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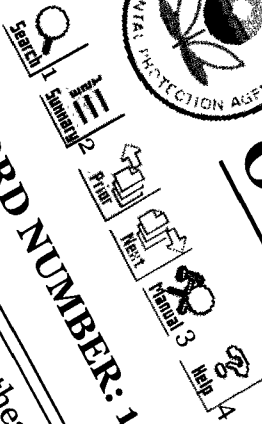
**NORTHEAST CORRIDOR
REGIONAL MODELING
PROJECT
ANNUAL EMISSION
INVENTORY COMPILATION
AND
FORMATTING**

**Volume II:
Connecticut Emission Inventory**



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NORTHEAST CORRIDOR REGIONAL MODELING PROJECT ANNUAL EMISSION INVENTORY COMPILATION AND FORMATTING

Volume II: Connecticut Emission Inventory

by
GCA Corporation
Bedford, MA

Contract No. 68-02-3510

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

October 1982

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

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SECTION 1

INTRODUCTION

BACKGROUND

On a nationwide basis, nonattainment of the National Ambient Air Quality Standards (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/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 Connecticut. This was achieved through the cooperation of the Connecticut Department of Environmental Protection (DEP). The intent of the program was to avoid direct contact between GCA and individual facilities in Connecticut. Rather, GCA worked directly with the Connecticut DEP, who in turn contacted sources when necessary. GCA reviewed the state supplied data and submitted a list of potential errors back to the Connecticut DEP, who was responsible for confirming the data or supplying corrections, as necessary.

The major pollutants of interest were VOC and NO_x , although TSP, SO_x , and CO emissions were compiled for point sources. Because of this emphasis, quality assurance checks focused primarily on VOC and NO_x .

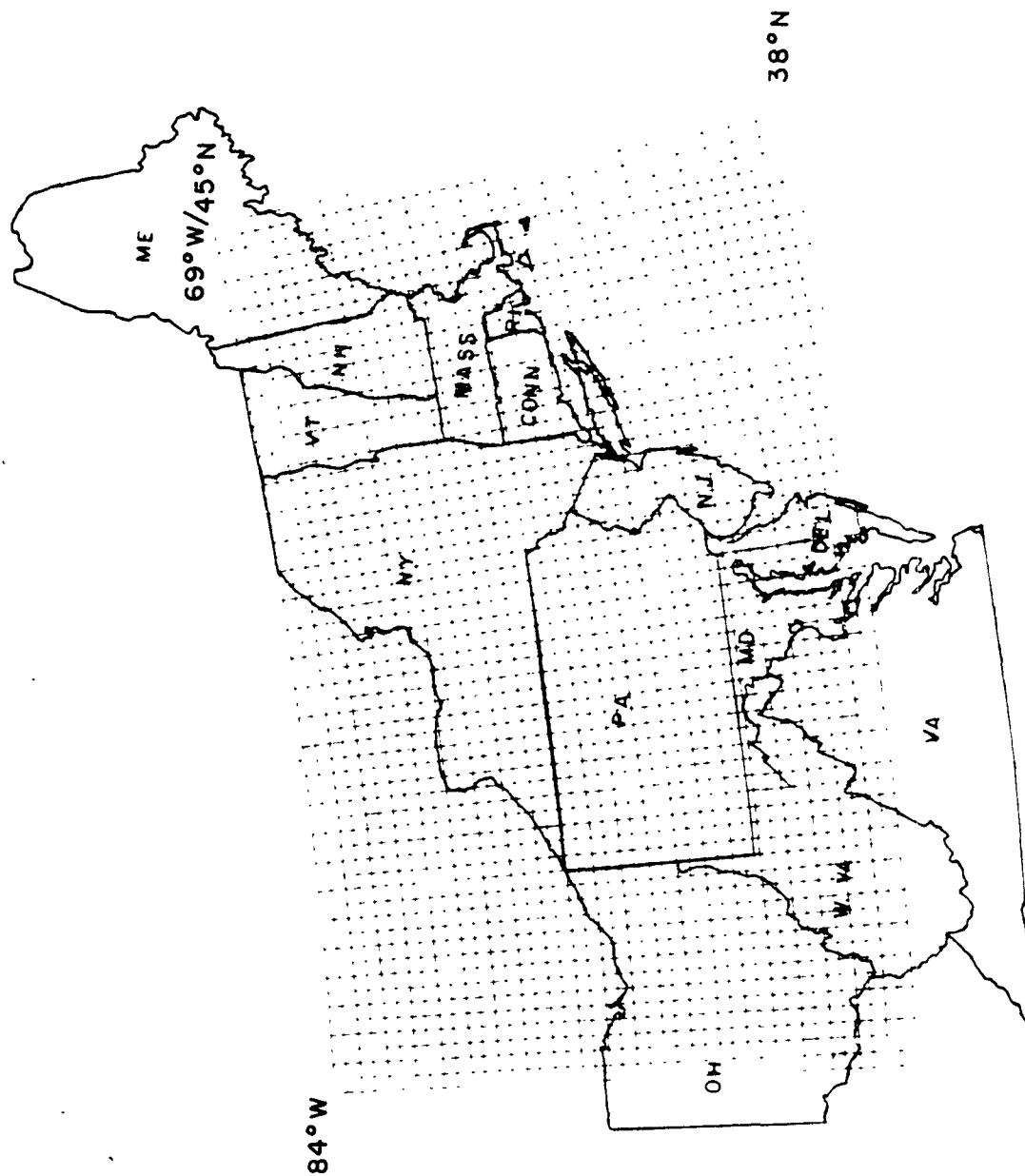


Figure 1. Boundaries of regional model grid system.

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 Connecticut, consists of five sections. Section 2 describes the project history and includes a summary of the major events that relate to the Connecticut 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. Computer routines used to fix "generic" problems with the Connecticut data are provided in Appendix C.

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 Connecticut Department of Environmental Protection (DEP) and the Environmental Protection Agency, Region I (EPA/Region I). The Connecticut DEP contact was responsible for confirming data, supplying required corrections or additional data, interfacing with individual sources as necessary, and concurring on the comprehensiveness and accuracy of the final data base. The Connecticut DEP contact was Mr. Ron Freeto (203) 566-2690.

SUMMARY OF EVENTS

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

Point Sources

Work on the Connecticut point source inventory occurred between October 1981 and February 1982. Although a computer tape was forwarded to the DEP in May 1981, the data were not supplied to GCA until October owing to delays encountered by the agency relating to higher priority 1982 SIP revision work. Major milestones are identified below.

- Computer tape sent to DEP for point source data 5/27/81
- NEDS data (1979/1980) received from Connecticut DEP 10/29/81
- QA audit completed, lists of problems sent to Project Officer, agency contacts 12/10/81
- Error listings returned to GCA with corrections 12/31/81
- Corrections reflected in completed EIS/PS Master File 2/1/82
- Completed inventory sent to EPA 3/2/82

Area Sources

The Connecticut area source inventory, reflecting primarily 1979 data, was sent to GCA in April 1981. Most work on this inventory was concentrated between April and June 1981. The point source inventory was procured late in October 1981 allowing GCA to verify that the point and area source inventories had been properly "balanced." Questions were then sent to the Connecticut DEP contact, who supplied resolutions on December 31, 1981. Other milestones are included below:

- Connecticut DEP sent 1979 Area Source Inventory 4/10/81
- Methodologies, data checked 5/8/81
- Verify "balance" with point source data 12/4/81
- Sent list of questions/problems to Project Officer, agency contacts 12/10/81
- Resolutions supplied to GCA 12/31/81
- Completed EIS/AS Master File sent to EPA 2/8/82

SECTION 3

POINT SOURCE INVENTORY

DATA PROCUREMENT

A computer tape was forwarded to the Connecticut DEP for a copy of their latest point source inventory on May 27, 1981. After significant delay related primarily to the 1982 SIP Revision work, which had higher priority, the inventory was received on October 29, 1981. The data reflected primarily 1979 data and were supplied in NEDS format as converted from Connecticut's STARTER system. The NEDS tape contained data on 10,239 individual points at 3,342 facilities.

DATA REVIEW AND UPDATE

The Connecticut NEDS file was converted into EIS/PS format using the GCA-modified version of the NEDS-to-EIS/PS Conversion Editor¹ described previously in Volume I.³ GCA encountered numerous problems related to the NEDS tape that had to be addressed prior to completion of the QA review. These included repetition of NEDS Card 1s for each point, incorrect hexadecimal bit patterns for alphabetic point identification numbers, and duplicate ID assignments. These "generic" problems were addressed using GCA-developed computer routines, which are described below.

The Connecticut NEDS file was subjected to several "fixes" employing EASYTRIEVE* programs to correct coding errors and missing data. Several programs were used for this purpose, copies of which are provided in Appendix C.

The first fix was to the percent annual thruput field, which was coded as blanks or zeros in many cases; the field was changed in this instance to reflect an equal seasonal distribution, i.e., four 25 percent values. Next, the redundant NEDS card 1s (facility cards) were deleted from the file. The third program addressed an SCC coding or conversion problem, whereby the last 2 digits of the 8-digit SCC field were missing. An SCC in this form is unacceptable to the editor, and was temporarily "fixed" by appending a "99" to the existing 6 digits. This does not necessarily generate a valid SCC code,

*EASYTRIEVE is a registered trademark of a software package from Pansophic Systems, Inc.

but did allow the data to be processed further; enabling identification of remaining errors. A listing of the point sources with the above SCC error was generated and sent to the Connecticut agency contact.

A character coding problem was discovered for all alphabetic point ID codes and fixed by program number 5. These codes were sent as "lower case" characters rather than "upper case" in the EBCDIC coding scheme. In the eight-bit representation of a character, one bit was "turned off," or equal to 0, when the opposite was expected. For example, the character "A" has an eight bit-value in EBCDIC of "11000001," whereas the lower case "a" is "10000001." The lower case characters were converted to upper case with a PL/1 program.

The final correction to the Connecticut files involved point source ID codes equal to "00." Technically, NEDS regards these as valid, but the EIS system does not handle them correctly; a disastrous sorting problem is encountered when building a master file with these ID's. Therefore, all points coded as "00" were changed to "ZZ."

The next QA measure involved cross-checking the VOC sources listed in the RACT Directory⁴ against those facilities included in the Connecticut inventory to identify possible omissions. Table 2 describes sources identified as being listed in the RACT Directory, but not in the Connecticut inventory, and the Connecticut DEP's resolution of these potential omissions.

GCA also identified Connecticut sources listed in the Organic Chemical Procedures Data Base,⁵ but not in the Connecticut inventory. These potential omissions, and their resolutions are presented in Table 3.

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 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.

In addition to the previously discussed problems which were addressed by computer routines (i.e., incomplete SCC codes, hexadecimal coding errors, repetitive Card 1s, etc.), numerous other problems were detected during the QA review. These included missing or erroneous UTM's and stack parameters and duplicate point IDs at the same plant. These problems were documented, along with the previously discussed errors, and forwarded to the Connecticut DEP on 10 December 1981 for resolution.

By far the most serious problem with the Connecticut point source file entailed incomplete SCC codes. Over 650 SCC records had incomplete SCCs. A printout identifying these points was included in the "error package" sent to Connecticut. The DEP supplied the corrected SCC codes along with responses to the remaining questions on December 31, 1981. The SCC codes were manually updated and verified through on-line editing of the Connecticut NEDS file. Other problems were corrected by coding NEDS update transactions, in compliance with the instructions provided in AEROS, Volume II.⁶ The NEDS update transactions were edited and translated into EIS/PS update transactions using the NEDS to EIS Conversion-Editor. The EIS/PS Masterfile was updated

TABLE 2. SUMMARY OF CONNECTICUT SOURCES LISTED IN THE RACT DIRECTORY⁴,
BUT NOT IN THE CONNECTICUT POINT SOURCE INVENTORY

RACT category	County	Source name	Resolution
Bulk Gasoline Terminals	New Haven	TAD Jones & Co.	New owner = Gulf Oil
Fabric Surface Coating	New Haven	Textile Prints Corp.	In area source inventory
Large Appliance Surface Coating	Fairfield	Electric Heater Co.	Insignificant source
Magnet Wire Coating	Fairfield	Asco Wire & Cable	In area source inventory
Industrial Perchloroethylene Dry Cleaners	Fairfield	Darien Cleaners Standard Dry Cleaners Thomas Laundry & Cleaners Farmington Ave. Cleaners Tower Cleaners	Not industrial dry cleaners
Packaging Rotogravure	Fairfield New London Windham	Anco Packing Flex Pack Printing Doring Labels Inc.	
Synthetic Organic Chemical Mfg.	Fairfield Hartford New Haven	Dow Corning Dexter Corp. CY/RO Industries	
Chemical Synthesis Pharmaceutical	New Haven	CPC International	

using the EIS/PS update transactions and the EIS/PS Masterfile Maintenance Program. A detailed list of the changes, additions, and deletions performed is provided in Table 4. Updates listed in Table 4 are in addition to the SCC corrections which were manually performed and the computer routine corrections of "generic" errors, described previously.

TABLE 3. CONNECTICUT SOURCES LISTED IN THE ORGANIC CHEMICAL PRODUCERS DATA BASE,⁵ BUT NOT IN THE CONNECTICUT INVENTORY

Facility name	Location	Resolution
Allied Products	New Haven	Registration number provided
Ames Labs	Milford	Included in area source inventory
Belding Chemical	Grosvenordale	Registration number provided
CY/RO Industries	Wallingford	Unknown source
Dexter Corp.	Rocky Hill	Insignificant source
Dow Corning	Trumbull	Included in area source inventory

GROWTH FACTORS

The Connecticut point source data represented 1979 and 1980 data. For reasons explained in Volume I,³ the 1979 point source data were not adjusted to 1980. Rather, the mixed 1979/1980 data were assumed to be reasonable approximations of 1980 data.

RESULTS

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

Statewide point source emissions for 1980 are presented, by category, in Table 5. County-specific point source emissions are presented, by category, in Appendix A of this volume.

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 1980 emissions for all five criteria pollutants, are presented in Table 6.

TABLE 4. UPDATES MADE TO CONNECTICUT POINT SOURCES

Facility	NEDS facility ID	Update action taken	Comments
<u>Fairfield County (0265)</u>			
Shell Oil	0167	Change UTM-X and Y Change SIC	
Arnold Bakers	3408	Delete erroneous TSP control equipment code	No control
Cos Cob Power Plant	3525	Add UTM Zone Add UTM-X and Y	
Beiersdorf Inc.	4239	Add UTM-X and Y	
Dixon Sintaloy	6158	Add UTM Zone Add UTM-X and Y	
Clairol	6624	Add UTM Zone Add UTM-X and Y	
Clairol	6625	Add UTM Zone Add UTM-X and Y	
Stamford Wrecking	6660	Add UTM Zone Add UTM-X and Y	
AVCO	7969	Add UTM-X and Y	
<u>Hartford County (0425)</u>			
Enhart	0101	Renumber repeated point IDs	
Krueger Briston	0717	Change UTM-X and Y	
Pratt and Whitney	1509	Change stack temperature Add plume data	
Texaco	1511	Add UTM-X and Y	
Farmington Ready Mix	2449	Change TSP control equipment code	Change 095 to 018

(continued)

TABLE 4 (continued)

Facility	NEDS facility ID	Update action taken	Comments
Kohn Realty	3645	Change point ID	Point one was duplicated
Cheney Brothers	5010	Add UTM-X and Y	
Stanley Hardware	5632	Change point IDs	Point IDs 1-45 were repeated but reflected points 46-90.
Combustion Engineering	8403	Change Plant ID	Apparent keypunching error
Krueger Bristol	0717	Change UTM-Y Change AQCR, recombine with rest of facility	
<u>Litchfield County (0478)</u>			
Kimberly-Clark	0606	Add UTM-X and Y	
WYCO Chromium	1205	Change point ID	Point 1 was used twice
Keratine Division	2073	Add UTM Zone Add UTM-X and Y	
<u>New Haven County (0705)</u>			
B.N. Beard	0917	Delete redundant point 1	
Hall Dye & Print	0919	Add UTM-X and Y	
Exxon	3353	Add UTM-X and Y	
Conn Hard Rubber	3371	Add UTM-X and Y	
Mobil Oil	3512	Add UTM-X and Y	
United Illuminating	3851	Add UTM Zone Add UTM-X and Y	

(continued)

TABLE 4 (continued)

Facility	NEDS facility ID	Update action taken	Comments
Upjohn Company	5406	Add UTM-X and Y	
GW Cook	6517	Delete points 1-4	No data
Armstrong Rubber	8012	Change point IDs 77-CZ	Point IDs 1-77 used twice
The Richardson Co.	8076	Change duplicate point 1 to point 29	
<u>New London County (0725)</u>			
Pfizer	0604	Change stack parameters	
General Dynamics	0605	Change duplicate point 1 to point 24	
Naval Submarine Base	0628	Add UTM-X and Y	
<u>Williams County (1505)</u>			
Buells Greenhouse	0405	Add UTM Zone Add UTM-X and Y	
Frito-Lay, Inc.	0665	Add UTM Zone Add UTM-X and Y	
Putnam Herzl Finishing	1713	Add UTM-X and Y Remember redundant point IDs	
Willimantic Housing Authority	2913	Change year of record Combine erroneous separate plants	

