EPA-454/B-94-008

AIRS User's Guide

Volume AQ4:

Air Quality Data Retrieval

U. S. Environmental Protection Agency
Office of Air Quality Planning and Standards
Technical Support Division
National Air Data Branch
Research Triangle Park, North Carolina 27711

February 1994

US EPA Headquarters Library
401 M St., SW (3404)
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1.0 Introduction

This manual explains how to use the Air Quality Subsystem (AQS) of AIRS, the Aerometric Information Retrieval System, for retrieval of air quality data. AIRS is a computer-based system for handling the storage and retrieval of information pertaining to airborne pollutants. It is administered by the U. S. Environmental Protection Agency, Office of Air Quality Planning and Standards, Technical Support Division, National Air Data Branch, located in Research Triangle Park, North Carolina. AIRS is installed on the IBM computer system at EPA's National Computer Center in Research Triangle Park, North Carolina. AIRS employs the ADABAS database management system to manage its data files and the CICS teleprocessing monitor to provide the interface between users and programs.

AQS data retrieval produces standard reports and files containing data extracted from the AIRS database according to user specifications. The reports include descriptions of air monitoring stations, their measurements of airborne pollutant concentrations or related parameters ("raw data"), and summary information derived from the reported measurements. This manual is for anyone who wants to generate an Air Quality Subsystem standard report. It gives step-by-step instructions for carrying out each of the necessary tasks.

The rest of this manual is organized for easy reference to the required information. Section 2 summarizes the concepts of the AQS data retrieval that form the basis for its operational procedures, outlines a typical sequence of data retrieval processes, and explains administrative and operational procedures. Sections 3, 4, 5, and 6 describe the standard reports and present detailed instructions for generating them.

Although this manual presents complete operating instructions for the AQ Data Retrieval Subsystem, information in other volumes of the AIRS User's Guide is also necessary. Volume GC2, which lists and explains AIRS codes, is a very important source of information. The AIRS codes are used to specify selection criteria for the reports and they also appear in the generated reports and files. Another source of AIRS information is the data dictionary in Volume AQ1. It describes the files, records, and fields of the AIRS database and the files generated by the Air Quality Retrieval Subsystem. A list of people to contact for information or assistance with AIRS is given in Volume AA1. Information about computer center procedures can be found in the "NCC-IBM User's Guide", and manuals about specific software products such as ADABAS and NATURAL are available from the vendors of the software.

2.0 AQ Data Retrieval Overview

2.1 AIRS Subsystems

AIRS has four main subsystems that correspond to the four general types of data in the AIRS database:

Geographic, Common, and Maintenance (Geo-Common) Subsystem

Facility Subsystem

Area and Mobile Source Subsystem

Air Quality Subsystem

Figure 2-1 illustrates the relationships among the AIRS subsystems and identifies the relevant volumes of the User's Guide.

The Geo-Common Subsystem consists mostly of reference data used by the other two subsystems, such as FIPS state codes and state names. It is maintained by the AIRS database administrator. Users can generate reports of Geo-Common data but cannot alter the data.

The Facility and Air Quality Subsystems deal with air pollution data submitted by the responsible state and regional organizations to the National Air Data Branch. Facility data pertain to the emissions of pollutants by point (stationary) and area (mobile or nonspecific) sources. The data include information about the emitting site, such as location and type, and the estimated or measured annual emissions of criteria pollutants.

The Area and Mobile Source Subsystem contains emissions inventories. These emissions inventories are from small stationary and mobile sources, forest fires, fugitive transport, and natural sources.

The Air Quality Subsystem deals with the measurement of ambient air pollution by thousands of monitoring stations in the United States and its possessions and trust territories. The Air Quality data include descriptions of air monitoring sites and monitoring equipment, measured concentrations of air pollutants and related parameters, and calculated summary and statistical information.

The Air Quality Subsystem is further subdivided into two subsystems based on function: storing and retrieving data. Air Quality data is retrieved as a batch or on-line standard report. This volume tells how to use AIRS to retrieve data.

