY:0260

CATEGORY	POINT COUNT	----- TSP	SCC	SC2	EMISSIONS RCX	(TONS/YEAR) HC	----- CO
1 OIL AND GAS PRODUCTION & PROCESSING	0	0	0	0	0	0	0
2 SYN. (ORGANIC CHEM. STORAGE & TRANSFER	0	0	0	0	0	0	0
3 GASOLINE AND CRUDE OIL STORAGE	0	0	0	0	0	0	0
4 SHIP AND BARGE TRANSFER OF VOC	0	0	0	0	0	0	0
5 BARGE AND TANKER CLEANING	0	0	0	0	0	0	0
6 BULK GASOLINE TERMINALS	0	0	0	0	0	0	0
7 GASOLINE BULK PLANTS	0	0	0	0	0	0	0
8 TANK TRUCK LOADING	0	0	0	0	0	0	0
9 SERVICE STATION LOADING (STAGE I)	0	0	0	0	0	0	0
10 SERVICE STATION UNLOADING (STAGE II)	0	0	0	0	0	0	0
11 OTHERS-(STORAGE, TRANSP., MKT OF VOC)	0	0	0	0	0	0	0
12 LUBE OIL MANUFACTURE	0	0	0	0	0	0	0
13 PETROLEUM REFINERIES	0	0	0	0	0	0	0
14 PHARMACEUTICAL MANUFACTURE	0	0	0	0	0	0	0
15 TEXTILE POLYMERS & RESIN MANUFACTURE	0	0	0	0	0	0	0
16 SYNTHETIC FIBER MANUFACTURE	0	0	0	0	0	0	0
17 ORGANIC CHEMICAL MANUFACTURE	0	0	0	0	0	0	0
18 INORGANIC CHEMICAL MANUFACTURE	0	0	0	0	0	0	0
19 FERTILIZER MANUFACTURE	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 SYN. 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 TONNAGE PRODUCTS	0	0	0	0	0	0	0
27 FUEL PRODUCTS	0	0	0	0	0	0	0
28 TEXTILE MILL PRODUCTS	0	0	0	0	0	0	0
29 LUMBER AND WOOD PRODUCTS	1	1	0	0	0	0	0
30 PAPER AND ALLIED PRODUCTS	0	0	0	0	0	0	0
31 STONE, CLAY, GLASS, CONCRETE	2	2	3	0	0	0	0
32 PRIMARY & SECONDARY METALS & ELECTRICAL	0	0	0	0	0	0	0
33 FERTILIZER METAL PRODUCTS	0	0	0	0	0	0	0
34 IN-PHOSPHATE FULL USE	0	0	0	0	0	0	0
35 OTHERS - (INDUSTRIAL PROCESSES)	0	0	0	0	0	0	0
36 ALUMINUM	0	0	0	0	0	0	0
37 IRON, STEEL, COATING-LARGE AFFILIATES	0	0	0	0	0	0	0
38 IRON, STEEL, COATING-MAGNET WIRE	0	0	0	0	0	0	0
39 IRON, STEEL, COATING-AUTOMOBILE	0	0	0	0	0	0	0
40 IRON, STEEL, COATING-CANS	0	0	0	0	0	0	0
41 IRON, STEEL, COATING-METAL COILS	0	0	0	0	0	0	0
42 IRON, STEEL, COATING-PAPER	0	0	0	0	0	0	0
43 IRON, STEEL, COATING-FABRIC	0	0	0	0	0	0	0
44 IRON, STEEL, COATING-MISC. FURNITURE	0	0	0	0	0	0	0
45 IRON, STEEL, 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 IRON, STEEL, 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)

SCA / TECHNOLOGY DIVISION
VERMONT POINT SOURCE EMISSIONS BY CATEGORY 1979

COUNTY:0220

CATEGORY	POINT COUNT	----- TSP	PRIMARY SC2	SCC EMISSIONS NOX	(TONS/YEAR) HC	----- CO
51 DYEING	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	230	21	62	13	13
60 EXT. COMB. BOILERS-COMM/INST	1	0	1	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-SMVT.	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		230	25	62	13	13

TABLE A-1 (continued)

CCA / TECHNOLOGY DIVISION
VERMONT POINT SOURCE EMISSIONS BY CATEGORY 1979

COUNTY: 0360

CATEGORY	POINT COUNT	----- TSP	PRIMARY SO2	SCC EMISSIONS NOX	(TONS/YEAR) HC	----- CO
1 OIL AND GAS PRODUCTION & PROCESSING	0	0	0	0	0	0
2 SYN. ORGANIC CHEM. STORAGE & TRANSFER	0	0	0	0	0	0
3 GASOLINE AND CRUDE OIL STORAGE	0	0	0	0	0	0
4 SHIP AND BARGE TRANSFER OF VOC	0	0	0	0	0	0
5 BARGE AND TANKER CLEANING	0	0	0	0	0	0
6 BULK GASOLINE TERMINALS	0	0	0	0	0	0
7 GASOLINE PULK 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., EMT OF VOC)	0	0	0	0	0	0
12 CO & 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, RUBBERS & RESIN MANUFACTURE	0	0	0	0	0	0
16 SYNTHETIC FIBER MANUFACTURE	0	0	0	0	0	0
17 ORGANIC CHEMICAL MANUFACTURE	0	0	0	0	0	0
18 INORGANIC CHEMICAL MANUFACTURE	0	0	0	0	0	0
19 FERTILIZATION PROCESSES	0	0	0	0	0	0
20 VEGETABLE OIL PROCESSING	0	0	0	0	0	0
21 PLASTIC PRODUCTS MANUFACTURE	0	0	0	0	0	0
22 RUBBER TYRE MANUFACTURE	0	0	0	0	0	0
23 S. R. 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 TLEACOL PRODUCTS	0	0	0	0	0	0
27 FOOD PRODUCTS	0	0	0	0	0	0
28 TEXTILE MILL PRODUCTS	0	180	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 F. TRICATED METAL PRODUCTS	0	0	0	0	0	0
34 F. PROCESS FUEL USE	0	0	0	0	0	0
35 OTHERS - (INDUSTRIAL PROCESSES)	1	0	0	0	0	0
36 ADHESIVES	0	0	0	0	0	0
37 INV. SFC. COATING-LARGE APPLIANCES	0	0	0	0	0	0
38 INV. SFC. COATING-WAREH. WIRE	0	0	0	0	0	0
39 INV. SFC. COATING-AUTO/MOBILE	0	0	0	0	0	0
40 INV. SFC. COATING-CAVS	0	0	0	0	0	0
41 INV. SFC. COATING-METAL COILS	0	0	0	0	0	0
42 INV. SFC. COATING-PAPER	0	0	0	0	0	0
43 INV. SFC. COATING-FABRIC	0	0	0	0	0	0
44 INV. SFC. COATING-MISC. FURNITURE	0	0	0	0	0	0
45 INV. SFC. COATING-METAL/WOOD PRODUCTS	2	0	0	0	158	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 INV. SFC. COATING-MISC. METAL PRODUCTS	0	0	0	0	0	0
50 OTHERS - (INDUSTRIAL SURFACE COATING)	1	0	0	0	5	0

TABLE A-1 (continued)

GCA / TECHNOLOGY DIVISION
VERMONT POINT SOURCE EMISSIONS BY CATEGORY 1979

COUNTY: 0360

CATEGORY	POINT COUNT	----- TSP	PRIMARY SO ₂	SCC EMISSIONS NOX	(TONS/YEAR) HC	----- CO
51 DEGREASING	0	0	0	0	0	0
52 DRY CLEANING	0	0	0	0	0	0
53 GRAPHIC ARTS	0	0	0	0	0	0
54 OTHER - (SOLVENT USE)	0	0	0	0	0	0
55 ARCHITECTURAL COATINGS	0	0	0	0	0	0
56 AUTO REFINISHING	0	0	0	0	0	0
57 OTHER-IND-INDUSTRIAL SURFACE COATING	0	0	0	0	0	0
58 CRT, COPY, PLOTTERS-ELEC. GENERATION	0	0	0	0	0	0
59 CAT. COAT. PLOTTERS-INDUSTRIAL	1	150	6	42	8	5
60 EXT. COAT. PLOTTERS-COMM/INDST	4	0	2	0	0	0
61 EXT. COAT. PLOTTERS-INDUSTRIAL	0	0	0	0	0	0
62 EXT. COAT. PLOTTERS-COMM/INDST	0	0	0	0	0	0
63 OTHERS (POLLUTION)	0	0	0	0	0	0
64 SOLID WASTE DISPOSAL-GCMT.	0	0	0	0	0	0
65 SOLID WASTE DISPOSAL-COMM/INDST	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 TREATMENT 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		330	2	42	171	8

TABLE A-1 (continued)

GCA / TECHNOLOGY DIVISION
VERMONT POINT SOURCE EMISSIONS BY CATEGORY 1979

COUNTY:0360

CATEGORY	POINT COUNT	----- TSP	PRIMARY SCC	EMISSIONS SC2	NOX	(TONS/YEAR) PC	----- 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 SOLUBLE AND CRUDE OIL STORAGE	0	0	0	0	0	0	0
4 SAIF AND LARGE TRANSFER OF VOC	0	0	0	0	0	0	0
5 BRIDGE AND TANKER CLEANING	0	0	0	0	0	0	0
6 FUEL GASOLINE TERMINALS	0	0	0	0	0	0	0
7 GASOLINE BULK PLANTS	0	0	0	0	0	0	0
8 TANK TRUCK LOADING	0	0	0	0	0	0	0
9 SERVICE STATION LOADING (STAGE I)	0	0	0	0	0	0	0
10 SERVICE STATION UNLOADING (STAGE II)	0	0	0	0	0	0	0
11 OTHERS-(STORAGE, TRANS., MKT OF VOC)	0	0	0	0	0	0	0
12 FUEL 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 SER RUBBER MANUFACTURE	0	0	0	0	0	0	0
24 OTHER CHEMICAL MANUFACTURE	0	0	0	0	0	0	0
25 IRON AND STEEL MANUFACTURE	0	0	0	0	0	0	0
26 TOBACCO PRODUCTS	0	0	0	0	0	0	0
27 FOOD PRODUCTS	2	14	0	0	0	0	0
28 TEXTILE MILL PRODUCTS	0	0	0	0	0	0	0
29 LUMBER AND WOOD PRODUCTS	1	0	0	0	0	0	0
30 PAPER AND ALLIED PRODUCTS	0	0	0	0	0	0	0
31 STONE, CLAY, GLASS, CONCRETE	5	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 IRL. SFG. COATING-LARGE APPLIANCES	0	0	0	0	0	0	0
38 IRL. SFG. COATING-MAGNET WIRE	0	0	0	0	0	0	0
39 IRL. SFG. COATING-AUTOMOBILE	0	0	0	0	0	0	0
40 IRL. SFG. COATING-CANS	0	0	0	0	0	0	0
41 IRL. SFG. COATING-METAL COILS	0	0	0	0	0	0	0
42 IRL. SFG. COATING-PAPER	0	0	0	0	0	0	0
43 IRL. SFG. COATING-FABRIC	0	0	0	0	0	0	0
44 IRL. SFG. COATING-MISC. FURNITURE	0	0	0	0	0	0	0
45 IRL. SFG. COATING-METAL/WOOD PRODUCTS	2	0	0	0	0	501	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 IRL. SFG. 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.
VERMONT POINT SOURCE EMISSIONS BY CATEGORY 1979

COUNTY:0340

CATEGORY	POINT COUNT	----- TSP	PRIMARY SC2	SCC SC2	EMISSIONS NOX	(TONS/YEAR) HC	----- CO
51 DEGREASING	0	0	0	0	0	0	0
52 DRY CLEANING	0	0	0	0	0	0	0
53 GRAPHIC ARTS	0	0	0	0	0	0	0
54 OTHER - (SOLVENT USE)	0	0	0	0	0	0	0
55 ARCHITECTURAL COATINGS	0	0	0	0	0	0	0
56 AUTO PAINTING	0	0	0	0	0	0	0
57 OTHERS-(MCA-INDUSTRIAL SURFACE COATING)	0	0	0	0	0	0	0
58 EXT. COMB. BOILERS-ELEC. GENERATION	0	0	0	0	0	0	0
59 EXT. COMB. BOILERS-INDUSTRIAL	5	246	61	75	15	14	14
60 EXT. COMB. BOILERS-COMM/INST	0	0	0	0	0	0	0
61 EXT. COMB. SPACE HEATERS-INDUST.	0	0	0	0	0	0	0
62 EXT. COMB. SPACE HEATERS-COMM.	0	0	0	0	0	0	0
63 OTHERS-(FUEL COMBUSTION)	0	0	0	0	0	0	0
64 SOLID WASTE DISPOSAL-GVT.	0	0	0	0	0	0	0
65 SOLID WASTE DISPOSAL-COMM/INST	0	0	0	0	0	0	0
66 SOLID WASTE DISPOSAL-INDUSTRIAL	0	0	0	0	0	0	0
67 OTHER SOLID WASTE DISPOSAL	0	0	0	0	0	0	0
68 WASTE SOLVENT RECOVERY PROCESSES	0	0	0	0	0	0	0
69 STATIGARY INTERNAL COMBUSTION ENGINES	7	0	0	14	0	0	0
70 NOT CLASSIFIED	0	0	0	0	0	0	0
COUNTY TOTALS		261	61	89	516	14	14

TABLE A-1 (continued)

GCA / TECHNOLOGY DIVISION
VERMONT POINT SOURCE EMISSIONS BY CATEGORY 1979

COUNTY: 0420

CATEGORY	POINT COUNT	----- TSP	PRIMARY SO2	SCC EMISSIONS NOX	(TONS/YEAR) HC	----- CO
1 OIL AND GAS PRODUCTION & PROCESSING	0	0	0	0	0	0
2 SYN. ORGANIC CHEM. STORAGE & TRANSFER	0	0	0	0	0	0
3 GASOLINE AND CRUOT 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, TRANSF., MKT OF VOC)	0	0	0	0	0	0
12 LULU 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 RUBBER MANUFACTURE	0	0	0	0	0	0
24 OTHER CHEMICAL MANUFACTURE	0	0	0	0	0	0
25 IRON AND STEEL MANUFACTURE	3	1	0	0	0	0
26 CERAMIC PRODUCTS	0	0	0	0	0	0
27 FLOC PRODUCTS	0	0	0	0	0	0
28 TEXTILE MILL PRODUCTS	0	0	0	0	0	0
29 LUMBER AND WOOD PRODUCTS	4	273	0	0	28	0
30 PAPER AND ALLIED PRODUCTS	0	0	0	0	0	0
31 STONE, CLAY, GLASS, CONCRETE	15	30	0	0	0	0
32 PRIMARY & SECONDARY METALS & ELECTRICAL	2	0	0	0	0	0
33 FABRICATED METAL PRODUCTS	0	0	0	0	0	0
34 FERTILIZER FUEL USE	7	0	1	0	0	0
35 OTHERS - (INDUSTRIAL PROCESSES)	0	0	0	0	0	0
36 ADHESIVES	0	0	0	0	0	0
37 INK, SFC. COATING-LARGE APPLIANCES	0	0	0	0	0	0
38 INK, SFC. COATING-MAGNET WIRE	0	0	0	0	0	0
39 INK, SFC. COATING-AUTOMOBILE	0	0	0	0	0	0
40 INK, SFC. COATING-CANS	0	0	0	0	0	0
41 INK, SFC. COATING-METAL COILS	0	0	0	0	0	0
42 INK, SFC. COATING-PAPER	0	0	0	0	0	0
43 INK, SFC. COATING-FABRIC	0	0	0	0	0	0
44 INK, SFC. COATING-MISC. FURNITURE	0	0	0	0	0	0
45 INK, SFC. COATING-METAL/MOOD PRODUCTS	0	0	0	0	0	0
46 PLASTIC PAINTS 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 INK, SFC. COATING-MISC. METAL PRODUCTS	2	0	0	0	20	0
50 OTHERS - (INDUSTRIAL SURFACE COATING)	0	0	0	0	0	0

TABLE A-1 (continued)