TABLE 5. CONNECTICUT POINT SOURCE EMISSIONS (1980) BY CATEGORY--STATEWIDE

GCA / TECHNOLOGY DIVISION
CONNECTICUT EMISSIONS BY CATEGORY 1980

STATE OR REGION TOTALS

CATEGORY	POINT COUNT	----- TSP	PRIMARY SU2	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 G-SOLINE AND CRUDE OIL STORAGE	2	0	0	0	32	0
4 SHIP AND BARGE TRANSFER OF VOC	0	0	0	0	0	0
5 BARGE AND TANK-R CLEANING	0	0	0	0	0	0
6 BULK GASOLINE TERMINALS	0	0	0	0	0	0
7 G-SOLINE TANK PLANTS	0	0	0	0	0	0
8 TANK TRUCK LOADING	10	0	0	0	430	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-CUT BACK, TRANSFER, MKT OF VOC	237	0	0	0	1252	0
12 LUBRICANT MANUFACTURE	1	4	13	43	0	0
13 PETROLEUM REFINERIES	0	0	0	0	0	0
14 PHARMACEUTICAL MANUFACTURE	47	4	0	0	560	156
15 TEXTILE POLYMERS & RESIN MANUFACTURE	177	44	9	0	372	0
16 SYNTHETIC FIBER MANUFACTURE	0	0	0	0	0	0
17 ORGANIC CHEMICAL MANUFACTURE	50	305	0	0	119	234
18 INORGANIC CHEMICAL MANUFACTURE	4	0	0	0	0	0
19 FERTILIZATION PROCESSES	0	0	0	0	0	0
20 WASTE TILL OIL PROCESSING	0	0	0	0	0	0
21 PLASTIC PRODUCTS MANUFACTURE	140	29	0	4	754	0
22 RUBBER TIRE MANUFACTURE	2	37	0	0	104	0
23 SYN. RUBBER MANUFACTURE	16	0	0	0	88	0
24 OTHER CHEMICAL MANUFACTURE	240	37	1	6	308	1
25 IRON AND STEEL MANUFACTURE	106	360	0	16	5	1056
26 TREMCEL PRODUCTS	0	4	0	0	0	0
27 FOOD PRODUCTS	61	68	0	1	252	0
28 TANNERY AND HIDE PRODUCTS	14	26	0	1	1831	0
29 LUMBER AND WOOD PRODUCTS	10	16	0	0	0	0
30 PAPER AND PULPED PRODUCTS	20	7	0	0	0	0
31 STONEREL AND CONCRETE	385	5750	2	7	0	0
32 FERTILIZER & AGROCHEMICALS	554	138	0	7	22	3665
33 FERTILIZER METAL PRODUCTS	1118	234	1	5	69	12
34 IN-PROCESS FUEL USE	667	89	767	1213	17	108
35 OTHERS - (INDUSTRIAL PROCESSES)	210	48	0	1	300	3
36 ADHESIVES	1	0	0	0	25	0
37 INC. SEC. COATING-LARGE APPLIANCES	0	0	0	0	0	0
38 INC. SEC. COATING-VACUUM TIRE	15	0	0	0	173	0
39 INC. SEC. COATING-AUTOMOBILE	0	0	0	0	0	0
40 INC. SEC. COATING-CAKES	18	7	0	0	1415	0
41 INC. SEC. COATING-METAL COILS	5	0	0	0	3377	0
42 INC. SEC. COATING-PAPER	17	0	0	0	484	0
43 INC. SEC. COATING-FABRIC	29	9	0	0	894	0
44 INC. SEC. COATING-MISC. FURNITURE	0	0	0	0	0	0
45 INC. SEC. COATING-METAL/WOOD PRODUCTS	7	0	0	0	45	0
46 PLASTIC PARTS PAINTING	0	0	0	0	0	0
47 LARGEST SITES	5	0	0	0	134	0
48 LARGEST SITES	4	0	0	0	145	0
49 INC. SEC. COATING-INDUSTRIAL PRODUCTS	126	1	0	0	1286	0
50 OTHERS - (INDUSTRIAL SURFACE COATING)	61	0	0	0	230	101

TABLE 5 (continued)
 GCA / TECHNOLOGY DIVISION
 CONNECTICUT EMISSIONS BY CATEGORY 1988

CATEGORY	POINT COUNT	PRIMARY EMISSIONS (TONS/YEAR)				-----	
		TSP	SO2	NOX	HF	CO	CO2
51 DEGREASING	33	0	0	0	2155	0	0
52 DRY CLAYING	26	0	0	0	222	0	0
53 GRAPHIC ARTS	50	0	0	0	1151	0	0
54 OTHER - (SOLVENT USE)	0	0	0	0	0	0	0
55 ARCHITECTURAL COATINGS	0	0	0	0	0	0	0
56 AUTO REFINISHING	0	0	0	0	0	0	0
57 OTHERS - (NON-INDUSTRIAL SURFACE COATING)	0	0	0	0	0	0	0
58 EXT. COMB. BOILERS-ELEC. GENERATION	50	4270	30835	44157	430	2135	2135
59 EXT. COMB. BOILERS-INDUSTRIAL	1682	1452	11769	8995	80	532	532
60 EXT. COMB. BOILERS-COMM/INST	3247	626	7202	5221	15	246	246
61 EXT. COMB. SPACE HEATERS-INDUCT.	35	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 - (VET.	60	1369	419	723	259	4789	4789
65 SOLID WASTE DISPOSAL - COMM/INST	496	124	48	65	68	207	207
66 SOLID WASTE DISPOSAL - INDUSTRIAL	202	77	99	157	64	107	107
67 OTHER SOLID WASTE DISPOSAL	0	0	0	0	0	0	0
68 WASTE SOLVENT RECOVERY PROCESSES	55	0	0	0	552	0	0
69 STATICARY INTERNAL COMBUSTION ENGINES	235	263	306	1658	1092	815	815
70 NOT CLASSIFIED	17	0	0	0	19	0	0
STATE OR REGION TOTALS		16231	51422	62292	14295	14256	14256

TABLE 6. CONNECTICUT POINT SOURCES (1980) EMITTING MORE THAN 100 TONS/YR OF VOC OR NO_x

1980 RMP 1980 NEWS DATA INVENTORY
LARGE FACILITIES SELECTED
FOR CONNECTICUT

STATE	COUNTY	ADDR	PLANT	FACILITY	TSP (****)	SC2 (****)	NOX (100)	HC (100)	CO (****)
7	265	43	0167	STELL OIL CO	0	0	0	125	0
7	265	43	0195	UNITED ILLUMINATING CO	1081	11020	14554	138	694
7	265	43	0197	GENERAL ELECTRIC CO	30	207	156	3	12
7	265	43	2245	COLUMBIA MAGNETICS	3	16	6	269	1
7	265	43	2434	NATIONAL CAN CORP	0	0	12	101	0
7	265	43	2503	J I DUFOUR	2	18	23	124	3
7	265	43	3468	ARNOLD BAKERS INC	651	169	303	20	42
7	265	43	3525	CCS COR FOOD PLANT	2	10	6	100	0
7	265	43	4132	FABRIC FIRE FIGHT CO	26	147	111	6	15
7	265	43	4134	FAIRFIELD HILLS HOSPITAL	90	4501	5947	58	285
7	265	43	4214	CONA LIGHT AND POWER CO	0	7	9	100	0
7	265	43	4225	PERFECTIDE FARM, INC	15	14	184	16	42
7	265	43	4491	SG. NORWALK ELEC. WORKS	0	0	2	872	0
7	265	43	5965	ACPL PACKING CORP	99	166	109	99	2321
7	265	43	6375	STANFORD MUNICIPAL INC	20	136	102	1	9
7	265	43	7515	SIKESKY AIRCRAFT DIV.	9	31	119	33	0
7	265	43	7576	RAYCHEM CHEMICAL CO	57	45	220	342	7
7	265	43	7587	ACCEL CHEMICAL CO	2	0	673	278	64
7	265	43	7588	ROSS INC ROBERTS INC	2	11	9	379	0
7	265	43	7589	SCHARR INDUSTRIES	4	40	43	156	2
7	265	43	7590	PRATT AND WHITELY	33	241	217	182	18
7	265	43	7591	HARTFORD STEAM SERVICE	0	0	3	114	0
7	265	43	7592	HELCO	0	0	0	494	0
7	265	43	7593	HCC HARTFORD ST	273	652	958	676	511
7	265	43	7594	STANLEY MACHINERY DIV	20	136	102	1	9
7	265	43	7595	CONTECH NATURAL GAS CORP.	150	45	220	33	0
7	265	43	7596	CONTECH NATURAL GAS CORP.	57	70	95	342	7
7	265	43	7597	CONTECH NATURAL GAS CORP.	2	0	673	278	64
7	265	43	7598	CONTECH NATURAL GAS CORP.	2	11	9	379	0
7	265	43	7599	CONTECH NATURAL GAS CORP.	4	40	43	156	2
7	265	43	7600	CONTECH NATURAL GAS CORP.	33	241	217	182	18
7	265	43	7601	CONTECH NATURAL GAS CORP.	0	0	3	114	0
7	265	43	7602	CONTECH NATURAL GAS CORP.	0	0	0	494	0
7	265	43	7603	CONTECH NATURAL GAS CORP.	33	237	204	3	19
7	265	43	7604	CONTECH NATURAL GAS CORP.	2	6	14	154	0
7	265	43	7605	CONTECH NATURAL GAS CORP.	26	166	120	79	13
7	265	43	7606	CONTECH NATURAL GAS CORP.	36	72	59	119	28
7	265	43	7607	CONTECH NATURAL GAS CORP.	772	5614	7727	773	365
7	265	43	7608	CONTECH NATURAL GAS CORP.	4	28	52	732	4
7	265	43	7609	CONTECH NATURAL GAS CORP.	0	0	0	319	0
7	265	43	7610	CONTECH NATURAL GAS CORP.	1	0	0	229	0
7	265	43	7611	CONTECH NATURAL GAS CORP.	0	2	1	3375	0
7	265	43	7612	CONTECH NATURAL GAS CORP.	7	0	2	14049	0
7	265	43	7613	CONTECH NATURAL GAS CORP.	325	2479	3935	36	169
7	265	43	7614	CONTECH NATURAL GAS CORP.	2	15	12	106	0
7	265	43	7615	CONTECH NATURAL GAS CORP.	37	195	131	42	11
7	265	43	7616	CONTECH NATURAL GAS CORP.	1	4	3	1000	0
7	265	43	7617	CONTECH NATURAL GAS CORP.	10	79	120	1	5
7	265	43	7618	CONTECH NATURAL GAS CORP.	32	192	144	0	8
7	265	43	7619	CONTECH NATURAL GAS CORP.	40	231	175	4	22
7	265	43	7620	CONTECH NATURAL GAS CORP.	0	0	0	107	0
7	265	43	7621	CONTECH NATURAL GAS CORP.	0	0	0	229	0
7	265	43	7622	CONTECH NATURAL GAS CORP.	0	0	0	131	0
7	265	43	7623	CONTECH NATURAL GAS CORP.	34	224	166	3	14

TABLE 6 (continued)

NECRMP 1980 NEEDS DATA INVENTORY
LARGE FACILITIES SELECTED
FOR CONNECTICUT

STATE	COUNTY	ACCR	PLANT	FACILITY	ISP (****)	S&C (****)	NOV (190)	HC (100)	CS (****)
7	705	42	3851	UNITED ILLUMINATING CO	35	3437	7530	71	358
7	705	42	5406	WEJUNO CUM	30	139	107	38	9
7	705	42	6527	AMERICAN CYANAMID	73	179	168	286	21
7	705	42	7028	CENTURY PRASS PRODUCTS	160	356	272	176	68
7	705	42	7033	SOMERS THER. STRIP	0	8	4	493	3
7	705	42	8012	EMERSON ROBER CO	42	73	05	404	4
7	705	42	8133	BRITISH PLASTIC CO	1	4	2	124	2
7	705	41	0584	FFIZR INC - CHEMICALS	125	1719	098	653	241
7	705	41	0625	GENERAL DYNAMICS	29	166	107	133	9
7	705	41	0628	NAVAL GUERAMINE BASE	46	301	228	3	20
7	705	41	1202	OLD CHEMICAL CO	23	110	71	155	9
7	705	41	1505	CONN LIGHT & POWER CO	438	2954	3909	37	188
7	705	41	3102	FEDERAL PAPER BOARD INC	94	620	468	2	39
7	1105	41	0615	UNIV OF CONNECTICUT	25	235	175	2	16
7	1105	41	0621	INF COO	14	24	19	303	2
7	1105	42	1216	VERDELL CORP	16	56	48	341	3
7	1005	41	0514	GLASS CONTAINERS CORP	248	265	225	3	10
7	1505	41	1103	PERVILL IND INC	15	35	36	655	2
7	1505	41	1705	WELING HERMWAY CO INC	3	42	45	126	1
7	1505	41	1713	FUTMAN HERZL FINISHING	2	18	17	163	2
TOTALS					6066	38502	51486	31113	5866

The completed Connecticut point source inventory was written onto computer tape for delivery to EPA. Included on the tape, which was forwarded on March 2, 1982, were the following files.

- Original NEDS (1980) submission
- NEDS (1980) after computerized corrections
- EIS/PS Master File (1980)
- "New" NEDS (converted from 1980 EIS/PS Master File)

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

SECTION 4

AREA SOURCE INVENTORY DEVELOPMENT

OBJECTIVES

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

DATA PROCUREMENT AND REVIEW

The 1979 Connecticut area source inventory was supplied in hard copy format on April 10, 1981 by the Connecticut DEP. The inventory reflected county summaries of emissions of all five criteria pollutants from 52 separate area source categories. However, these categories did not correspond well with the 54 NECRMP area source categories.

The area source inventory was reviewed for comprehensiveness and consistency with the area source methodologies presented in Volume I.³ The inventory was relatively comprehensive. However, three of the Connecticut area source categories had to be further disaggregated to conform with the NECRMP categories: on-highway vehicles, gasoline marketing, and vessels. Additionally, Connecticut reported one "solvents purchased" category which was initially assumed to cover dry cleaning and commercial/consumer solvent use. However, the DEP later indicated that the category actually reflected only dry cleaning.

GCA also identified six apparently omitted area source categories:

- Pesticides
- Autobody refinishing

- Off-highway gasoline
- Incineration
- Field/slash burning
- Commercial/consumer solvent use

The above discussed items were included on a list of questions sent to the DEP on December 10, 1981. Responses were provided by the DEP on December 31, 1981. Resolutions of the above questions are discussed individually, as follows.

Pesticides

The DEP indicated that pesticide emissions were not available, owing to the lack of usage data. GCA calculated pesticide emissions assuming an emission rate of 3.5 #/acre. Harvested acreage was obtained from the Census Bureau County and City Data Book.⁷

Autobody Refinishing

The DEP provided the State total of VOC emissions from autobody refinishing. GCA verified that the statewide emission total represented the EPA recommended factor of 1.9 #/capita when divided by the 1980 population. GCA then calculated countywide emissions using the above emission factor and countywide population from the 1980 census.⁸

Incineration

The Connecticut DEP indicated that all incinerators are permitted and, thus, included in the Connecticut point source inventory, regardless of size. Area source emissions from this category were therefore assumed to be insignificant.

Field/Slash Burning

The DEP indicated that emissions from field/slash burning were included in "open burning." Therefore, this category was reported as having no VOC or NO_x emissions.

Commercial/Consumer Solvent Use

The DEP provided a statewide total of VOC emissions from commercial/consumer solvent use. GCA verified that the emission total represented the EPA recommended factor of 6.3 #/capita when divided by the 1980 population. GCA calculated emissions on a countywide basis using the above factor and the 1980 census.⁸

Gasoline Marketing

The DEP provided individual emission factors for the four gasoline marketing categories included in the NECRMP study. These factors enabled GCA to disaggregate the gasoline marketed emissions for each county into the following categories:

- Tank truck unloading (Stage I)
- Vehicle fueling (Stage II)
- Storage tank breathing
- Loading/transit losses.

Architectural Surface Coating

The DEP provided a statewide total of VOC emissions from architectural surface coating. GCA verified that the statewide emission total reflected the EPA recommended emission factor of 4.6 #/capita when divided by the 1980 population. GCA calculated countywide emissions using the above emission factor and countywide population from the 1980 census.⁸

On-Highway Motor Vehicles

The DEP provided countywide emissions from all on-highway vehicles. Vehicle type-specific emissions were unavailable. GCA included all on-highway emissions in one composite category (Number 55).

DEVELOPMENT OF THE EIS/AS MASTER FILE

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

As mentioned earlier, there was some deviation from the 54 NECRMP area source categories identified in Volume I.³ Table 7 presents a list of the area source categories included in the Connecticut portion of the NECRMP inventory. Also identified for each category is the type of VOC represented by the emission factor (total or reactive).

RESULTS

Statewide totals of VOC and NO_x emissions from area sources in Connecticut are provided in Table 8. Countywide summaries are presented in Appendix B.

TABLE 7. AREA SOURCE CATEGORIES INVENTORIED FOR CONNECTICUT

EIS/AS Category No.	Year of data		Pollutants inventoried
001	1979	Stage I Gasoline Evaporation	TVOC
002	1979	Stage II Gasoline Evaporation	TVOC
003	1979	Storage Tank Breathing	TVOC
004	1979	Gasoline Loading/Transit	TVOC
005	1979	Small Industrial/Commercial Degreasing	RVOC
006	1979	Dry Cleaning	RVOC
007	1980	Architectural Surface Coating	RVOC
008	1980	Autobody Refinishing	RVOC
009	1979	Small Industrial Surface Coating	TVOC
010	1979	Graphic Arts	RVOC
011	1980	Commercial/Consumer Solvent Use	RVOC
012	1979	Cutback Asphalt	RVOC
013	1980	Pesticides	RVOC
020	1979	Residential Anthracite Coal	TVOC NO _x
021	1979	Residential Bituminous Coal	TVOC NO _x
022	1979	Residential Residual Oil	TVOC NO _x
023	1979	Residential Distillate	TVOC NO _x
024	1979	Residential Natural Gas	TVOC NO _x
025	1979	Residential LPG	TVOC NO _x
026	1979	Residential Wood	RVOC NO _x
027	1979	Commercial/Institutional Anthracite	TVOC NO _x
028	1979	Commercial/Institutional Bituminous	TVOC NO _x
029	1979	Commercial/Institutional Residual Oil	TVOC NO _x
030	1979	Commercial/Institutional Distillate Oil	TVOC NO _x
031	1979	Commercial/Institutional Natural Gas	TVOC NO _x
032	1979	Commercial/Institutional LPG	TVOC NO _x
033	1979	Commercial Institutional Wood/other	TVOC NO _x

(continued)

TABLE 7 (continued)

EIS/AS Category No.	Year of data		Pollutants inventoried
034	1979	Industrial Anthracite	TVOC NO _x
035	1979	Industrial Bituminous	TVOC NO _x
036	1979	Industrial Residual Oil	TVOC NO _x
037	1979	Industrial Distillate Oil	TVOC NO _x
038	1979	Industrial Natural Gas	TVOC NO _x
039	1979	Industrial LPG	TVOC NO _x
040	1979	Industrial Wood/other	TVOC NO _x
041	1979	Military Aircraft	TVOC NO _x
042	1979	Civil Aircraft	TVOC NO _x
043	1979	Commercial Aircraft	TVOC NO _x
044	1979	Railroad Locomotives	TVOC NO _x
045	1979	Gasoline Powered Vessels	TVOC NO _x
046	1979	Distillate Oil Powered Vessels	TVOC NO _x
047	1979	Residual Oil Powered Vessels	TVOC NO _x
048	1979	Off-Highway Vehicles--Gas	TVOC NO _x
049	1979	Off-Highway Vehicles--Diesel	TVOC NO _x
050	1979	Onsite Incineration	TVOC NO _x
051	1979	Open Burning	TVOC NO _x
052	1979	Structural Fires	TVOC NO _x
053 ^a	1979	Field/Slash Burning	TVOC NO _x
054	1979	Forest Fires	TVOC NO _x
055	1979	On-Highway Vehicles	RVOC NO _x

^aReported as zero, emissions are included in Category 051, open burning.

