



# THE CHIEF

## NEWSLETTER

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EMMISSION INVENTORY BRANCH  
TECHNICAL SUPPORT DIVISION (MD 14)  
OFFICE OF AIR QUALITY PLANNING AND STANDARDS  
U. S. ENVIRONMENTAL PROTECTION AGENCY, RESEARCH TRIANGLE PARK, NC 27711

Vol. III, No. 2

Whitmel M. Joyner, Editor

January 1992

### SECOND ANNUAL EPA/AWMA CONFERENCE ON EMISSION INVENTORIES BEING PLANNED

After the highly successful first emission inventory conference last September (see the October Newsletter), EPA and the Air And Waste Management Association are planning a repeat effort. J. David Mobley, Chief of the Emission Inventory Branch (EIB), will be general conference chair. The meeting, scheduled for October 19 through 22, 1992 will examine emission estimation tools, current research and

issues, and possible problem areas for future inventories. On the 19th, there will be a one-day training course on inventory and estimation fundamentals, and actual conference proceedings will begin the 20th.

The call for papers has been issued, and everyone interested in speaking at the conference should contact EPA's Larry Jones or John O'Connor of Radian (see below under "Upcoming Meetings And

Conferences"). Session topics and other details are still being configured. As soon as possible, the latest information on the specialty conference will be made available through the CHIEF bulletin board, this Newsletter and the *AWMA Journal*. Watch for it. (Elsewhere in this Newsletter, you can find out how to get on the bulletin board.)

### FULL REVISION OF AP-42'S STATIONARY SOURCE VOLUME IS WELL UNDER WAY

The Emission Factor And Methodologies Section has undertaken a complete update of the stationary source volume of AP-42 this fiscal year. Much of the material in our recent *Supplement D*, announced in the last Newsletter, was the result of the initial six-month review and revision of AP-42 as mandated by the Clean Air Act Amendments. But we're not stopping there. Over the next several months, our efforts will encompass the review and revision of the entire stationary source volume. The work will also add to AP-42 any sufficiently representative emission factors we can develop for air toxics, greenhouse gases, or stratospheric ozone depleters, as well as new information for the six criteria

pollutants.

Source test programs will be planned, to resolve any data deficiencies we can identify.

Here's the approximate schedule we are planning to follow:

Data gathering: Through February 1992.

Data evaluation: Through March '92.

Revisions and documentation drafts: Through mid-May '92.

Internal reviews: April - June '92.

External reviews and placement of drafts on CHIEF: May and June '92.

Acceptance and resolution of comments: July - September '92.

Publication of *Supplement E* of AP-42: November '92.

Resolution of more complicated issues and completion: May '93.

Completion of this phase: November '93.

As you can see, there will likely be a *Supplement F* before we are fully through with the "wholesale" revision. After that publication, we expect to be folding all the pieces of AP-42 into a new edition. The ingredients of this Fifth Edition will still look familiar in format and content, but the increasing amounts of both new and revised material may lead to the chapters' being published as separate reports. In this form, users not interested in the entire AP-42 will be able to get copies of only the parts they need.

Work assignments for various chapters in AP-42 have been assigned

to several contractors. Each contractor has to 1) gather all available existing data, 2) review these data, 3) propose revised factors and any other section improvements, 4) distribute the revised proposals to external reviewers, 5) incorporate any comments, and 6) prepare final AP-42 sections and background documentation. In addition, each contractor will propose a source testing strategy for future years. **We would appreciate hearing from our readers - state and local agencies, industry, consultants and others - about all aspects of this process. We want your comments or critiques of existing sections, but more importantly, you can also provide test data, volunteer to be a reviewer,**

**volunteer your plant for testing, or assist in other ways you think would be useful.** We will base operations on priority and perceived need on our part.

Other significant activities overlaid on this operation make it even more complicated. For example, we are including several improvements in the consistency of AP-42. These relate to VOC reporting consistency, PM-10 data, and general information on toxics, CO<sub>2</sub> emissions, methane, etc. We plan also to add Source Classification Codes into the tables and to make other changes to facilitate the computerized version on the *Air CHIEF* compact disk. We also have active cooperative test programs going with the petroleum, wood products,

crushed aggregate, and asphalt batching industries, and others.

We also plan to update the *Air CHIEF* CD-ROM annually each March, to include the most recent new and updated emission factor material we have, for AP-42 as well as for the other data bases on the compact disk.