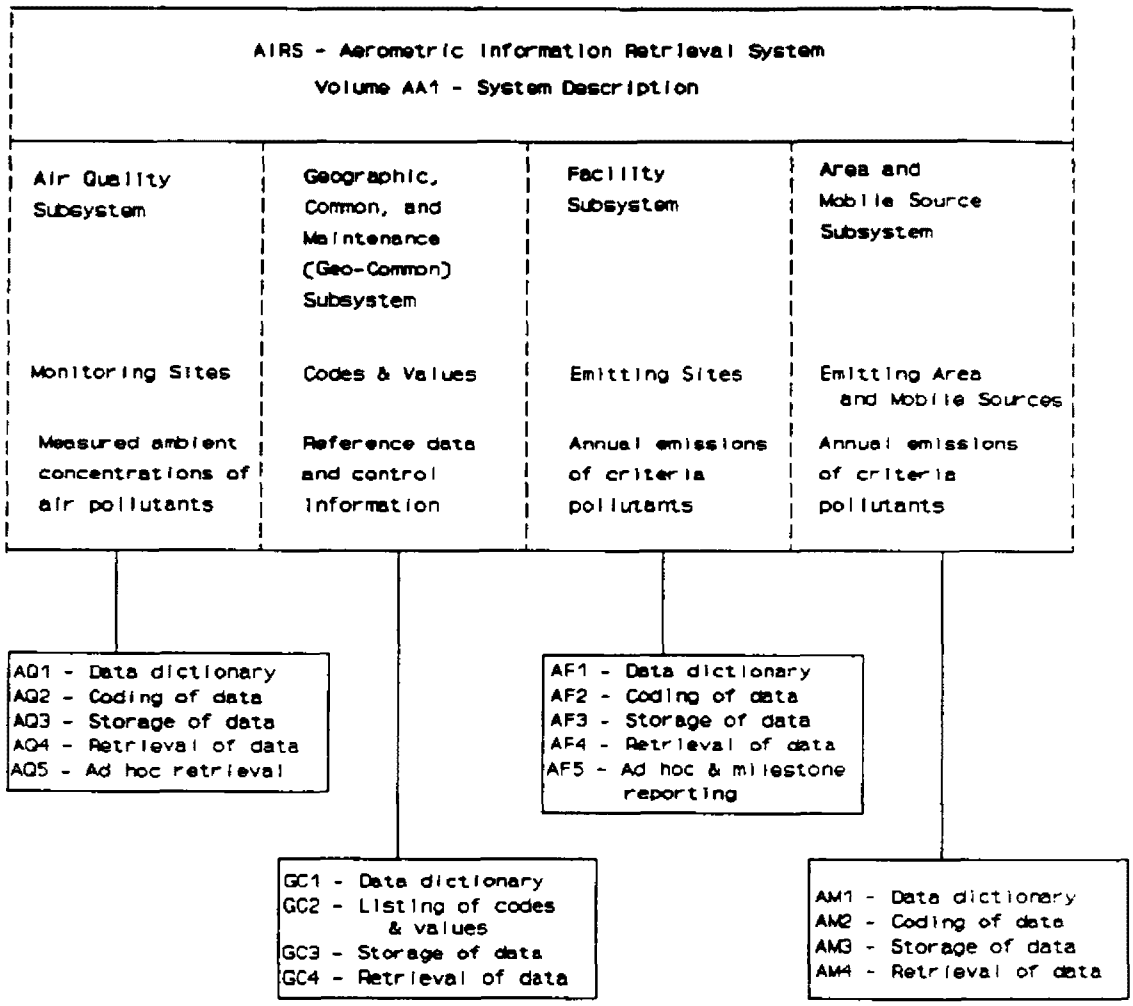

Figure 2-1. The Primary AIRS Subsystems and Relevant User's Guide Volumes

2.2 The AQS Data Retrieval Subsystem

The AQS Retrieval Subsystem provides the basic reporting capability of the AIRS Air Quality Subsystem. It consists of a set of batch and on-line "standard" reports that have fixed formats and limited options. Despite those constraints, the standard reports can satisfy most requirements for retrieval of air quality data. Furthermore, neither programming skills nor detailed knowledge of the AIRS database is needed to use the standard reports. For reporting requirements that cannot be satisfied by the standard reports, AIRS has an ad-hoc reporting facility, which is described in Volume AQ5 of the AIRS User's Guide.