TABLE 8. ANNUAL EMISSIONS (1979/1980) OF VOC AND NO_x FROM AREA SOURCES IN CONNECTICUT

GCA / TECHNOLOGY DIVISION AREA SOURCE MASTER FILE SUMMARY FOR CONNECTICUT						
STATE SUMMARY						
CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RATE	UNITS	POLLUTANT EMISSION FACTOR L.B.	EMISSIONS ESTIMATE	
001	STAGE I GASOLINE EVAP	1362636	THOUS GAL	NOX VOC	0 4972	
002	STAGE II GASOLINE EVAP	1362636	THOUS GAL	NOX VOC	0 6492	
003	STORAGE TANK BREATHING	1362636	THOUS GAL	NOX VOC	0 642	
004	GASOLINE LOADING/TRANSIT	1362636	THOUS GAL	NOX VOC	0 87	
005	SH IND/COMM DEGREASING	5130	TON	NOX VOC	0 5130	
006	DRY CLEANING	4245	TON	NOX VOC	0 451	
007	ARC: SURFACE COATING	3107576	POPULATION	NOX VOC	0 7147	
008	AUTO BODY REFINISHING	3107576	POPULATION	NOX VOC	0 2952	
009	SH IND SURFACE COATING	10211	TON	NOX VOC	0 10201	
010	GRAPHIC ARTS	3310	TON	NOX VOC	0 3310	
011	COMM/CONS SOLVENT USE	3107576	POPULATION	NOX VOC	0 9789	
012	CUTBACK ASPHALT	2219	TON	NOX VOC	0 2219	
013	PESTICIDES	16552	ACRE	NOX VOC	0 282	

TABLE 8 (continued)

STATE SUMMARY						
SCA / TECHNOLOGY DIVISION AREA SOURCE MASTER FILE SUMMARY FOR CONNECTICUT						
CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS DATE	UNITS	POLLUTANT I.D.	EMISSION FACTOR	EMISSIONS ESTIMATE
020	RESIDENTIAL ANTHRACITE	27675 TON		NOX VOC		42 35
023	RESIDENTIAL DISTILLATE	624275 THOUS GAL		NOX VOC		5618 312
024	RESIDENTIAL NATURAL GAS	32111 MIL CU FT		NOX VOC		1284 128
025	RESIDENTIAL LPG	43917 THOUS GAL		NOX VOC		174 16
026	RESIDENTIAL WOOD	17389 TON		NOX VOC		9 45
030	COMM/INST DISTILLATE OIL	51930 THOUS GAL		NOX VOC		571 26
031	COMM/INST NATURAL GAS	12207 MIL CU FT		NOX VOC		733 48
037	INDUSTRIAL DISTILLATE OIL	19525 THOUS GAL		NOX VOC		214 8
038	INDUSTRIAL NATURAL GAS	7992 MIL CU FT		NOX VOC		479 12
041	MILITARY AIRCRAFT	9515 LND/TAKE OFF		NOX VOC		8 25
042	CIVIL AIRCRAFT	556088 LND/TAKE OFF		NOX VOC		14 112
043	COMMERCIAL AIRCRAFT	75273 LND/TAKE OFF		NOX VOC		2037 2399
044	RAILROAD LOCOMOTIVES	10773 THOUS GAL		NOX VOC		1993 506

TABLE 8 (continued)

GCA / TECHNOLOGY DIVISION
AREA SOURCE MASTER FILE SUMMARY
FOR CONNECTICUT

STATE SUMMARY						
CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RATE	UNITS	POLLUTANT I.D.	EMISSION FACTOR	EMISSIONS ESTIMATE
045	VESSELS - GASOLINE	11570 THOUS GAL		NOX		38
				VOC		6365
047	VESSELS - RESIDUAL OIL	4906 THOUS GAL		NOX		95
				VOC		43
049	OFF-HIGHWAY VEH - DIESEL	22903 THOUS GAL		NOX		4573
				VOC		324
052	STRUCTURAL FIRES	12033 FIRES		NOX		11
				VOC		26
054	FOREST FIRES	37460 TCH		NOX		37
				VOC		375
055	ON-HIGHWAY VEHICLES-GAS	19281542 THOUS VMT		NOX		95233
				VOC		103104
STATE OR REGION TOTALS				NOX		113163
				VOC		167730

SECTION 5

REFERENCES

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APPENDIX A

POINT SOURCE EMISSIONS BY CATEGORY FOR THE
CONNECTICUT COUNTIES

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

<u>County</u>	<u>EIS/NEDS County Code</u>
Fairfield	0265
Hartford	0425
Litchfield	0478
Middlesex	0565
New Haven	0705
New London	0725
Tolland	1155
Windham	1505

TABLE A-1. COUNTY SUMMARIES OF POINT SOURCE EMISSIONS (1980) FOR CONNECTICUT

GCA / TECHNOLOGY DIVISION
CONNECTICUT EMISSIONS BY CATEGORY 1980

COUNTY:0235

CATEGORY	POINT COUNT	----- TSP	PRIMARY SU2	SCC EMISSIONS SU2	NUX	HC (TONS/YEAR)	CO (TONS/YEAR)
1 OIL AND GAS PRODUCTION & PROCESSING	0	0	0	0	0	0	0
2 SOL. ORGANIC CHEM. STORAGE & TRANSFER	0	0	0	0	0	0	0
3 GASOLINE & DIESEL OIL STORAGE	2	0	0	0	0	32	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	3	0	0	0	0	71	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, TRANSFER, MKT OF VOC	50	0	0	0	0	147	0
12 COAL OIL MANUFACTURE	0	0	0	0	0	0	0
13 PETROLEUM REFINERIES	1	0	0	0	0	0	0
14 PHARMACEUTICAL MANUFACTURE	0	0	0	0	0	0	0
15 TEXTILE POLYMERS & RESIN MANUFACTURE	7	0	0	0	0	6	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 PROCESSES	0	0	0	0	0	0	0
20 VEGETABLE OIL PROCESSING	0	0	0	0	0	0	0
21 PLASTIC PRODUCTS MANUFACTURE	61	11	0	0	1	46	0
22 RUBBER, PLASTIC MANUFACTURE	1	0	0	0	0	0	0
23 SOFT RUBBER MANUFACTURE	1	0	0	0	0	51	0
24 OTHER CHEMICAL MANUFACTURE	75	0	0	0	0	0	0
25 IRON AND STEEL MANUFACTURE	44	39	0	0	4	3	971
26 TOBACCO PRODUCTS	0	0	0	0	0	0	0
27 FOOD PRODUCTS	19	2	0	0	1	252	0
28 TEXTILE MILL PRODUCTS	14	1	0	0	0	132	0
29 LUMBER AND WOOD PRODUCTS	4	0	0	0	0	0	0
30 PAPER AND RELATED PRODUCTS	1	0	0	0	0	0	0
31 STONE, CLAY, GLASS, CERAMIC	44	137	0	0	0	0	0
32 PRIMARY & SECONDARY METALS & ELECTRICAL	110	34	0	0	0	0	3637
33 FABRICATED METAL PRODUCTS	150	39	0	0	0	4	11
34 IN-PROCESS FUEL USE	155	0	75	249	2	8	0
35 OTHERS - (INDUSTRIAL PROCESSES)	7	1	0	0	1	1	0
36 ADHESIVES	1	0	0	0	0	25	0
37 INCL. SEC. COATING-LARGE APPLIANCES	0	0	0	0	0	0	0
38 INCL. SEC. COATING-PAINTS	0	0	0	0	0	0	0
39 INCL. SEC. COATING-AUTO COILS	0	0	0	0	0	0	0
40 INCL. SEC. COATING-CA'S	10	0	0	0	0	101	0
41 INCL. SEC. COATING-METAL COILS	7	0	0	0	0	0	0
42 INCL. SEC. COATING-PAPER	4	0	0	0	0	181	0
43 INCL. SEC. COATING-FABRIC	4	0	0	0	0	3	0
44 INCL. SEC. COATING-MISC. FURNITURE	0	0	0	0	0	0	0
45 INCL. SEC. COATING-MISC. WOOD PRODUCTS	0	0	0	0	0	0	0
46 PLASTIC PARTS FINISHING	0	0	0	0	0	0	0
47 LUMBER SHIPS	0	0	0	0	0	0	0
48 LUMBER AND CPWF	4	0	0	0	0	145	0
49 INCL. SEC. COATING-MISC. METAL PRODUCTS	24	1	0	0	0	256	0
50 OTHERS - (INDUSTRIAL SURFACE COATING)	33	0	0	0	0	380	0

TABLE A-1 (continued)

SCA / TECHNOLOGY DIVISION:
CONNECTICUT EMISSIONS BY CATEGORY 1980

COUNTY: 265

CATEGORY	FCNT COUNT	----- PRIMARY -----			SCC EMISSIONS (TONS/YEAR)			-----		
		TSP	SO2	NOX	HC	CO	CO	CO	CO	CO
51 DEGREASING	7	0	0	0	170	0				
52 DRY CLEANING	12	0	0	0	72	0				
53 GRAPHIC ARTS	12	0	0	0	741	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- (MET-INDUSTRIAL SURFACE COATING)	0	0	0	0	0	0				
58 EXT. COMB. BOILERS-ELEC. GENERATION	11	2426	15724	20857	214	1020				
59 EXT. COMB. BOILERS-INDUSTRIAL	434	228	1799	1413	4	36				
60 EXT. COMB. BOILERS-COMM/INST	869	111	1678	1188	6	45				
61 EXT. COMB. SPACE HEATERS-INDUST.	10	0	4	5	0	0				
62 EXT. COMB. SPACE HEATERS-COMM.	1	0	1	1	1	0				
63 OTHERS- (FUEL COMBUSTION)	0	0	0	0	0	0				
64 SOLID WASTE DISPOSAL-INDUST.	16	236	249	395	150	3454				
65 SOLID WASTE DISPOSAL-COMM/INST	110	43	11	21	40	59				
66 SOLID WASTE DISPOSAL-INDUSTRIAL	76	27	35	62	24	44				
67 OTHER SOLID WASTE DISPOSAL	0	0	0	0	0	0				
68 WASTE SOLVENT RECOVERY PROCESSES	10	0	0	0	65	0				
69 STATICALLY INTERNAL COMBUSTION ENGINES	46	23	28	244	40	67				
70 NOT CLASSIFIED	0	0	0	0	0	0				
COUNTY TOTALS		3602	19614	24352	3783	9472				

TABLE A-1 (continued)

CCA / TECHNOLOGY DIVISION
CONNECTICUT EMISSIONS BY CATEGORY 1980

COUNTY:0425

CATEGORY	POINT COUNT	----- ISO	PRIMARY SOC	EMISSIONS NOX	(TONS/YEAR) HC	----- CO
1 OIL AND GAS PRODUCTION & PROCESSING	6	0	0	0	0	0
2 SOL. ORGANIC CHEM. STORAGE & TRANSFER	3	0	0	0	0	0
3 GASOLINE AND CRUDE OIL STORAGE	3	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	5	0	0	0	63	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 CHEMS-(STORAGE, TRANSP., LKT OF VOC)	48	0	0	0	170	0
12 LULU OIL MANUFACTURE	1	4	19	43	0	0
13 PETROLEUM REFINERIES	0	0	0	0	0	0
14 PHARMACEUTICAL MANUFACTURE	0	0	0	0	0	0
15 TEXTILE POLYMERS & RESIN MANUFACTURE	0	0	0	0	0	0
16 SYNTHETIC FIBER MANUFACTURE	0	0	0	0	0	0
17 ORGANIC CHEMICAL MANUFACTURE	0	0	0	0	0	0
18 INORGANIC CHEMICAL MANUFACTURE	0	0	0	0	0	0
19 FERTILIZATION PROCESSES	0	0	0	0	0	0
20 VEGETABLE OIL PROCESSING	0	0	0	0	0	0
21 PLASTIC PRODUCTS MANUFACTURE	14	1	0	0	229	0
22 RUBBER TIRE MANUFACTURE	1	2	0	0	0	0
23 SER. RUBBER MANUFACTURE	0	0	0	0	0	0
24 OTHER CHEMICAL MANUFACTURE	26	13	0	0	28	0
25 IRON AND STEEL MANUFACTURE	70	258	0	6	0	36
26 T-BALL PRODUCTS	2	4	0	0	0	0
27 FUEL PRODUCTS	12	34	0	0	0	0
28 TEXTILE MILL PRODUCTS	4	0	0	1	0	0
29 LUMBER AND PAPER PRODUCTS	3	6	0	0	0	0
30 PAPER AND ALLIED PRODUCTS	4	2	0	0	0	0
31 STONE, CLAY, GLASS, CONCRETE	109	4479	1	5	0	0
32 PRIMARY & SECONDARY METALS & ELECTRICAL	63	354	0	0	6	0
33 FABRICATED METAL PRODUCTS	452	93	0	1	57	0
34 IN-PROCESS FUEL USE	201	24	79	168	5	24
35 OTHERS - (INDUSTRIAL PROCESSES)	0	0	0	0	0	0
36 ADHESIVES	0	0	0	0	0	0
37 IND. SEC. COATING-LARGE APPLIANCES	0	0	0	0	0	0
38 IND. SEC. COATING-MACHINERY	3	0	0	0	148	0
39 IND. SEC. COATING-AUTOMOBILE	0	0	0	0	0	0
40 IND. SEC. COATING-CARS	0	0	0	0	0	0
41 IND. SEC. COATING-METAL COILS	0	0	0	0	0	0
42 IND. SEC. COATING-PAPEL	1	0	0	0	9	0
43 IND. SEC. COATING-FABRIC	0	0	0	0	0	0
44 IND. SEC. COATING-MISC. FURNITURE	0	0	0	0	0	0
45 IND. SEC. COATING-METAL/WOOD PRODUCTS	0	0	0	0	0	0
46 PLASTIC PARTS PAINTING	0	0	0	0	0	0
47 LARGE SHIPS	0	0	0	0	0	0
48 LARGE SHIP PAINT	0	0	0	0	0	0
49 IND. SEC. COATING-MISC. METAL PRODUCTS	63	0	0	0	667	0
50 OTHERS - (INDUSTRIAL SURFACE COATING)	5	0	0	0	179	0

TABLE A-1 (continued)

SCA / TECHNOLOGY DIVISION
CONNECTICUT EMISSIONS BY CATEGORY 1980

COUNTY:0425

CATEGORY	POINT COUNT	----- TSP	PRIMARY SO2	SCC NOX	EMISSIONS (TONS/YEAR)	----- HC	CO
51 OILCRAKING	0	0	0	0	0	187	0
52 DRY CLEANING	8	0	0	0	0	24	0
53 GRAPHIC ARTS	14	0	0	0	0	30	0
54 OTHER - (SOLVENT USE)	0	0	0	0	0	0	0
55 ARCHITECTURAL COATINGS	0	0	0	0	0	0	0
56 AUTO FINISHING	0	0	0	0	0	0	0
57 OTHERS-(AC)-INDUSTRIAL SURFACE COATING)	0	0	0	0	0	0	0
58 EXT. COMB. BOILERS-ELEC. GENERATION	2	2	22	29	0	0	1
59 EXT. COMB. BOILERS-INDUSTRIAL	367	309	2362	2178	16	144	144
60 EXT. COMB. BOILERS-COMM/INST.	925	136	1777	1260	1	51	51
61 EXT. COMB. SPACE HEATERS-INDUST.	11	0	0	0	0	0	0
62 EXT. COMB. SPACE HEATERS-COMM.	2	0	0	2	0	0	0
63 OTHERS-(FUEL COMBUSTION)	0	0	0	0	0	0	0
64 SOLID WASTE DISPOSAL-GOV'T.	16	453	122	318	75	901	901
65 SOLID WASTE DISPOSAL-COMM/INST.	154	34	12	34	14	77	77
66 SOLID WASTE DISPOSAL-INDUSTRIAL	50	14	3	4	15	24	24
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	129	200	199	1150	914	617	617
70 NOT CLASSIFIED	0	0	0	0	0	0	0
COUNTY TOTALS		6424	4556	5219	2901	1875	1875

TABLE A-1 (continued)