Please give us a hand with all of this work. If you have data, would like to be a reviewer, or help in any other way, get in touch with us. You may send data and other information, in writing please, to the person in EFMS who is responsible for the specific chapter in AP-42. If you send test data or literature citations, please include sufficient information for it to be evaluated. For example, test data should specify methods, process data taken at the same time, etc. ♪

## HAPPY NEW YEAR FROM THE CLEARINGHOUSE!

As we roll into CY 1992 (The Year Of The Emission Inventory!), let's have a quick review of some important things that transpired in the Emission Inventory Branch in ole '91. The Newsletter press run moved past 4000 copies, the CHIEF bulletin board began, AP-42 *Supplement D* was printed, and several emission factor and inventory guidance documents were published. And as detailed below, EIB has used modern electronic prestidigitation to put many thousands of pages of guidance material onto one

neat 12 cm plastic disk, the *Air CHIEF* CD-ROM. All these documents are on the CHIEF Bulletin Board, too. Also, we began testing a considerable number of source types, such as wood products and crushed stone, to get data for developing new emissions factors, especially for priority data gaps in the AP-42 series. This testing will continue for some time, and we expect it to bear fruit in 1992 in one of our largest projects, the complete review and revision we've

begun of the AP-42 stationary source volume.

We are always interested in the needs of our readers and in your views on the work we do here at the Emission Inventory Branch. Write, E-mail or call us with your questions, suggestions and opinions, and share what you know with the emission factor and inventory community by submitting articles to this Newsletter. The deadline for the next issue is 1 March. Thanks for all your help in the past. ♪

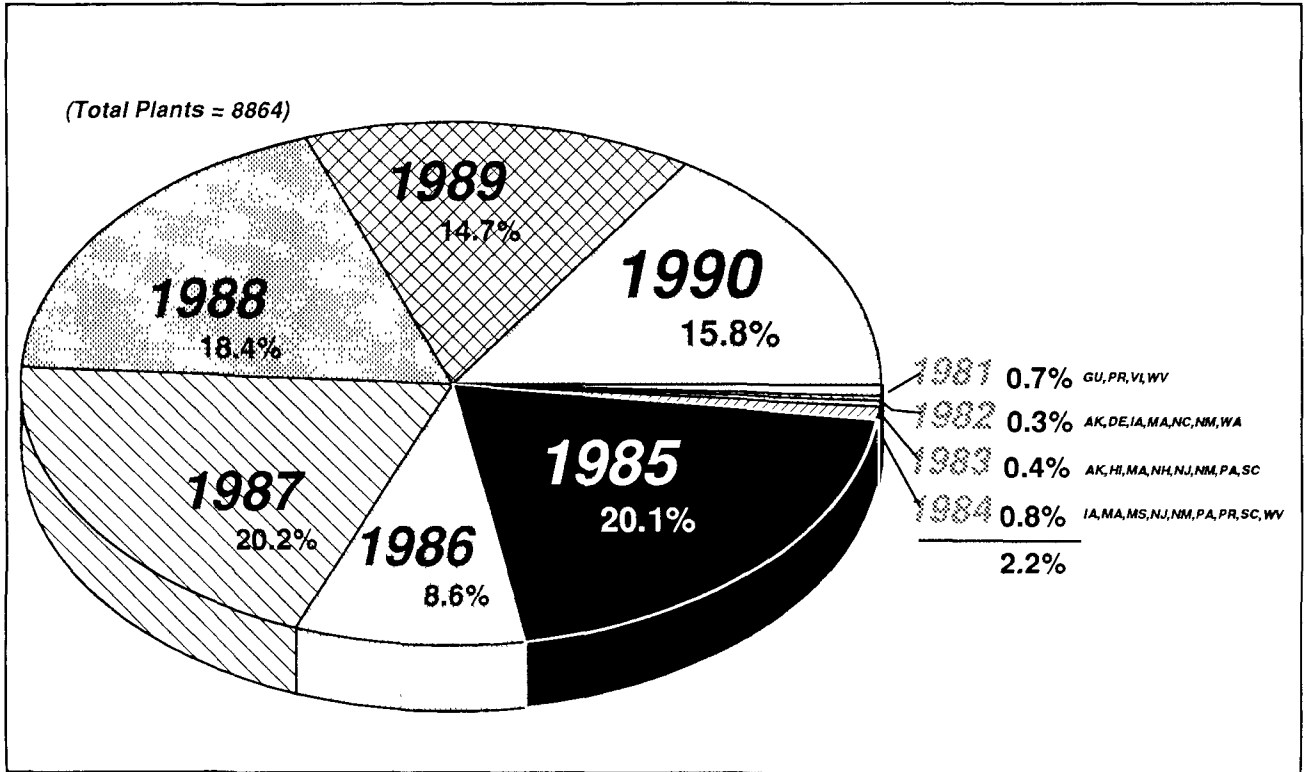
— Dennis Shipman  
Clearinghouse Coordinator