There are standard reports for all types of air quality data in the AIRS database. Some reports list the raw data values reported by air quality monitors; others show summary information derived from the raw data; and still others give information about the monitoring sites. Most reports also include descriptions of the codes used in the AIRS database (and in the reports) to identify such things as pollutants and geographic locations. Some reports can present "secured" data, which is private or special-purpose air quality data not available for general use. Only the organization responsible for the secured data can retrieve it.

Although the standard reports have fixed formats, nearly all of them have optional features that affect details of the report content and the types of output generated. All reports provide for selection of data based on geographic and other criteria you enter, and many of the batch reports allow you to specify a sort order as well. You can save the batch report specifications (report options, selection criteria, and sort criteria) and use them again if you wish.

An option available for every batch standard report is the generation of a "work file" in addition to a printed report or instead of the report. This file contains the same data as the report in a format that is compatible with other programs (a standard IBM sequential file). A work file provides a convenient way to export data from AIRS to other applications. For example, you might use a work file to supply data to SAS in order to carry out a statistical analysis of air quality raw data or to produce graphs of the values.

There are two types of programs for each batch standard report: interactive and batch. (See Figure 2-2.) The interactive programs ask you for report specifications, check them, and tell you if there is a mistake. When the specifications are valid, an interactive program constructs the necessary job control statements (JCL) and submits a batch job to generate the report. The on-line standard report programs ask you for selection criteria, check them, and tell you if there is a mistake. When the criteria are valid, an interactive program retrieves the data and generates the on-line report. Although each standard report has its own programs, there are features and functions common to all the reports. Following sections describe typical functions of the on-line and batch programs and other essential concepts of the AQ Data Retrieval subsystem.