GCA / TECHNOLOGY DIVISION
CONNECTICUT EMISSIONS BY CATEGORY 1990

COUNTY:0478

CATEGORY	POINT COUNT	----- TSP	PRIMARY SO2	SCC EMISSIONS NOX	(TONS/YEAR) HC	----- CO
1 OIL AND GAS PRODUCTION & PROCESSING	3	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 CRACKING 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	19	0	0	0	2	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	3	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	2	0	0	0	0	0
25 IRON AND STEEL MANUFACTURE	24	44	0	0	0	0
26 THERMAL PRODUCTS	0	0	0	0	0	0
27 FERTILIZERS	6	0	0	0	0	0
28 TEXTILE MILL PRODUCTS	19	0	0	0	494	0
29 LOWER AND WOOD PRODUCTS	3	2	0	0	0	0
30 PAPER AND ALLIED PRODUCTS	1	0	0	0	0	0
31 STONE, CLAY, GLASS, CONCRETE	57	206	1	2	0	0
32 PRIMARY & SECONDARY METALS & ELECTRICAL	12	34	0	0	0	0
33 FERRICATED FERTIL PRODUCTS	80	9	0	1	0	0
34 IN-FURNACE FUEL USE	32	11	157	173	2	12
35 OTHERS - (INDUSTRIAL PROCESSES)	14	5	0	0	0	3
36 ADHESIVES	0	0	0	0	0	0
37 INC. SFC. COATING-LARGE APPLIANCES	0	0	0	0	0	0
38 INC. SFC. COATING-MAGNET WIRE	0	0	0	0	0	0
39 INC. SFC. COATING-AUTOMOBILE	0	0	0	0	0	0
40 INC. SFC. COATING-CANS	0	0	0	0	0	0
41 INC. SFC. COATING-HELIX COILS	0	0	0	0	0	0
42 INC. SFC. COATING-PAPER	0	0	0	0	0	0
43 INC. SFC. COATING-FABRIC	0	0	0	0	0	0
44 INC. SFC. COATING-MISC. FURNITURE	0	0	0	0	0	0
45 INC. SFC. COATING-METAL/WOOD PRODUCTS	5	0	0	0	10	0
46 PLASTIC PARTS PAINTING	0	0	0	0	0	0
47 LARGE SHIPS	0	0	0	0	0	0
48 LAKE-BOAT (RAFT)	0	0	0	0	0	0
49 INC. SFC. COATING-INDUSTRIAL PRODUCTS	4	0	0	0	127	0
50 OTHERS - (INDUSTRIAL SURFACE COATING)	0	0	0	0	0	0

TABLE A-1 (continued)

SCA / TECHNOLOGY DIVISION
CONNECTICUT EMISSIONS BY CATEGORY 1980

COUNTY: 478

CATEGORY	POINT COUNT	----- TSP	PRIMARY SC2	SCC SC2	EMISSIONS NOX	(TONS/YEAR) PC	----- 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 USED)	0	0	0	0	0	0	0
55 ARCHITECTURAL COATINGS	0	0	0	0	0	0	0
56 AUTO REFINISHING	0	0	0	0	0	0	0
57 OTHERS-(NON-INDUSTRIAL SURFACE COATING)	0	0	0	0	0	0	0
58 EXT. COMB. BOILERS-ELEC. GENERATION	0	0	0	0	0	0	0
59 EXT. COMB. BOILERS-INDUSTRIAL	99	13	528	403	4	0	28
60 EXT. COMB. BOILERS-COM/INST	87	12	162	100	1	0	3
61 EXT. COMB. SPACE HEATERS-INDUST.	0	0	0	0	0	0	0
62 EXT. COMB. SPACE HEATERS-COMM.	0	0	0	0	0	0	0
63 OTHERS-(FUEL COMBUSTION)	0	0	0	0	0	0	0
64 SOLID WASTE DISPOSAL-COMM.	4	0	1	2	0	0	0
65 SOLID WASTE DISPOSAL-COM/INST	56	5	1	5	2	0	9
66 SOLID WASTE DISPOSAL-INDUSTRIAL	5	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	4	2	3	35	4	0	2
70 NOT CLASSIFIED	0	0	0	0	0	0	0
COUNTY TOTALS		403	653	730	645		63

TABLE A-1 (continued)

GCA / TECHNOLOGY DIVISION
CONNECTICUT EMISSIONS BY CATEGORY 1980

COUNTY:0565

CATEGORY	POINT COUNT	----- TSP	PRIMAR. SO2	SEC EMISSIONS	(TONS/YEAR) FC	----- CO
1 OIL AND GAS PRODUCTION & PROCESSING	2	0	0	0	0	0
2 SYN. ORGANIC CHEM. STORAGE & TRANSFER	0	0	0	0	0	0
3 GASOLINE AND CRUDE OIL STORAGE	0	0	0	0	0	0
4 SHIP AND BARGE TRANSFER OF VOC	0	0	0	0	0	0
5 BARGE AND TANKER CLEANING	0	0	0	0	0	0
6 BULK GASOLINE TERMINALS	0	0	0	0	0	0
7 GASOLINE BULK PLANTS	0	0	0	0	0	0
8 TANK TRUCK LOADING	2	0	0	0	31	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, TRANSFER, MKT OF VOC)	10	0	0	0	24	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	3	0	0	0	0	0
22 RUBBER TIRE MANUFACTURE	0	0	0	0	0	0
23 SEA RUBBER MANUFACTURE	0	0	0	0	0	0
24 OTHER CHEMICAL MANUFACTURE	24	0	0	6	0	0
25 IRON AND STEEL MANUFACTURE	0	0	0	0	0	0
26 TUBACCO PRODUCTS	0	0	0	0	0	0
27 FOOD PRODUCTS	0	0	0	0	0	0
28 TEXTILE MILL PRODUCTS	5	0	0	0	20	0
29 LUMBER AND WOOD PRODUCTS	5	3	0	0	0	0
30 PAPER AND ALLIED PRODUCTS	2	1	0	0	0	0
31 STONE, CLAY, GLASS, CONCRETE	164	164	0	0	0	0
32 PRIMARY & SECONDARY METALS & ELECTRICAL	24	24	0	0	0	0
33 FABRICATED METAL PRODUCTS	37	17	0	0	0	0
34 IN-PROCESS FUEL USE	13	2	16	33	0	2
35 OTHERS - (INDUSTRIAL PROCESSES)	9	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-MEDIUM WIRE	11	0	0	0	22	0
39 INC. SFC. COATING-UTICMOBILE	0	0	0	0	0	0
40 INC. SFC. COATING-CANS	0	0	0	0	0	0
41 INC. SFC. COATING-METAL COILS	0	0	0	0	0	0
42 INC. SFC. COATING-PAPER	3	0	0	0	65	0
43 INC. SFC. COATING-FABRIC	0	0	0	0	0	0
44 INC. SFC. COATING-MISC. FURNITURE	0	0	0	0	0	0
45 INC. SFC. COATING-METAL/WOOD PRODUCTS	0	0	0	0	0	0
46 PLASTIC PARTS PAINTING	0	0	0	0	0	0
47 LARGE SHIPS	0	0	0	0	0	0
48 LARGE PLUMBERY	0	0	0	0	0	0
49 INC. SFC. COATING-MISC. METAL PRODUCTS	5	0	0	0	39	0
50 OTHERS - (INDUSTRIAL SURFACE COATING)	4	0	0	0	69	101

TABLE A-1 (continued)

SCA / TECHNOLOGY DIVISION
CONNECTICUT EMISSIONS BY CATEGORY 1980

COUNTRY:0565

CATEGORY	POINT COUNT	----- TSP	PRIMARY SC2	SCC NOX	EMISSIONS (TONS/YEAR) HC	----- CO
51 DEGREASING	1	0	0	0	72	0
52 DRY CLEANING	0	0	0	0	0	0
53 GRAPHIC ARTS	5	0	0	0	154	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. COXS. BOILERS-ELEC. GENERATION	5	772	5614	7726	73	368
59 EXT. COXS. BOILERS-INDUSTRIAL	68	52	332	272	5	20
60 EXT. COXS. BOILERS-COMM/INST.	145	35	404	297	1	20
61 EXT. COXS. SPACE HEATERS-INDUST.	0	0	0	0	0	0
62 EXT. COXS. SPACE HEATERS-COMM.	0	0	0	0	0	0
63 OTHERS-(FUEL COMBUSTION)	0	0	0	0	0	0
64 SOLID WASTE DISPOSAL-GVT.	3	330	5	21	3	41
65 SOLID WASTE DISPOSAL-COMM/INST.	14	4	1	1	1	6
66 SOLID WASTE DISPOSAL-INDUSTRIAL	10	3	0	4	7	4
67 OTHER SOLID WASTE DISPOSAL	0	0	0	0	0	0
68 WASTE SOLVENT RECOVERY PROCESSES	3	0	0	0	0	0
69 STATIONARY INTERNAL COMBUSTION ENGINES	29	35	72	117	125	50
70 NOT CLASSIFIED	0	0	0	0	0	0
COUNTY TOTALS		1456	6444	8477	707	652

TABLE A-1 (continued)

SCA / TECHNOLOGY DIVISION
CONNECTICUT EMISSIONS BY CATEGORY 1980

COUNTY:0725

CATEGORY	POINT COUNT	----- TSP	PRIMARY 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 TRAFFIC OF VOC	0	0	0	0	0	0
5 BRICE AND JUNKER 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	7	0	0	0	251	0
9 SERVICE STATION UNLOADING (STAGE I)	0	0	0	0	0	0
10 SERVICE STATION UNLOADING (STAGE II)	0	0	0	0	0	0
11 OTHERS-INT WARE, TRANSP., MKT OF VOC	106	0	0	0	905	0
12 LUBE OIL MANUFACTURE	0	0	0	0	0	0
13 PETROLEUM REFINERIES	5	0	0	0	0	0
14 PHARMACEUTICAL MANUFACTURE	3	0	0	0	0	0
15 TEXTILE POLYMERS & RESIN MANUFACTURE	165	44	0	0	366	0
16 SYNTHETIC FIBER MANUFACTURE	0	0	0	0	0	0
17 ORGANIC CHEMICAL MANUFACTURE	42	9	0	0	48	0
18 INORGANIC CHEMICAL MANUFACTURE	2	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	10	5	0	0	1	0
22 RUBBER TIRE MANUFACTURE	25	25	0	0	104	0
23 STEEL MILL MANUFACTURE	13	0	0	0	37	0
24 OTHER CHEMICAL MANUFACTURE	57	12	0	0	25	0
25 IRON AND STEEL MANUFACTURE	45	9	0	0	2	49
26 FIBROCELL PRODUCTS	0	0	0	0	0	0
27 FOOD PRODUCTS	11	3	0	0	1	0
28 TEXTILE MILL PRODUCTS	50	0	0	0	789	0
29 LUMBER AND WOOD PRODUCTS	2	0	0	0	0	0
30 PAPER AND PULPING PRODUCTS	6	0	0	0	0	0
31 STEEL CASTING, FOUNDRY, CASTING	48	408	0	0	0	0
32 FIBERGLASS, GLASS, CERAMIC	338	242	0	0	0	0
33 ELECTRIC, ELECTRONIC & ELECTRICAL	363	54	1	0	16	28
34 FERRIC OXIDE PRODUCTS	157	5	73	156	4	1
35 FIBERGLASS FLOOR USE	164	26	0	0	299	29
36 FIBERGLASS (INDUSTRIAL PROCESSES)	0	0	0	0	0	0
37 IND. SPEC. COATING-LARGE APPLIANCES	0	0	0	0	0	0
38 IND. SPEC. COATING-MARINE WARE	1	0	0	0	3	0
39 IND. SPEC. COATING-SURFACABLE	0	0	0	0	0	0
40 IND. SPEC. COATING-GAME	0	7	0	0	0	0
41 IND. SPEC. COATING-PAINTS	5	0	0	0	14049	0
42 IND. SPEC. COATING-PAINTS	6	0	0	0	3377	0
43 IND. SPEC. COATING-FABRIC	0	0	0	0	229	0
44 IND. SPEC. COATING-MISC. FURNITURE	0	0	0	0	0	0
45 IND. SPEC. COATING-METAL/WOOD PRODUCTS	0	0	0	0	0	0
46 PLASTIC PARTS PAINTING	0	0	0	0	0	0
47 LARGE SHIPS	0	0	0	0	0	0
48 LARGE AIRCRAFT	0	0	0	0	0	0
49 IND. SPEC. COATING-MISC. METAL PRODUCTS	53	0	0	0	97	0
50 OTHERS - (INDUSTRIAL SURFACE COATING)	13	0	0	0	163	0

TABLE A-1 (continued)

GCA / TECHNOLOGY DIVISION
CONNECTICUT EMISSIONS BY CATEGORY 1980

COUNTY: CT05

CATEGORY	POINT COUNT	----- TSP	PRIMARY SO2	SCC NOX	EMISSIONS (TONS/YEAR)	----- CO
51 DEGREASING	14	0	0	0	1696	0
52 DRY CLEANING	6	0	0	0	162	0
53 GRAPHIC ARTS	21	0	0	0	105	0
54 OTHER - (SOLVENT USE)	0	0	0	0	0	0
55 ARCHITECTURAL COATINGS	0	0	0	0	0	0
56 AUTO 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	29	649	6521	11644	114	560
59 EXT. COMB. BOILERS-INDUSTRIAL	449	363	2014	2103	17	145
60 EXT. COMB. BOILERS-COMM/INST	948	185	1997	1454	2	64
61 EXT. COMB. SPACE HEATERS-INDUST.	12	0	0	2	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.	11	329	30	59	14	254
65 SOLID WASTE DISPOSAL-COMM/INST	92	20	4	12	7	32
66 SOLID WASTE DISPOSAL-INDUSTRIAL	51	27	61	24	20	33
67 OTHER SOLID WASTE DISPOSAL	0	0	0	0	0	0
68 WASTE SOLVENT RECOVERY PROCESSES	26	0	0	0	0	0
69 STATIONARY INTERNAL COMBUSTION ENGINES	15	3	2	101	9	29
70 NOT CLASSIFIED	9	0	0	0	10	0
COUNTY TOTALS		2499	11511	15629	22934	1264

TABLE A-1 (continued)

SCA / TECHNOLOGY DIVISION
CONNECTICUT EMISSIONS BY CATEGORY 1980

COUNTY: 0125

CATEGORY	POINT COUNT	----- TSP	PRIMARY SCC	EMISSIONS SC2	ADJ	(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 SOIL AND LIQUID WASH 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	1	0	0	0	0	14	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 CHEMICALS STORAGE (STAGE I)	0	0	0	0	0	0	0
12 CHEMICALS STORAGE (STAGE II)	0	0	0	0	0	0	0
13 PETROLEUM REFINERIES	0	0	0	0	0	0	0
14 PETROLEUM REFINERIES	44	4	0	0	0	563	155
15 PETROLEUM REFINERIES	1	0	0	0	0	0	0
16 PETROLEUM REFINERIES	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 VULCANIZING PLANTS	0	0	0	0	0	0	0
21 CHEMICAL PRODUCTS MANUFACTURE	37	12	0	0	0	156	0
22 CHEMICAL PRODUCTS MANUFACTURE	1	1	0	0	0	0	0
23 CHEMICAL PRODUCTS MANUFACTURE	1	0	0	0	0	0	0
24 OTHER CHEMICAL MANUFACTURE	61	15	1	0	0	255	1
25 IRON AND STEEL MANUFACTURE	0	0	0	0	0	0	0
26 IRON AND STEEL MANUFACTURE	0	0	0	0	0	0	0
27 FERRIC PRODUCTS	0	0	0	0	0	0	0
28 FERRIC PRODUCTS	14	10	0	0	0	90	0
29 FERRIC PRODUCTS	0	0	0	0	0	0	0
30 FERRIC PRODUCTS	0	0	0	0	0	0	0
31 STEEL-CLAY-BLASS-CHOCOL	25	45	0	0	0	0	0
32 PRIMARY & SECONDARY METALS & ELECTRICAL	1	0	0	0	0	0	0
33 FURNITURE MANUFACTURE	14	4	0	0	0	0	0
34 IN-FRIGERATE FULL USE	26	6	0	0	0	1	9
35 OTHERS - (METALLURGICAL PROCESSES)	4	1	0	0	0	0	0
36 OTHERS - (METALLURGICAL PROCESSES)	0	0	0	0	0	0	0
37 IN. SEC. COATING-PAINTS-APPLIANCE	0	0	0	0	0	0	0
38 IN. SEC. COATING-PAINTS-APPLIANCE	0	0	0	0	0	0	0
39 IN. SEC. COATING-PAINTS-APPLIANCE	0	0	0	0	0	0	0
40 IN. SEC. COATING-PAINTS-APPLIANCE	0	0	0	0	0	0	0
41 IN. SEC. COATING-PAINTS-APPLIANCE	0	0	0	0	0	0	0
42 IN. SEC. COATING-PAINTS-APPLIANCE	0	0	0	0	0	0	0
43 IN. SEC. COATING-PAINTS-APPLIANCE	0	0	0	0	0	0	0
44 IN. SEC. COATING-PAINTS-APPLIANCE	0	0	0	0	0	0	0
45 IN. SEC. COATING-PAINTS-APPLIANCE	0	0	0	0	0	0	0
46 IN. SEC. COATING-PAINTS-APPLIANCE	0	0	0	0	0	0	0
47 LANCE SMITH	2	0	0	0	0	132	0
48 LANCE SMITH	0	0	0	0	0	0	0
49 IN. SEC. COATING-PAINTS-APPLIANCE	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
CONNECTICUT EMISSIONS BY CATEGORY 1990

COUNTY:0725

CATEGORY	POINT COUNT	----- TSP	PRIMARY SC2	SCC SC2	EMISSIONS MCH	(TONS/YEAR) PC	----- CO
51 DEGREASING	0	0	0	0	0	0	0
52 DRY CLEANING	0	0	0	0	0	0	0
53 GRAPHIC ARTS	3	0	0	0	0	101	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 OTHER - INDUSTRIAL SURFACE COATING	0	0	0	0	0	0	0
58 EXT. COMB. BOILERS-ELEC. GENERATION	4	438	2954	3501	37	0	166
59 EXT. COMB. BOILERS-INDUSTRIAL	124	300	3175	1968	33	0	165
60 EXT. COMB. BOILERS-COMM/INST.	165	85	680	540	3	0	39
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 OTHER - FUEL COMBUSTION	0	0	0	0	0	0	0
64 SOLID WASTE DISPOSAL-LANDFILL	6	0	1	1	1	7	10
65 SOLID WASTE DISPOSAL-COMM/INST.	32	0	2	3	2	0	19
66 SOLID WASTE DISPOSAL-INDUSTRIAL	0	2	0	1	1	2	2
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 STATIC ACRYL INTERNAL CONDUCTION ENGINES	10	0	1	19	0	0	5
70 NOT CLASSIFIED	0	0	0	0	0	0	0
COUNTY TOTAL		947	6781	6548	1415		584