# 1992 IS THE YEAR OF THE EMISSIONS INVENTORY!

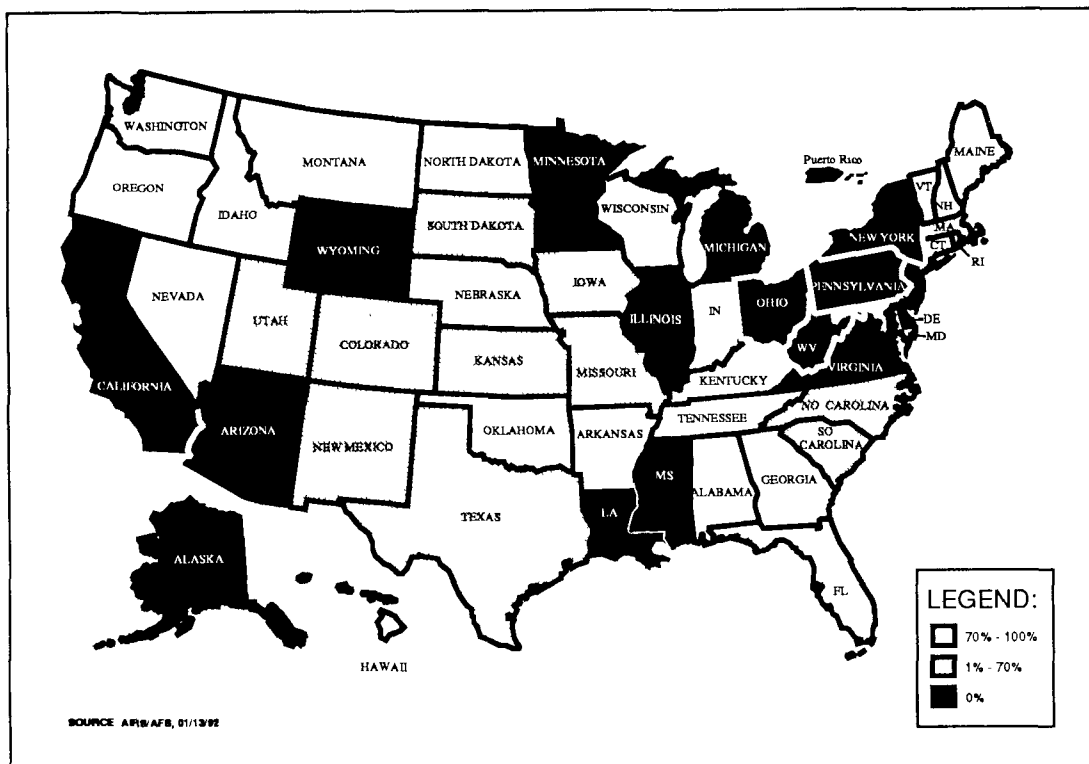
EMISSION INVENTORIES FOR O<sub>3</sub>/CO NONATTAINMENT AREAS  
ARE DUE TO EPA 11/15/92

# YEAR OF RECORD DISTRIBUTION FOR AIRS FACILITY SUBSYSTEM PLANTS EMITTING 100 TONS OR MORE PER YEAR

AS OF 12/31/91:



## PERCENT OF AFS PLANTS WITH DATA FOR ANY POLLUTANT FOR 1988, 1989 OR 1990



— THE PEOPLE TO SEE AT EIB —

— AP-42 MATTERS —

<u>Chapter</u>	<u>Contact</u>	<u>Phone</u> <u>{(919) 541- or FTS 629-}</u>
1. External Combustion	Joe McSorley	4796
2. Solid Waste Disposal	Ron Myers	5407
3. Internal Combustion	Michael Hamlin	5232
4. Evaporation Loss Sources	Ron Ryan	4330
5. Chemical Process Industry		
Organics	Dennis Beauregard	5512
Inorganics	Ron Myers	5407
6. Food and Agricultural Industry	Dallas Safriet	5371
7. Metallurgical Industry	Dennis Shipman	5477
8. Mineral Products Industry	Ron Myers	5407
9. Petroleum Industry	Ron Ryan	4330
10. Wood Products Industry	Dallas Safriet	5371
11. Miscellaneous Sources	Dennis Shipman	5477
Toxics	Anne Pope	5373
General	Jim Southerland	5523