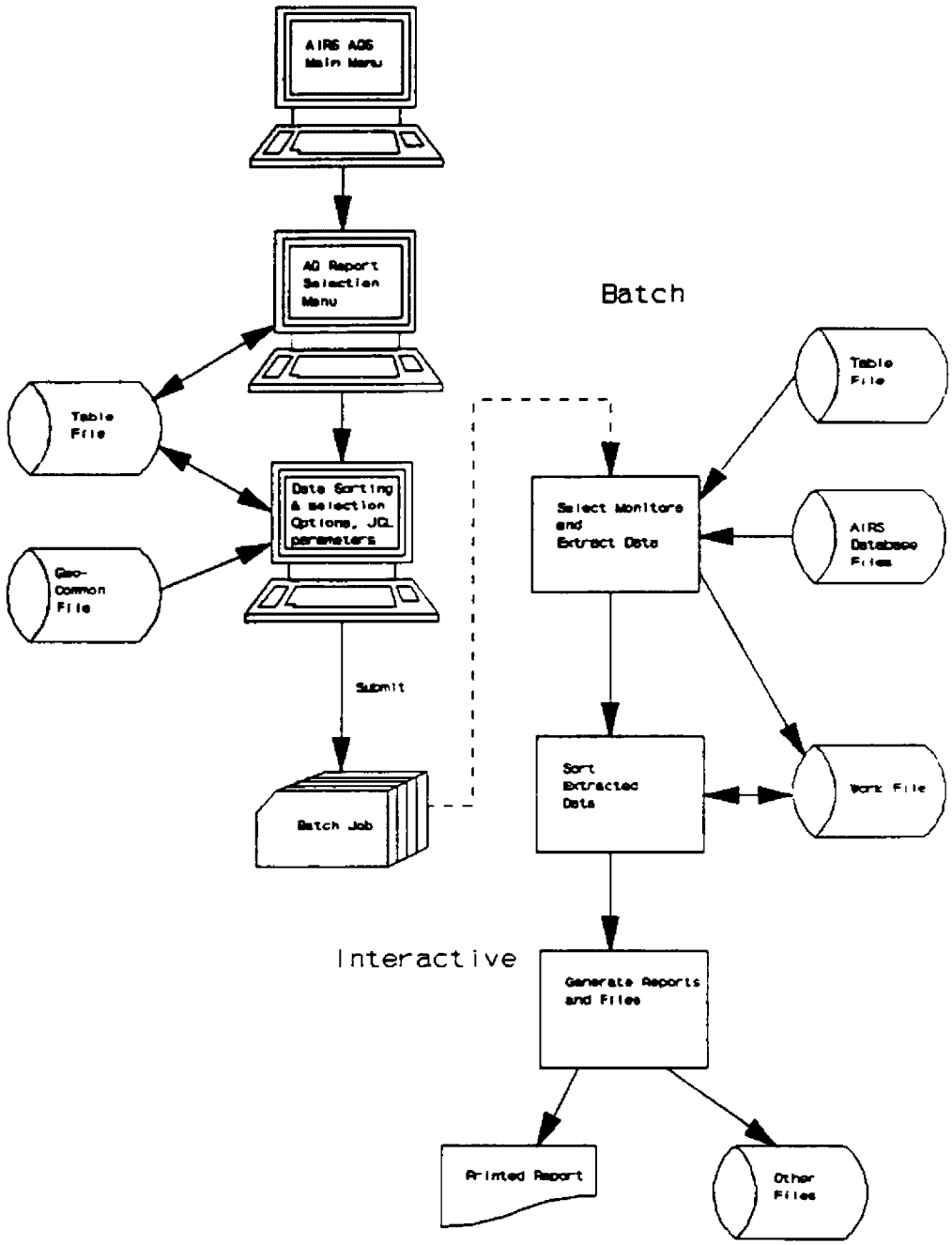

Figure 2-2. AQ Batch Standard Reports Process

2.3 The AQS Database

You don't have to know anything about the organization of the AIRS database in order to use the AQ standard reports. They automatically access the correct files. The information presented in the following paragraphs is background material that may help you use the reports more effectively.

The AIRS database is not a monolithic, amorphous entity. It consists of a number of files, each containing a different type of data. Each file "belongs" to one of the main AIRS subsystems, Air Quality, Facility, or Geo-Common. The AQ standard reports obtain information primarily from the Air Quality files and also from the Geo-Common files.

2.3.1 Public Files

Raw data values are stored in four files: Hourly, Daily, Composite, and Precision and Accuracy Monitor Raw Data. The actual observations of pollutant concentrations or meteorological conditions reported by monitoring stations are stored in three files: Hourly, Daily, and Composite. Precision and accuracy audit results from all types of monitors are stored in the Precision and Accuracy Monitor Raw Data file.

The Hourly file holds values measured at intervals shorter than 24 hours, the most common interval being one hour. Typically, these values are measured by automated equipment that continuously measures the pollutant concentration and derives an average value for the sampling interval. The Daily file stores values whose sampling intervals are 24 hours or more; the most common interval is 24 hours. The values in the Daily file usually are derived from chemical analysis of a discrete object, such as a filter paper or a reagent solution, that has been exposed to the ambient air for the duration of the sampling interval. The Composite file contains values derived from multiple samples that were combined and analyzed as one. The sampling intervals and methods of analysis are generally the same as those used for data in the Daily file.

The Precision and Accuracy Monitor Raw Data file stores values that reflect the precision and accuracy of the measurement process from which the measurement data is obtained. Precision assessments are determined by performing repeated measurements of ambient-level "calibration" gases at two-week intervals for continuous analyzers, or by obtaining duplicate results from collocated samplers for manual methods. The accuracy assessments indicate the agreement between an analyzer measurement and a known audit standard concentration for continuous analyzers, or the agreement between an observed value and a known or reference value for manual methods.

Four more Air Quality files hold summary information derived from or related to the reported raw data values. They are the Summary, SLAMS, Precision and Accuracy Reporting Organization Summary, and Precision and Accuracy Monitor Summary files. The Summary file contains quarterly and yearly summaries of the data reported by each AQ monitor. The summaries are derived from raw data values in the Hourly, Daily, and Composite files, and include items of common interest such as the maximum and the mean pollutant concentrations reported by a monitor. The SLAMS file contains similar annual summaries for monitors at State and Local Air Monitoring Sites (SLAMS) and National Air Monitoring Sites (NAMS). The information in the SLAMS file is supplied by the organizations that operate the sites, who certify its accuracy. The Precision and Accuracy Reporting Organization Summary file contains

information about the collective or average precision and accuracy of groups of similar monitors operated by a particular organization. The Precision and Accuracy Monitor Summary file contains information about the collective or average precision and accuracy of each monitor. The file has yearly and quarterly data for each monitor.