TABLE A-1 (continued)

SCA / TECHNOLOGY DIVISION
CONNECTICUT EMISSIONS BY CATEGORY 1980

COUNTY:111C

CATEGORY	POINT COUNT	----- TSP	PRIMARY SO ₂	SCC EMISSIONS MGT	(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 OTHER OIL STORAGE	0	0	0	0	0	0
4 SPIRIT AND WASTE TRANSFER OF WCC	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 OILWASH-SURFACE TRANSFER (MKT OF WCC)	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 PETROLEUM MANUFACTURE	0	0	0	0	0	0
15 TEXTILE POLYMER & RESIN MANUFACTURE	0	0	0	0	0	0
16 SYNTHETIC FIBER MANUFACTURE	0	0	0	0	0	0
17 ORGANIC CHEMICAL MANUFACTURE	7	266	0	0	63	210
18 INORGANIC CHEMICAL MANUFACTURE	0	0	0	0	0	0
19 FERTILIZER MANUFACTURE	0	0	0	0	0	0
20 VERMICULITE PROCESSING	0	0	0	0	0	0
21 PLASTIC PRODUCTS MANUFACTURE	0	0	0	0	0	0
22 RUBBER AND PLASTIC MANUFACTURE	0	0	0	0	0	0
23 SEWAGE TREATMENT PLANTS	0	0	0	0	0	0
24 CERAMIC MANUFACTURE	0	0	0	0	0	0
25 IRON AND STEEL MANUFACTURE	0	0	0	0	0	0
26 TITANIUM PRODUCTS	0	0	0	0	0	0
27 FERTILIZERS	14	9	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	12	0	0	0	0	0
32 PRIMARY & SECONDARY METALS & ELECTRICAL	0	0	0	0	0	0
33 FERRIC AND METAL PRODUCTS	1	0	0	0	0	0
34 FERTILIZER PRODUCTS	19	0	2	9	0	0
35 OTHERS - (INDUSTRIAL PROCESSING)	0	13	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-ADHESIVE	0	0	0	0	0	0
39 INK, SFC. COATING-AUTOMOBILE	0	0	0	0	0	0
40 INK, SFC. COATING-PAINTS	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-PAINTS/COATINGS	0	0	0	0	0	0
46 FLUORIDE PLASTS 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	0	0	0	0	0	0
50 OTHERS - (INDUSTRIAL SURFACE COATING)	0	0	0	0	0	0

TABLE A-1 (continued)

U.S. / TECHNOLOGY DIVISION
CONNECTICUT EMISSIONS BY CATEGORY 1960

COUNTY:1105

CATEGORY	POINT COUNT	----- TSP	PRIMARY SO ₂	SEC 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 AEROSOL COATINGS	0	0	0	0	0	0	0
56 AUTOMOTIVE PAINTS	0	0	0	0	0	0	0
57 OTHERS - (INDUSTRIAL SURFACE COATINGS)	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	37	29	22	147	0	0	0
60 EXT. COMB. BOILERS-COMM/FIRST	70	55	426	318	2	22	22
61 EXT. COMB. SPACE HEATERS-INDUST.	0	0	0	0	0	0	0
62 EXT. COMB. SPACE HEATERS-COMM.	2	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/FIRST	17	2	0	0	0	0	0
66 SOLID WASTE DISPOSAL-INDUSTRIAL	2	0	0	1	0	0	0
67 OTHER SOLID WASTE DISPOSAL	0	0	0	0	0	0	0
68 WASTE SOLVENT REC. VRY PROCESS-S	15	0	0	0	0	396	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		386	630	475	402	244	

TABLE A-1 (continued)

U.S. / TECHNOLOGY DIVISION
CONNECTICUT EMISSIONS BY CATEGORY 1990

COUNTY:1505

CATEGORY	POINT COUNT	----- TSP	PRIMARY SCC	EMISSIONS SC2	NOX	PC 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 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 CLEARING	0	0	0	0	0	0	0
6 SOLID RESIDUE TREATMENT	0	0	0	0	0	0	0
7 WASTEWATER TREATMENT	0	0	0	0	0	0	0
8 TANK TALKER 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, TRANSFER, MKT OF VOC	0	0	0	0	0	0	0
12 LULU 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 FERTILIZER MANUFACTURE	0	0	0	0	0	0	0
16 SYNTHETIC FIBER MANUFACTURE	0	0	0	0	0	0	0
17 ORGANIC CHEMICAL MANUFACTURE	1	30	0	0	0	0	24
18 INORGANIC CHEMICAL MANUFACTURE	2	0	0	0	0	0	0
19 FERTILIZER PROCESSES	0	0	0	0	0	0	0
20 VEGETABLE OIL PROCESSING	0	0	0	0	0	0	0
21 PLASTIC PRODUCTS MANUFACTURE	5	0	0	0	3	0	0
22 RUBBER, PLASTIC MANUFACTURE	0	0	0	0	0	0	0
23 FIBER, TEXTILE MANUFACTURE	0	0	0	0	0	0	0
24 OTHER CHEMICAL MANUFACTURE	0	0	0	0	0	0	0
25 INORGANIC CHEMICAL MANUFACTURE	1	10	0	0	0	0	0
26 FIBER, TEXTILE MANUFACTURE	0	0	0	0	0	0	0
27 FIBER, TEXTILE MANUFACTURE	7	10	0	0	0	0	0
28 FIBER, TEXTILE MANUFACTURE	25	0	0	0	0	295	0
29 FIBER, TEXTILE MANUFACTURE	1	0	0	0	0	0	0
30 PAPER AND ALLIED PRODUCTS	3	4	0	0	0	0	0
31 STEEL, COASTAL, COASTAL	29	279	0	0	0	0	0
32 PRIMARY METAL PRODUCTS	0	0	0	0	0	0	0
33 FERTILIZER PRODUCTS	18	0	0	0	0	0	0
34 FERTILIZER PRODUCTS	33	32	320	311	0	0	24
35 OTHERS - (INDUSTRIAL PROCESSES)	1	0	0	0	0	0	0
36 ADHESIVES	0	0	0	0	0	0	0
37 INK, SFC. COATING-LARGE APPLIANCE	0	0	0	0	0	0	0
38 INK, SFC. COATING-MACHINERY	0	0	0	0	0	0	0
39 INK, SFC. COATING-INDUSTRIAL	0	0	0	0	0	0	0
40 INK, SFC. COATING-PAINTS	0	0	0	0	0	0	0
41 INK, SFC. COATING-METAL COILS	0	0	0	0	0	0	0
42 INK, SFC. COATING-PAINTS	0	0	0	0	0	0	0
43 INK, SFC. COATING-PAINTS	19	0	0	0	0	554	0
44 INK, SFC. COATING-PAINTS	0	0	0	0	0	0	0
45 INK, SFC. COATING-PAINTS	2	0	0	0	0	35	0
46 PLASTIC PARTS PAINTING	0	0	0	0	0	0	0
47 LARGE SHIPS	0	0	0	0	0	0	0
48 LARGE SHIPS	0	0	0	0	0	0	0
49 LARGE SHIPS	0	0	0	0	0	0	0
50 OTHERS - (INDUSTRIAL SURFACE COATING)	6	0	0	0	0	47	0

TABLE A-1 (continued)

PCA / TECHNOLOGY DIVISION
CONNECTICUT EMISSIONS BY CATEGORY 1990

COUNTY:1000

CATEGORY	COUNT	PRIMARY EMISSIONS (TONS/YEAR)				OTHER EMISSIONS (TONS/YEAR)			
		CO	HC	NO _x	SO ₂	CO	HC	NO _x	SO ₂
01. CEMENT	0	0	31	0	0	0	0	0	0
02. CEMENT	0	0	0	0	0	0	0	0	0
03. CEMENT	0	0	0	0	0	0	0	0	0
04. CEMENT	0	0	0	0	0	0	0	0	0
05. CEMENT	0	0	0	0	0	0	0	0	0
06. CEMENT	0	0	0	0	0	0	0	0	0
07. CEMENT	0	0	0	0	0	0	0	0	0
08. CEMENT	0	0	0	0	0	0	0	0	0
09. CEMENT	0	0	0	0	0	0	0	0	0
10. CEMENT	0	0	0	0	0	0	0	0	0
11. CEMENT	0	0	0	0	0	0	0	0	0
12. CEMENT	0	0	0	0	0	0	0	0	0
13. CEMENT	0	0	0	0	0	0	0	0	0
14. CEMENT	0	0	0	0	0	0	0	0	0
15. CEMENT	0	0	0	0	0	0	0	0	0
16. CEMENT	0	0	0	0	0	0	0	0	0
17. CEMENT	0	0	0	0	0	0	0	0	0
18. CEMENT	0	0	0	0	0	0	0	0	0
19. CEMENT	0	0	0	0	0	0	0	0	0
20. CEMENT	0	0	0	0	0	0	0	0	0
21. CEMENT	0	0	0	0	0	0	0	0	0
22. CEMENT	0	0	0	0	0	0	0	0	0
23. CEMENT	0	0	0	0	0	0	0	0	0
24. CEMENT	0	0	0	0	0	0	0	0	0
25. CEMENT	0	0	0	0	0	0	0	0	0
26. CEMENT	0	0	0	0	0	0	0	0	0
27. CEMENT	0	0	0	0	0	0	0	0	0
28. CEMENT	0	0	0	0	0	0	0	0	0
29. CEMENT	0	0	0	0	0	0	0	0	0
30. CEMENT	0	0	0	0	0	0	0	0	0
31. CEMENT	0	0	0	0	0	0	0	0	0
32. CEMENT	0	0	0	0	0	0	0	0	0
33. CEMENT	0	0	0	0	0	0	0	0	0
34. CEMENT	0	0	0	0	0	0	0	0	0
35. CEMENT	0	0	0	0	0	0	0	0	0
36. CEMENT	0	0	0	0	0	0	0	0	0
37. CEMENT	0	0	0	0	0	0	0	0	0
38. CEMENT	0	0	0	0	0	0	0	0	0
39. CEMENT	0	0	0	0	0	0	0	0	0
40. CEMENT	0	0	0	0	0	0	0	0	0
41. CEMENT	0	0	0	0	0	0	0	0	0
42. CEMENT	0	0	0	0	0	0	0	0	0
43. CEMENT	0	0	0	0	0	0	0	0	0
44. CEMENT	0	0	0	0	0	0	0	0	0
45. CEMENT	0	0	0	0	0	0	0	0	0
46. CEMENT	0	0	0	0	0	0	0	0	0
47. CEMENT	0	0	0	0	0	0	0	0	0
48. CEMENT	0	0	0	0	0	0	0	0	0
49. CEMENT	0	0	0	0	0	0	0	0	0
50. CEMENT	0	0	0	0	0	0	0	0	0
51. CEMENT	0	0	0	0	0	0	0	0	0
52. CEMENT	0	0	0	0	0	0	0	0	0
53. CEMENT	0	0	0	0	0	0	0	0	0
54. CEMENT	0	0	0	0	0	0	0	0	0
55. CEMENT	0	0	0	0	0	0	0	0	0
56. CEMENT	0	0	0	0	0	0	0	0	0
57. CEMENT	0	0	0	0	0	0	0	0	0
58. CEMENT	0	0	0	0	0	0	0	0	0
59. CEMENT	0	0	0	0	0	0	0	0	0
60. CEMENT	0	0	0	0	0	0	0	0	0
61. CEMENT	0	0	0	0	0	0	0	0	0
62. CEMENT	0	0	0	0	0	0	0	0	0
63. CEMENT	0	0	0	0	0	0	0	0	0
64. CEMENT	0	0	0	0	0	0	0	0	0
65. CEMENT	0	0	0	0	0	0	0	0	0
66. CEMENT	0	0	0	0	0	0	0	0	0
67. CEMENT	0	0	0	0	0	0	0	0	0
68. CEMENT	0	0	0	0	0	0	0	0	0
69. CEMENT	0	0	0	0	0	0	0	0	0
70. CEMENT	0	0	0	0	0	0	0	0	0
71. CEMENT	0	0	0	0	0	0	0	0	0
72. CEMENT	0	0	0	0	0	0	0	0	0
73. CEMENT	0	0	0	0	0	0	0	0	0
74. CEMENT	0	0	0	0	0	0	0	0	0
75. CEMENT	0	0	0	0	0	0	0	0	0
76. CEMENT	0	0	0	0	0	0	0	0	0
77. CEMENT	0	0	0	0	0	0	0	0	0
78. CEMENT	0	0	0	0	0	0	0	0	0
79. CEMENT	0	0	0	0	0	0	0	0	0
80. CEMENT	0	0	0	0	0	0	0	0	0
81. CEMENT	0	0	0	0	0	0	0	0	0
82. CEMENT	0	0	0	0	0	0	0	0	0
83. CEMENT	0	0	0	0	0	0	0	0	0
84. CEMENT	0	0	0	0	0	0	0	0	0
85. CEMENT	0	0	0	0	0	0	0	0	0
86. CEMENT	0	0	0	0	0	0	0	0	0
87. CEMENT	0	0	0	0	0	0	0	0	0
88. CEMENT	0	0	0	0	0	0	0	0	0
89. CEMENT	0	0	0	0	0	0	0	0	0
90. CEMENT	0	0	0	0	0	0	0	0	0
91. CEMENT	0	0	0	0	0	0	0	0	0
92. CEMENT	0	0	0	0	0	0	0	0	0
93. CEMENT	0	0	0	0	0	0	0	0	0
94. CEMENT	0	0	0	0	0	0	0	0	0
95. CEMENT	0	0	0	0	0	0	0	0	0
96. CEMENT	0	0	0	0	0	0	0	0	0
97. CEMENT	0	0	0	0	0	0	0	0	0
98. CEMENT	0	0	0	0	0	0	0	0	0
99. CEMENT	0	0	0	0	0	0	0	0	0
100. CEMENT	0	0	0	0	0	0	0	0	0
COUNTY TOTALS		502	1101	602	1063				184

APPENDIX B

AREA SOURCE EMISSIONS BY CATEGORY FOR THE
CONNECTICUT COUNTIES

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

<u>County</u>	<u>EIS/NEDS County Code</u>
Fairfield	0265
Hartford	0425
Litchfield	0478
Middlesex	0565
New Haven	0705
New London	0725
Tolland	1155
Windham	1505

TABLE B-1. COUNTY SUMMARIES OF AREA SOURCE EMISSIONS (1979/1980) FOR CONNECTICUT

SQA / TECHNOLOGY DIVISION AREA SOURCE MASTER FILE SUMMARY FOR CONNECTICUT					
CATEGORY NUMBER	CATEGORY DESCRIPTION	PERCENT RATE	UNITS	POLLUTANT EMISSION FACTOR	EMISSIONS ESTIMATE
001	STAGE I GASOLINE EVAP	000341330	THOUS GAL	THC	7.30 0001246
002	STAGE II GASOLINE EVAP	000341334	THOUS GAL	THC	9.70 0001853
003	STORAGE TANK EVAPORATION	000341338	THOUS GAL	THC	1.00 0000171
004	COMBUSTION OF WASTE OIL	000341332	THOUS GAL	THC	3.12 0000020
005	STATIONARY COMBUSTION	000001546	TON	APC	24000.00 0001546
006	STATIONARY COMBUSTION	000001546	TON	APC	200.00 0000128
007	STATIONARY COMBUSTION	000001546	TON	APC	4.60 0001556
008	STATIONARY COMBUSTION	000001546	TON	APC	1.30 0000751
009	STATIONARY COMBUSTION	000001546	TON	THC	24000.00 0003758
010	STATIONARY COMBUSTION	000001546	TON	THC	24000.00 0000424
011	COMBUSTION OF WASTE OIL	000001546	THOUS GAL	APC	6.30 0002543
012	COMBUSTION OF WASTE OIL	000001546	THOUS GAL	THC	24000.00 0000499
013	COMBUSTION OF WASTE OIL	000001546	THOUS GAL	APC	2.50 0000012
014	COMBUSTION OF WASTE OIL	000001546	THOUS GAL	APC	6.30 0000003
015	COMBUSTION OF WASTE OIL	000001546	THOUS GAL	APC	9.60 0000000
016	COMBUSTION OF WASTE OIL	000001546	THOUS GAL	APC	3.00 0000000
017	COMBUSTION OF WASTE OIL	000001546	THOUS GAL	THC	2.40 0000007
018	COMBUSTION OF WASTE OIL	000001546	THOUS GAL	APC	3.00 0000000
019	COMBUSTION OF WASTE OIL	000001546	THOUS GAL	THC	2.40 0000000

TABLE B-1 (continued)

60 / TECHNOLOGY DIVISION
PLA SOURCE MASTER FILE SUMMARY
FOR CONNECTICUT

COUNTY: 0265

CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS NAME	UNITS	POLLUTANT I.D.	EMISSION FACTOR	EMISSIONS ESTIMATE
022	RESIDENTIAL RESIDUAL OIL	000000000	THOUS GAL	NOX THC	18.00 1.00	0000000 0000000
023	RESIDENTIAL DISTILLATE	000149625	THOUS GAL	NOX THC	18.00 1.00	0001347 0000075
024	RESIDENTIAL NATURAL GAS	000000905	MIL CU FT	NOX THC	80.00 6.00	0006776 0000036
025	RESIDENTIAL LPG	000000936	THOUS GAL	NOX THC	8.00 0.80	0000033 0000003
026	RESIDENTIAL WOOD	000001727	TON	NOX APC	1.00 5.00	0000001 0000004
027	COMM/INST ANTHRACITE	000000009	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	000000000	THOUS GAL	NOX THC	60.00 1.00	0000000 0000000
030	COMM/INST DISTILLATE OIL	000013570	THOUS GAL	NOX THC	22.00 1.00	0000149 0000007
031	COMM/INST NATURAL GAS	000003249	MIL CU FT	NOX THC	120.00 8.00	0000197 0000013
032	COMM/INST LPG	000000000	THOUS GAL	NOX THC	11.00 0.75	0000000 0000000
033	COMM/INST COAL/OTHER	000000000	TON	NOX THC	10.00 36.00	0000000 0000000
034	INDUSTRIAL ANTHRACITE	000000000	TON	NOX THC	18.00 0.00	0000000 0000000