— EMISSION INVENTORY ASPECTS —

1990 O <sub>3</sub> /CO SIP Inventory Status	Lee Gabele	5292
AIRS/AFS Emissions Data Quarterly Report	Lee Gabele	5292
AIRS Area and Mobile Subsystem (AMS)	Lee Gabele	5292
AIRS Facility Subsystem (AFS)	David Misenheimer	5473
Biogenic Inventories	Keith Baugues	5366
Emission Statements	Mary Ann Warner-Selph	1192
Geographic Information Systems Applications (GIS)	Mary Ann Stewart	4340
Mobile Sources	Mary Ann Warner-Selph	1192
Modeling-related Inventories	Keith Baugues	5366
PM-10/Lead	Bill Kuykendal	5372
Quality Assurance	Sharon Bruno	2825
Tracking Reasonable Further Progress	Mary Ann Warner-Selph	1192
SIP Air Management System (SAMS)	David Misenheimer	5473
Toxics Inventories	Anne Pope	5373
Emission Trends	Mary Ann Stewart	4340
Other	Marty Martinez	5575

— FOR REGION-SPECIFIC INVENTORY CONCERNS —

Region I — Mary Ann Warner-Selph	Region VI — Marty Martinez
Region II — Lee Gabele	Region VII — Mary Ann Stewart
Region III — Steve Bromberg	Regions VIII
Region IV — Bill Kuykendal	& IX — David Misenheimer
Region V — Keith Baugues	Region X — Sharon Bruno

**UPCOMING MEETINGS AND CONFERENCES**

— Optical Remote Sensing And Applications To Environmental And Industrial Safety Programs, AWMA specialty conference, 5-8 April, Houston, TX Contact Debbie Reichert, AWMA, Box 2861, Pittsburgh, PA 15230, phone (412) 232-3444/FAX (412) 232-3450.

— Measurement Of Toxic And Related Air Pollutants, EPA/AWMA international symposium, 4-8 May, Durham, NC. Contact Debbie Reichert, AWMA, Box 2861, Pittsburgh, PA 15230, phone (412) 232-3444/FAX (412) 232-3450.

— Shaping Our Environmental Heritage, 85th annual AWMA convention, 21-26 June, Kansas City, MO Contact Debbie Reichert, AWMA, Box 2861, Pittsburgh, PA 15230, phone (412) 232-3444/FAX (412) 232-3450.

— Emission Inventory Issues And Progress, second annual EPA/AWMA specialty conference, 19-22 October, Durham, NC Contact Larry Jones, Emissions Modeling Branch (MD 62), EPA/AEERL, Research Triangle, NC 27711, (919) 541-7716/FTS 629-7716; or John O'Connor, Radian Corp., Box 13000, Research Triangle Park, NC 27709, phone (919) 541-9100.

## THE LOCATING AND ESTIMATING . . . SERIES ON TOXIC SUBSTANCES

### Styrene Report Available —

EIB has recently produced another report in its well-known "L&E" series on toxic air pollutants, *Locating And Estimating Air Emissions From Sources Of Styrene: Interim Report*, EPA-450/4-91-029. This report, the 24th in the series, is to assist in locating possible sources of air toxics and then making preliminary estimates of the emissions produced by these sources.

The Styrene report describes processes, variations and release points within these sources, along with available emissions data and emission factor estimates that indicate the potential for the release of air toxic compounds from styrene operations. Overviews are also provided of procedures for source sampling and analysis of emissions from these sources. The report is being released as an interim document, pending

incorporation of further expected test data. OAQPS's Emission Measurement Branch, on behalf of EIB, is currently testing several unsaturated polyester resin fabricators of cultured marble bathroom fixtures, and when the results are available, a final report, with these data, will be published.

Single copies of the report are available from EPA Library at MD-35, Research Triangle Park, NC, 27711 or by calling (919) 541-2777 or (FTS) 629-2777. The report is also available from the National Technical Information Service (NTIS) for a fee, NTIS stock no. PB92-126788.

A list of all the air toxic emission reports in this series is included in our brochure, "Tools For Estimating Air Emissions Of Criteria And Toxic Pollutants". For further information on the Styrene report, or for copies of the Tools brochure, contact Anne Pope

at the Newsletter, commercial phone (919) 541-5373/FTS 629-5373.

### Work In Progress —

Work assignments have been issued to contractors to develop L&Es on 11 toxic substances and compounds. Anyone interested in, or having information on, these subjects should contact the pertinent EIB Work Assignment Manager whose name follows the listed topics.