The AQ Retrieval Subsystem uses three other database files for reference and control information. The AQ Site file contains the ID codes and descriptions of all air quality monitors and the sites at which they are located. The Geo-Common file has the ID codes and descriptions of the other items used in AIRS, such as states, pollutants, units of measurement, and so on. Finally, the Table file holds information used to control and coordinate the various AIRS activities, including the AQ Retrieval Subsystem.

2.3.2 Secured Files

AIRS is capable of handling data considered private by the organization supplying them. Private data might be the results of a special study that the sponsoring agency does not wish to make public because non-standard techniques were used or because further analysis or investigation is needed. Private data also might be provided by a corporation or other non-government entity operating its own air quality monitors.

Access to private data in the AIRS database is restricted by passwords, and only the organization providing the data can retrieve them. In all other respects, the private data are handled the same as normal, public data.

The private air quality data are stored in four "secured" files that serve the same functions as their public counterparts. They are the Hourly, Daily, Composite, and Summary secured files. Any AQ standard report that obtains data from the public raw data and Summary files can also access the secured files. However, the report will retrieve data from a secured file only if the appropriate password has been provided.

2.3.3 Archiving Data

Because raw data values are so numerous, it is not always feasible to retain all of them in the raw data files of the AIRS database all the time. To keep the disk file sizes manageable, older data may be unloaded to tape, or "archived". If it is necessary to use archived data, the AIRS database administrator can reload them temporarily into the database. Currently, none of the hourly data is archived.

Currently, the Daily and Composite files contain all the raw data values of those types reported since 1957. There are few enough values that archiving is not necessary. As new data are added to the files, eventually it will become necessary to archive the older daily and composite values.

2.4 AQS Standard Reports

The AQS Data Retrieval Subsystem standard reports are divided into two types, batch and on-line. The following batch standard reports are currently available:

Report Number	Report Name

Site and Monitor reports:

AMP220	Monitoring Network
AMP225	PAMS Monitoring Network
AMP380	Site Description Inventory
AMP390	Site Monitor Status

AQS Data reports:

AMP230	Frequency Distribution
AMP240	P/A RO Summary
AMP245	P/A Monitor Summary
AMP250	P/A Monitor Raw Data
AMP260	Reduced Frequency
AMP275	SLAMS Data Generation
AMP280	SLAMS Data Retrieval
AMP282	Summary Data Extraction
AMP300	Violation Day Count
AMP350	Raw Data Listing
AMP355	Standards
AMP370	Raw Data Conversion
AMP410	Pollutant Standard Index
AMP420	Fact Book
AMP430	Data Completeness
AMP440	Maximum Values
AMP450	Quick Look
AMP460	Pollutant Data Summary
AMP950	Screening File Listing

The following on-line standard reports are currently available:

AMP510C	Composite Data
AMP510D	Daily Data
AMP510H	Hourly Data
AMP510M	Monitor Data
AMP510N	P/A Monitor Summary Data
AMP510P	P/A Monitor Raw Data

AMP510R	P/A Reporting Organization Summary Data
AMP510S	Site Data
AMP510T	History Data
AMP510Y	Summary Data

2.5 Registration and Equipment Requirements

Any governmental or private organization with access to the NCC-IBM computer system may retrieve air quality data from the AIRS database. AIRS can handle confidential as well as public data, so access to certain data may be restricted.

In order to use the AIRS data retrieval facilities you must have access to NATURAL on the NCC-IBM. An individual is identified within AIRS by the user-ID assigned by the EPA National Computer Center. If you do not have a valid NCC-IBM user-ID or access to NATURAL, contact the TSSMS Office of the Computer Center or the AIRS database administrator to find out how to obtain one. See Volume AA1 of the AIRS User's Guide for a list of phone numbers.