TABLE B-1 (continued)

GCA / TECHNOLOGY DIVISION
AREA SOURCE MASTER FILE SUMMARY
FOR CONNECTICUT

COUNTY: 0265

CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RAT.	UNITS	POLLUTANT I.D.	EMISSION FACTOR	EMISSIONS ESTIMATE
035	INDUSTRIAL ETHYLENE	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	119.99 2.58	0000145 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	LHD/TAKE OFF	NOX THC	1.91 5.21	0000001 0000002
042	CIVIL AIRCRAFT	000150000	LHD/TAKE OFF	NOX THC	0.05 0.40	0000004 0000032
043	COMMERCIAL AIRCRAFT	000000000	LHD/TAKE OFF	NOX THC	51.40 60.50	0000109 0000129
044	RAILROAD LOCOMOTIVES	000000000	THOUS GAL	NOX THC	370.00 93.59	0000289 0000074
045	VESSELS - GASOLINE	000000000	THOUS GAL	NOX THC	6.50 1,100.00	0000010 0001562
046	VESSELS - DISTILLATE OIL	000000000	THOUS GAL	NOX THC	40.00 20.00	0000000 0000000
047	VESSELS - RESIDUAL OIL	000000000	THOUS GAL	NOX THC	37.50 17.50	0000015 0000007

TABLE B-1 (continued)

COUNTY: 0269				GEO / TECHNOLOGY DIVISION AREA SOURCE MASTER FILE SUMMARY FOR CONNECTICUT			
CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RATE	UNITS	POLLUTANT I.D.	EMISSION FACTOR	EMISSIONS ESTIMATE	
048	OFF-HIGHWAY VEHICLES-GAS	000000000	THOUS GAL	NOX THC	105.00 267.00	0000000 0000000	
049	OFF-HIGHWAY VEH - DIESEL	000005735	THOUS GAL	NOX THC	415.30 29.51	0001191 0000085	
050	ON-SITE INCINERATION	000000000	TON	NOX THC	6.00 30.00	0000000 0000000	
051	OPEN BURNING	000000032	TON	NOX THC	3.01 22.56	0000000 0000000	
052	STRUCTURAL FIRES	000003272	FIRES	NOX THC	2.00 4.00	0000003 0000007	
053	FIELD/SLASH BURNING	000000000	TON	NOX THC	3.01 22.56	0000000 0000000	
054	FOREST FIRES	000001460	TON	NOX THC	2.00 19.99	0000001 0000015	
055	ON-HIGHWAY VEHICLES-GAS	004358255	THOUS WHT	NOX THC	9.03 11.04	0021366 0024077	
059	COUNTY TOTALS	.		THC NOX NOX		0000013 0031054 0025309	

TABLE B-1 (continued)

GCA / TECHNOLOGY DIVISION
AREA SOURCE MASTER FILE SUMMARY
FOR CONNECTICUT

COUNTY:0425

CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RATE	UNITS	POLLUTANT I.D.	EMISSION FACTOR	EMISSIONS ESTIMATE
001	STAGE I GASOLINE EVAP	000351616	THOUS GAL	THC	7.30	0001383
002	STAGE II GASOLINE EVAP	000351618	THOUS GAL	THC	9.70	0001705
003	STORAGE TANK BREATHING	000351618	THOUS GAL	THC	1.00	0000176
004	GASOLINE LOADING/TRANSIT	000351610	THOUS GAL	THC	0.12	0000021
005	SP. PRD/COMP. DEGREASING	000001428	TON	NHC	2,000.00	0001428
006	DRY CLEANING	000001154	TON	NHC	205.95	0000125
007	ARCH SURFACE COATING	000007766	POPULATION	NHC	4.60	0001858
008	AUTO BODY REFINISHING	000007756	POPULATION	NHC	1.90	0000767
009	SP. IND. SURFACE COATING	000001929	TON	THC	2,000.00	0001929
010	GRAPHIC ARTS	000001402	TON	NHC	2,000.00	0001402
011	COMM/CONS. SOLVENT USE	000007766	POPULATION	NHC	6.30	0002344
012	CUTEACK ASPHALT	000000391	TON	NHC	2,000.00	0000381
013	PESTICIDES	000033930	ACRE	NPC	3.50	0000059
018	ON-HIGHWAY HDB	000000410	THOUS GAL	NOX THC	0.00 0.00	0000000 0000000
020	RESIDENTIAL ANTHRACITE	000000656	TON	NOX THC	3.00 2.49	0000010 0000003
021	RESIDENTIAL BITUMINOUS	000000000	TON	NOX THC	3.00 20.00	0000000 0000000

TABLE B-1 (continued)

CONNECTICUT DEPARTMENT OF ENVIRONMENT & NATURAL RESOURCES
 AREA SOURCE WATER POLLUTION SUMMARY
 FOR CONNECTICUT

COUNTY:0425

CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RATE	UNITS	POLLUTANT I.D.	EMISSION FACTOR	EMISSIONS ESTIMATE
022	RESIDENTIAL RESIDUAL OIL	000000000	THOUS GAL	NOX THC	18.00 1.00	0000000 0000000
023	RESIDENTIAL DISTILLATE	000163116	THOUS GAL	NOX THC	18.00 1.00	0001464 0000082
024	RESIDENTIAL NATURAL GAS	000009443	MIL CU FT	NOX THC	80.00 8.00	0000179 0000039
025	RESIDENTIAL LPG	000000013	THOUS GAL	NOX THC	8.00 0.80	0000033 0000003
026	RESIDENTIAL WOOD	000000000	TON	NOX THC	1.00 5.00	0000001 0000006
027	COMM/INST ANTHRACITE	000000000	TON	NOX THC	10.00 0.80	0000000 0000000
028	COMM/INST BITUMINOUS	000000000	TON	NOX THC	6.00 3.00	0000000 0000000
029	COMM/INST RESIDUAL OIL	000000000	THOUS GAL	NOX THC	60.00 1.00	0000000 0000000
030	COMM/INST DISTILLATE OIL	000013600	THOUS GAL	NOX THC	22.00 1.00	0000151 0000007
031	COMM/INST NATURAL GAS	000003316	MIL CU FT	NOX THC	120.00 8.00	0000199 0000013
032	COMM/INST LUG	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

TABLE B-1 (continued)

SCA / TECHNOLOGY DIVISION AREA SOURCE WASTEWATER FILE SUMMARY FOR CONNECTICUT					EMISSIONS ESTIMATE	
CITY/STATE	CITY/STATE	PROCESS FILE	UNITS	POLLUTANT EMISSION F.D.	FACTOR	EMISSIONS ESTIMATE
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	000004924	THOUS GAL	NOX THC	22.00 1.00	0000054 0000002
038	INDUSTRIAL NATURAL GAS	000002033	MIL CU FT	NOX THC	119.99 2.98	0000122 0000003
039	INDUSTRIAL LPG	000000000	THOUS GAL	NOX THC	11.65 0.30	0000000 0000000
040	INDUSTRIAL WOOD/OTHER	000000000	TON	NOX THC	10.00 30.00	0000000 0000000
041	MILITARY AIRCRAFT	000000586	LND/TAKE OFF	NOX THC	1.91 5.21	0000005 0000015
042	CIVIL AIRCRAFT	000155369	LND/TAKE OFF	NOX THC	0.05 0.40	0000004 0000031
043	COMMERCIAL AIRCRAFT	000049816	LND/TAKE OFF	NOX THC	51.40 60.50	0001280 0001507
044	RAILROAD LOCOMOTIVES	000002387	THOUS GAL	NOX THC	370.00 93.69	0003442 0000112
045	VESSELS - GASOLINE	000000476	THOUS GAL	NOX THC	6.50 1,100.00	0000002 0000262
046	VESSELS - DISTILLATE OIL	000000000	THOUS GAL	NOX THC	40.00 20.00	0000000 0000000
047	VESSELS - RESIDUAL OIL	000000469	THOUS GAL	NOX THC	43.00 25.00	0000010 0000006

TABLE B-1 (continued)

GCA / TECHNOLOGY DIVISION
 APLA SOURCE MATERIAL FILE SUMMARY
 FOR CONNECTICUT

COUNTY: 042

CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RATL	UNITS THOUS GAL	POLLUTANT EMISSION I.D.	EMISSIONS ESTIMATE
048	OFF-HIGHWAY VEHICLES-GAS	000000000	THOUS GAL	NOX THC	105.00 000000 267.90 000000
049	OFF-HIGHWAY VEH - DIESEL	000005783	THOUS GAL	NOX THC	415.30 0001201 29.51 0000005
050	ON-SITE INCINERATION	000000000	TON	NOX THC	6.00 0000000 30.00 0000000
051	CPEL BURNING	000000011	TON	NOX THC	3.01 0000000 22.56 0000000
052	STRUCTURAL FIRES	000000235	FIRES	NOX THC	2.90 0000003 4.00 0000005
053	FIELD/SLASH BURNING	000000000	TON	NOX THC	3.01 0000000 22.56 0000000
054	FOREST FIRES	000004480	TON	NOX THC	2.00 0000004 19.99 0000045
055	ON-HIGHWAY VEHICLES-GAS	005380079	THOUS VMT	NOX THC	9.70 0026115 11.27 0030339
099	COUNTY TOTALS			THC NHC NOX	0007340 0030703 0031483

TABLE B-1 (continued)

GCA / TECHNOLOGY DIVISION
AREA SOURCE MASTER FILE SUMMARY
FOR CONNECTICUT

COUNTY:0470

CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RATE	UNITS	POLLUTANT I.D.	EMISSION FACTOR	EMISSIONS ESTIMATE
001	STAGE I GASOLINE EVAP	000069312	THOUS GAL	THC	7.30	0000253
002	STAGE II GASOLINE EVAP	000069312	THOUS GAL	THC	9.70	0000335
003	STORAGE TANK BREATHING	000069312	THOUS GAL	THC	1.00	0000035
004	GASOLINE LOADING/TRANSIT	000069312	THOUS GAL	THC	0.12	0000004
005	SH IPD/CORN DRESSING	000000233	TON	NHC	2,000.00	0000233
006	DRY CLEANING	000000143	TON	NHC	209.95	0000015
007	ARCH SURFACE COATING	000156769	POPULATION	NHC	4.60	0000361
008	FLUID POLY REFINISHING	000155765	POPULATION	NHC	1.50	0000149
009	SH IND SURFACE COATING	000000968	TON	THC	2,000.00	0000968
010	GRAPHIC ARTS	000000000	TON	NHC	2,000.00	0000000
011	COPY/CURS SOLVENT USE	000156765	POPULATION	NHC	6.30	0000494
012	CUTBACK ASPHALT	000000526	TON	NHC	2,000.00	0000526
013	PESTICIDES	000034731	ACRE	THC	3.50	0000661
018	ON-HIGHWAY HDG	000005277	THOUS GAL	NHC	0.00	0000000
020	RESIDENTIAL ANTHRACITE	000003230	TON	NHC	0.00	0000000
021	RESIDENTIAL BITUMINOUS	000000000	TON	NHC	3.00	0000005
				THC	2.49	0000104
				NHC	3.00	0000000
				THC	20.00	0000000

TABLE B-1 (continued)

SCF / TECHNOLOGY DIVISION
 APLA SOURCE WASTE FILE SUMMARY
 FOR COMPLETICUT

COUNTY: 0476

CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RATE UNITS	POLLUTANT EMISSION I.O. FACTOR	EMISSIONS ESTIMATE
022	RESIDENTIAL RESIDUAL OIL	000000000 THOUS GAL	NOX 18.00 THC 1.00	0000000 0000000
023	RESIDENTIAL DISTILLATE	000042361 THOUS GAL	NOX 18.00 THC 1.00	0000393 0000021
024	RESIDENTIAL NATURAL GAS	000000791 MIL CU FT	NOX 60.00 THC 6.00	0000032 0000003
025	RESIDENTIAL LPG	000002846 THOUS GAL	NOX 8.00 THC 0.80	0000011 0000001
026	RESIDENTIAL WOOD	000001545 TON	NOX 1.00 THC 5.00	0000001 0000004
027	COMM/INST ANTHRACITE	000000000 TON	NOX 10.00 THC 0.20	0000000 0000000
028	COMM/INST BITUMINOUS	000000000 TON	NOX 6.00 THC 3.00	0000000 0000000
029	COMM/INST RESIDUAL OIL	000000000 THOUS GAL	NOX 60.00 THC 1.00	0000000 0000000
030	COMM/INST DISTILLATE OIL	000002563 THOUS GAL	NOX 22.00 THC 1.00	0000029 0000001
031	COMM/INST NATURAL GAS	000000515 MIL CU FT	NOX 120.00 THC 6.00	0000031 0000002
032	COMM/INST LPG	000000000 THOUS GAL	NOX 11.00 THC 0.75	0000000 0000000
033	COMM/INST WOOD/OTHER	000000000 TON	NOX 10.00 THC 36.00	0000000 0000000
034	INDUSTRIAL ANTHRACITE	000000000 TON	NOX 18.00 THC 0.80	0000000 0000000

TABLE B-1 (continued)

GCA / TECHNOLOGY DIVISION AREA SOURCE MASTER FILE SUMMARY FOR CONNECTICUT						
COUNTY: 0476						
CATEGORY NUMBER	CAT GORY DESCRIPTION	PROCESS RATE	UNITS	POLLUTANT I.D.	EMISSION FACTOR	EMISSIONS ESTIMATE
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	000000352	MIL CU FT	NOX THC	119.99 2.98	0000021 0000001
039	INDUSTRIAL LPS	000000000	THOUS GAL	NOX THC	11.00 0.30	0000000 0000000
040	INDUSTRIAL WOOD/OTHER	000000000	TON	NOX THC	10.00 35.00	0000000 0000000
041	MILITARY AIRCRAFT	000000000	LND/TAKE OFF	NOX THC	1.01 5.21	0000000 0000000
042	CIVIL AIRCRAFT	000024705	LND/TAKE OFF	NOX THC	0.05 0.40	0000001 0000005
043	COMMERCIAL AIRCRAFT	000000000	LND/TAKE OFF	NOX THC	51.40 60.50	0000000 0000000
044	RAILROAD LOCOMOTIVES	000000413	THOUS GAL	NOX THC	370.00 93.99	0000076 0000019
045	VESSELS - GASOLINE	000001252	THOUS GAL	NOX THC	6.50 1,100.00	0000004 0000089
046	VESSELS - DISTILLATE OIL	000000000	THOUS GAL	NOX THC	40.00 20.00	0000000 0000000
047	VESSELS - RESIDUAL OIL	000000000	THOUS GAL	NOX THC	40.00 20.00	0000000 0000000

TABLE B-1 (continued)

STATE / TECHNOLOGY DIVISION AREA SOURCE MASTER FILE SUMMARY FOR CONNECTICUT						
COUNTY:0478						
CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RATE	UNITS	POLLUTANT I.D.	EMISSION FACTOR	EMISSIONS ESTIMATE
048	OFF-HIGHWAY VEHICLES-GAS	000000000	THOUS GAL	NOX THC	105.00 267.00	0000000 0000000
049	OFF-HIGHWAY VEH - DIESEL	000001034	THOUS GAL	NOX THC	415.70 29.51	0000227 0000016
050	ON-SITE INCINERATION	000000000	TON	NOX THC	6.00 30.00	0000000 0000000
051	OPEN BURNING	000000032	TON	NOX THC	3.01 22.56	0000000 0000000
052	STRUCTURAL FIRES	000000507	FIRES	NOX THC	2.00 4.00	0000001 0000001
053	FIELD/SLASH BURNING	000000000	TON	NOX THC	3.01 22.56	0000000 0000000
054	FOREST FIRES	000005640	TON	NOX THC	2.00 13.09	0000006 0000056
055	ON-HIGHWAY VEHICLES-GAS	000916473	THOUS VMT	NOX THC	9.64 10.60	0004550 0004857
099	COUNTY TOTALS			THC NOX NOX		0002415 0006700 0005395

TABLE B-1 (continued)

SC / TECHNOLOGY DIVISION
AREA SOURCE MASTER FILE SUMMARY
FOR CONNECTICUT

COUNTY: 1565

Category Number	Category Description	Process Rate	Units	Pollutant I.D.	Emission Factor	Estimate
001	Stage I Gasoline Evap	000056972	THOUS GAL	THC	7.30	0000206
002	Stage II Gasoline Evap	000056972	THOUS GAL	THC	9.70	0000276
003	Storage Tank Breathing	000056972	THOUS GAL	THC	1.00	0000028
004	Gasoline Loading/Transfer	000056972	THOUS GAL	THC	0.12	0000003
005	SP IND/COMM OILGREASING	000000075	TON	NHC	2,000.00	0000075
006	Dry Cleaning	000000140	TON	NHC	209.05	0000015
007	Arch Surface Coating	000125017	POPULATION	NHC	4.60	0000297
008	Auto Body Refinishing	000125017	POPULATION	NHC	1.90	0000123
009	SP IND Surface Coating	000000710	TON	THC	2,000.00	0000710
010	Graphic Arts	000000036	TON	NHC	2,000.00	0000036
011	Commercial Solvent Use	000125017	POPULATION	NHC	6.30	0000406
012	Crack Asphalt	000000142	TON	NHC	2,000.00	0000142
013	Pesticides	000007601	ACRE	NHC	3.50	0000013
018	On-Highway HOD	000000530	THOUS GAL	NOX NHC	9.00 0.00	0000000 0000000
020	Residential Anthracite	000000482	TON	THC NOX	2.49 3.00	0000001 0000001
021	Residential Bituminous	000000000	TON	NOX THC	3.00 20.00	0000000 0000000