SCA / TECHNOLOGY DIVISION
VERMONT POINT SOURCE EMISSIONS BY CATEGORY 1979

COUNTY:0420

CATEGORY	POINT COUNT	TSP	PRIMARY SO ₂	SCC SO ₂	NOX	HC	CC
51 DEGREASING	0	0	0	0	0	0	0
52 DRY CLEANING	1	0	0	0	0	5	0
53 GRAPHIC ARTS	0	0	0	0	0	0	0
54 OTHER - (SOLVENT USE)	0	0	0	0	0	0	0
55 ARCHITECTURAL COATINGS	0	0	0	0	0	0	0
56 AUTO REFINISHING	0	0	0	0	0	0	0
57 OTHERS-(ROCK-INDUSTRIAL SURFACE COATING)	0	0	0	0	0	0	0
58 EXT. COMB. BOILERS-ELEC. GENERATION	0	0	0	0	0	0	0
59 EXT. COMB. BOILERS-INDUSTRIAL	9	123	34	34	50	8	8
60 EXT. COMB. BOILERS-COM/INST	4	3	98	98	11	1	3
61 EXT. COMB. SPACE HEATERS-INDUST.	0	0	0	0	0	0	0
62 EXT. COMB. SPACE HEATERS-COM.	0	0	0	0	0	0	0
63 OTHERS-(FUEL COMBUSTION)	0	0	0	0	0	0	0
64 SOLID WASTE DISPOSAL-SMVT.	0	0	0	0	0	0	0
65 SOLID WASTE DISPOSAL-COM/INST	2	4	1	1	0	4	12
66 SOLID WASTE DISPOSAL-INDUSTRIAL	0	0	0	0	0	0	0
67 OTHER SOLID WASTE DISPOSAL	0	0	0	0	0	0	0
68 WASTE SOLVENT RECOVERY PROCESSES	0	0	0	0	0	0	0
69 STATIONARY INTERNAL COMBUSTION ENGINES	3	1	4	4	14	1	3
70 NOT CLASSIFIED	0	0	0	0	0	0	0
COUNTY TOTALS		432	138	138	75	67	26

TABLE A-1 (continued)

GCA / TECHNOLOGY DIVISION
VERMONT POINT SOURCE EMISSIONS BY CATEGORY 1979

COUNTY:0500

CATEGORY	POINT COUNT	----- TSP	PRIMARY SC2	SCC SC2	EMISSIONS NCH	(TONS/YEAR) HC	----- CO
1 OIL AND GAS PRODUCTION & PROCESSING	0	0	0	0	0	0	0
2 SYN. ORGANIC CHEM. STORAGE & TRANSFER	0	0	0	0	0	0	0
3 GASOLINE AND CRUDE OIL STORAGE	0	0	0	0	0	0	0
4 SHIP AND BARGE TRANSFER OF VOC	0	0	0	0	0	0	0
5 BARGE AND TANKER CLEANING	0	0	0	0	0	0	0
6 BULK GASOLINE TERMINALS	0	0	0	0	0	0	0
7 GASOLINE BULK PLANTS	0	0	0	0	0	0	0
8 TANK TRUCK LOADING	0	0	0	0	0	0	0
9 SERVICE STATION LOADING (STAGE I)	0	0	0	0	0	0	0
10 SERVICE STATION UNLOADING (STAGE II)	0	0	0	0	0	0	0
11 OTHERS-(STORAGE, TRANSP., MKT OF VOC)	0	0	0	0	0	0	0
12 LUBE OIL MANUFACTURE	0	0	0	0	0	0	0
13 PETROLEUM REFINERIES	0	0	0	0	0	0	0
14 PHARMACEUTICAL MANUFACTURE	0	0	0	0	0	0	0
15 TEXTILE POLYMERS & RESIN MANUFACTURE	0	0	0	0	0	0	0
16 SYNTHETIC FIBER MANUFACTURE	0	0	0	0	0	0	0
17 ORGANIC CHEMICAL MANUFACTURE	0	0	0	0	0	0	0
18 INORGANIC CHEMICAL MANUFACTURE	0	0	0	0	0	0	0
19 FERTILIZATION 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 SYN. 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	4	1	0	0	0	0	0
26 T. & CO. PRODUCTS	0	0	0	0	0	0	0
27 F. & CO. PRODUCTS	0	0	0	0	0	0	0
28 LUMBER MILL PRODUCTS	0	0	0	0	0	0	0
29 LUMBER AND WOOD PRODUCTS	0	0	0	0	0	0	0
30 PAPER AND ALLIED PRODUCTS	0	0	0	0	0	0	0
31 STONE, CLAY, GLASS, CONCRETE	2	13	0	0	0	0	0
32 PRIMARY & SECONDARY METALS & ELECTRICAL	0	0	0	0	0	0	0
33 FABRICATING METAL PRODUCTS	0	0	0	0	0	0	0
34 T. & CO. FULL USE	0	0	0	0	0	0	0
35 OTHERS - (INDUSTRIAL PROCESSES)	3	1	0	0	0	0	0
36 ADHESIVES	0	0	0	0	0	0	0
37 INL. SFC. COATING-LARGE APPLIANCES	0	0	0	0	0	0	0
38 INL. SFC. COATING-MAINT. WIRE	0	0	0	0	0	0	0
39 INL. SFC. COATING-AUTOMOBILE	0	0	0	0	0	0	0
40 INL. SFC. COATING-CARS	0	0	0	0	0	0	0
41 INL. SFC. COATING-METAL COILS	0	0	0	0	0	0	0
42 INL. SFC. COATING-PAPER	0	0	0	0	0	0	0
43 INL. SFC. COATING-FABRIC	0	0	0	0	0	0	0
44 INL. SFC. COATING-MISC. FURNITURE	0	0	0	0	0	0	0
45 INL. 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 INL. SFC. COATING-MISC. METAL PRODUCTS	2	0	0	0	0	6	0
50 OTHERS - (INDUSTRIAL SURFACE COATING)	1	0	0	0	0	16	0

TABLE A-1 (continued)

GCA / TECHNOLOGY DIVISION
VERMONT POINT SOURCE EMISSIONS BY CATEGORY 1979

COUNTY:0500

CATEGORY	POINT COUNT	----- TSF	PRIMARY SC2	SCC SC2	EMISSIONS NOX	(TONS/YEAR) HC	----- CO
51 DEGREASING	0	0	0	0	0	0	0
52 DRY CLEANING	0	0	0	0	0	0	0
53 GRAPHIC ARTS	0	0	0	0	0	0	0
54 OTHER - (SOLVENT USE)	0	0	0	0	0	0	0
55 ARCHITECTURAL COATINGS	0	0	0	0	0	0	0
56 AUTO PLFINISHING	0	0	0	0	0	0	0
57 OTE-PS-GOV-INDUSTRIAL SURFACE COATING)	0	0	0	0	0	0	0
58 EXT. COIN. POILERS-ELLC. GENERATION	0	0	0	0	0	0	0
59 EXT. COIN. POILERS-INDUSTRIAL	16	0	9	9	1	0	0
60 EXT. COIN. POILERS-COMM/INST	6	0	0	0	0	0	0
61 EXT. COIN. SPACE HEATERS-INDUST.	0	0	0	0	0	0	0
62 EXT. COIN. SPACE HEATERS-COMM.	0	0	0	0	0	0	0
63 OTHERS-(FUEL COMBUSTION)	0	0	0	0	0	0	0
64 SOLID WASTE DISPOSAL-GOVT.	0	0	0	0	0	0	0
65 SOLID WASTE DISPOSAL-COMM/INST	1	0	0	0	0	0	0
66 SOLID WASTE DISPOSAL-INDUSTRIAL	0	0	0	0	0	0	0
67 OTHER SOLID WASTE DISPOSAL	0	0	0	0	0	0	0
68 WASTE SOLV-RT RECOVERY PROCESSES	0	0	0	0	0	0	0
69 STATIONARY INTERNAL COMBUSTION ENGINES	1	5	14	14	67	5	15
70 NOT CLASSIFIED	0	0	0	0	0	0	0
COUNTY TOTALS		20	23	23	68	27	15

TABLE A-1 (continued)

GCA / TECHNOLOGY DIVISION
VERMONT POINT SOURCE EMISSIONS BY CATEGORY 1979

COUNTY:0520

CATEGORY	POINT COUNT	----- TSP	SCC SC2	EMISSIONS NOX	HC (TONS/YEAR)	----- 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 G-SOLUBLE 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 TENDRALS	0	0	0	0	0	0
7 G-SOLUBLE 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., MNT OF VOC)	0	0	0	0	0	0
12 LUB 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 FERTILIZER 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 STR 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 THERMO PRODUCTS	0	0	0	0	0	0
27 FOOD PRODUCTS	0	0	0	0	0	0
28 TANNERY 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)	1	0	0	0	0	0
36 ADHESIVES	0	0	0	0	0	0
37 INV. SEC. COATING-LPG. APPLIANCES	0	0	0	0	0	0
38 INV. SEC. COATING-PACKET WIRE	0	0	0	0	0	0
39 INV. SEC. COATING-AUTOMOBILE	0	0	0	0	0	0
40 INV. SEC. COATING-CANS	0	0	0	0	0	0
41 INV. SEC. COATING-METAL COILS	0	0	0	0	0	0
42 INV. SEC. COATING-PAPER	0	0	0	0	0	0
43 INV. SEC. COATING-FABRIC	0	0	0	0	0	0
44 INV. SEC. COATING-MISC. FURNITURE	0	0	0	0	0	0
45 INV. SEC. COATING-METAL/WOOD PRODUCTS	4	0	0	0	16	0
46 PLASTIC PARTS COATING	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 INV. SEC. COATING-MISC. METAL PRODUCTS	1	0	0	0	0	0
50 OTHERS - (INDUSTRIAL SURFACE COATING)	0	0	0	0	0	0

TABLE A-1 (continued)

GCA / TECHNOLOGY DIVISION
VERMONT POINT SOURCE EMISSIONS BY CATEGORY 1979

COUNTY:0560

CATEGORY	POINT COUNT	----- TSO	PRIMARY SC2	SCC EMISSIONS NOX	(TONS/YEAR) PC	----- CO
51 DEGREASING	1	0	0	0	165	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-(NO)-INDUSTRIAL SURFACE COATING)	0	0	0	0	0	0
58 EXT. COPE. BOILERS-ELEC. GENERATION	0	0	0	0	0	0
59 EXT. COPE. BOILERS-INDUSTRIAL	15	146	56	39	6	6
60 EXT. COPE. BOILERS-COMM/INST	16	2	125	16	0	2
61 EXT. COPE. SPACE HEATERS-INDUST.	0	0	0	0	0	0
62 EXT. COPE. SPACE HEATERS-COMM.	0	0	0	0	0	0
63 OTHERS-(FUEL COMBUSTION)	0	0	0	0	0	0
64 SOLID WASTE DISPOSAL-COMM.	0	0	0	0	0	0
65 SOLID WASTE DISPOSAL-COMM/INST	1	0	0	0	0	0
66 SOLID WASTE DISPOSAL-INDUSTRIAL	0	0	0	0	0	0
67 OTHER SOLID WASTE DISPOSAL	0	0	0	0	0	0
68 WASTE SOLVENT RECOVERY PROCESSES	1	0	0	0	3	0
69 STATIONARY INTERNAL COMBUSTION ENGINES	0	0	0	0	0	0
70 NOT CLASSIFIED	0	0	0	0	0	0
COUNTY TOTALS		148	181	55	201	8

TABLE A-1 (continued)

SCA / TECHNOLOGY DIVISION,
VERMONT POINT SOURCE EMISSIONS BY CATEGORY 1979

COUNTY: C620

CATEGORY	POINT COUNT	----- TSP	PRIMARY SO2	SCC SO2	EMISSIONS NCX	(TONS/YEAR) PC	----- CO
1 OIL AND GAS PRODUCTION & PROCESSING	9	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 TATION 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, TRANSF., MKT OF VOC	0	0	0	0	0	0	0
12 CRUDE 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 FERTILIZATION 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 SEA 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	11	2	0	0	0	0	0
26 TOLUENO 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	1	0	0	0	0	0	0
30 PAPER AND ALLIED PRODUCTS	0	0	0	0	0	0	0
31 STONE, CLAY, GLASS, CONCRETE	10	32	0	0	0	0	0
32 PRIMARY & SECONDARY METALS & ELECTRICAL	3	0	0	0	0	0	0
33 FABRICATED METAL PRODUCTS	1	0	0	0	0	0	0
34 IN-PROCESS FUEL USE	1	0	0	0	0	0	0
35 OTHERS - (INDUSTRIAL PROCESSES)	4	1	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-CAMS	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	6	0	0	0	0	62	0
50 OTHERS - (INDUSTRIAL SURFACE COATING)	1	0	0	0	0	79	0

TABLE A-1 (continued)

GCA / TECHNOLOGY DIVISION
VERMONT POINT SOURCE EMISSIONS BY CATEGORY 1979

COUNTY:0620

CATEGORY	POINT COUNT	----- TSP	PRIMARY SC2	SCC SC2	EMISSIONS NOX	(TONS/YEAR) HC	----- CO
51 DEGREASING	3	0	0	0	0	29	0
52 DRY CLEANING	0	0	0	0	0	0	0
53 GRAPHIC ARTS	0	0	0	0	0	0	0
54 OTHER - (SOLVENT USE)	0	0	0	0	0	0	0
55 ARCHITECTURAL COATINGS	0	0	0	0	0	0	0
56 AUTOMOBILE FINISHING	0	0	0	0	0	0	0
57 OTHERS-COM-INDUSTRIAL SURFACE COATING	0	0	0	0	0	0	0
58 EXT. COMB. BOILERS-ELEC. GENERATION	0	0	0	0	0	0	0
59 EXT. COMB. BOILERS-INDUSTRIAL	11	5	147	0	32	0	3
60 EXT. COMB. BOILERS-COM/INST	3	1	15	7	0	0	1
61 EXT. COMB. SPACE HEATERS-INDUST.	0	0	0	0	0	0	0
62 EXT. COMB. SPACE HEATERS-COMM.	0	0	0	0	0	0	0
63 OTHERS-(FUEL COMBUSTION)	0	0	0	0	0	0	0
64 SOLID WASTE DISPOSAL-CVLT.	1	0	0	0	0	0	0
65 SOLID WASTE DISPOSAL-COM/INST	0	0	0	0	0	0	0
66 SOLID WASTE DISPOSAL-INDUSTRIAL	0	0	0	0	0	0	0
67 OTHER SOLID WASTE DISPOSAL	0	0	0	0	0	0	0
68 WASTE SOLVENT RECOVERY PROCESSES	0	0	0	0	0	0	0
69 STATISTICAL INTERNAL COMBUSTION ENGINES	1	0	2	6	1	1	1
70 NOT CLASSIFIED	0	0	0	0	0	0	0
COUNTY TOTALS		41	164	45	171		5

APPENDIX B

AREA SOURCE EMISSIONS BY CATEGORY
FOR THE VERMONT COUNTIES

Table B-1 presents area source emissions, by category, for each of the Vermont counties, which are listed below.