Methyl Chloroform, Methyl Ethyl Ketone, Toluene and Xylene - Dennis Beauregard, commercial phone (919) 541-5512/FTS 629-5512;

Mercury compounds, Cadmium compounds, Cyanide compounds and Chloroform - Anne Pope, commercial phone (919) 541-5373/FTS 629-5373;

Benzene, Methylene Chloride and Methyl Ethyl Ketone - Dallas Safriet, commercial phone (919) 541-5371/FTS 629-5371. ✉

## DO YOUR DATA BITE?

### {FACTS ABOUT AP-42 DATA QUALITY REQUIREMENTS }

How can you tell if your source test data would be helpful in AP-42 section development? Of course, it would be great if every emission factor in AP-42 had our highest quality rating, an "A". If we discarded all information that is less than perfect, we wouldn't need the A through E quality rating system, but AP-42 would then be a much smaller book.

All data must pass common sense and reasonableness tests. Beyond that, here's what we scrutinize when deciding what to use in an A rated AP-42 section:

1) We must have full documentation of the process tested, the control

devices and their condition, the equipment used to perform the test, and load/operating rates;

2) The test methods must be established and approved;

3) A formal quality assurance program must have been in effect and evidence provided on how it was successfully followed; and

4) Information must be provided on how representative the given source is of the population.

The factor rating system we use is discussed in more detail in the introductory pages of AP-42 and in EIB's procedures guidance document on how to develop AP-42 sections. The standards that tests must meet to gain

an "A" rating are tough. For many source categories, there may be few available data of such quality, or none, yet AP-42 users still need the information. In these cases, the above criteria become a "low hurdle". Less formalized and stringently documented data may still be found useful for approximations, and the quality ratings then assigned will be commensurate with the quality of the input information. We still need to hear from anyone having possibly useable emissions data. If you have questions on specific data criteria, please contact someone on the EFMS staff here at the Newsletter. ✉

## NEW INVENTORY GUIDANCE

EIB's Inventory Guidance And Evaluation Section and the National Air Data Branch announce the publication of the *National Air Pollutant Emission Estimates, 1940 - 1990*, EPA-450/4-91-026, November 1991. This year's report contains

several useful innovations. Because of a new method for making early estimates, the report is appearing considerably ahead of schedule. Also, it now features emission projections to the years 2000 and 2010 for SO<sub>x</sub>, NO<sub>x</sub>, NMOCs and CO. Trends are

shown by EPA Region, disaggregated from national values. And the report now conveys fugitive PM-10 information from agricultural tilling, construction activity, mining and quarrying, paved and unpaved roads, and wind erosion. Beginning with this

volume, EIB takes up the responsibility for producing these annual publications. For more information, contact Mary Ann Stewart at the Newsletter, commercial phone (919) 541-4340/FTS 629-4340.

Also now available is *Atmospheric Monitoring Site Selection - Procedures Development Project Plan*, which describes the techniques to be investigated in developing more efficient use of

emissions data when choosing locations for ambient air monitors. Using emissions data in conjunction with existing ambient air information should enhance our ability to select sites that will properly reflect exposure changes both for humans and for ecosystems. It follows that these better sites should then demonstrate the effects of the emission reductions which have been required by the Clean Air Act Amendments.

The product of this effort will be a set of procedures involving use of emissions data, air concentration data, and computer visualization techniques to assist in locating/relocating ambient air monitoring sites. For more information on this effort, contact Steve Bromberg at the Newsletter, commercial phone (919) 541-1000/FTS 629-1000. ✉

## CHIEF BULLETIN BOARD

After 50 weeks of operation (through December 1991), the CHIEF BB has become a familiar source of information and communication for many of our readers. CHIEF now has 411 registered users, and incidence of access has been as high as 250 per week. We like to see these numbers climb, since it's part of our job to provide you with this information

Remember all of the good things you can access and download from CHIEF - All of the AP-42 stationary source volumes, the updated versions of SPECIATE and XATEF, MOBILE4.1, the Surface Impoundment Modeling System (SIMS), previous numbers of this

Newsletter, the AIRS Facility Subsystem Emission Factors (AFSEF), E-mail, and others.

Planned for the BB soon are all of the parts of AP-42 now undergoing revision. Draft AP-42 sections will be available to you as soon as they have undergone internal review. We encourage you to download these drafts for perusal and then to let us have any comments or reactions you have to them. Keep in mind that they are still drafts at this stage of things and could be substantially changed before being finally published.

Tell us what you think about the BB — suggestions, comments, advice, likes and dislikes, or anything else that

would help us make it more useful to you. E-mail your comments to EFMS through the CHIEF at (919) 541-5742 (300, 1200 or 2400 baud)/541-1447 (9600 baud).