TABLE B-1 (continued)

SQA / TECHNOLOGY DIVISION AREA SOURCE MASTER FILE SUMMARY FOR CONNECTICUT						
COUNTY:05E5						
CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS CATE	UNITS	POLLUTANT I.D.	EMISSION FACTOR	EMISSIONS ESTIMATE
002	RESIDENTIAL RESIDUAL OIL	000000000	THOUS GAL	NOX THC	10.00 1.00	0000000 0000000
003	RESIDENTIAL DISTILLATE	000020986	THOUS GAL	NOX THC	10.00 1.00	0000270 0000015
004	RESIDENTIAL NATURAL GAS	000000009	MIL CU FT	NOX THC	80.00 8.00	0000222 0000002
005	RESIDENTIAL LPG	000000003	THOUS GAL	NOX THC	8.00 0.80	0000011 0000001
006	RESIDENTIAL WOOD	000000071	YD3	NOX THC	1.00 5.00	0000001 0000003
007	COMM/INST ANTHRACITE	000000000	TON	NOX THC	10.00 0.00	0000000 0000000
008	COMM/INST BITUMINOUS	000000000	TON	NOX THC	6.00 3.00	0000000 0000000
009	COMM/INST RESIDUAL OIL	000000000	THOUS GAL	NOX THC	60.00 1.00	0000000 0000000
010	COMM/INST DISTILLATE OIL	000000022	THOUS GAL	NOX THC	22.00 1.00	0000022 0000001
011	COMM/INST NATURAL GAS	000000420	MIL CU FT	NOX THC	120.00 8.00	0000026 0000002
012	COMM/INST LPG	000000000	THOUS GAL	NOX THC	11.00 0.75	0000000 0000000
013	COMM/INST WOOD/OTHER	000000000	TON	NOX THC	10.00 36.00	0000000 0000000
014	INDUSTRIAL ANTHRACITE	000000000	TON	NOX THC	10.00 0.00	0000000 0000000

TABLE B-1 (continued)

GCA / TECHNOLOGY DIVISION
AREA SOURCE MASTER FILE SUMMARY
FOR CONNECTICUT

COUNTY:0525

CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RATE	UNITS	POLLUTANT I.D.	EMISSION FACTOR	EMISSIONS ESTIMATE
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	00000790	THOUS GAL	NOX THC	22.00 1.00	0000009 0000000
038	INDUSTRIAL NATURAL GAS	000000303	MIL CU FT	NOX THC	119.79 2.98	0000013 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 26.00	0000000 0000000
041	MILITARY AIRCRAFT	00000000	LND/TAKE OFF	NOX THC	1.91 5.21	0000000 0000000
042	CIVIL AIRCRAFT	00030937	LND/TAKE OFF	NOX THC	0.95 0.40	0000001 0000000
043	COMMERCIAL AIRCRAFT	00000000	LND/TAKE OFF	NOX THC	51.40 60.50	0000000 0000000
044	RAILROAD LOCOMOTIVES	000000875	THOUS GAL	NOX THC	370.00 93.59	0000162 0000041
045	VESSELS - GASOLINE	000001050	THOUS GAL	NOX THC	6.50 1,100.00	0000005 0000908
046	VESSELS - DISTILLATE OIL	000000000	THOUS GAL	NOX THC	40.00 20.00	0000000 0000000
047	VESSELS - RESIDUAL OIL	000000752	THOUS GAL	NOX THC	45.20 13.70	0000017 0000005

TABLE B-1 (continued)

COUNTIES					DOH / TECHNOLOGY DIVISION AREA SOURCE MASTER FILE SUMMARY FOR CONNECTICUT				
CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RATE	UNIT	POLLUTANT I.D.	EMISSION FACTOR	EMISSIONS ESTIMATE			
048	OFF-HIGHWAY VEHICLES-GAS	000000000	THOUS GAL	NOX	105.00	0000000			
				THC	267.00	0000000			
049	OFF-HIGHWAY VEH - DIESEL	000000001	THOUS GAL	NOX	415.00	0000179			
				THC	29.51	0000013			
050	ON-SITE INCINERATION	000000000	TON	NOX	6.00	0000000			
				THC	30.00	0000000			
051	OPEN BURNING	000000014	TON	NOX	3.01	0000000			
				THC	22.56	0000000			
052	STRUCTURAL FIRES	000000429	FIRES	NOX	2.00	0000000			
				THC	4.00	0000001			
053	FIRE/SLASH BURNING	000000000	TON	NOX	3.01	0000000			
				THC	22.56	0000000			
054	FOREST FIRES	000000160	TON	NOX	2.00	0000001			
				THC	19.59	0000012			
055	ON-HIGHWAY VEHICLES-GAS	001064325	THOUS VMT	NOX	10.13	0005395			
				THC	9.64	0005133			
099	COUNTY TOTALS			THC		0002233			
				THC		0006243			
				NOX		0006140			

TABLE B-1 (continued)

SCS / TECHNOLOGY DIVISION
AREA SOURCE MASTER FILE SUMMARY
FOR COHAGUETICUT

COUNTRY:0705

CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RATE	UNITS	POLLUTANT I.C.	EMISSION FACTOR	EMISSIONS ESTIMATE
001	STAGE I GASOLINE EVAP	000347722	THOUS GAL	THC	7.30	0001269
002	STAGE II GASOLINE EVAP	000347722	THOUS GAL	THC	9.70	0001686
003	STORAGE TANK BREATHING	000347722	THOUS GAL	THC	1.00	0000174
004	GASOLINE LOADING/TRANSIT	000347722	THOUS GAL	THC	0.12	0000021
005	SP IND/COMM DEGREASING	000001657	TON	NHC	2,000.00	0001697
006	DRY CLEANING	000001121	TON	NHC	205.95	0000118
007	ARCH SURFACE COATING	000761337	POPULATION	NHC	4.60	0001751
008	AUTO BODY REFINISHING	000761337	POPULATION	NHC	1.90	0000723
009	SP IND SURFACE COATING	000001072	TON	THC	2,000.00	0001672
010	GRAPHIC ARTS	000000974	TON	NHC	2,000.00	0000974
011	COMM/CONS SOLVENT USE	000761337	POPULATION	NHC	6.30	0002394
012	OUTDOOR ASPHALT	000000195	TON	NHC	2,000.00	0000183
013	PESTICIDES	000014050	ACRE	NHC	3.50	0000025
018	ON-HIGHWAY HDD	000024502	THOUS GAL	NOX NHC	0.00 0.50	0000000 0000000
020	RESIDENTIAL ANTIMONITE	000000452	TON	NOX	3.00	0000000
021	RESIDENTIAL BITUMINOUS	000000000	TON	NOX THC	3.00 20.00	0000000 0000000

TABLE B-1 (continued)

COUNTY:0705				GCP / TECHNOLOGY DIVISION				AREA SOURCE MASTER FILE SUMMARY				FOR CONNECTICUT			
CATEGORY NUMBER	CATEGORY DESCRIPTION	FACCLASS R/F	UNITS	POLLUTANT I.D.	EMISSION FACTOR	EMISSIONS ESTIMATE									
022	RESIDENTIAL RESIDUAL OIL	000000000	THOUS GAL	NOX	16.00	0000000									
				THC	1.00	0000000									
023	RESIDENTIAL DISTILLATE	000143594	THOUS GAL	NOX	18.00	0001292									
				THC	1.00	0000072									
024	RESIDENTIAL NATURAL GAS	000000000	MIL CU FT	NOX	20.00	0000392									
				THC	8.00	0000039									
025	RESIDENTIAL LPG	000000000	THOUS GAL	NOX	8.00	0000034									
				THC	0.00	0000003									
026	RESIDENTIAL COOP	000000000	TON	NOX	1.00	0000000									
				THC	5.00	0000002									
027	COMM/INST ANTHRACITE	000000000	TON	NOX	10.00	0000000									
				THC	0.00	0000000									
028	COMM/INST BITUMINOUS	000000000	TON	NOX	6.00	0000000									
				THC	3.00	0000000									
029	COMM/INST RESIDUAL OIL	000000000	THOUS GAL	NOX	60.00	0000000									
				THC	1.00	0000000									
030	COMM/INST DISTILLATE OIL	000012742	THOUS GAL	NOX	22.00	0000140									
				THC	1.00	0000006									
031	COMM/INST NATURAL GAS	000000000	MIL CU FT	NOX	120.00	0000185									
				THC	6.00	0000012									
032	COMM/INST LPG	000000000	THOUS GAL	NOX	11.00	0000000									
				THC	0.75	0000000									
033	COMM/INST COAL/OTHER	000000000	TON	NOX	10.00	0000000									
				THC	36.00	0000000									
034	INDUSTRIAL ANTHRACITE	000000000	TON	NOX	10.00	0000000									
				THC	0.00	0000000									

TABLE B-1 (continued)

SCS / TECHNOLOGY DIVISION
AREA SOURCE MASTER FILE SUMMARY
FOR CONNECTICUT

COUNTY:0705

CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RATE	UNITS	POLLUTANT I.D.	EMISSION FACTOR	EMISSIONS ESTIMATE
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	000004461	THOUS GAL	NOX THC	22.00 1.00	0000044 0000002
038	INDUSTRIAL NATURAL GAS	000001853	MIL CU FT	NOX THC	119.59 2.98	0000111 0000003
039	INDUSTRIAL LPG	000000000	THOUS GAL	NOX THC	11.65 0.30	0000000 0000000
040	INDUSTRIAL WOOD/OTHER	000000000	TON	NOX THC	10.30 36.60	0000000 0000000
041	MILITARY AIRCRAFT	000000501	LNO/TAKE OFF	NOX THC	1.51 5.21	0000000 0000001
042	CIVIL AIRCRAFT	000114124	LNO/TAKE OFF	NOX THC	0.05 0.40	0000003 0000023
043	COMMERCIAL AIRCRAFT	000012086	LNO/TAKE OFF	NOX THC	51.40 60.50	0000311 0000365
044	RAILROAD LOCOMOTIVES	0000003217	THOUS GAL	NOX THC	379.00 93.59	0000093 0000151
045	VESSELS - GASOLINE	000001596	THOUS GAL	NOX THC	6.50 1.100.00	0000005 0000073
046	VESSELS - DISTILLATE OIL	000000000	THOUS GAL	NOX THC	40.00 20.00	0000000 0000000
047	VESSELS - RESIDUAL OIL	000001744	THOUS GAL	NOX THC	42.40 22.50	0000037 0000023

TABLE B-1 (continued)

COUNTY:0705				GC / TECHNOLOGY DIVISION AREA SOURCE WASTE FILE SUMMARY FOR CONNECTICUT			
CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RATE	UNITS	POLLUTANT I.D.	EMISSION FACTOR	EMISSIONS ESTIMATE	
048	OFF-HIGHWAY VEHICLES-GAS	000000000	THOUS GAL	NOX	105.00	5000000	
				THC	267.30	5000000	
049	OFF-HIGHWAY VEH - DIESEL	000000388	THOUS GAL	NOX	415.10	0001119	
				THC	29.51	0000079	
050	ON-SITE INCINERATION	000000000	TON	NOX	6.00	0000000	
				THC	30.00	0000000	
051	OPEN BURNING	000000012	TON	NOX	3.01	0000000	
				THC	22.56	0000000	
052	STRUCTURAL FIRES	000003070	FIRES	NOX	2.00	0000003	
				THC	4.00	0000003	
053	FIELD/SLASH BURNING	000003000	TON	NOX	3.01	0000003	
				THC	22.56	0000000	
054	FOR ST FIRES	000012560	TON	NOX	2.00	0000013	
				THC	19.75	0000124	
055	ON-HIGHWAY VEHICLES-GAS	000372750	THOUS VMT	NOX	9.08	0021606	
				THC	10.67	0023335	
099	COUNTY TOTALS			THC		0006420	
				THC		0031205	
				NOX		0025305	

TABLE B-1 (continued)

SC-7 TECHNOLOGY DIVISION
AREA SOURCE MASTER FILE SUMMARY
FOR CONNECTICUT

COUNTY:0725

CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RATE	UNITS	POLLUTANT EMISSION F.C.	EMISSIONS FACTOR	EMISSIONS ESTIMATE
001	STAGE I GASOLINE EVAP	000100936	THOUS GAL	THC	7.70	0000368
002	STAGE II GASOLINE EVAP	000100936	THOUS GAL	THC	9.70	0000490
003	STORAGE TANK BREATHING	000100936	THOUS GAL	THC	1.00	0000050
004	GASOLINE LOADING/TRANSIT	000100936	THOUS GAL	THC	0.12	0000006
005	SH INDUSTRY DEGREASING	000000056	TON	NHC	2.000.00	0000056
006	DRY CLEANING	000000311	TON	NHC	209.95	0000333
007	ARCH SURFACE COATING	00023.409	POPULATION	NHC	4.60	0000548
008	AUTO BODY REFINISHING	00023.409	POPULATION	NHC	1.50	0000226
009	SH IND SURFACE COATING	000000416	TON	THC	2.000.00	0000416
010	GRAPHIC ARTS	000000455	TON	NHC	2.000.00	0000455
011	COMP/CONS SOLVENT USE	00023.409	POPULATION	NHC	6.30	0000751
012	CUTBACK ASPHALT	000000161	TON	NHC	2.000.00	0000161
013	PESTICIDES	000023580	ACRE	NHC	3.50	0000041
018	ON-HIGHWAY HOD	000000566	THOUS GAL	NOX THC	0.00 0.00	0000000 0000000
020	RESIDENTIAL ANTHRACITE	000000226	TON	NOX THC	3.00 2.49	0000004 0000003
021	RESIDENTIAL BITUMINOUS	000000000	TON	NOX THC	3.00 20.00	0000000 0000000

TABLE B-1 (continued)

GCA / TECHNOLOGY DIVISION APEA SOURCE MASTER FILE SUMMARY FOR CONNECTICUT						
COUNTY:0725	CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RATE UNITS	POLLUTANT I.D.	EMISSION FACTOR	EMISSIONS ESTIMATE
	022	RESIDENTIAL RESIDUAL OIL	00000000 THOUS GAL	NOX THC	18.00 1.00	0000000 0000303
	023	RESIDENTIAL DISTILLATE	000049694 THOUS GAL	NOX THC	18.00 1.00	0000447 0000025
	024	RESIDENTIAL NATURAL GAS	000001255 MIL CU FT	NOX THC	80.00 8.00	0000052 0000005
	025	RESIDENTIAL LPG	000006620 THOUS GAL	NOX THC	8.00 0.00	0000026 0000003
	026	RESIDENTIAL WOOD	000004277 TON	NOX NHC	1.00 5.00	0000002 0000011
	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	000000000 THOUS GAL	NOX THC	60.00 1.00	0000000 0000000
	030	COMM/INST DISTILLATE OIL	000004004 THOUS GAL	NOX THC	22.00 1.00	0000044 0000002
	031	COMM/INST NATURAL GAS	000000909 MIL CU FT	NOX THC	120.00 8.00	0000055 0000004
	032	COMM/INST LPG	000000000 THOUS GAL	NOX THC	11.00 0.75	0000000 0000000
	033	COMM/INST WOOD/OTHER	000000000 TON	NOX THC	10.00 32.00	0000000 0000000
	034	INDUSTRIAL ANTHRACITE	000000000 TON	NOX THC	10.00 0.00	0000000 0000000

TABLE B-1 (continued)

SCA / TECHNOLOGY DIVISION
AREA SOURCE MASTER FILE SUMMARY
FOR CONNECTICUT

COUNTY:0725

CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RATE	UNITS	POLLUTANT I.D.	EMISSION FACTOR	MISSIONS ESTIMATE
035	INDUSTRIAL ETHYLENE	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	000000755	THOUS GAL	NOX THC	22.00 1.00	0000019 0000001
038	INDUSTRIAL NATURAL GAS	000000715	MIL CU FT	NOX THC	119.99 2.98	0000043 0000001
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	000000612	LND/TAKE OFF	NOX THC	1.91 5.21	0000002 0000007
042	CIVIL AIRCRAFT	000000200	LND/TAKE OFF	NOX THC	0.05 0.40	0000001 0000011
043	COMMERCIAL AIRCRAFT	000000112	LND/TAKE OFF	NOX THC	51.40 60.50	0000037 0000037
044	RAILROAD LOCOMOTIVES	000000163	THOUS GAL	NOX THC	370.00 93.99	0000002 0000077
045	VESSELS - GASOLINE	000000654	THOUS GAL	NOX THC	6.50 1.100.00	0000009 0001462
046	VESSELS - DISTILLATE OIL	000000000	THOUS GAL	NOX THC	40.00 20.00	0000000 0000000
047	VESSELS - RESIDUAL OIL	000000114	THOUS GAL	NOX THC	28.00 8.70	0000016 0000005

TABLE B-1 (continued)

SCT / TECHNOLOGY DIVISION AREA SOURCE - BASED EPA SUMMARY FOR COMBUSTION						
CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RATE	UNITS	POLLUTANT I.D.	EMISSION FACTOR	EMISSIONS ESTIMATE
COUNTY: 0725						
048	OFF-HIGHWAY VEHICLES-GAS	000000000	THOUS GAL	NOX THC	105.00 267.00	0000000 0000000
049	OFF-HIGHWAY VEH - DIESEL	000001708	THOUS GAL	NOX THC	415.00 29.51	0003355 0000025
050	ON-SITE INCINERATION	000000000	TON	NOX THC	6.00 30.00	0000000 0000000
051	OPER BURNING	000000014	TON	NOX THC	3.01 22.56	0000000 0000000
052	STRUCTURAL FIRES	000000896	FIRES	NOX THC	2.00 6.00	0000001 0000003
053	FIELD/SLASH BURNING	000000000	TON	NOX THC	3.01 22.56	0000000 0000000
054	FOREST FIRES	000004400	TON	NOX THC	2.00 19.09	0000004 0000044
055	ON-HIGHWAY VEHICLES-GAS	001794412	THOUS VMT	NOX THC	10.14 9.52	0009104 0008947
999	COUNTY TOTALS			THC NHC NOX		0003405 0010929 0010823