<u>County</u>	<u>NEDS/EIS County Code</u>
Addison	0020
Bennington	0100
Caledonia	0160
Chittenden	0180
Essex	0200
Franklin	0240
Grand Isle	0260
Lamoille	0280
Orange	0360
Orleans	0380
Rutland	0420
Washington	0500
Windham	0580
Windsor	0620

TABLE B-1. COUNTY SUMMARIES OF AREA SOURCE EMISSIONS (1980) FOR VERMONT

GCA / TECHNOLOGY DIVISION AREA SOURCE MASTER FILE SUMMARY FOR VERMONT					
CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RATE	UNITS	POLLUTANT EMISSION I.D. FACTOR	EMISSIONS ESTIMATE
COUNTY:0020					
001	STAGE I GASOLINE EVAP	000009783	THOUS GAL	THC	8.35 0000041
002	STAGE II GASOLINE EVAP	000009776	THOUS GAL	THC	9.70 0000047
003	STORAGE TANK BREATHING	000009783	THOUS GAL	THC	1.00 0000005
004	GASOLINE LOADING/TRANSIT	000009783	THOUS GAL	THC	6.87 0000034
005	SM IND/COMM DEGREASING	000029420	POPULATION	THC	7.59 0000112
006	DRY CLEANING	000029420	POPULATION	NHC	1.50 0000022
007	ARCH SURFACE COATING	000029420	POPULATION	NHC	4.60 0000068
008	AUTO BODY REFINISHING	000025420	POPULATION	NHC	1.50 0000028
009	SM IND SURFACE COATING	000000002	THOUS GAL	THC	4,112.50 0000004
010	GRAPHIC ARTS	000029420	POPULATION	NHC	0.60 0000012
011	CUPM/CONS SOLVENT USE	000029420	POPULATION	NHC	6.30 0000093
012	CUTBACK ASPHALT	000000015	TON	THC	577.00 0000004
013	PESTICIDES	000010666	LES	NHC	0.90 0000005
014	ON-HIGHWAY LDV	000206300	THOUS VMT	NOX NHC	8.18 0000844 7.54 0000778
015	ON-HIGHWAY LDT1	000036753	THOUS VMT	NOX NHC	8.81 0000162 7.94 0000146
016	ON-HIGHWAY LDT2	000003219	THOUS VMT	NOX NHC	10.00 0000016 8.10 0000013

TABLE B-1 (continued)

GC4 / TECHNOLOGY DIVISION
AREA SOURCE MASTER FILE SUMMARY
FOR VERMONT

COUNTY:0020

CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RATE	UNITS	POLLUTANT I.D.	EMISSION FACTOR	EMISSIONS ESTIMATE
017	ON-HIGHWAY HDG	000005902	THOUS VMT	NOX NHC	27.89 20.67	0000082 0000061
018	ON-HIGHWAY HDD	000002414	THOUS VMT	NOX NHC	57.88 4.57	0000070 0000006
019	ON-HIGHWAY MC	000013682	THOUS VMT	NOX NHC	1.58 13.67	0000011 0000094
020	RESIDENTIAL ANTHRACITE	000000696	TON	NOX THC	3.00 2.50	0000001 0000001
021	RESIDENTIAL BITUMINOUS	000000000	TON	NOX THC	3.00 20.00	0000000 0000000
022	RESIDENTIAL RESIDUAL OIL	000000000	THOUS GAL	NOX THC	18.00 1.00	0000000 0000000
023	RESIDENTIAL DISTILLATE	000013872	THOUS GAL	NOX THC	18.00 1.00	0000125 0000007
024	RESIDENTIAL NATURAL GAS	000000040	MIL CU FT	NOX THC	80.00 8.00	0000002 0000000
025	RESIDENTIAL LPG	000001677	THOUS GAL	NOX THC	7.50 0.75	0000006 0000001
026	RESIDENTIAL WOOD	000017615	TON	NOX NPC	1.00 5.00	0000009 0000044
027	COMM/INST ANTHRACITE	000000000	TON	NOX THC	10.00 3.00	0000000 0000000
028	COMM/INST BITUMINOUS	000000000	TON	NOX THC	6.00 3.00	0000000 0000000
029	COMM/INST RESIDUAL OIL	000000713	THOUS GAL	NOX THC	60.00 1.00	0000021 0000000

TABLE B-1 (continued)

GCA / TECHNOLOGY DIVISION
AREA SOURCE MASTER FILE SUMMARY
FOR VERMONT

COUNTY:0020

CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RATE	UNITS	POLLUTANT I.D.	EMISSION FACTOR	EMISSIONS ESTIMATE
030	COMM/INST DISTILLATE OIL	000000000	THOUS GAL	NOX THC	22.00 1.00	0000000 0000000
031	COMM/INST NATURAL GAS	000000000	MIL CU FT	NOX THC	120.00 3.00	0000000 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	10.00 36.00	0000000 0000000
034	INDUSTRIAL ANTHRACITE	000000000	TON	NOX THC	18.00 0.00	0000000 0000000
035	INDUSTRIAL BITUMINOUS	000000001	TON	NOX THC	15.00 1.00	0000000 0000000
036	INDUSTRIAL RESIDUAL OIL	000001025	THOUS GAL	NOX THC	60.00 1.00	0000031 0000001
037	INDUSTRIAL DISTILLATE OIL	000000000	THOUS GAL	NOX THC	22.00 1.00	0000000 0000000
038	INDUSTRIAL NATURAL GAS	000000000	MIL CU FT	NOX THC	175.00 3.00	0000000 0000000
039	INDUSTRIAL LPG	000000000	THOUS GAL	NOX THC	11.65 0.30	0000000 0000000
040	INDUSTRIAL WOOD/OTHER	000000000	TON	NOX THC	10.00 36.00	0000000 0000000
041	MILITARY AIRCRAFT	000000000	LND/TAKE OFF	NOX THC	5.16 27.10	0000000 0000000
042	CIVIL AIRCRAFT	000023360	LND/TAKE OFF	NOX THC	0.02 0.41	0000000 0000005

TABLE B-1 (continued)

GC1 / TECHNOLOGY DIVISION
 AREA SOURCE MASTER FILE SUMMARY
 FOR VERMONT

COUNTY:0020

CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RATE	UNITS	POLLUTANT I.D.	EMISSION FACTOR	EMISSIONS ESTIMATE
043	COMMERCIAL AIRCRAFT	00000000	LND/TAKE OFF	NOX THC	13.55 24.50	0000000 0000000
044	RAILROAD LOCOMOTIVES	000000136	THOUS GAL	NOX THC	370.00 94.00	0000025 0000006
045	VESSELS - GASOLINE	000000201	THOUS GAL	NOX THC	32.72 887.06	0000003 0000069
046	VESSELS - DISTILLATE OIL	000000000	THOUS GAL	NOX THC	270.00 50.00	0000000 0000000
047	VESSELS - RESIDUAL OIL	000000000	THOUS GAL	NOX THC	270.00 50.00	0000000 0000000
048	OFF-HIGHWAY VEHICLES-GAS	000001156	THOUS GAL	NOX THC	105.45 263.94	0000061 0000153
049	OFF-HIGHWAY VEH - DIESEL	000000644	THOUS GAL	NOX THC	421.13 39.15	0000136 0000013
050	ON-SITE INCINERATION	000003751	TON	NOX THC	2.13 39.59	0000004 0000075
051	OPEN BURNING	000014378	TON	NOX THC	5.42 29.21	0000039 0000210
052	STRUCTURAL FIRES	000000036	FIRES	NOX THC	17.00 107.00	0000000 0000002
053	FIELD/SLASH BURNING	000000000	TON	NOX THC	4.00 23.50	0000000 0000000
054	FOREST FIRES	000000033	ACRE	NOX THC	43.21 261.02	0000001 0000004
999	COUNTY TOTALS			THC NHC NOX		0000014 0001370 0001649

TABLE B-1 (continued)

GCA / TECHNOLOGY DIVISION AREA SOURCE MASTER FILE SUMMARY FOR VERMONT						
CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RATE	UNITS	POLLUTANT L.D.	EMISSION FACTOR	EMISSIONS ESTIMATE
COUNTY:0100						
001	STAGE I GASOLINE EVAP	000014675	THOUS GAL	THC	8.35	0000061
002	STAGE II GASOLINE EVAP	000014665	THOUS GAL	THC	9.70	0000071
003	STORAGE TANK BREATHING	000014675	THOUS GAL	THC	1.00	0000007
004	GASOLINE LOADING/TRANSIT	000014675	THOUS GAL	THC	6.87	0000050
005	SM IND/COMM DEGREASING	000033310	POPULATION	THC	7.59	0000126
006	DRY CLEANING	000033310	POPULATION	NHC	1.50	0000025
007	ARCH SURFACE COATING	000033310	POPULATION	NHC	4.60	0000077
008	AUTO BODY REFINISHING	000033310	POPULATION	NHC	1.90	0000032
009	SM IND SURFACE COATING	000000002	THOUS GAL	THC	4.112.50	0000004
010	GRAPHIC ARTS	000033310	POPULATION	NHC	0.60	0000013
011	COMM/CONS SOLVENT USE	000033310	POPULATION	NHC	6.30	0000105
012	CUTBACK ASPHALT	000000013	TON	THC	577.00	0000004
013	PESTICIDES	000008784	LBS	NHC	0.90	0000004
014	ON-HIGHWAY LDV	000160600	THOUS VMT	NOX NHC	8.14 7.93	0000554 0000638
015	ON-HIGHWAY LDT1	000028647	THOUS VMT	NOX NHC	8.74 8.37	0000125 0000120
016	ON-HIGHWAY LDT2	000002509	THOUS VMT	NOX NHC	9.52 8.56	0000012 0000011

TABLE B-1 (continued)

CC / TECHNOLOGY DIVISION
AREA SOURCE MASTER FILE SUMMARY
FOR VERMONT

COUNTY:0100

CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RATE	UNITS	POLLUTANT I.D.	EMISSION FACTOR	EMISSIONS ESTIMATE
017	ON-HIGHWAY HDG	000004600	THOUS VMT	NOX NHC	27.58 21.82	0000063 0000050
018	ON-HIGHWAY HDD	000001882	THOUS VMT	NOX NHC	57.17 5.54	0000054 0000005
019	ON-HIGHWAY MC	000010664	THOUS VMT	NOX NHC	1.50 14.23	0000009 0000076
020	RESIDENTIAL ANTHRACITE	000001052	TON	NOX THC	3.00 2.50	0000002 0000001
021	RESIDENTIAL BITUMINOUS	000000000	TON	NOX THC	3.00 20.00	0000000 0000000
022	RESIDENTIAL RESIDUAL OIL	000000000	THOUS GAL	NOX THC	18.00 1.00	0000000 0000000
023	RESIDENTIAL DISTILLATE	000018074	THOUS GAL	NOX THC	18.00 1.00	0000163 0000009
024	RESIDENTIAL NATURAL GAS	000000052	MIL CU FT	NOX THC	80.00 8.00	0000002 0000000
025	RESIDENTIAL LPG	000001734	THOUS GAL	NOX THC	7.50 0.75	0000007 0000001
026	RESIDENTIAL WOOD	000003829	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	000000831	THOUS GAL	NOX THC	60.00 1.00	0000025 0000000

TABLE B-1 (continued)

GCA / TECHNOLOGY DIVISION
AREA SOURCE MASTER FILE SUMMARY
FOR VERMONT

COUNTY: 0100

CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RATE	UNITS	POLLUTANT I.D.	EMISSION FACTOR	EMISSIONS ESTIMATE
030	COMM/INST DISTILLATE OIL	000000000	THOUS GAL	NOX THC	22.00 1.00	0000000 0000000
031	COMM/INST NATURAL GAS	000000000	MIL CU FT	NOX THC	120.00 8.00	0000000 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	10.00 36.00	0000000 0000000
034	INDUSTRIAL ANTHRACITE	000000000	TON	NOX THC	12.00 0.00	0000000 0000000
035	INDUSTRIAL BITUMINOUS	000000001	TON	NOX THC	15.00 1.00	0000000 0000000
036	INDUSTRIAL RESIDUAL OIL	000001197	THOUS GAL	NOX THC	60.00 1.00	0000036 0000001
037	INDUSTRIAL DISTILLATE OIL	000000000	THOUS GAL	NOX THC	22.00 1.00	0000000 0000000
038	INDUSTRIAL NATURAL GAS	000000000	MIL CU FT	NOX THC	175.00 3.00	0000000 0000000
039	INDUSTRIAL LPG	000000000	THOUS GAL	NOX THC	11.65 0.30	0000000 0000000
040	INDUSTRIAL WOOD/OTHER	000000000	TON	NOX THC	10.00 36.00	0000000 0000000
041	MILITARY AIRCRAFT	000000000	LND/TAKE OFF	NOX THC	5.16 27.10	0000000 0000000
042	CIVIL AIRCRAFT	000031390	LND/TAKE OFF	NOX THC	0.02 0.41	0000000 0000000

TABLE B-1 (continued)

GCA / TECHNOLOGY DIVISION AREA SOURCE MASTER FILE SUMMARY FOR VERMONT						
COUNTY: 0100						
CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RATE	UNITS	POLLUTANT I.D.	EMISSION FACTOR	EMISSIONS ESTIMATE
043	COMMERCIAL AIRCRAFT	000000000	LND/TAKE OFF	NOX THC	13.55 24.90	0000000 0000000
044	RAILROAD LOCOMOTIVES	000000164	THOUS GAL	NOX THC	370.00 94.00	0000030 0000006
045	VESSELS - GASOLINE	000000000	THOUS GAL	NOX THC	32.72 687.06	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	270.00 50.00	0000000 0000000
048	OFF-HIGHWAY VEHICLES-GAS	000000426	THOUS GAL	NOX THC	105.45 263.94	0000022 0000056
049	OFF-HIGHWAY VEH - DIESEL	000000333	THOUS GAL	NOX THC	421.13 39.15	0000070 0000007
050	ON-SITE INCINERATION	000004514	TON	NOX THC	2.66 38.10	0000006 0000086
051	OPEN BURNING	000030998	TON	NOX THC	5.42 29.03	0000034 0000450
052	STRUCTURAL FIRES	000000051	FIRES	NOX THC	17.00 107.00	0000000 0000003
053	FIELD/SLASH BURNING	000000000	TON	NOX THC	4.00 23.50	0000000 0000000
054	FOREST FIRES	000000028	ACRE	NOX THC	43.21 261.02	0000001 0000004
999	COUNTY TOTALS			THC NHC NOX		0000955 0001166 0001366

TABLE B-1 (continued)

GCA / TECHNOLOGY DIVISION
AREA SOURCE MASTER FILE SUMMARY
FOR VERMONT

COUNTY: 0160

CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RATE	UNITS	POLLUTANT I.C.	EMISSION FACTOR	EMISSIONS ESTIMATE
001	STAGE I GASOLINE EVAP	000012229	THOUS GAL	THC	8.35	0000651
002	STAGE II GASOLINE EVAP	000012221	THOUS GAL	THC	9.70	0000059
003	STORAGE TANK BREATHING	000012229	THOUS GAL	THC	1.00	0000006
004	GASOLINE LOADING/TRANSIT	000012229	THOUS GAL	THC	6.87	0000042
005	SM IND/COMM DEGREASING	000025814	POPULATION	THC	7.59	0000098
006	DRY CLEANING	000025814	POPULATION	NHC	1.50	0000019
007	ARCH SURFACE COATING	000025814	POPULATION	NHC	4.60	0000359
008	AUTO BODY REFINISHING	000025814	POPULATION	NHC	1.50	0000025
009	SM IND SURFACE COATING	000000001	THOUS GAL	THC	4,112.50	0000002
010	GRAPHIC ARTS	000025814	POPULATION	NHC	0.80	0000010
011	COMM/CCNS SOLVENT USE	000025814	POPULATION	NHC	6.30	0000081
012	CUTBACK ASPHALT	000000015	TON	THC	577.00	0000004
013	PESTICIDES	000012548	LBS	NHC	0.90	0000006
014	ON-HIGHWAY LDV	000203392	THOUS VMT	NOX NHC	8.16 7.75	0000031 0000789
015	ON-HIGHWAY LDT1	000036235	THOUS VMT	NOX NHC	8.77 8.15	0000159 0000148
016	ON-HIGHWAY LDT2	000003174	THOUS VMT	NOX NHC	9.87 8.60	0000016 0000014

TABLE B-1 (continued)

SCA / TECHNOLOGY DIVISION
AREA SOURCE MASTER FILE SUMMARY
FOR VERMONT

COUNTY: 0160

CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RATE	UNITS	POLLUTANT I.D.	EMISSION FACTOR	EMISSIONS ESTIMATE
017	ON-HIGHWAY HDG	000005819	THOUS VMT	NOX NHC	27.87 21.11	0000381 0000061
018	ON-HIGHWAY HDD	000002380	THOUS VMT	NOX NHC	57.69 5.39	0000069 0000006
019	ON-HIGHWAY MC	000013485	THOUS VMT	NOX NHC	1.54 13.93	0000010 0000094
020	RESIDENTIAL ANTHRACITE	000001357	TON	NOX THC	3.00 2.50	0000002 0000002
021	RESIDENTIAL BITUMINOUS	000000000	TON	NOX THC	3.00 20.00	0000000 0000000
022	RESIDENTIAL RESIDUAL OIL	000000000	THOUS GAL	NOX THC	18.00 1.00	0000000 0000000
023	RESIDENTIAL DISTILLATE	000013207	THOUS GAL	NOX THC	18.00 1.00	0000115 0000007
024	RESIDENTIAL NATURAL GAS	000000254	MIL CU FT	NOX THC	80.00 8.00	0000010 0000001
025	RESIDENTIAL LPG	000001792	THOUS GAL	NOX THC	7.50 0.75	0000007 0000001
026	RESIDENTIAL WOOD	000017684	TON	NOX NHC	1.00 5.00	0000009 0000044
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	000000594	THOUS GAL	NOX THC	60.00 1.00	0000018 0000000

TABLE B-1 (continued)