To register, you must give information to the system through a series of steps. The system operator (Sysop) then reviews the information to safeguard against unauthorized users. Upon Sysop approval, usually the next working day, full access to the system is allowed. For further information, contact Michael Hamlin at EIB, commercial phone (919) 541-5232/FTS 629-5232. ✉

## EIB RELEASES AIR CHIEF CD-ROM

EIB's newest emission estimating product, the *Air CHIEF* Compact Disk-Read Only Memory (CD-ROM), is now available after months of preparation. The *Air CHIEF* offers on one small disk the literally thousands of paper pages contained in some of EPA's most widely used and asked for documents. *Air CHIEF* contains:

- the entire contents of the AP-42 series,
- all of the *Locating And Estimating...* reports,
- the VOC/PM Speciation data base management system, SPECIATE, and
- the Crosswalk/Air Toxic Emission Factor data base system, XATEF.

*Air CHIEF* is a powerful data retrieval tool. It's designed to allow

easy access and retrieval of emission estimation data, by pollutant or source description, and it can be scanned and searched in fine detail. Information searches can be very broad or tightly focused. For example, coal combustion is mentioned in about 2000 "records", or places, on the disk. Asking specifically for arsenic from bituminous coal combustion in utility boilers will lead the user to 8 records. Also, all chemical elements and compounds mentioned on the CD that have Chemical Abstract Services numbers can be scanned and searched.

*Air CHIEF* and its user's manual will be updated annually, beginning in Spring 1992. Single copies of the CD

can be obtained by writing Anne Pope at the Newsletter. Shortly after the Spring '92 revision, *Air CHIEF* will be available through the Government Printing Office (GPO). GPO expects to vend the disk for about \$13.00, a noticeable economy over buying paper copies of it all (~\$900.00).

Users need an IBM<sup>™</sup> compatible personal computer with EGA or VGA monitor, MS-DOS<sup>™</sup> version 3.0 or later, 640 KB of free RAM, 2 MB expanded memory, a CD-ROM drive, interface card, and Microsoft DOS CD-ROM Extensions (MSCDEX). Users can help by sending any comments or suggestions regarding *Air CHIEF* to Anne, here at the Newsletter. ✉

## NEW VERSIONS OF XATEF AND SPECIATE

Version 1.4 of SPECIATE, the VOC/PM Speciation data base management system, and Version 1.2 of XATEF, the Crosswalk/Air Toxic Emission Factor data base management system, are both now available. These systems are for use on an IBM<sup>(TM)</sup> compatible personal computer. Each system is distributed on one 5.25" high density disk, and both may be downloaded from the CHIEF Bulletin Board.

SPECIATE contains 700 species profiles, for both volatile organic compounds (VOC) and particulate matter (PM). By applying the species profiles to either total VOC or PM emission estimates, then either the weight percentage of specific VOCs or the elemental composition of PM can be estimated for the source categories covered in the manual. SPECIATE presents data by compound and by source category, and the data base is updated annually. The *Volatile Organic Compound (VOC)/Particulate Matter (PM) Speciation Data System User's Manual, Version 1.4*, EPA-450/4-91-027, accompanies the disk and explains the uses and limitations

of the data and the use of the data management software.

SPECIATE users will need an IBM<sup>(TM)</sup> compatible personal computer with MS-DOS<sup>(TM)</sup> version 3.0 or later, 640 KB free RAM, a fixed disk with at least 8 MB of storage, and a high density 5.25" second disk drive.

XATEF contains toxic air pollutant/source crosswalk data and air toxic emission factors. The crosswalk data identify the types of compounds that may be emitted from a source category. Crosswalk indicates the possible pollutant/source associations, based on literature information, existing inventories and other available data. The crosswalk data in XATEF include pollutant names, CAS numbers, Standard Industrial Classification (SIC) codes, and emitting Source Classification Codes (SCC). XATEF also contains 7600 emission factor citations for over 300 compounds and more than 500 source categories. The data base is updated annually. The *Crosswalk/Air Toxic Emission Factor Data Base Management System User's Manual, Version 1.2*, EPA-450/4-91-028, accompanies each disk and explains the

uses and limitations of the data and the use of the data management software.

XATEF users will need an IBM<sup>(TM)</sup> compatible personal computer with MS-DOS<sup>(TM)</sup> version 3.0 or later, 640 KB free RAM, a fixed disk with at least 20 MB of available storage, and a high density 5.25" extra disk drive.

Both of these systems are designed for easy access and retrieval of emission estimation data, by pollutant or source description. The purpose of XATEF and SPECIATE is to assist air pollution control agencies and others who are interested in locating potential sources of air toxics and in making preliminary estimates of the emissions from these sources.