TABLE B-1 (continued)

GC / TECHNOLOGY DIVISION
AREA SOURCE MASTER FILE SUMMARY
FOR CONNECTICUT

COUNTY:1155

CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS FILE	UNITS	POLLUTANT I.D.	EMISSION FACTOR	EMISSIONS ESTIMATE
001	STAGE I GASOLINE EVAP	00005448	THOUS GAL	THC	7.30	0000202
002	STAGE II GASOLINE EVAP	00005448	THOUS GAL	THC	9.70	0000269
003	STORAGE TANK EVAPORATING	00005448	THOUS GAL	THC	1.00	0000028
004	GASOLINE LOADING/TRANSIT	00005448	THOUS GAL	THC	0.12	0000003
005	SP IND/COMM DEGREASING	00000077	TON	NHC	2+000+00	0000077
006	DRY CLEANING	00000002	TON	NHC	209.35	0000010
007	ARCH SURFACE COATING	000114023	POPULATION	NHC	4.60	0000264
008	AUTO BODY REFINISHING	000114023	POPULATION	NHC	1.50	0000109
009	SP IND SURFACE COATING	00000044	TON	THC	2+000+00	0000044
010	GRATICULATIONS	00000006	TON	NHC	2+000+00	0000006
011	COMM/COMM SOLVENT USE	000114023	POPULATION	NHC	6.30	0000362
012	CUTBACK ASPHALT	000000104	TON	NHC	2+000+00	0000104
013	PESTICIDES	000014301	ACRE	NHC	3.50	0000025
018	ON-HIGHWAY HCL	000004320	THOUS GAL	NHC	0.00	0000000
020	RESIDENTIAL ANTHRACITE	000000764	TON	NHC	0.00	0000000
021	RESIDENTIAL BITUMINOUS	000000000	TON	NHC	0.00	0000000

TABLE B-1 (continued)

CCP / TECHNOLOGY DIVISION
AREA SOURCE MASTER FILE SUMMARY
FOR CONNECTICUT

COUNTY:1155

CATEGORY NUMBER	CATEGORY DESCRIPTION	FPOSSS FUEL UNITS	POLLUTANT EMISSION FACOR	EMISSIONS ESTIMATE
022	RESIDENTIAL RESIDUAL OIL	00000000 THOUS GAL	NOX THC	18.00 000000 1.00 000000
023	RESIDENTIAL DISTILLATE	000024968 THOUS GAL	NOX THC	18.00 000025 1.00 000012
024	RESIDENTIAL NATURAL GAS	000000271 MIL CU FT	NOX THC	89.00 0000011 3.00 0000001
025	RESIDENTIAL LPG	000002812 THOUS GAL	NOX THC	8.00 0000011 0.80 0000001
026	RESIDENTIAL WOOD	000001837 TON	NOX THC	1.00 0000001 5.00 0000005
027	COMM/INST ANTHRACITE	000000000 TON	NOX THC	10.00 0000000 0.00 0000000
028	COMM/INST BITUMINOUS	000000000 TON	NOX THC	6.00 0000000 3.00 0000000
029	COMM/INST RESIDUAL OIL	000000000 THOUS GAL	NOX THC	60.00 0000000 1.00 0000000
030	COMM/INST DISTILLATE OIL	000001803 THOUS GAL	NOX THC	22.00 0000025 1.00 0000001
031	COMM/INST NATURAL GAS	000000364 MIL CU FT	NOX THC	120.00 0000022 8.00 0000001
032	COMM/INST LPG	000000000 THOUS GAL	NOX THC	11.00 0000000 0.75 0000000
033	COMM/INST WOOD/OTHER	000000000 TON	NOX THC	10.00 0000000 36.00 0000000
034	INDUSTRIAL ANTHRACITE	000000000 TON	NOX THC	18.00 0000000 0.00 0000000

TABLE B-1 (continued)

GCA / TECHNOLOGY DIVISION AREA SOURCE MASTER FILE SUMMARY FOR CONNECTICUT						
COUNTY:1155						
CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RATE	UNITS	POLLUTANT I.O.	EMISSION FACTOR	EMISSIONS ESTIMATE
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	000000150	THOUS GAL	NOX THC	22.00 1.00	0000002 0000000
038	INDUSTRIAL NATURAL GAS	000000000	MIL CU FT	NOX THC	115.99 2.98	0000003 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	1.51 5.21	0000000 0000000
042	CIVIL AIRCRAFT	00000.721	LND/TAKE OFF	NOX THC	0.05 0.40	0000000 0000002
043	COMMERCIAL AIRCRAFT	000000000	LND/TAKE OFF	NOX THC	51.40 60.50	0000000 0000000
044	RAILROAD LOCOMOTIVES	000000177	THOUS GAL	NOX THC	370.00 93.09	0000003 0000000
045	VESSELS - GASOLINE	0000000672	THOUS GAL	NOX THC	6.50 1,100.00	0000002 0000000
046	VESSELS - DISTILLATE OIL	000000000	THOUS GAL	NOX THC	40.00 20.00	0000000 0000000
047	VESSELS - RESIDUAL OIL	000000000	THOUS GAL	NOX THC	40.00 20.00	0000000 0000000

TABLE B-1 (continued)

CCF / TOWN BODY DIVISION AREA SOURCE MASTER FILE SUMMARY FOR CONNECTICUT						
CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RATE	UNITS	POLLUTANT EMISSION I.J.	EMISSIONS ESTIMATE	
048	OFF-HIGHWAY VEHICLES-GAS	000000000	THOUS GAL	NOX THC	105.00 267.00	0000000 0000000
049	OFF-HIGHWAY VEH - DIESEL	0000000767	THOUS GAL	NOX THC	415.30 29.51	0000159 0000011
050	ON-SITE INCINERATION	000000000	TON	NOX THC	6.00 30.00	0000000 0000000
051	OPEN BURNING	000000000	TON	NOX THC	3.01 22.56	0000000 0000000
052	STRUCTURAL FIRES	000000364	FIRES	NOX THC	2.00 4.00	0000000 0000001
053	FIELD/SLASH BURNING	000000000	TON	NOX THC	3.01 22.56	0000000 0000000
054	FOREST FIRES	000001840	TON	NOX THC	2.00 19.59	0000002 0000018
055	OFF-HIGHWAY VEHICLES-GAS	000049100	THOUS VMT	NOX THC	10.15 9.50	0004311 0004205
099	COUNTY TOTALS			THC NOX		0000973 0005168 0004803

TABLE B-1 (continued)

604 / TECHNOLOGY DIVISION
APEA SOURCE MASTER FILE SUMMARY
FOR CONNECTICUT

COUNTY:1505

CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RATE	UNITS	POLLUTANT I.D.	EMISSION FACTOR	EMISSIONS ESTIMATE
001	STAGE I GASOLINE EVAP	000030200	THOUS GAL	THC	7.30	0000143
002	STAGE II GASOLINE EVAP	000030290	THOUS GAL	THC	9.70	0000191
003	STORAGE TANK BREATHING	000030290	THOUS GAL	THC	1.20	0000020
004	GASOLINE LOADING/TRANSIT	000030290	THOUS GAL	THC	0.12	0000002
005	SP IND/COMM DEGREASING	000000010	TON	NHC	2.000.00	0000010
006	DRY CLEANING	000000013	TON	NHC	205.25	0000002
007	ARCH SURFACE COATING	000000312	POPULATION	NHC	4.60	0000212
008	AUTO BODY REFINISHING	000000312	POPULATION	NHC	1.60	0000008
009	SP IND SURFACE COATING	000000704	TON	THC	2.000.00	0000704
010	GRAPHIC ARTS	000000013	TON	NHC	2.000.00	0000013
011	COMM/CONS SOLVENT USE	000000312	POPULATION	NHC	6.30	0000291
012	CUTBACK ASPHALT	000000223	TON	NHC	2.000.00	0000223
013	PESTICIDES	000000075	ACPL	NHC	3.50	0000044
016	ON-HIGHWAY HDO	0000003015	THOUS GAL	HDX NHC	0.00 0.00	0000000 0000000
020	RESIDENTIAL ANTHRACITE	000001972	TON	HDX THC	3.00 2.49	0000003 0000002
021	RESIDENTIAL BITUMINOUS	000000000	TON	HDX THC	3.50 20.50	0000000 0000000

TABLE B-1 (continued)

COUNTY:1505							CCT / TECHNOLOGY DIVISION AREA SOURCE FACTOR FILE SUMMARY FOR CONNECTICUT						
CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS SITE	UNITS	POLLUTANT I.D.	EMISSION FACTOR	EMISSIONS ESTIMATE							
022	RESIDENTIAL RESIDUAL OIL	000000000	THOUS GAL	NOX THC	18.00 1.00	0000000 0000000							
023	RESIDENTIAL DISTILLATE	000020711	THOUS GAL	NOX THC	18.00 1.00	0000186 0000010							
024	RESIDENTIAL NATURAL GAS	000000498	MIL CU FT	NOX THC	80.00 8.00	0000020 0000002							
025	RESIDENTIAL LPG	000003679	THOUS GAL	NOX THC	8.00 0.20	0000015 0000001							
026	RESIDENTIAL WOOD	000003836	TON	NOX THC	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	000000000	THOUS GAL	NOX THC	60.00 1.00	0000000 0000000							
030	COMM/INST DISTILLATE OIL	000001538	THOUS GAL	NOX THC	22.00 1.00	0000017 0000001							
031	COMM/INST NATURAL GAS	000000299	MIL CU FT	NOX THC	120.00 8.00	0000014 0000001							
032	COMM/INST LPG	000000000	THOUS GAL	NOX THC	11.00 0.75	0000000 0000000							
033	COMM/INST WOOD/OTHER	000000000	TON	NOX THC	10.00 36.00	0000000 0000000							
034	INDUSTRIAL ANTHRACITE	000000000	TON	NOX THC	18.00 0.00	0000000 0000000							

TABLE B-1 (continued)

COUNTY:1595							JCC / TECHNOLOGY DIVISION AREA SOURCE MASTER FILE SUMMARY FOR CONNECTICUT						
CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS RATE	UNITS	POLLUTANT I.D.	EMISSION FACTOR	EMISSIONS ESTIMATE							
335	INDUSTRIAL BITUMINOUS	000000000	TON	COX THC	15.00 1.00	0000000 0000000							
336	INDUSTRIAL RESIDUAL OIL	000000000	THOUS GAL	NOX THC	60.00 1.00	0000000 0000000							
337	INDUSTRIAL DISTILLATE OIL	000000062	THOUS GAL	COX THC	22.00 1.00	0000007 0000000							
338	INDUSTRIAL NATURAL GAS	000000270	MIL CU FT	NOX THC	119.59 2.98	0000016 0000000							
339	INDUSTRIAL LPG	000000000	THOUS GAL	NOX THC	11.45 0.30	0000000 0000000							
340	INDUSTRIAL WOOD/OTHER	000000000	TON	NOX THC	10.00 36.00	0000000 0000000							
341	MILITARY AIR CRAFT	000000000	LND/TAKE OFF	COX THC	1.91 5.21	0000000 0000000							
342	CIVIL AIRCRAFT	000009135	LND/TAKE OFF	NOX THC	0.05 0.40	0000000 0000002							
343	COMMERCIAL AIRCRAFT	000000000	LND/TAKE OFF	COX THC	51.40 60.00	0000000 0000000							
344	RAILROAD LOCOMOTIVES	000000507	THOUS GAL	NOX THC	370.00 93.99	0000094 0000024							
345	VESSELS - GASOLINE	000000244	THOUS GAL	COX THC	6.50 1,100.00	0000001 0000134							
346	VESSELS - DISTILLATE OIL	000000000	THOUS GAL	NOX THC	40.00 20.00	0000000 0000000							
347	VESSELS - RESIDUAL OIL	000000000	THOUS GAL	COX THC	40.00 20.00	0000000 0000000							

TABLE B-1 (continued)

COUNTY:1505				GCM / TECHNOLOGY DIVISION ASLA SOURCE MASTER FILE SUMMARY FOR CONNECTICUT			
CATEGORY NUMBER	CATEGORY DESCRIPTION	PROCESS SALE	UNITS	POLLUTANT I.D.	EMISSION FACTOR	EMISSIONS ESTIMATE	
048	OFF-HIGHWAY VEHICLES-GAS	000000000	THOUS GAL	NOX	105.00	0000000	
				THC	267.00	0000000	
049	OFF-HIGHWAY VEH - DIESEL	000000667	THOUS GAL	NOX	415.20	0000139	
				THC	29.51	0000910	
050	ON-SITE INCINERATION	000000000	TON	NOX	6.00	0000000	
				THC	30.00	0000000	
051	OPEN BURNING	000000010	TON	NOX	3.01	0000000	
				THC	22.56	0000000	
052	STRUCTURAL FIRES	000000300	FIRES	NOX	2.00	0000000	
				THC	4.00	0000001	
053	FIELD/SLASH BURNING	000000000	TON	NOX	3.01	0000000	
				THC	22.56	0000000	
054	FOREST FIRES	000000640	TON	NOX	2.00	0000006	
				THC	15.99	0000056	
055	ON-HIGHWAY VEHICLES-GAS	000546059	THOUS VMT	NOX	10.17	0002778	
				THC	5.56	0002611	
059	COUNTY TOTALS			THC		0001304	
				THC		0003519	
				NOX		0003302	

APPENDIX C

DOCUMENTATION OF COMPUTER ROUTINES USED FOR THE CONNECTICUT INVENTORY

As described in Section 3, there were several "generic" problems with the Connecticut NEDS data that had to be addressed by computer routines. These included repetition of NEDS Card 1 records for each point, incorrect hexadecimal bit patterns for alphabetic point identification numbers and duplicate point ID assignments. The routines used to address these problems are presented as follows.


```

/** FIX CORR. NEEDS, FIX ALPHA. POINT I.D.S WHICH HAVE
/** INCORRECT LINCOC CODES.
/**
/**STAFF1 EXEC PLIXCLG,FARM.PLI='2,46,CS(48),STMT,REST,CF',
/** FARM.LKED=NOFAP
FIXCTS: PROC OPTIONS(MAIN);
DECLARE
KARD      CHAR(80),
NEEDSIN   FILE INPUT RECORD,
NEEDSOUT  FILE OUTPUT RECORD,
MORE      BIT(1) INIT('1'B),
J         FIXED BIN(15),
FIX_CHAR  BIT(8) INIT('10000000'),
NEW_CHAR  CHAR(1),
INDEX     BUILTIN,
NUMBERS   CHAR(10) INIT('0123456789'),
CD_NO     CHAR(1) DEF KARD POS(80),
COUNT_IN,
COUNT_CHANGE) FIXED BIN(31) INIT(0);
ON ENDFILE (NEEDSIN) MORE = '0'B;
/* ----- START HERE ----- */
READ FILE (NEEDSIN) INTO (KARD);
LOOCP:
DO WHILE (MORE);
COUNT_IN = COUNT_IN + 1;
IF CD_NO NE '1' THEN
CD2_6:
DO;
DO J=1 TO 2;
NEW_CHAR = SUBSTR(KARD,13+J,1);
IF INDEX(NUMBERS,NEW_CHAR) = 0 THEN
FIX_A:
DO;
PUT SKIP LIST(NEW_CHAR,UNSPEC(NEW_CHAR));
SUBSTR(UNSPEC(NEW_CHAR),2,1) = '1'B;
PUT LIST (NEW_CHAR,UNSPEC(NEW_CHAR));
SUBSTR(KARD,13+J,1) = NEW_CHAR;
COUNT_CHANGE = COUNT_CHANGE + 1;
END FIX_A;
END;
END CD2_6;
WRITE FILE (NEEDSOUT) FROM (KARD);
READ FILE (NEEDSIN) INTO (KARD);
END LOOCP;
PUT SKIP(2) DATA(COUNT_IN,COUNT_CHANGE);
END FIXCTS;

```

```

/** FIX COMM. NEDS, FIX POINT I.D. WITH '00', CHANGE TO 'ZZ'.
/**
//STEP1 EXEC GCBEZT1
//FILE DD DSN=88NEDS,DISP=(NEW,PASS),UNIT=SYSDA,
// SPACE=(CYL,(20,10),RLSE),
// DCB=(RECFM=FL,LRECL=80,BLKSIZE=8000)
//*EVS DD DSN=GC.FTEISPT.NEDS.0T80,DISP=SHR
FILE NEDS
POINTT 14 2 A CD*NO 80 1 A
KARD 1 80 A
0999
*
IF CD*NO EQ 1
  SUCCESS
IF POINTT EQ 00 THEN
  POINTT = ZZ
  PRINT KARD
IF FILE EQ FILE
WRITE

```


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15. SUPPLEMENTARY NOTES

EPA Project Officers: James H. Southerland and Thomas F. Lahre

16. ABSTRACT

This report discusses the development of the Northeast Corridor Regional Modeling Project (NECRMP) annual regional emission inventory. The inventory reflects 1979/1980 data and focuses on point, area and mobile source emissions of Volatile Organic Compounds (VOC) and Nitrogen Oxides (NO_x), although particulate, sulfur oxides and carbon monoxide emissions were also compiled for point sources. The study area includes the entire northeast quadrant of the United States from longitude 69° to 82° West, and latitude 38° to 45° North. This Volume discusses the annual inventory for Connecticut.

7. KEY WORDS AND DOCUMENT ANALYSIS		
a. DESCRIPTORS	b. IDENTIFIERS/OPEN ENDED TERMS	c. COSATI Field/Group
Emission Inventory Inventory Source Inventory Point Sources Area Sources Ozone Nitrogen Oxides Volatile Organic Compounds		
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