GCA / TECHNOLOGY DIVISION
ARCA SOURCE MASTER FILE SUMMARY
FOR VERMONT

COUNTY:0160

CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RATE	UNITS	POLLUTANT I.O.	EMISSION FACTOR	EMISSIONS ESTIMATE
030	COMM/INST DISTILLATE OIL	000000000	THOUS GAL	NOX THC	22.00 1.00	0000000 0000000
031	COMM/INST NATURAL GAS	000000000	MIL CU FT	NOX THC	120.00 8.00	0000000 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	10.00 36.00	0000000 0000000
034	INDUSTRIAL ANTHRACITE	000000000	TON	NOX THC	18.00 0.00	0000000 0000000
035	INDUSTRIAL BITUMINOUS	000000001	TON	NOX THC	15.00 1.00	0000000 0000000
036	INDUSTRIAL RESIDUAL OIL	000000854	THOUS GAL	NOX THC	60.00 1.00	0000026 0000000
037	INDUSTRIAL DISTILLATE OIL	000000000	THOUS GAL	NOX THC	22.00 1.00	0000000 0000000
038	INDUSTRIAL NATURAL GAS	000000000	MIL CU FT	NOX THC	175.00 3.00	0000000 0000000
039	INDUSTRIAL LPG	000000000	THOUS GAL	NOX THC	11.65 0.30	0000000 0000000
040	INDUSTRIAL WOOD/OTHER	000000000	TON	NOX THC	10.00 36.00	0000000 0000000
041	MILITARY AIRCRAFT	000000000	LND/TAKE OFF	NOX THC	9.16 27.10	0000000 0000000
042	CIVIL AIRCRAFT	000009490	LND/TAKE OFF	NOX THC	0.02 0.41	0000000 0000002

TABLE B-1 (continued)

SC1 / TECHNOLOGY DIVISION
AREA SOURCE MASTER FILE SUMMARY
FOR VERMONT

COUNTY:0160

CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RATE	UNITS	POLLUTANT I.D.	EMISSION FACTOR	EMISSIONS ESTIMATE
043	COMMERCIAL AIRCRAFT	00000000	LJD/TAKE OFF	NOX THC	13.55 24.50	0000000 0000000
044	RAILROAD LOCOMOTIVES	000000300	THOUS GAL	NOX THC	370.00 94.00	0000056 0000014
045	VESSELS - GASOLINE	000000040	THOUS GAL	NOX THC	32.72 887.06	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	270.00 50.00	0000000 0000000
048	OFF-HIGHWAY VEHICLES-GAS	000000529	THOUS GAL	NOX THC	105.45 263.54	0000026 0000070
049	OFF-HIGHWAY VEH - DIESEL	000000556	THOUS GAL	NOX THC	421.13 39.15	0000117 0000011
050	ON-SITE INCINERATION	000003295	TON	NOX THC	2.43 40.06	0000004 0000066
051	OPEN BURNING	000012621	TON	NOX THC	5.55 29.50	0000035 0000183
052	STRUCTURAL FIRES	000000042	FIRES	NOX THC	17.00 107.00	0000000 0000002
053	FIELD/SLASH BURNING	000000000	TON	NOX THC	4.00 23.50	0000000 0000000
054	FOREST FIRES	000000040	ACRE	NOX THC	43.21 261.02	0000001 0000005
999	COUNTY TOTALS			THC NHC NOX		0000644 0001356 0001599

TABLE B-1 (continued)

GCA / TECHNOLOGY DIVISION
AREA SOURCE MASTER FILE SUMMARY
FOR VERMONT

COUNTY:0160

CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RATE	UNITS	POLLUTANT EMISSION I.D. FACTOR	EMISSIONS ESTIMATE
001	STAGE I GASOLINE EVAP	000051364	THOUS GAL	THC	8.35 0000214
002	STAGE II GASOLINE EVAP	000051328	THOUS GAL	THC	9.70 0000249
003	STORAGE TANK BREATHING	000051364	THOUS GAL	THC	1.00 0000026
004	GASOLINE LOADING/TRANSIT	000051364	THOUS GAL	THC	6.67 0000176
005	SM IND/COMM DEGREASING	000115598	POPULATION	THC	7.59 0000439
006	DRY CLEANING	000115598	POPULATION	NHC	1.50 0000087
007	ARCH SURFACE COATING	000115598	POPULATION	NHC	4.60 0000266
008	AUTO BODY REFINISHING	000115598	POPULATION	NHC	1.90 0000110
009	SM IND SURFACE COATING	000000005	THOUS GAL	THC	4,112.50 0000012
010	GRAPHIC ARTS	000115598	POPULATION	NHC	0.80 0000046
011	COMM/CONS SOLVENT USE	000115596	POPULATION	NHC	6.30 0000364
012	CUTEACK ASPHALT	000000017	TON	THC	577.00 0000005
013	PESTICIDES	000002510	LBS	NHC	0.90 0000001
014	ON-HIGHWAY LDV	000233431	THOUS VMT	NOX NHC	6.12 0000546 8.27 0000966
015	ON-HIGHWAY LDT1	000041587	THOUS VMT	NOX NHC	8.68 0000181 8.68 0000181
016	ON-HIGHWAY LDT2	000003643	THOUS VMT	NOX NHC	9.51 0000018 9.33 0000017

TABLE B-1 (continued)

GCA / TECHNOLOGY DIVISION AREA SOURCE MASTER FILE SUMMARY FOR VERMONT						
COUNTY: 0180						
CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RATE	UNITS	POLLUTANT I.D.	EMISSION FACTOR	EMISSIONS ESTIMATE
017	OR-HIGHWAY HDG	000006678	THOUS VMT	NOX NHC	27.29 22.72	0000991 0000076
018	ON-HIGHWAY HDD	000002732	THOUS VMT	NOX NHC	57.02 6.17	0000378 0000006
019	ON-HIGHWAY MC	000015481	THOUS VMT	NOX NHC	1.50 14.67	0000012 0000114
020	RESIDENTIAL ANTHRACITE	000000910	TON	NOX THC	3.00 2.50	0000001 0000001
021	RESIDENTIAL BITUMINOUS	000000000	TON	NOX THC	3.00 20.00	0000000 0000000
022	RESIDENTIAL RESIDUAL OIL	000000000	THOUS GAL	NOX THC	18.00 1.00	0000000 0000000
023	RESIDENTIAL DISTILLATE	000046409	THOUS GAL	NOX THC	18.00 1.00	0000418 0000023
024	RESIDENTIAL NATURAL GAS	000003772	MIL CU FT	NOX THC	60.00 8.00	0000151 0000015
025	RESIDENTIAL LPG	000004426	THOUS GAL	NOX THC	7.50 0.75	0000017 0000002
026	RESIDENTIAL WOOD	000009330	TON	NOX NHC	1.00 5.00	0000005 0000023
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	000002731	THOUS GAL	NOX THC	60.00 1.00	0000082 0000001

TABLE B-1 (continued)

GCA / TECHNOLOGY DIVISION AREA SOURCE MASTER FILE SUMMARY FOR VERMONT							
COUNTY:0180		CATEGORY	CATEGORY DESCRIPTION	PROCESS RATE	UNITS	POLLUTANT EMISSION I.D. FACTOR	EMISSIONS ESTIMATE
030	COMM/INST DISTILLATE OIL	000000000	THOUS GAL			NOX THC	0000000 1.00 0000000
031	COMM/INST NATURAL GAS	000000000	MIL CU FT			NOX THC	120.00 8.00 0000000
032	COMM/INST LPG	000000000	THOUS GAL			NOX THC	11.00 0.75 0000000
033	COMM/INST WOOD/OTHER	000000000	TON			NOX THC	10.00 36.00 0000000
034	INDUSTRIAL ANTHRACITE	000000000	TON			NOX THC	18.00 0.00 0000000
035	INDUSTRIAL BITUMINOUS	000000003	TON			NOX THC	15.00 1.00 0000000
036	INDUSTRIAL RESIDUAL OIL	000003931	THOUS GAL			NOX THC	60.00 1.00 0000118 0000002
037	INDUSTRIAL DISTILLATE OIL	000000000	THOUS GAL			NOX THC	22.00 1.00 0000000
038	INDUSTRIAL NATURAL GAS	000000000	MIL CU FT			NOX THC	175.00 3.00 0000000
039	INDUSTRIAL LPG	000000000	THOUS GAL			NOX THC	11.65 0.30 0000000
040	INDUSTRIAL WOOD/OTHER	000000000	TON			NOX THC	10.00 36.00 0000000
041	MILITARY AIRCRAFT	000005222	LND/TAKE OFF			NOX THC	9.16 27.10 0000042 0000125
042	CIVIL AIRCRAFT	000081760	LND/TAKE OFF			NOX THC	0.02 0.41 0000001 0000017

TABLE B-1 (continued)

GCA / TECHNOLOGY DIVISION AREA SOURCE MASTER FILE SUMMARY FOR VERMONT						
CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RATE	UNITS	POLLUTANT I.D.	EMISSION FACTOR	EMISSIONS ESTIMATE
043	COMMERCIAL AIRCRAFT	000006345	LND/TAKE OFF	NOX THC	13.55 24.90	0000043 0000079
044	RAILROAD LOCOMOTIVES	000000219	THOUS GAL	NOX THC	370.00 94.00	0000041 0000010
045	VESSELS - GASOLINE	000000463	THOUS GAL	NOX THC	32.72 887.06	0000006 0000205
046	VESSELS - DISTILLATE OIL	000000000	THOUS GAL	NOX THC	270.00 50.00	0000000 0000000
047	VESSELS - RESIDUAL OIL	000000000	THOUS GAL	NOX THC	270.00 50.00	0000000 0000000
048	OFF-HIGHWAY VEHICLES-GAS	000001420	THOUS GAL	NOX THC	105.45 263.94	0000075 0000187
049	OFF-HIGHWAY VEH - DIESEL	000010622	THOUS GAL	NOX THC	421.13 39.15	0002237 0000208
050	ON-SITE INCINERATION	000015381	TON	NOX THC	2.34 38.75	0000018 0000296
051	OPEN BURNING	000057317	TON	NOX THC	5.51 29.03	0000158 0000832
052	STRUCTURAL FIRES	000000109	FIRES	NOX THC	17.00 107.00	0000001 0000005
053	FIELD/SLASH BURNING	000000000	TON	NOX THC	4.00 23.50	0000000 0000000
054	FOREST FIRES	000000009	ACRE	NOX THC	43.21 261.02	0000000 0000001
999	COUNTY TOTALS			THC 4HC NOX		0003133 0002259 0004744

TABLE B-1 (continued)

GCA / TECHNOLOGY DIVISION
AREA SOURCE MASTER FILE SUMMARY
FOR VERMONT

COUNTY:0200

CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RATE	UNITS	POLLUTANT I.D.	EMISSION FACTOR	EMISSIONS ESTIMATE
001	STAGE I GASOLINE EVAP	000002446	THOUS GAL	THC	8.35	0000010
002	STAGE II GASOLINE EVAP	000002444	THOUS GAL	THC	9.70	0000012
003	STORAGE TANK BREATHING	000002446	THOUS GAL	THC	1.00	0000001
004	GASOLINE LOADING/TRANSPIT	000002446	THOUS GAL	THC	6.67	0000008
005	SM IND/COMM DEGREASING	000006300	POPULATION	THC	7.59	0000024
006	DRY CLEANING	000006300	POPULATION	NHC	1.50	0000005
007	ARCH SURFACE COATING	000006300	POPULATION	NHC	4.60	0000014
008	AUTO BODY REFINISHING	000006300	POPULATION	NHC	1.90	0000006
009	SM IND SURFACE COATING	000000000	THOUS GAL	THC	4.112.50	0000000
010	GRAPHIC ARTS	000006300	POPULATION	NHC	0.80	0000003
011	COMM/CONS SOLVENT USE	000006300	POPULATION	NHC	6.30	0000020
012	CUTBACK ASPHALT	000000009	TGN	THC	577.00	0000003
013	PESTICIDES	000062741	LBS	NHC	0.90	0000028
014	ON-HIGHWAY LDV	000105006	THOUS VMT	NOX NHC	8.22 7.05	0000432 0000370
015	ON-HIGHWAY LDT1	000018707	THOUS VMT	NOX NHC	8.84 7.48	0000083 0000070
016	ON-HIGHWAY LDT2	000001639	THOUS VMT	NOX NHC	10.26 7.32	0000008 0000006

TABLE B-1 (continued)

GCA / TECHNOLOGY DIVISION AREA SOURCE MASTER FILE SUMMARY FOR VERMONT						
CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RATE	UNITS	POLLUTANT EMISSION I.D.	EMISSION FACTOR	EMISSIONS ESTIMATE
COUNTY: 2200						
017	ON-HIGHWAY HDG	000033064	THOUS VMT	NOX NHC	26.60 18.71	0000043 0000028
018	ON-HIGHWAY HDD	000001229	THOUS VMT	NOX NHC	58.80 4.57	0000036 0000003
019	ON-HIGHWAY MC	000006964	THOUS VMT	NOX NHC	1.49 12.92	0000005 0000045
020	RESIDENTIAL ANTHRACITE	000000000	TON	NOX THC	3.00 2.50	0000000 0000000
021	RESIDENTIAL BITUMINOUS	000000000	TON	NOX THC	3.00 20.00	0000000 0000000
022	RESIDENTIAL RESIDUAL OIL	000000000	THOUS GAL	NOX THC	18.00 1.00	0000000 0000000
023	RESIDENTIAL DISTILLATE	000003486	THOUS GAL	NOX THC	18.00 1.00	0000031 0000002
024	RESIDENTIAL NATURAL GAS	000000000	MIL CU FT	NOX THC	80.00 8.00	0000000 0000000
025	RESIDENTIAL LPG	000000521	THOUS GAL	NOX THC	7.50 0.75	0000002 0000000
026	RESIDENTIAL WOOD	0000008564	TON	NOX NHC	1.00 5.00	0000004 0000021
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	000000119	THOUS GAL	NOX THC	60.00 1.00	0000004 0000000

TABLE B-1 (continued)

GCA / TECHNOLOGY DIVISION AREA SOURCE MASTER FILE SUMMARY FOR VERMONT						
COUNTY:0200						
CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RATE	UNITS	POLLUTANT I.D.	EMISSION FACTOR	EMISSIONS ESTIMATE
030	COMM/INST DISTILLATE OIL	000000000	THOUS GAL	NOX THC	22.00 1.00	0000000 0000000
031	COMM/INST NATURAL GAS	000000000	MIL CU FT	NOX THC	120.00 8.00	0000000 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	10.00 36.00	0000000 0000000
034	INDUSTRIAL ANTHRACITE	000000000	TON	NOX THC	10.00 0.00	0000000 0000000
035	INDUSTRIAL BITUMINOUS	000000000	TON	NOX THC	15.00 1.00	0000000 0000000
036	INDUSTRIAL RESIDUAL OIL	000000171	THOUS GAL	NOX THC	60.00 1.00	0000005 0000000
037	INDUSTRIAL DISTILLATE OIL	000000000	THOUS GAL	NOX THC	22.00 1.00	0000000 0000000
038	INDUSTRIAL NATURAL GAS	000000000	MIL CU FT	NOX THC	175.00 3.00	0000000 0000000
039	INDUSTRIAL LPG	000000000	THOUS GAL	NOX THC	11.65 0.30	0000000 0000000
040	INDUSTRIAL WOOD/OTHER	000000000	TON	NOX THC	10.00 36.00	0000000 0000000
041	MILITARY AIRCRAFT	000000000	LND/TAKE OFF	NOX THC	9.16 27.10	0000000 0000000
042	CIVIL AIRCRAFT	000000290	LND/TAKE OFF	NOX THC	0.02 0.41	0000000 0000001

TABLE B-1 (continued)

GCA / TECHNOLOGY DIVISION AREA SOURCE MASTER FILE SUMMARY FOR VERMONT						
CATEGORY		CATEGORY	PROCESS	POLLUTANT	EMISSION	EMISSIONS
NUMBER	DESCRIPTION	RATE	UNITS	I.D.	FACTOR	ESTIMATE
043	COMMERCIAL AIRCRAFT	000000000	LND/TAKE OFF	NOX	13.55	0000000
				THC	24.90	0000000
044	RAILROAD LOCOMOTIVES	000000136	THOUS GAL	NOX	370.00	0000025
				THC	94.00	0000006
045	VESSELS - GASOLINE	000000040	THOUS GAL	NOX	32.72	0000001
				THC	867.06	0000018
046	VESSELS - DISTILLATE OIL	000000000	THOUS GAL	NOX	270.00	0000000
				THC	50.00	0000000
047	VESSELS - RESIDUAL OIL	000000000	THOUS GAL	NOX	270.00	0000000
				THC	50.00	0000000
048	OFF-HIGHWAY VEHICLES-GAS	000000162	THOUS GAL	NOX	105.45	0000009
				THC	263.94	0000021
049	OFF-HIGHWAY VEH - DIESEL	000000124	THOUS GAL	NOX	421.13	0000026
				THC	39.15	0000002
050	ON-SITE INCINERATION	000000871	TON	NOX	2.30	0000001
				THC	39.04	0000017
051	OPEN BURNING	000003165	TON	NOX	5.06	0000008
				THC	28.44	0000045
052	STRUCTURAL FIRES	000000017	FIRES	NOX	17.00	0000000
				THC	107.00	0000001
053	FIELD/SLASH BURNING	000000000	TON	NOX	4.00	0000000
				THC	23.50	0000000
054	FOREST FIRES	0000000200	ACRE	NOX	43.21	0000004
				THC	261.02	0000026
999	COUNTY TOTALS			THC		0000197
				NHC		0000619
				NOX		0000727