XATEF and SPECIATE are available to government agencies and by contacting Anne Pope at the Newsletter. Both systems can also be downloaded from the CHIEF Bulletin Board. SPECIATE and XATEF soon will be available through the National Technical Information Service (NTIS) for a fee. No NTIS stock numbers have yet been assigned to them.

For further information, contact Anne Pope at the Newsletter. ☛

## DIRECT ASSISTANCE TO STATES IN PREPARING 1990 O<sub>3</sub>/CO INVENTORIES

EIB has issued a Work Assignment to provide direct assistance to state and local agencies as they prepare their 1990 O<sub>3</sub>/CO inventories. This effort will make assistance available in the use of EPA software, emission inventory techniques, emission factor selection, and general problem solving, and it

can be in the form of telephone contact or direct onsite assistance. The EPA Regional Offices are coordinating this support for each of their States. The CHIEF Bulletin Board will be used to share information of general interest that may be useful, and all state and local agencies are encouraged to check CHIEF regularly for the latest

information on preparing 1990 inventories for ozone and carbon monoxide. For more details on contractor assistance with the inventories, contact Sharon Bruno here, commercial phone (919) 541-2825/FTS 629-2825; or Bill Kuykendal, (919) 541-5372/FTS 629-5372. ☛

## OMS NONROAD EMISSION INVENTORY REPORT IS PUBLISHED

The EPA Office of Mobile Sources (OMS) has released its November 1991 *Nonroad Engine And Vehicle Emission Study - Report*, which gives emission inventories for 24 geographic areas in the country, with discussion of how the inventories

were derived. These inventories showed much larger contributions from nonroad sources than expected, and OMS is working on new proposed regulations for some of these sources. The 24 areas are:

Atlanta, GA MSA

Baltimore, MD MSA

Baton Rouge, LA MSA

Boston-Lawrence-Salem-Lowell-  
Brockton, MA NECMA

Chicago-Gary-Lake County IL-IN-  
WI CMSA

Cleveland-Akron-Lorain, OH  
CMSA  
Denver-Boulder, CO CMSA  
El Paso, TX MSA  
Hartford-New Britain-Middletown-  
Bristol, CT NECMA  
Houston-Galveston-Brazoria, TX  
CMSA  
Miami-Fort Lauderdale, FL  
CMSA  
Milwaukee-Racine, WI CMSA  
Minneapolis-St. Paul, MN-WI  
MSA  
New York-Northern NJ-Long  
Island, NY-NJ-CT  
CMSA/NECMA  
Philadelphia-Wilmington-Trenton,  
PA-NJ-DE-MD CMSA  
Provo-Orem, UT MSA

St. Louis, MO-IL MSA  
San Diego, CA Air Basin  
San Joaquin, CA Air Basin  
Seattle-Tacoma, WA CMSA  
South Coast, CA Air Basin  
Spokane, WA MSA  
Springfield, MA NECMA  
Washington, DC-MD-VA MSA

The inventories for these 24 areas will be slightly revised by OMS, to exclude the portions which are in attainment of ozone and carbon monoxide standards (as listed in the November 6, 1991 Federal Register notice titled "Designation Of Areas For Air Quality Planning Purposes"). The New York area will probably be the first area examined.

OMS also is developing specific nonroad inventories for all serious and above ozone (0.160 ppm and greater), and for all moderate-2 and above CO (12.8 ppm and above) nonattainment areas. These new inventories can be incorporated into the areas' 1990 inventories with little effort. General guidance will also be developed on how to compile nonroad inventories for other areas. For further information on these matters, contact Greg Janssen at OMS, commercial phone (313) 668-4285/FTS 374-8285. To obtain the report, contact Kevin Green, commercial phone (313) 668-4510/FTS 374-8510. ♪

### ⌘ TECH NOTES . . . . .

⌘ — **Surface Coal Mining** - Section 234 of the 1990 CAAA requires that emission factors and models applicable to surface coal mining activities be reviewed and revised, to assure that they don't overpredict emissions. EIB, with the Source Receptor Analysis Branch, is planning a multiyear program to meet the CAAA provision, and we will begin source testing this Summer of high priority surface coal mining operations. For more information, contact Dennis Shipman at the Newsletter, commercial phone (919) 541-5477/FTS 629-5477.