To use AIRS, you need the equivalent of an IBM 3270 Model 2 terminal connected to the NCC-IBM computer system through the EPA telecommunications network. The optimal configuration is a 3270-type terminal or a personal computer with a 3270-type emulation card and a high speed communications line. An alternative is the Computer Center's protocol converter, called the "TCP", which provides 3270 emulation for many brands of asynchronous terminals. You could use a personal computer with asynchronous communications equipment for a terminal, but a PC emulating an asynchronous terminal emulating a 3270 terminal may be too complicated to be useful. The minimum acceptable telecommunications speed is 1200 bps; higher speeds (2400 or 9600 bps) are preferable. Contact the Computer Center for information about the types of terminal and communications equipment best suited for your needs. Refer to Volume AA1 of the AIRS User's Guide for the phone number.

2.6 General Conventions and Procedures

This section explains the general conventions and normal procedures used throughout the AIRS Air Quality Data Retrieval Subsystem.

2.6.1 Standard PF Keys

AIRS, like many other applications on IBM computer systems, makes use of the 3270-type terminal's Program Function (PF) keys as a shorthand means of entering instructions or commands that control what a program does. Indeed, most AIRS programs do not accept typed commands; the PF keys are the only way to specify what you want to do.

The number of PF keys defined for a particular program depends on the program's complexity or versatility, and the meaning of a particular PF key may differ from one program to another. However, a few directives, such as "end this function" or "end this session", are available in nearly every AIRS program. The same PF keys are used for these common commands throughout AIRS. Furthermore, the AIRS usage of PF keys is similar to the usage in many widely-used programs, such as ISPF.

The standard AIRS PF keys are listed and explained in Table 2-1.

Some 3270-type terminals have 24 PF keys and define the PF13-PF24 keys as the default or primary set, and PF1-PF12 as the secondary set. AIRS uses only the first twelve PF keys, PF1-PF12; the PF13-PF24 keys are not used or recognized. For example, PF15 is not equivalent to PF3.

2.6.2 Other Special Keys

Two other special keys on a 3270-type keyboard are important for AIRS. They are discussed below.

The **ENTER** key is probably the most frequently used special key. It causes the information on the screen to be passed to the AIRS program for processing. After processing the information, the program may redisplay the same screen or a different one depending on the circumstances. In essence, the ENTER key tells a program to process the current screen and then do the next thing in logical sequence.

The **CLEAR** key aborts the active AIRS session, then starts a new AIRS session. Since any activities pending at the time may not be completed properly, use of this key is <u>not</u> recommended.

Table 2-1. AIRS Standard PF Keys

This table summarizes the standard PF key definitions used throughout AIRS.

Key	Function	Explanation
PF3	End	Terminates the current function and goes back to the function logically before or higher than the current one.
PF4	Return (to Main Menu)	Terminates the current function and goes back to the AIRS Main Menu
PF5	Quit	Terminates the AIRS session and returns to CICS.

Note

The way PF3, PF4, or PF5 terminates the current function differs among AIRS programs. Most programs complete the current function (by carrying out the actions specified or implied by what is on the screen) while some abort the current function and ignore the screen. The specific interpretation is explained in the section for each Data Retrieval process.

PF7	Previous	Pages backward to the previous screen in a series of screens with the same format.
PF8	Next	Pages forward to the next screen in a series of screens with the same format.

2.7 AIRS Logon Procedures

This section explains how to begin an AIRS terminal session.

2.7.1 TCP Logon

This page gives instructions for using the protocol converter, or "TCP", to simulate a 3270-type terminal. If you are using a 3270-type terminal, skip this page.

1. Prepare your equipment for use by turning on power, adjusting terminal settings, executing your PC's communications program, or any other necessary preliminaries. If you do not already know what communications parameters to use, contact the Computer Center for assistance.

2. Dial the appropriate phone number and establish connection with the EPA telecommunications network. The Computer Center will tell you how to do this if you do not know.

3. Press the ENTER or RETURN key on your terminal once or twice until the message "Welcome to the Environmental Protection Agency National Computer Center..." is displayed on your terminal. (The complete text of the message is shown in Figure 2-3.)

4. Type "tcp" and press ENTER or RETURN to choose the 3270 emulation option from the menu.

5a. If you know the "initial signon character" for your terminal, type it three or four times at half-second intervals until the TCP responds by clearing the screen and displaying a message. Type only the signon character; do not press ENTER or RETURN. Typical signon characters are "M" for a DEC VT-100 terminal and "]" for a Televideo 950 terminal.