TABLE B-1 (continued)

GCA / TECHNOLOGY DIVISION
AREA SOURCE MASTER FILE SUMMARY
FOR VERMONT

COUNTY:0240

CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RATE	UNITS	POLLUTANT I.D.	EMISSION FACTOR	EMISSIONS ESTIMATE
001	STAGE I GASOLINE EVAP	000012229	THOUS GAL	THC	8.35	0000051
002	STAGE II GASOLINE EVAP	000012221	THOUS GAL	THC	9.70	0000059
003	STORAGE TANK BREATHING	000012229	THOUS GAL	THC	1.00	0000006
004	GASOLINE LOADING/TRANSIT	000012229	THOUS GAL	THC	6.87	0000042
005	SM IND/COMM DEGREASING	000034800	POPULATION	THC	7.59	0000132
006	DRY CLEANING	000034800	POPULATION	NHC	1.50	0000026
007	ARCH SURFACE COATING	000034800	POPULATION	NPC	4.60	0000080
008	AUTO BODY REFINISHING	000034800	POPULATION	NHC	1.90	0000033
009	SM IND SURFACE COATING	000000002	THOUS GAL	THC	4,112.50	0000004
010	GRAPHIC ARTS	000034800	POPULATION	NPC	0.80	0000014
011	COMM/CONS SOLVENT USE	000034800	POPULATION	NHC	6.30	0000110
012	CUTEACK ASPHALT	000000015	TON	THC	577.00	0000004
013	PESTICIDES	000008784	LBS	NHC	0.90	0000004
014	ON-HIGHWAY LDV	000211631	THOUS VMT	NOX NHC	8.18 7.62	0000466 0000007
015	ON-HIGHWAY LDT1	000037703	THOUS VMT	NOX NHC	8.77 8.02	0000165 0000151
016	ON-HIGHWAY LDT2	000003302	THOUS VMT	NOX NHC	9.97 8.51	0000016 0000014

TABLE B-1 (continued)

SCS / TECHNOLOGY DIVISION AREA SOURCE MASTER FILE SUMMARY FOR VERMONT						
CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RATE	UNITS	POLLUTANT I.D.	EMISSION FACTOR	EMISSIONS ESTIMATE
COUNTY: 0240						
017	ON-HIGHWAY HDG	000000054	THOUS VMT	NOX NHC	27.90 20.82	0000085 0000063
018	ON-HIGHWAY HDD	000002477	THOUS VMT	NOX NHC	57.38 5.51	0000071 0000007
019	ON-HIGHWAY MC	000014035	THOUS VMT	NOX NHC	1.54 13.70	0000011 0000097
020	RESIDENTIAL ANTHRACITE	000001741	TON	NOX THC	3.00 2.50	0000003 0000002
021	RESIDENTIAL BITUMINOUS	000000000	TON	NOX THC	3.00 20.00	0000000 0000000
022	RESIDENTIAL RESIDUAL OIL	000000000	THOUS GAL	NOX THC	18.00 1.00	0000000 0000000
023	RESIDENTIAL DISTILLATE	000010784	THOUS GAL	NOX THC	18.00 1.00	0000151 0000000
024	RESIDENTIAL NATURAL GAS	000000465	MIL CU FT	NOX THC	80.00 8.00	0000019 0000002
025	RESIDENTIAL LPG	000001589	THOUS GAL	NOX THC	7.50 0.75	0000006 0000001
026	RESIDENTIAL WOOD	000014500	TON	NOX NHC	1.00 5.00	0000007 0000037
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	000000031	THOUS GAL	NOX THC	60.00 1.00	0000025 0000000

TABLE B-1 (continued)

GCA / TECHNOLOGY DIVISION AREA SOURCE MASTER FILE SUMMARY FOR VERMONT							
CATEGORY		CATEGORY DESCRIPTION	PROCESS RATE	UNITS	POLLUTANT I.D.	EMISSION FACTOR	EMISSIONS ESTIMATE
030	COMM/INST	DISTILLATE OIL	000000000	THOUS GAL	NOX THC	22.00 1.00	0000000 0000000
031	COMM/INST	NATURAL GAS	000000000	MIL CU FT	NOX THC	120.00 8.00	0000000 0000000
032	COMM/INST	LPG	000000000	THOUS GAL	NOX THC	11.00 0.75	0000000 0000000
033	COMM/INST	WOOL/OTHER	000000000	TON	NOX THC	10.00 36.00	0000000 0000000
034	INDUSTRIAL	ANTHRACITE	000000000	TON	NOX THC	18.00 0.00	0000000 0000000
035	INDUSTRIAL	BITUMINOUS	000000001	TON	NOX THC	15.00 1.00	0000000 0000000
036	INDUSTRIAL	RESIDUAL OIL	000001197	THOUS GAL	NOX THC	60.00 1.00	0000036 0000001
037	INDUSTRIAL	DISTILLATE OIL	000000000	THOUS GAL	NOX THC	22.00 1.00	0000000 0000000
038	INDUSTRIAL	NATURAL GAS	000000000	MIL CU FT	NOX THC	175.00 3.00	0000000 0000000
039	INDUSTRIAL	LPG	000000000	THOUS GAL	NOX THC	11.65 0.30	0000000 0000000
040	INDUSTRIAL	WOOD/OTHER	000000000	TON	NOX THC	10.00 36.00	0000000 0000000
041	MILITARY	AIRCRAFT	000000000	LND/TAKE OFF	NOX THC	9.16 27.10	0000000 0000000
042	CIVIL	AIRCRAFT	000017520	LND/TAKE OFF	NOX THC	0.02 0.41	0000000 0000004

TABLE B-1 (continued)

GC : / TECHNOLOGY DIVISION AREA SOURCE MASTER FILE SUMMARY FOR VERMONT						
COUNTY:0240						
CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RATE	UNITS	POLLUTANT I.D.	EMISSION FACTOR	EMISSIONS ESTIMATE
043	COMMERCIAL AIRCRAFT	000000000	LBS/TAKE OFF	NOX	13.55	0000000
				THC	24.90	0000000
044	RAILROAD LOCOMOTIVES	000000329	THOUS GAL	NOX	370.00	0000001
				THC	94.00	0000015
045	VESSELS - GASOLINE	000000262	THOUS GAL	NOX	32.72	0000004
				THC	687.06	0000116
046	VESSELS - DISTILLATE OIL	000000000	THOUS GAL	NOX	270.00	0000000
				THC	50.00	0000000
047	VESSELS - RESIDUAL OIL	000000000	THOUS GAL	NOX	270.00	0000000
				THC	50.00	0000000
048	OFF-HIGHWAY VEHICLES-GAS	000001122	THOUS GAL	NOX	105.45	0000059
				THC	263.94	0000148
049	OFF-HIGHWAY VEH - DIESEL	000000611	THOUS GAL	NOX	421.13	0000129
				THC	39.15	0000012
050	ON-SITE INCINERATION	000004347	TON	NOX	2.27	0000005
				THC	40.33	0000087
051	OPEN BURNING	000016956	TON	NOX	5.54	0000047
				THC	29.13	0000247
052	STRUCTURAL FIRES	000000056	FIRES	NOX	17.00	0000000
				THC	107.00	0000003
053	FIELD/SLASH BURNING	000000000	TON	NOX	4.00	0000000
				THC	23.50	0000000
054	FOREST FIRES	000000026	ACRE	NOX	43.21	0000001
				THC	261.02	0000004
999	COUNTY TOTALS			THC		0000548
				NHC		0001443
				NOX		0001767

TABLE B-1 (continued)

6CA / TECHNOLOGY DIVISION
AREA SOURCE PASTIR FILE SUMMARY
FOR VERMONT

COUNTY:0260

CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RATE	UNITS	POLLUTANT EMISSION I.D.	EMISSION FACTOR	EMISSIONS ESTIMATE
001	STAGE 1 GASOLINE EVAP	000002446	THOUS GAL	THC	8.25	0000010
002	STAGE 11 GASOLINE EVAP	000002444	THOUS GAL	THC	9.70	0000012
003	STORAGE TANK BREATHING	000002446	THOUS GAL	THC	1.00	0000001
004	GASOLINE LOADING/TRANSIT	000002446	THOUS GAL	THC	6.87	0000006
005	SM IND/COMM DEGREASING	000004593	POPULATION	THC	7.59	0000017
006	DRY CLEANING	000004593	POPULATION	NHC	1.50	0000003
007	ARCH SURFACE COATING	000004593	POPULATION	NHC	4.40	0000011
008	AUTO BODY REFINISHING	000004593	POPULATION	NHC	1.90	0000004
009	SM IND SURFACE COATING	000000000	THOUS GAL	THC	4,112.50	0000000
010	GRAPHIC ARTS	000004593	POPULATION	NHC	0.80	0000002
011	COMM/COMS SOLVENT USE	000004593	POPULATION	PHC	6.30	0000014
012	CUTBACK ASPHALT	000000002	TON	THC	577.00	0000001
013	PESTICIDES	000002741	LBS	NHC	0.90	0000028
014	ON-HIGHWAY LDV	000041055	THOUS VMT	NOX NHC	8.41 7.41	0000173 0000152
015	CR-HIGHWAY LDY1	000007314	THOUS VMT	NOX NHC	9.00 7.79	0000033 0000029
016	ON-HIGHWAY LDY2	000000541	THOUS VMT	NOX NHC	8.76 8.76	0000002 0000003

TABLE B-1 (continued)

6CA / TECHNOLOGY DIVISION
AREA SOURCE FASTER FILE SUMMARY
FOR VERMONT

COUNTY:0260

CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RATE	UNITS	POLLUTANT EMISSION I.D.	EMISSIONS FACTOR	EMISSIONS ESTIMATE
017	ON-HIGHWAY HDG	000001174	THOUS VMT	NOX NHC	29.41 19.63	0000017 0000012
018	ON-HIGHWAY HDG	0000000460	THOUS VMT	NOX NHC	60.22 3.34	0000014 0000001
019	ON-HIGHWAY MC	000002722	THOUS VMT	NOX NHC	1.18 13.57	0000002 0000018
020	RESIDENTIAL ANTHRACITE	0000000000	TON	NOX THC	3.00 2.50	0000003 0000000
021	RESIDENTIAL BITUMINOUS	0000000000	TON	NOX THC	3.00 20.00	0000000 0000000
022	RESIDENTIAL RESIDUAL OIL	0000000000	THOUS GAL	NOX THC	18.00 1.00	0000000 0000000
023	RESIDENTIAL DISTILLATE	000001833	THOUS GAL	NOX THC	18.00 1.00	0000016 0000001
024	RESIDENTIAL NATURAL GAS	0000000000	MIL CU FT	NOX THC	80.00 8.00	0000000 0000000
025	RESIDENTIAL LPC	0000000216	THOUS GAL	NOX THC	7.50 0.75	0000001 0000000
026	RESIDENTIAL WOOD	0000000000	TON	NOX NHC	1.00 5.00	0000000 0000000
027	COMM/INST ANTHRACITE	0000000000	TON	NOX THC	10.00 0.00	0000000 0000000
028	COMM/INST BITUMINOUS	0000000000	TON	NOX THC	6.00 3.00	0000000 0000000
029	COMM/INST RESIDUAL OIL	0000000119	THOUS GAL	NOX THC	60.00 1.00	0000004 0000000

TABLE B-1 (continued)

602 / TECHNOLOGY DIVISION
AREA SOURCE MASTER FILE SUMMARY
FOR VERMONT

COUNTY: 0260

CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RATE	UNITS	POLLUTANT I.E.	EMISSION FACTOR	EMISSIONS ESTIMATE
030	COMM/INST DISTILLATE OIL	000000000	THOUS GAL	NOX THC	22.00 1.00	0000000 0000000
031	COMM/INST NATURAL GAS	000000000	MIL CU FT	NOX THC	120.00 8.00	0000000 0000000
032	COMM/INST LPG	000000000	THOUS GAL	NOX THC	11.90 0.75	0000000 0000000
033	COMM/INST WOOD/OTHER	000000000	TON	NOX THC	10.00 36.00	0000000 0000000
034	INDUSTRIAL ANTHRACITE	000000000	TON	NOX THC	18.00 0.00	0000000 0000000
035	INDUSTRIAL BITUMINOUS	000000000	TON	NOX THC	15.00 1.00	0000000 0000000
036	INDUSTRIAL RESIDUAL OIL	000000000	THOUS GAL	NOX THC	60.00 1.00	0000000 0000000
037	INDUSTRIAL DISTILLATE OIL	000000000	THOUS GAL	NOX THC	22.00 1.00	0000000 0000000
038	INDUSTRIAL NATURAL GAS	000000000	MIL CU FT	NOX THC	175.00 3.00	0000000 0000000
039	INDUSTRIAL LPG	000000000	THOUS GAL	NOX THC	11.65 0.30	0000000 0000000
040	INDUSTRIAL WOOD/OTHER	000000000	TON	NOX THC	10.00 36.00	0000000 0000000
041	MILITARY AIRCRAFT	000000000	LND/TAKE OFF	NOX THC	9.16 27.10	0000000 0000000
042	CIVIL AIRCRAFT	000000000	LND/TAKE OFF	NOX THC	0.92 0.41	0000000 0000000

TABLE B-1 (continued)

CCA / TECHNOLOGY DIVISION
APEA SOURCE MASTER FILE SUMMARY
FOR VERMONT

COUNTY: 0260

CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RATE	UNITS LND/TAKE OFF	POLLUTANT I.D.	EMISSION FACTOR	EMISSIONS ESTIMATE
043	COMMERCIAL AIRCRAFT	000000000		NOX THC	13.55 24.90	0000000 0000000
044	RAILROAD LOCOMOTIVES	000000027	THOUS GAL	NOX THC	370.00 94.30	0000005 0000001
045	VESSELS - GASOLINE	000000626	THOUS GAL	NOX THC	32.72 887.06	0000010 0000276
046	VESSELS - DISTILLATE OIL	000000000	THOUS GAL	NOX THC	270.00 50.00	0000000 0000000
047	VESSELS - RESIDUAL OIL	000000000	THOUS GAL	NOX THC	270.00 50.00	0000000 0000000
048	OFF-HIGHWAY VEHICLES-GAS	000000147	THOUS GAL	NOX THC	105.45 263.94	0000008 0000019
049	OFF-HIGHWAY VEH - DIESEL	000000066	THOUS GAL	NOX THC	421.13 39.15	0000014 0000001
050	ON-SITE INCINERATION	000000539	TON	NOX THC	3.71 44.53	0000001 0000012
051	OPEN BURNING	000002185	TON	NOX THC	5.49 29.29	0000005 0000032
052	STRUCTURAL FIRES	000000008	FIRES	NOX THC	17.00 107.00	0000000 0000000
053	FILL/SLASH BURNING	000000000	TON	NOX THC	4.00 23.50	0000000 0000000
054	FOREST FIRES	000000200	ACRE	NOX THC	43.21 261.02	0000004 0000026
999	COUNTY TOTALS			THC THC NGX		0000420 0000277 0000316

TABLE B-1 (continued)

CCA / TECHNOLOGY DIVISION
AREA SOURCE MASTER FILE SUMMARY
FOR VERMONT

COUNTRY:0260

CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RATE	UNITS	POLLUTANT I.D.	EMISSION FACTOR	EMISSIONS ESTIMATE
001	STAGE I GASOLINE EVAP	000007337	THOUS GAL	THC	8.35	0000031
002	STAGE II GASOLINE LVAP	000007332	THOUS GAL	THC	9.70	0000036
003	STORAGE TANK BREATHING	000007337	THOUS GAL	THC	1.00	0000004
004	GASOLINE LOADING/TRANSIT	000007337	THOUS GAL	THC	6.27	0000025
005	SP. INK/COMM DEGREASING	000016769	POPULATION	THC	7.59	0000064
006	DRY CLEANING	000016769	POPULATION	THC	1.50	0000013
007	ARCH SURFACE COATING	000016769	POPULATION	NHC	4.60	0000039
008	AUTO BODY REFINISHING	000016769	POPULATION	NHC	1.90	0000015
009	SP. INK SURFACE COATING	000000001	THOUS GAL	THC	4,112.50	0000062
010	GRAPHIC ARTS	000016769	POPULATION	NHC	0.40	0000007
011	COMM/CONS SOLVENT USE	000016769	POPULATION	NHC	6.30	0000053
012	CUTBACK ASPHALT	000000009	TON	THC	577.90	0000033
013	PESTICIDES	000020705	LBS	NHC	0.40	0000009
014	ON-HIGHWAY LDV	000120495	THOUS VMT	NOX NHC	8.20 7.43	0000494 0000444
015	ON-HIGHWAY LDY1	000021467	THOUS VMT	NOX NHC	8.79 7.85	0000094 0000064
016	ON-HIGHWAY LDY2	000001480	THOUS VMT	NOX NHC	10.25 8.54	0000010 0000068