⌘ — **Optical Remote Sensing And Measurement** - An AWMA specialty conference will be held in Houston 5-8 April on the regulatory requirements and proper specifications for using this technology in pollution control programs. Regulatory program managers, plant operators and others can meet with legislative staffs to discuss one another's needs and abilities. A one-day course will be given on "The Basics Of Remote Sensing Of Atmospheric Pollutants". The Texas Air Control Board and Chemical Manufacturers Association are cosponsors. For more information, see "Upcoming Meetings..."

⌘ — **O<sub>3</sub>/CO Inventory Preparation Plan (IPP) Status** - The Regions have received draft versions of all 43 IPPs due to them by 1 July 91, but only 19 have been submitted as final. Of the 19, only 3 have been approved (AL, FL & GA). EIB will be working with the Regions and discussing their strategies for dealing with the problems. Timely submission of the IPPs is critical to the review process, since final emission inventories are due by mid-November. For more information, contact Lee Gabele at the Newsletter, commercial phone (919) 541-5292/FTS 629-5292. ♪

*The CHIEF Newsletter is produced quarterly by the Emission Inventory Branch, Technical Support Division, of EPA's Office Of Air Quality Planning And Standards. Its purpose is to enhance communication within the emission factor and inventory community by providing new and useful information and by allowing for the exchange of information between and among its readers. Comments on the Newsletter and articles for inclusion in it are welcome and should be directed to Whitmel M. Joyner, Editor, Emission Inventory Branch (MD 14), US EPA, Research Triangle Park, NC 27711; commercial phone (919) 541-5493/FTS 629-5493.*

*The contents of The CHIEF Newsletter do not necessarily reflect the views and policies of the Agency, neither does the mention of trade names or commercial products constitute endorsement or recommendation for use. ♪*



**REGIONAL OFFICE AND HEADQUARTERS  
PM-10 AND O<sub>3</sub> / CO SIP INVENTORY CONTACTS**

*January 1992*

<i>— PM-10 —</i>	<i>Contact</i>	<i>Commercial Telephone</i>
Region		
I	Bryan Hennessey	(617) 565-3223
II	Stan Stephenson	(212) 264-4926
III	Tom Casey	(215) 597-2746
IV	Leslie Cox	(404) 347-2864
V	John Summerhays	(312) 886-6067
VI	John Behnam	(214) 655-7214
VII	Lisa Haugen	(913) 551-7877
VIII	Mike Silverstein	(303) 293-1754
IX	Barbara Bates	(415) 744-1239
X	George Lauderdale	(206) 553-6511
OAQPS/EIB Clearinghouse		
Factors	Dennis Shipman	(919) 541-5477
Inventory Guidance	Bill Kuykendal	(919) 541-5372
OAQPS/AQMD	Robin Dunkins	(919) 541-5335
OAQPS/SSCD	Chris Oh	(703) 308-8732
 <i>— O<sub>3</sub> / CO —</i>		
Region		
I	Robert Judge	(617) 565-3248
II	Stan Stephenson	(212) 264-4926
III	Raymond Forde	(215) 597-8239
IV	Yasmin Yorker	(404) 347-2864
V	Ed Doty	(312) 886-6057
VI	Quang Nguyen	(214) 655-7214
VII	Larry Hacker	(913) 551-7602
VIII	Jeff Houk	(303) 293-1766
IX	Scott Bohning	(415) 744-1237
X	Mike Lidgard	(206) 553-4233
OAQPS/EIB Clearinghouse		
Factors	Dennis Shipman	(919) 541-5477
Inventory Guidance	David Misenheimer	(919) 541-5473
OAQPS/AQMD	Jill Vitas	(919) 541-5313
OAQPS/SSCD	Vishnu Katari	(703) 308-8717
Office Of Mobile Sources	Mark Wolcott	(313) 668-4219

**REGIONAL OFFICE AND HEADQUARTERS  
AIR TOXICS AND LEAD INVENTORY CONTACTS**

*January 1992*

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— **EIB'S SUPER TEES!** —

**The Baddest Around,  
Exhorting The 1992 Call To Arms**

At the EPA/AWMA Emission Inventory Specialty Conference last September, keynote speaker John Seitz, Director of the Office Of Air Quality Planning And Standards, made specific mention of the tee shirts being sported by members of the Emission Inventory Branch. EIB's slogan, **1992 - EPA Year Of The Emission Inventory**, is emblazoned in white on the navy blue shirts, to denote the enhanced priority and focus on the emission inventory program this year.

There have been inquiries about the great EIB tee shirt, and people are talking, so here it is!



It goes equally well in a paper mill or an art gallery! For further information, contact the Newsletter. 📧

**THE EMISSION INVENTORY BRANCH**

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**UNITED STATES  
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EMISSION INVENTORY BRANCH (MD-14)  
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