5b. If you do not know the "initial signon character" for your terminal, press ENTER or RETURN three or four times at half-second intervals until the TCP responds with the message "> > COMMTEX Cx-80 DATA EXCHANGE < < " and follow the instructions displayed on the screen. (Figure 2-3 shows an example of this procedure.)

6. When the TCP knows what kind of terminal you are using, it responds by clearing the screen and displaying the message "** Cx-80 VER 04.76 **". (The version number, "04.76", may change from time to time as the TCP is expanded to handle more types of terminals.) Don't do anything while this message is displayed; just wait patiently. After a few seconds you will see the EPA logon menu shown in Figure 2-4. Your terminal is now effectively a 3270-type, and the procedures from this point on are the same as for a 3270 terminal.

```
<Return>

Welcome to the Environmental Protection Agency National Computer Center

          Please enter one of the following selections:

                    IBM for IBM
                    UNI for SPERRY
                    TCP for 3270 EMULATION
                    FMO for FMO PDP
                    VAX for VAX
                    PRIME for PRIME

Enter selection: tcp
Connected.
<Return><Return><Return>
     >> COMMTEX Cx-80 DATA EXCHANGE <<

ENTER YOUR TERMINAL'S Cx-80 DEVICE TYPE IF YOU
ALREADY KNOW IT.  IF NOT, TYPE 'H' FOR HELP.

?h

ENTER K IF USING A KEYBOARD/DISPLAY TERMINAL,
      T IF USING A TELEPRINTER, OR
      C IF USING A MICRO COMPUTER.

?k

PLEASE ENTER THE FIRST LETTER OF THE NAME OF THE
COMPANY THAT MANUFACTURES YOUR KEYBOARD/DISPLAY.

?d

ENTER Y FOR YES, N FOR NO.  IS IT:

DATA GENERAL ? n
DATAGRAPHIX ? n
DATAMEDIA ? n
DATAPOINT ? n
DEC ? y

IS IT A MODEL:

VT52 ? n
VT100 WITHOUT ADVANCED VIDEO OPTION ? y

THE Cx-80'S DEVICE TYPE FOR THE VT100 WITHOUT ADVANCED VIDEO OPTION
'S THE NUMBER '20'.  FOR FASTER SIGN-ONS, RESPOND WITH
'HIS NUMBER TO THE INITIAL Cx-80 DEVICE TYPE PROMPT.
TYPE 'R' TO RESTART YOUR SIGN-ON, ANY OTHER KEY
TO CONTINUE.

<Return>

(Screen clears)

                                        ** Cx-80 VER 04.76 **

(Screen clears)

(EPA logon menu appears)
```

Figure 2-3. Sample TCP Logon Session
TCP output is shown in standard typeface; user responses are underlined.

```
NETMAIN              U.S. Environmental Protection Agency      Date:     11/24/92
                                Menu System                    Time:     06:38:41
                                                               Terminal: T24BP106
                                                               Logmode:  MSDLCQ

 Please enter selection or command and then press ENTER.

    1. INFORMATION    News Alerts and User Memos
    2. SYSTEM MENU    System Selection Menu
    3. MAIL           EPA Electronic Mail for 3270
    4. APPLICATIONS   EPA Applications Menu
    5. INTER-AGENCY   Inter-Agency Applications Menu
    6. PUBLIC         Public Access Applications Menu

 WARNING: The use of this computer is for official Government business only.
 Unauthorized use of this computer is a criminal offense under Title 18
 United States Code, Section 641, and may subject violators to a fine of
 up to $10,000, or imprisonment of up to 10 years, or both.

Command ===>

 Optional Quick Logon - USERID   ===>
                        PASSWORD ===>

F1/F13=Help   F5/F17=Refresh   F12/F24=Cancel
```

```
NESYS01              U.S. Environmental Protection Agency      Date: 11/24/92
                            System Selection Menu              Time: 06:43:44
                                                           Terminal: T24BP106

 Please enter selection or command and then press ENTER.

    1. PCICS          Production CICS
    2. DCICS          Development CICS
    3. RCICS          Disaster Recovery CICS
    4. TSO            TSO on the NCC Mainframe
    5. CINCINNATI     TSO on the Cincinnati Mainframe
    6. ARBITER        Arbiter on the NCC Mainframe
    7. ARBICI         Arbiter on the Cincinnati Mainframe
    8. POSTMAN        PC File Mailing System

Command ===>
F1/F13=Help  F3/F15=Exit  F5/F17=Refresh  F12/F24=Cancel
```