TABLE B-1 (continued)

GC / TECHNOLOGY DIVISION
AREA SOURCE MASTER FILE SUMMARY
FOR VERMONT

COUNTY:0280

CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RAIL	UNITS	POLLUTANT I.D.	EMISSION FACTOR	EMISSIONS ESTIMATE
017	ON-HIGHWAY FOG	000002447	THOUS VMT	NOX NHC	28.18 20.26	0000049 0000035
018	ON-HIGHWAY FOG	000001410	THOUS VMT	NOX NHC	57.52 5.12	0000041 0000004
019	ON-HIGHWAY WC	000007991	THOUS VMT	NOX NHC	1.50 13.56	0000006 0000054
020	RESIDENTIAL ANTHRACITE	000000192	TON	NOX THC	3.00 2.50	0000000 0000000
021	RESIDENTIAL BITUMINOUS	000000000	TON	NOX THC	3.00 20.00	0000000 0000000
022	RESIDENTIAL RESIDUAL OIL	000000000	THOUS GAL	NOX THC	18.00 1.00	0000000 0000000
023	RESIDENTIAL DISTILLATE	000008471	THOUS GAL	NOX THC	18.00 1.00	0000076 0000004
024	RESIDENTIAL NATURAL GAS	000000066	MIL CU FT	NOX THC	80.00 2.00	0000003 0000000
025	RESIDENTIAL LPG	000001336	THOUS GAL	NOX THC	7.50 0.75	0000035 0000001
026	RESIDENTIAL WOOD	000004108	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	000000356	THOUS GAL	NOX THC	60.00 1.00	0000011 0000000

TABLE B-1 (continued)

SEA / TECHNOLOGY DIVISION
AREA SOURCE MASTER FILE SUMMARY
FOR VERMONT

COUNTY:0280

CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RATE	UNITS	POLLUTANT I-D.	EMISSION FACTOR	EMISSIONS ESTIMATE
030	COMM/INST DISTILLATE OIL	000000000	THOUS GAL	NOX THC	22.00 1.00	0000000 0000000
031	COMM/INST NATURAL GAS	000000000	PIL CU FT	NOX THC	120.00 6.00	0000000 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	10.00 36.00	0000000 0000000
034	INDUSTRIAL ANTHRACITE	000000000	TON	NOX THC	18.00 0.00	0000000 0000000
035	INDUSTRIAL BITUMINOUS	000000000	TON	NOX THC	15.00 1.00	0000000 0000000
036	INDUSTRIAL RESIDUAL OIL	000000013	THOUS GAL	NOX THC	60.00 1.00	0000015 0000000
037	INDUSTRIAL DISTILLATE OIL	000000000	THOUS GAL	NOX THC	22.00 1.00	0000000 0000000
038	INDUSTRIAL NATURAL GAS	000000000	MIL CU FT	NOX THC	175.00 3.00	0000000 0000000
039	INDUSTRIAL LPG	000000000	THOUS GAL	NOX THC	11.00 0.30	0000000 0000000
040	INDUSTRIAL WOOD/OTHER	000000000	TON	NOX THC	10.00 36.00	0000000 0000000
041	MILITARY AIRCRAFT	000000000	LND/TAKE OFF	NOX THC	9.16 27.10	0000000 0000000
042	CIVIL AIRCRAFT	000020440	LND/TAKE OFF	NOX THC	0.02 0.41	0000000 0000004

TABLE B-1 (continued)

U.S. / TECHNOLOGY DIVISION
AREA SOURCE MASTER FILE SUMMARY
FOR VERMONT

COUNTY: 0280

CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RATE	UNITS	POLLUTANT I.D.	EMISSION FACTOR	EMISSIONS ESTIMATE
043	COMMERCIAL AIRCRAFT	000000000	LHD/TAKE OFF	NOX THC	13.55 24.90	0000000 0000000
044	RAILROAD LOCOMOTIVES	000000136	THOUS GAL	NOX THC	370.60 94.00	0000025 0000006
045	VESSELS - GASOLINE	000000020	THOUS GAL	NOX THC	32.72 887.06	0000000 0000009
046	VESSELS - DISTILLATE OIL	000000000	THOUS GAL	NOX THC	270.60 50.00	0000000 0000000
047	VESSELS - RESIDUAL OIL	000000000	THOUS GAL	NOX THC	270.00 50.00	0000000 0000000
048	OFF-HIGHWAY VEHICLES-GAS	000000330	THOUS GAL	NOX THC	105.45 263.94	0000017 0000044
049	OFF-HIGHWAY VEH - DIESEL	000000282	THOUS GAL	NOX THC	421.13 39.15	0000059 0000036
050	ON-SITE INCINERATION	000000074	TON	NOX THC	1.53 40.50	0000002 0000042
051	OPEN BURNING	000000113	TON	NOX THC	5.42 26.64	0000022 0000117
052	STRUCTURAL FIRES	000000024	FIRES	NOX THC	17.00 107.00	0000000 0000061
053	FIELD/SLASH BURNING	000000000	TON	NOX THC	4.00 23.50	0000000 0000000
054	FOREST FIRES	000000066	ACRE	NOX THC	43.21 261.02	0000001 0000009
999	COUNTY TOTALS			THC NOX NOX		0000408 0000760 0000932

TABLE B-1 (continued)

604 / TECHNOLOGY DIVISION
AREA SOURCE MASTER FILE SUMMARY
FOR VERMONT

COUNTY:0360

CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RATE	UNITS	POLLUTANT I.D.	EMISSION FACTOR	EMISSIONS ESTIMATE
001	STAGE I GASOLINE EVAP	000009783	THOUS GAL	THC	8.35	0000041
002	STAGE II GASOLINE EVAP	000009776	THOUS GAL	THC	9.70	0000047
003	STORAGE TANK BREATHING	000009783	THOUS GAL	THC	1.00	0000005
004	GASOLINE LOADING/TRANSIT	000009783	THOUS GAL	THC	6.87	0000534
005	SP IND/COMM DEGREASING	000022763	POPULATION	THC	7.59	0000086
006	DRY CLEANING	000022763	POPULATION	NHC	1.50	0000017
007	ARCH SURFACE COATING	000022763	POPULATION	NHC	4.40	0000052
008	AUTO BODY REFINISHING	000022763	POPULATION	NHC	1.90	0000022
009	SP IND SURFACE COATING	000000001	THOUS GAL	THC	4,112.50	0000002
010	GRAPHIC ARTS	000022763	POPULATION	NHC	0.80	0000009
011	COMM/CONS SOLVENT USE	000022763	POPULATION	NHC	6.30	0000072
012	CUTPAK ASPHALT	000000017	TON	THC	577.00	0000005
013	PESTICIDES	000015685	LBS	NHC	0.50	0000007
014	ON-HIGHWAY LDV	000224918	THOUS VMT	NOX NHC	8.20 7.33	0000923 0000825
015	ON-HIGHWAY LDT1	000040070	THOUS VMT	NOX NHC	8.61 7.73	0000177 0000155
016	ON-HIGHWAY LDT2	000003510	THOUS VMT	NOX NHC	10.86 8.46	0000018 0000015

TABLE B-1 (continued)

GC / TECHNOLOGY DIVISION
 AREA SOURCE MASTER FILE SUMMARY
 FOR VERMONT

COUNTY:0360

CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RATE	UNITS	POLLUTANT I.D.	EMISSION FACTOR	EMISSIONS ESTIMATE
C17	ON-HIGHWAY HDG	000006435	THOUS VMT	NOX	28.32	0000091
				NHC	19.96	0000064
018	ON-HIGHWAY HDG	000002532	THOUS VMT	NOX	58.27	0000077
				NHC	5.49	0000007
C19	ON-HIGHWAY PC	000014917	THOUS VMT	NOX	1.50	0000011
				NHC	13.40	0000100
020	RESIDENTIAL ANTHRACITE	000000831	TON	NOX	3.00	0000001
				THC	2.50	0000001
C21	RESIDENTIAL BITUMINOUS	000000009	TON	NOX	3.00	0000000
				THC	20.00	0000000
C22	RESIDENTIAL RESIDUAL OIL	000000000	THOUS GAL	NOX	18.00	0000000
				THC	1.00	0000000
C23	RESIDENTIAL DISTILLATE	000011409	THOUS GAL	NOX	12.00	0000103
				THC	1.00	0000006
C24	RESIDENTIAL NATURAL GAS	000000005	MIL CU FT	NOX	80.00	0000000
				THC	8.00	0000000
C25	RESIDENTIAL LPG	000002360	THOUS GAL	NOX	7.50	0000003
				THC	0.75	0000001
C26	RESIDENTIAL WOOD	000015944	TON	NOX	1.00	0000008
				NHC	5.00	0000040
C27	COMM/INST ANTHRACITE	000000000	TON	NOX	10.00	0000000
				THC	0.00	0000000
C28	COMM/INST BITUMINOUS	000000000	TON	NOX	6.00	0000000
				THC	3.00	0000000
C29	COMM/INST RESIDUAL OIL	000000475	THOUS GAL	NOX	60.00	0000014
				THC	1.00	0000000

TABLE B-1 (continued)

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

COUNTY:0360

CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RATE	UNITS	POLLUTANT I.D.	EMISSION FACTOR	EMISSIONS ESTIMATE
030	COMM/INST DISTILLATE OIL	000000000	THOUS GAL	NOX THC	22.00 1.00	0000000 0000000
031	COMM/INST NATURAL GAS	000000000	MIL CU FT	NOX THC	120.00 8.00	0000000 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	10.00 30.00	0000000 0000000
034	INDUSTRIAL ANTHRACITE	000000000	TON	NOX THC	14.00 0.00	0000000 0000000
035	INDUSTRIAL BITUMINOUS	000000000	TON	NOX THC	15.00 1.00	0000000 0000000
036	INDUSTRIAL RESIDUAL OIL	000000000	THOUS GAL	NOX THC	60.00 1.00	0000021 0000000
037	INDUSTRIAL DISTILLATE OIL	000000000	THOUS GAL	NOX THC	22.00 1.00	0000000 0000000
038	INDUSTRIAL NATURAL GAS	000000000	MIL CU FT	NOX THC	175.00 3.00	0000000 0000000
039	INDUSTRIAL LPG	000000000	THOUS GAL	NOX THC	11.00 0.30	0000000 0000000
040	INDUSTRIAL WOOD/OTHER	000000000	TON	NOX THC	10.00 30.00	0000000 0000000
041	MILITARY AIRCRAFT	000000000	LND/TAKE OFF	NOX THC	9.16 27.10	0000000 0000000
042	CIVIL AIRCRAFT	000017520	LND/TAKE OFF	NOX THC	0.02 0.41	0000000 0000000

TABLE B-1 (continued)

CCA / TECHNOLOGY DIVISION
 AIRFA SOURCE FACTOR FILE SUMMARY
 FOR VERMONT

COUNTY:0360

CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RATE	UNITS	POLLUTANT I.D.	EMISSION FACTOR	EMISSIONS ESTIMATE
043	COMMERCIAL AIRCRAFT	000000000	LND/TAKE OFF	NOX THC	13.55 24.50	0000000 0000000
044	AIRLIFT/LUGOMOTIVES	000000164	THOUS GAL	NOX THC	370.00 94.00	0000030 0000008
045	VESSLS - GASOLINE	000000020	THOUS GAL	NOX THC	32.72 877.56	0000000 0000005
046	VESSLS - DISTILLATE OIL	000000000	THOUS GAL	NOX THC	270.00 50.00	0000000 0000000
047	VESSLS - RESIDUAL OIL	000000000	THOUS GAL	NOX THC	270.00 50.00	0000000 0000000
048	OFF-HIGHWAY VEHICLES-WAS	000000604	THOUS GAL	NOX THC	105.45 263.94	0000032 0000080
049	OFF-HIGHWAY VEH - DIESEL	000000322	THOUS GAL	NOX THC	421.13 39.15	0000068 0000005
050	ON-SITE INCINERATION	000002845	TON	NOX THC	2.21 40.07	0000004 0000057
051	OPEN BURNING	000011049	TON	NOX THC	5.61 29.14	0000031 0000161
052	STRUCTURAL FIRES	000000022	FIRES	NOX THC	17.00 107.00	0000000 0000001
053	FIELD/SWASH BURNING	000000000	TON	NOX THC	4.00 23.50	0000000 0000000
054	FOREST FIRES	000000050	ACRE	NOX THC	43.21 261.02	0000001 0000007
999	COUNTY TOTALS			THC NHC NOX		0000561 0001385 0001619

TABLE B-1 (continued)

SCS / TECHNOLOGY DIVISION
AREA SOURCE MASTER FILE SUMMARY
FOR VERMONT

COUNTY: 03300

CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RATE	UNITS	POLLUTANT I.D.	EMISSION FACTOR	EMISSIONS ESTIMATE
001	STAGE I GASOLINE EVAP	000004892	THOUS GAL	THC	8.35	0000020
002	STAGE II GASOLINE EVAP	000004089	THOUS GAL	THC	9.70	0000024
003	STORAGE TANK BREATHING	000004892	THOUS GAL	THC	1.00	0000002
004	GASOLINE LOADING/TRANSIT	000004892	THOUS GAL	THC	6.87	0000017
005	SW. IRO/CURB DEGREASING	000023455	POPULATION	THC	7.59	0000089
006	DRY CLEANING	000023455	POPULATION	NHC	1.50	0000018
007	ARCH SURFACE COATING	000023455	POPULATION	NHC	4.60	0000054
008	AUTO BODY REFINISHING	000023455	POPULATION	NHC	1.50	0000022
009	SM IAD SURFACE COATING	000000001	THOUS GAL	THC	4,112.50	0000002
010	GRAPHIC ARTS	000023455	POPULATION	NHC	3.80	0000039
011	CO. CO./CONS SOLVENT USE	000023455	POPULATION	NHC	6.30	0000074
012	CUTBACK ASPHALT	000000017	TON	THC	577.00	0000005
013	PESTICIDES	000012548	LES	NHC	0.90	0000006
014	ON-HIGHWAY LDV	000236877	THOUS VMT	NOX NHC	8.17 7.61	0009977 0000010
015	ON-HIGHWAY LDV1	000042557	THOUS VMT	NOX NHC	8.77 8.91	0000197 0000171
016	ON-HIGHWAY LDV2	000003728	THOUS VMT	NOX NHC	10.12 8.61	0000019 0000016

TABLE B-1 (continued)

604 / TECHNOLOGY DIVISION
AREA SOURCE MASTER FILE SUMMARY
FOR VERMONT

COUNTY: 0360

CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RATE UNITS	POLLUTANT I.D.	EMISSION FACTOR	EMISSIONS ESTIMATE
017	ON-HIGHWAY HDG	000006834 THOUS VMT	NOX NHC	27.84 20.79	0000095 0000071
018	ON-HIGHWAY HDG	000002796 THOUS VMT	NOX NHC	57.43 5.45	0000080 0000008
019	ON-HIGHWAY MC	000015842 THOUS VMT	NOX NHC	1.52 13.78	0000012 0000109
020	RESIDENTIAL ANTHRACITE	000001279 TON	NOX THC	3.00 2.50	0000002 0000002
021	RESIDENTIAL BITUMINOUS	000000000 TON	NOX THC	3.00 20.00	0000000 0000000
022	RESIDENTIAL RESIDUAL OIL	000000000 THOUS GAL	NOX THC	18.00 1.00	0000000 0000000
023	RESIDENTIAL DISTILLATE	000011558 THOUS GAL	NOX THC	18.00 1.00	0000104 0000006
024	RESIDENTIAL NATURAL GAS	000000043 MIL CU FT	NOX THC	80.00 8.00	0000002 0000000
025	RESIDENTIAL LPG	000001544 THOUS GAL	NOX THC	7.50 0.75	0000006 0000001
026	RESIDENTIAL WOOD	000015805 TON	NOX NHC	1.00 5.00	0000008 0000040
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	000000594 THOUS GAL	NOX THC	60.00 1.00	0000018 0000000

TABLE B-1 (continued)

SCA / TECHNOLOGY DIVISION
AREA SOURCE MASTER FILE SUMMARY
FOR VERMONT

COUNTY:0380

CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RATE	UNITS	POLLUTANT EMISSION F.O.	EMISSIONS ESTIMATE
030	COMM/INST DISTILLATE OIL	000000000	THOUS GAL	NOX THC	22.00 000000 1.00 000000
031	COMM/INST NATURAL GAS	000000000	MIL CU FT	NOX THC	120.00 000000 8.00 000000
032	COMM/INST LPG	000000000	THOUS GAL	NOX THC	11.00 000000 0.75 000000
033	COMM/INST WOOD/OTHER	000000000	TON	NOX THC	10.00 000000 36.00 000000
034	INDUSTRIAL ANTHRACITE	000000000	TON	NOX THC	18.00 000000 0.00 000000
035	INDUSTRIAL BITUMINOUS	000000001	TON	NOX THC	15.00 000000 1.00 000000
036	INDUSTRIAL RESIDUAL OIL	000000954	THOUS GAL	NOX THC	60.00 000000 1.00 000000
037	INDUSTRIAL DISTILLATE OIL	000000000	THOUS GAL	NOX THC	22.00 000000 1.00 000000
038	INDUSTRIAL NATURAL GAS	000000000	MIL CU FT	NOX THC	175.00 000000 3.00 000000
039	INDUSTRIAL LPG	000000000	THOUS GAL	NOX THC	11.00 000000 0.75 000000
040	INDUSTRIAL WOOD/OTHER	000000000	TON	NOX THC	10.00 000000 36.00 000000
041	MILITARY AIRCRAFT	000000000	LND/TAKE OFF	NOX THC	9.16 000000 27.13 000000
042	CIVIL AIRCRAFT	000012410	LND/TAKE OFF	NOX THC	0.02 000000 0.41 000000

TABLE B-1 (continued)

GCA / TECHNOLOGY DIVISION
AREA SOURCE MASTER FILE SUMMARY
FOR VERMONT

COUNTY:0380

CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS R.F.L.	UNITS LND/TAKE OFF	POLLUTANT I.D.	EMISSION FACTOR	EMISSIONS ESTIMATE
043	COMMERCIAL AIRCRAFT	000000000		NOX THC	13.55 24.50	0000000 0000000
044	RAILROAD LOCOMOTIVES	000000136	THOUS GAL	NOX THC	370.00 94.00	0000025 0000006
045	VESSELS - GASOLINE	000000141	THOUS GAL	NOX THC	32.72 887.06	0000002 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	270.00 50.00	0000000 0000000
048	OFF-HIGHWAY VEHICLES-GAS	000000027	THOUS GAL	NOX THC	105.45 263.54	0000044 0000109
049	OFF-HIGHWAY VEH - DIESEL	000000479	THOUS GAL	NOX THC	421.13 39.15	0000101 0000009
050	ON-SITE INCINERATION	000003024	TON	NOX THC	2.65 39.68	0000004 0000060
051	OPEN BURNING	000011506	TON	NOX THC	5.56 28.85	0000032 0000166
052	STRUCTURAL FIRES	000000037	FIRES	NOX THC	17.00 107.00	0000000 0000002
053	FILL/SLASH BURNING	000000000	TON	NOX THC	4.00 23.50	0000000 0000000
054	FOREST FIRES	000000040	ACRE	NOX THC	43.21 261.02	0000001 0000005
999	COUNTY TOTALS			THC NHC NOX		0000591 0001508 0001745

TABLE B-1 (continued)

GCA / TECHNOLOGY DIVISION
AREA SOURCE MASTER FILE SUMMARY
FOR VERMONT

COUNTY:0420

CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RATE	UNITS	POLLUTANT I.D.	EMISSION FACTOR	EMISSIONS ESTIMATE
001	STAGE 1 GASOLINE EVAP	000031796	THOUS GAL	THC	8.25	0000133
002	STAGE 11 GASOLINE EVAP	000031774	THOUS GAL	THC	9.70	0000154
003	STORAGE TANK BREATHING	000031796	THOUS GAL	THC	1.00	0000016
004	GASOLINE LOADING/TRANSIT	000031796	THOUS GAL	THC	6.67	0000109
005	SM IND/COMM DEGREASING	000058332	POPULATION	THC	7.59	0000221
006	DRY CLEANING	000058332	POPULATION	NHC	1.50	0000044
007	ARCH SURFACE COATING	000058332	POPULATION	NHC	4.60	0000134
008	AUTO BODY REFINISHING	000058332	POPULATION	NHC	1.50	0000055
009	SM IND SURFACE COATING	000000003	THOUS GAL	THC	4.112.50	0000006
010	GRAPHIC ARTS	000058332	POPULATION	NHC	0.80	0000023
011	COMM/CONS SOLVENT USE	000058332	POPULATION	NHC	6.30	0000184
012	CUTBACK ASPHALT	000000019	TON	THC	577.00	0000005
013	PLSTICIDES	000005647	LBS	NHC	0.90	0000003
014	ON-HIGHWAY LDV	000256602	THOUS VMT	NOX NHC	8.16 7.87	0001048 0001010
015	ON-HIGHWAY LDY1	000045715	THOUS VMT	NOX NHC	8.76 8.27	0000200 0000189
016	ON-HIGHWAY LDY2	000004004	THOUS VMT	NOX NHC	9.82 9.02	0000020 0000018

TABLE B-1 (continued)

GCA / TECHNOLOGY DIVISION
AFCA SOURCE MASTER FILE SUMMARY
FOR VERMONT

COUNTY: 0420

CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RATE	UNITS	POLLUTANT I.D.	EMISSION FACTOR	EMISSIONS ESTIMATE
017	ON-HIGHWAY HDG	000007341	THOUS VMT	NOX NHC	27.78 21.65	0000102 0000079
018	ON-HIGHWAY HDD	000003003	THOUS VMT	NOX NHC	57.22 5.61	0003006 0003002
019	ON-HIGHWAY MC	000017018	THOUS VMT	NOX NHC	1.51 14.15	0000013 0000120
020	RESIDENTIAL ANTHRACITE	000002302	TON	NOX THC	3.00 2.50	0000003 0000003
021	RESIDENTIAL BITUMINOUS	000006000	TON	NOX THC	3.00 20.00	0000000 0000000
022	RESIDENTIAL RESIDUAL OIL	000000000	THOUS GAL	NOX THC	18.00 1.00	0000000 0000000
023	RESIDENTIAL DISTILLATE	000031392	THOUS GAL	NOX THC	18.00 1.00	0000283 0000016
024	RESIDENTIAL NATURAL GAS	000000266	MIL CU FT	NOX THC	80.00 6.00	0000011 0000001
025	RESIDENTIAL LPG	000002884	THOUS GAL	NOX THC	7.50 0.75	0000011 0000001
026	RESIDENTIAL WOOD	000021862	TON	NOX NHC	1.00 5.00	0000011 0000055
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	000001307	THOUS GAL	NOX THC	60.00 1.00	0000039 0000001

TABLE B-1 (continued)

GCA / TECHNOLOGY DIVISION
AREA SOURCE MASTER FILE SUMMARY
FOR VERMONT

COUNTY:0420

CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RATE	UNITS	POLLUTANT I.D.	EMISSION FACTOR	EMISSIONS ESTIMATE
030	COMM/INST DISTILLATE OIL	000000000	THOUS GAL	NOX THC	22.00 1.00	0000000 0000000
031	COMM/INST NATURAL GAS	000000000	MIL CU FT	NOX THC	120.00 9.00	0000000 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	10.00 36.00	0000000 0000000
034	INDUSTRIAL ANTHRACITE	000000000	TON	NOX THC	18.00 0.00	0000000 0000000
035	INDUSTRIAL BITUMINOUS	000000002	TON	NOX THC	15.00 1.00	0000000 0000000
036	INDUSTRIAL RESIDUAL OIL	000001630	THOUS GAL	NOX THC	60.00 1.00	0000056 0000001
037	INDUSTRIAL DISTILLATE OIL	000000000	THOUS GAL	NOX THC	22.00 1.00	0000000 0000000
038	INDUSTRIAL NATURAL GAS	000000000	MIL CU FT	NOX THC	175.00 3.00	0000000 0000000
039	INDUSTRIAL LPG	000000000	THOUS GAL	NOX THC	11.65 0.20	0000000 0000000
040	INDUSTRIAL WOOD/OTHER	000000000	TON	NOX THC	10.00 36.00	0000000 0000000
041	MILITARY AIRCRAFT	000000000	LND/TAKE OFF	NOX THC	9.16 27.10	0000000 0000000
042	CIVIL AIRCRAFT	000023360	LND/TAKE OFF	NOX THC	0.02 0.41	0000000 0000005

TABLE B-1 (continued)

GCA / TECHNOLOGY DIVISION
AREA SOURCE MASTER FILE SUMMARY
FOR VERMONT

COUNTY:0420

CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RATE	UNITS	POLLUTANT I.D.	EMISSION FACTOR	EMISSIONS ESTIMATE
043	COMMERCIAL AIRCRAFT	00000000	LND/TAKE OFF	NOX THC	13.55 24.50	000000 000000
044	RAILROAD LOCOMOTIVES	000000329	THOUS GAL	NOX THC	370.00 94.00	0000061 0000015
045	VESSELS - GASOLINE	000000081	THOUS GAL	NOX THC	32.72 887.06	0000001 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	270.00 50.00	0000000 0000000
048	OFF-HIGHWAY VEHICLES-GAS	000000908	THOUS GAL	NOX THC	105.45 263.54	0000048 0000120
049	OFF-HIGHWAY VEH - DIESEL	000000509	THOUS GAL	NOX THC	421.13 39.15	0000124 0000012
050	ON-SITE INCINERATION	000007336	TON	NOX THC	2.65 39.26	0000010 0000144
051	OPEN BURNING	000028639	TON	NOX THC	5.45 29.12	0000078 0000417
052	STRUCTURAL FIRES	000000072	FIRES	NOX THC	17.00 107.00	0000001 0000004
053	FIELD/SLASH BURNING	000000000	TON	NOX THC	4.00 23.50	0000000 0000000
054	FOREST FIRES	000000018	ACRE	NOX THC	43.21 261.02	0000000 0000002
999	COUNTY TOTALS			THC NHC NOX		0001422 0001522 0002206

TABLE B-1 (continued)

GCA / TECHNOLOGY DIVISION
AREA SOURCE MASTER FILE SUMMARY
FJR VERMONT

COUNTY:0500

CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RATE	UNITS	POLLUTANT I.D.	EMISSION FACTOR	EMISSIONS ESTIMATE
001	STAGE I GASOLINE EVAP	0000293349	THOUS GAL	THC	8.75	0000123
002	STAGE II GASOLINE EVAP	0000293330	THOUS GAL	THC	5.70	0000142
003	STORAGE TANK BREATHING	0000293349	THOUS GAL	THC	1.00	0000015
004	GASOLINE LOADING/TRANSIT	0000293349	THOUS GAL	THC	6.87	0000101
005	SM IND/COMM DEGREASING	000052391	POPULATION	TPC	7.59	0000199
006	DRY CLEANING	000052391	POPULATION	NHC	1.50	0000039
007	ARCH SURFACE COATING	000052391	POPULATION	NHC	4.60	0000120
008	AUTO BODY REFINISHING	000052391	POPULATION	NHC	1.50	0000050
009	SM IND SURFACE COATING	000000003	THOUS GAL	THC	4,112.50	0000006
010	GRAPHIC ARTS	000052391	POPULATION	NHC	0.80	0000021
011	COMM/COMM SOLVENT USE	000052351	POPULATION	NHC	6.30	0000165
012	CURB/PAV ASPHALT	000000019	TON	THC	577.00	0000005
013	PESTICIDES	000006274	LBS	NHC	0.90	0000003
014	ON-HIGHWAY LDV	000245207	THOUS VMT	NOX NHC	8.14 8.09	0000993 0000992
015	ON-HIGHWAY LDY1	000043684	THOUS VMT	NOX NHC	8.75 8.51	0000191 0000186
016	ON-HIGHWAY LDY2	000003626	THOUS VMT	NOX NHC	9.66 9.44	0000017 0000016

TABLE B-1 (continued)

GCA / TECHNOLOGY DIVISION
AREA SOURCE MASTER FILE SUMMARY
FOR VERMONT

COUNTY:0500

CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RATE	UNITS	POLLUTANT I.D.	EMISSION FACTOR	EMISSIONS ESTIMATE
017	ON-HIGHWAY HDG	000007015	THOUS VMT	NOX NHC	27.47 22.20	0000095 0000078
018	ON-HIGHWAY HDD	000002870	THOUS VMT	NOX NHC	56.79 5.59	0000082 0000008
019	ON-HIGHWAY HC	000016262	THOUS VMT	NOX NHC	1.48 14.46	0000012 0000118
020	RESIDENTIAL ANTHRACITE	000002949	TON	NOX THC	3.00 2.50	0000004 0000004
021	RESIDENTIAL BITUMINOUS	000000000	TON	NOX THC	3.00 20.00	0000000 0000000
022	RESIDENTIAL RESIDUAL OIL	000000000	THOUS GAL	NOX THC	18.00 1.00	0000000 0000000
023	RESIDENTIAL DISTILLATE	000027645	THOUS GAL	NOX THC	18.00 1.00	0000249 0000014
024	RESIDENTIAL NATURAL GAS	000000153	MIL CU FT	NOX THC	80.00 6.00	0000006 0000001
025	RESIDENTIAL LPG	000003031	THOUS GAL	NOX THC	7.50 0.75	0000011 0000001
026	RESIDENTIAL WOOD	000010792	TON	NOX NHC	1.00 5.00	0000005 0000027
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	000001188	THOUS GAL	NOX THC	60.00 1.00	0000036 0000001

TABLE B-1 (continued)

SCA / TECHNOLOGY DIVISION
AREA SOURCE MASTER FILE SUMMARY
FOR VERMONT

COUNTY:0500

CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RAIL	UNITS	POLLUTANT I.D.	EMISSION FACTOR	EMISSIONS ESTIMATE
030	COMM/INST DISTILLATE OIL	000000000	THOUS GAL	NOX THC	22.60 1.00	0000000 0000000
031	COMM/INST NATURAL GAS	000000000	MIL CU FT	NOX THC	120.00 8.00	0000000 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	10.00 36.00	0000000 0000000
034	INDUSTRIAL ANTHRACITE	000000000	TON	NOX THC	10.00 0.00	0000000 0000000
035	INDUSTRIAL BITUMINOUS	000000002	TON	NOX THC	15.00 1.00	0000000 0000000
036	INDUSTRIAL RESIDUAL OIL	000001709	THOUS GAL	NOX THC	60.00 1.00	0000001 0000001
037	INDUSTRIAL DISTILLATE OIL	000000000	THOUS GAL	NOX THC	22.00 1.00	0000000 0000000
038	INDUSTRIAL NATURAL GAS	000000000	MIL CU FT	NOX THC	175.00 3.00	0000000 0000000
039	INDUSTRIAL LPG	000000000	THOUS GAL	NOX THC	11.65 0.50	0000000 0000000
040	INDUSTRIAL WOOD/OTHER	000000000	TON	NOX THC	10.00 36.00	0000000 0000000
041	MILITARY AIRCRAFT	000000000	LND/TAKE OFF	NOX THC	5.16 27.10	0000000 0000000
042	CIVIL AIRCRAFT	000063510	LND/TAKE OFF	NOX THC	0.02 0.41	0000001 0000013

TABLE B-1 (continued)

6C2 / TECHNOLOGY DIVISION
AREA SOURCE MASTER FILE SUMMARY
FOR VERMONT

COUNTY:0500

CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RATE	UNITS	POLLUTANT I.D.	EMISSION FACTOR	EMISSIONS ESTIMATE
043	COMMERCIAL AIRCRAFT	00000000	LND/TAKL OFF	NOX THC	13.55 24.90	000000 000000
044	RAILROAD LOCOMOTIVES	000000191	THOUS GAL	NOX THC	370.00 54.00	000035 000009
045	VESSELS - GASOLINE	000000040	THOUS GAL	NOX THC	32.72 887.06	000001 000016
046	VESSELS - DISTILLATE OIL	000000000	THOUS GAL	NOX THC	270.00 50.00	000000 000000
047	VESSELS - RESIDUAL OIL	000000000	THOUS GAL	NOX THC	270.00 50.00	000000 000000
048	OFF-HIGHWAY VEHICLES-GAS	000000702	THOUS GAL	NOX THC	105.45 263.94	000037 000093
049	OFF-HIGHWAY VEH - DIESEL	000001719	THOUS GAL	NOX THC	421.13 39.15	000032 000034
050	ON-SITE INCINERATION	000006613	TON	NOX THC	2.42 40.22	000008 000133
051	OPEN BURNING	000025520	TON	NOX THC	5.56 29.00	000071 000379
052	STRUCTURAL FIRES	000000043	FIRES	NOX THC	17.00 107.00	000000 000002
053	FIELD/SLASH BURNING	000000000	TON	NOX THC	4.00 23.50	000000 000000
054	FOREST FIRES	000000020	ACRE	NOX THC	43.21 261.02	000000 000003
999	COUNTY TOTALS			THC HHC NOX		000128 000125 000225

TABLE B-1 (continued)

GCA / TECHNOLOGY DIVISION
AREA SOURCE MASTER FILE SUMMARY
FOR VERMONT

COUNTY:0580

CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RATE	UNITS	POLLUTANT I.D.	EMISSION FACTOR	EMISSIONS ESTIMATE
001	STAGE I GASOLINE EVAP	000026903	THOUS GAL	THC	8.35	0000112
002	STAGE II GASOLINE EVAP	000026886	THOUS GAL	THC	9.70	0000130
003	STORAGE TANK BREATHING	000026903	THOUS GAL	THC	1.00	0000013
004	GASOLINE LOADING/TRANSIT	000026903	THOUS GAL	THC	6.87	0000092
005	SM IND/COMM. DEGREASING	000036880	POPULATION	THC	7.59	0000140
006	DRY CLEANING	000036880	POPULATION	NHC	1.50	0000028
007	ARCH SURFACE COATING	000036880	POPULATION	NHC	4.60	0000085
008	AUTO BODY REFINISHING	000036880	POPULATION	NHC	1.50	0000035
009	SM IND SURFACE COATING	000000002	THOUS GAL	THC	4,112.50	0000004
010	GRAPHIC ARTS	000036880	POPULATION	NHC	0.80	0000015
011	COMM/CONS SOLVENT USE	000036880	POPULATION	NHC	6.30	0000116
012	CUTBACK ASPHALT	000000017	TON	THC	577.00	0000005
013	PESTICIDES	000008784	LBS	NHC	0.90	0000004
014	OR-HIGHWAY L0V	000241803	THOUS VMT	NOX NHC	8.17 7.66	0000988 0000927
015	OR-HIGHWAY L0T1	000043078	THOUS VMT	NOX NHC	8.78 8.67	0000189 0000174
016	OR-HIGHWAY L0T2	000003773	THOUS VMT	NOX NHC	10.00 8.51	0000019 0000016

TABLE B-1 (continued)

GCA / TECHNOLOGY DIVISION
AREA SOURCE VERSION FILE SUMMARY

COUNTY: DEER

CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RATE	UNITS	POLLUTANT I.D.	EMISSION FACTOR	EMISSIONS ESTIMATE
017	ON-HIGHWAY HDG	000006916	THOUS VMT	NOX NHC	27.85 20.89	0000096 0000072
018	ON-HIGHWAY HDD	000002830	THOUS VMT	NOX NHC	57.31 5.67	0000081 0000008
019	ON-HIGHWAY MC	000016036	THOUS VMT	NOX NHC	1.50 13.87	0000012 0000111
020	RESIDENTIAL ANTHRACITE	000004413	TON	NOX THC	3.20 2.50	0000007 0000006
021	RESIDENTIAL BITUMINOUS	000000000	TON	NOX THC	3.00 20.00	0000000 0000000
022	RESIDENTIAL RESIDUAL OIL	000000000	THOUS GAL	NOX THC	18.00 1.00	0000000 0000000
023	RESIDENTIAL DISTILLATE	000019568	THOUS GAL	NOX THC	16.00 1.00	0000176 0000010
024	RESIDENTIAL NATURAL GAS	000000026	MIL CU FT	NOX THC	80.00 6.00	0000001 0000000
025	RESIDENTIAL LPG	000004617	THOUS GAL	NOX THC	7.50 0.75	0000017 0000002
026	RESIDENTIAL WOOD	000012811	TON	NOX NHC	1.00 5.00	0000006 0000032
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	000000031	THOUS GAL	NOX THC	60.00 1.00	0000025 0000000

TABLE B-1 (continued)

GCA / TECHNOLOGY DIVISION
AREA SOURCE MASTER FILE SUMMARY
FOR VERMONT

COUNTY: 0580

CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RATE	UNITS	POLLUTANT I.D.	EMISSION FACTOR	EMISSIONS ESTIMATE
030	COMM/INST DISTILLATE OIL	000000000	THOUS GAL	NOX THC	22.00 1.00	0000000 0000000
031	COMM/INST NATURAL GAS	000000000	MIL CU FT	NOX THC	120.00 8.50	0000000 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	10.00 36.00	0000000 0000000
034	INDUSTRIAL ANTHRACITE	000000000	TON	NOX THC	18.00 0.00	0000000 0000000
035	INDUSTRIAL BITUMINOUS	000000001	TON	NOX THC	15.00 1.00	0000000 0000000
036	INDUSTRIAL RESIDUAL OIL	000001197	THOUS GAL	NOX THC	60.00 1.00	0000036 0000001
037	INDUSTRIAL DISTILLATE OIL	000000000	THOUS GAL	NOX THC	22.00 1.00	0000000 0000000
038	INDUSTRIAL NATURAL GAS	000000000	MIL CU FT	NOX THC	175.00 3.00	0000000 0000000
039	INDUSTRIAL LPG	000000000	THOUS GAL	NOX THC	11.65 0.30	0000000 0000000
040	INDUSTRIAL WOOD/OTHER	000000000	TON	NOX THC	10.00 36.00	0000000 0000000
041	MILITARY AIRCRAFT	000000000	LND/TAKE OFF	NOX THC	9.16 27.10	0000000 0000000
042	CIVIL AIRCRAFT	000027740	LND/TAKE OFF	NOX THC	0.02 0.41	0000000 0000000

TABLE B-1 (continued)

604 / TECHNOLOGY DIVISION
AREA SOURCE MASTER FILE SUMMARY
FOR VERMONT

COUNTY:0580

CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RATE	UNITS	FOLLUTANT I.D.	EMISSION FACTOR	EMISSIONS ESTIMATE
043	COMMERCIAL AIRCRAFT	000000000	LND/TAKE OFF	NOX THC	13.55 24.90	0000000 0000000
044	RAILROAD LOCOMOTIVES	000000164	THOUS GAL	NOX THC	370.60 54.00	0000030 0000009
045	VESSELS - GASOLINE	000000060	THOUS GAL	NOX THC	32.72 887.06	0000001 0000027
046	VESSELS - DISTILLATE OIL	000000000	THOUS GAL	NOX THC	270.00 50.00	0000000 0000000
047	VESSELS - RESIDUAL OIL	000000000	THOUS GAL	NOX THC	270.00 50.00	0000000 0000000
048	OFF-HIGHWAY VEHICLES-GAS	000000493	THOUS GAL	NOX THC	105.45 263.34	0000025 0000065
049	OFF-HIGHWAY VEH - DIESEL	000000395	THOUS GAL	NOX THC	421.13 39.15	0000083 0000008
050	ON-SITE INCINERATION	000004986	TON	NOX THC	2.41 38.11	0000006 0000095
051	OPEN BURNING	000018387	TON	NOX THC	5.55 29.04	0000051 0000267
052	STRUCTURAL FIRES	000000034	FIRES	NOX THC	17.00 107.00	0000000 0000002
053	FIELD/SLASH BURNING	000000000	TON	NOX THC	4.00 23.50	0000000 0000000
054	FOREST FIRES	000000028	ACRE	NOX THC	43.21 261.02	0000001 0000004
999	COUNTY TOTALS			THC RHC NOX		0000997 0001623 0001051

TABLE B-1 (continued)

GCA / TECHNOLOGY DIVISION
AREA SOURCE MASTER FILE SUMMARY
FOR VERMONT

COUNTY:0620

CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RATE	UNITS	POLLUTANT I.D.	EMISSION FACTOR	EMISSIONS ESTIMATE
001	STAGE I GASOLINE EVAP	000029349	THOUS GAL	THC	8.35	0000123
002	STAGE II GASOLINE EVAP	000029330	THOUS GAL	THC	9.70	0000142
003	STORAGE TANK BREATHING	000029349	THOUS GAL	THC	1.00	0000015
004	GASOLINE LOADING/TRANSIT	000029349	THOUS GAL	THC	6.87	0000101
005	SM IND/COMM DEGREASING	000050874	POPULATION	THC	7.59	0000193
006	DRY CLEANING	000050874	POPULATION	NHC	1.50	0000338
007	ARCH SURFACE COATING	000050874	POPULATION	NHC	4.60	0000117
008	AUTO BODY REFINISHING	000050874	POPULATION	NHC	1.90	0000048
009	SP AND SURFACE COATING	000000003	THOUS GAL	THC	4.112.50	0000006
010	GRAPHIC ARTS	000050874	POPULATION	NHC	0.80	0000020
011	COMM/CCAS SOLVENT USE	000050874	POPULATION	NHC	6.30	0000160
012	CUTBACK ASPHALT	000000031	TON	THC	577.30	0000009
013	PESTICIDES	000000274	LBS	NHC	0.90	0000003
014	ON-HIGHWAY LDV	000362957	THOUS VMT	NOX NHC	8.20 7.38	0001505 0001354
015	ON-HIGHWAY LD11	000065375	THOUS VMT	NOX NHC	8.81 7.78	0000268 0000255
016	ON-HIGHWAY LD12	000005726	THOUS VMT	NOX NHC	9.95 8.27	0000029 0000024

TABLE B-1 (continued)

GC / TECHNOLOGY DIVISION
AREA SOURCE MASTER FILE SUMMARY
FOR VERMONT

COUNTY:0620

CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RATE	UNITS	POLLUTANT I.D.	EMISSION FACTOR	EMISSIONS ESTIMATE
017	ON-HIGHWAY FOG	000010498	THOUS VMT	NOX NHC	28.22 29.04	0000148 0000135
018	ON-HIGHWAY FOG	000004295	THOUS VMT	NOX NHC	57.77 5.64	0000124 0000011
019	ON-HIGHWAY MC	000024337	THOUS VMT	NOX NHC	1.51 13.46	0000018 0000164
020	RESIDENTIAL ANTHRACITE	000003269	TON	NOX THC	3.00 2.50	0000005 0000004
021	RESIDENTIAL BITUMINOUS	000000000	TON	NOX THC	3.00 20.00	0000000 0000000
022	RESIDENTIAL RESIDUAL OIL	000000000	THOUS GAL	NOX THC	14.00 1.00	0000000 0000000
023	RESIDENTIAL DISTILLATE	000027904	THOUS GAL	NOX THC	18.00 1.00	0000251 0000014
024	RESIDENTIAL NATURAL GAS	000003147	MIL CU FT	NOX THC	80.00 8.00	0000005 0000001
025	RESIDENTIAL LPG	000005064	THOUS GAL	NOX THC	7.50 0.75	0000019 0000002
026	RESIDENTIAL WOOD	000023811	TON	NOX NHC	1.00 5.00	0000012 0000060
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	000001188	THOUS GAL	NOX THC	60.00 1.00	0000036 0000001

TABLE B-1 (continued)

GCA / TECHNOLOGY DIVISION
 APEA SOURCE MASTER FILE SUMMARY
 FOR VERMONT

COUNTY:0620

CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RATE	UNITS	FOLLUTANT EMISSION I.D.	EMISSION FACTOR	EMISSIONS ESTIMATE
030	COMM/INST DISTILLATE OIL	000000000	THOUS GAL	NOX THC	22.00 1.00	0000000 0000000
031	COMM/INST NATURAL GAS	000000000	MIL CU FT	NOX THC	120.00 8.00	0000000 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	10.00 36.00	0000000 0000000
034	INDUSTRIAL ANTHRAHITE	000000000	TON	NOX THC	18.00 0.00	0000000 0000000
035	INDUSTRIAL BITUMINOUS	000000002	TON	NOX THC	15.00 1.00	0000000 0000000
036	INDUSTRIAL RESIDUAL OIL	000001709	THOUS GAL	NOX THC	60.00 1.00	0000051 0000001
037	INDUSTRIAL DISTILLATE OIL	000000000	THOUS GAL	NOX THC	22.00 1.00	0000000 0000000
038	INDUSTRIAL NATURAL GAS	000000000	MIL CU FT	NOX THC	175.00 3.00	0000000 0000000
039	INDUSTRIAL LPG	000000000	THOUS GAL	NOX THC	11.65 0.30	0000000 0000000
040	INDUSTRIAL WOOD/OTHER	000000000	TON	NOX THC	10.00 36.00	0000000 0000000
041	MILITARY AIRCRAFT	000000000	LNO/TAKE OFF	NOX THC	9.16 27.10	0000000 0000000
042	CIVIL AIRCRAFT	000001100	LNO/TAKE OFF	NOX THC	0.02 0.41	0000001 0000010

TABLE B-1 (continued)

GCA / TECHNOLOGY DIVISION
AREA SOURCE MASTER FILE SUMMARY
FOR VERMONT

COUNTY: 0620

CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RATE	UNITS	FOLLUTANT I.D.	EMISSION FACTOR	EMISSIONS ESTIMATE
043	COMMERCIAL AIRCRAFT	000000000	LNO/TAKE OFF	NOX THC	13.55 24.90	0000000 0000000
044	RAILROAD LOCOMOTIVES	0000000300	THOUS GAL	NOX THC	370.00 94.00	0000056 0000014
045	VESSELS - GASOLINE	0000000020	THOUS GAL	NOX THC	32.72 887.06	0000000 0000009
046	VESSELS - DISTILLATE OIL	0000000000	THOUS GAL	NOX THC	270.00 50.00	0000000 0000000
047	VESSELS - RESIDUAL OIL	0000000000	THOUS GAL	NOX THC	270.00 50.00	0000000 0000000
048	OFF-HIGHWAY VEHICLES-GAS	0000000790	THOUS GAL	NOX THC	105.45 263.94	0000042 0000104
049	OFF-HIGHWAY VEH - DIESEL	0000001547	THOUS GAL	NOX THC	421.13 39.15	0000326 0000030
050	ON-SITE INCINERATION	0000006806	TON	NOX THC	2.35 38.48	0000006 0000131
051	OPEN BURNING	000025276	TON	NOX THC	5.54 28.56	0000070 0000366
052	STRUCTURAL FIRES	0000000034	FIRES	NOX THC	17.00 107.00	0000000 0000002
053	FIELD/SLASH BURNING	0000000000	TON	NOX THC	4.00 23.50	0000000 0000000
054	FOREST FIRES	0000000020	ACRE	NOX THC	43.21 261.02	0000000 0000003
999	COUNTY TOTALS			THC NHC NOX		0001261 0002359 0002995

TECHNICAL REPORT DATA
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REPORT NO. EPA-450/4-82-013m	2.	3. RECIPIENT'S ACCESSION NO.
TITLE AND SUBTITLE Northeast Corridor Regional Modeling Project Annual Emission Inventory Compilation and Formatting Volume XIV: Vermont Emission Inventory		5. REPORT DATE September 1982
		6. PERFORMING ORGANIZATION CODE
AUTHOR(S) Frederick M. Sellars, Michael J. Geraghty, Andrea M. Kiddie, Barbara J. Bosy, Stephen V. Capone, Lisa A. Bac		8. PERFORMING ORGANIZATION REPORT NO. GCA-TR-82-17-G(13)
PERFORMING ORGANIZATION NAME AND ADDRESS GCA/Technology Division 213 Burlington Road Bedford, Massachusetts 01730		10. PROGRAM ELEMENT NO.
		11. CONTRACT/GRANT NO. 68-02-3510, Work Assignment No. 3
2. SPONSORING AGENCY NAME AND ADDRESS U.S. Environmental Protection Agency, Air Management Technology Branch, Monitoring and Data Analysis Division, Office of Air Quality Planning and Standards, Research Triangle Park, North Carolina 27711		13. TYPE OF REPORT AND PERIOD COVERED Final
		14. SPONSORING AGENCY CODE
5. SUPPLEMENTARY NOTES EPA Project Officers: James H. Southerland and Thomas F. Lahre		

6. 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 Vermont.

7. KEY WORDS AND DOCUMENT ANALYSIS		
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