Figure 2-4. Using the EPA Logon Screens

2.7.2 EPA Computer System Logon

AIRS is available only in the production CICS environment of the NCC-IBM computer system. The instructions on this page explain how to logon to CICS.

The EPA logon procedure involves the EPA menu system screen, shown in Figure 2-4. You can invoke CICS from this screen.

1. Turn on your 3270-type terminal (or follow the TCP logon procedures above). The EPA menu system screen, shown at the top of Figure 2-4, should be displayed on your terminal. If it is not, contact the Computer Center for assistance.

2. To select CICS directly from the menu system screen, type "pcics" (production CICS) and press the ENTER key. The Production CICS logon screen should appear. (See Section 2.7.3 of this manual for CICS logon instructions.)

3. If you mistyped "pcics", the menu system screen will display an error message. Carefully type "pcics", press the ERASE-EOF key, then press the ENTER key.

Follow these instructions when selecting "2" or typing "System Menu" from the EPA menu System Screen (See Figure 2-4).

1. The EPA System Selection Menu, shown at the bottom of Figure 2-4, should appear.

2. Select '1' to select the service "PRODUCTION CICS", or type "pcics" and press the ENTER key. The message "NET 106 - LOGON TO CICP04RT IN PROGRESS" will appear on the screen briefly, followed by the CICS logon screen, shown in Figure 2-6. (See Section 2.7.3 of this manual for CICS logon instructions.)

3. If you mistyped 'pcics", the message "NET-114 APPLICATION value UNKNOWN TO VTAM" appears at the bottom of the screen. ("Value" is what you entered.) Press the PF5/PF17 key, or press the TAB key to position the cursor, press the ERASE-EOF key to erase the invalid entry, carefully type "pcics", and press the ENTER key.

News Alerts and User Memos also can be displayed prior to CICS logon by selecting "1" or typing "Information" from the EPA menu system screen (see Figure 2-5).

Utilizing Quick Logon option

After your initial logon, from the EPA menu system screen, you have the Quick Logon option. This allows you to logon without going through the regular series of screens. Type "pcics" on the command field, your NCC-IBM user-ID in the USERID field, your NCC-IBM password in the PASSWORD field, and press the ENTER key. The screen invoked depends on what is contained in the INITIAL TRANS field from your initial logon.

```
ZZMNMP1          U.S. Environmental Protection Agency          Date: 11/24/92
                      Production  CICS Menu System             Time: 06:43:08
                                                            Terminal: T248P106

XX     XX   XXXXXX    XXXXXX        XX   XXXXXX   XXXXX    XXXXXX    XXXXXX
XXX    XX   XXXXXXXX  XXXXXXXX      XX   XXXXXXXX XXXXX   XXXXXXXX  XXXXXXXX
XXXX   XX  XXX       XXX           XX   XXX        XXX   XXX        XXX
XX XX  XX  XXX       XXX          XX    XXX        XXX   XXX         XXX
XX  XX XX  XXX       XXX          XX    XXX        XXX   XXX           XXX
XX   XXXX  XXX       XXX          XX    XXX        XXX   XXX             XXX
XX    XXX   XXXXXXXX  XXXXXXXX  XX       XXXXXXXX XXXXX  XXXXXXXX  XXXXXXXX
XX     XX    XXXXXX    XXXXXX  XX         XXXXXX  XXXXX   XXXXXX    XXXXXX

 Please enter selection or command and then press ENTER.

   1. INFORMATION   News Alerts and User Memos
   2. SIGN-ON       Change CICS Sign-on Parameters
   3. APPLICATIONS  EPA Applications Menu for CICS
   4. EXIT          Exit CICS and return to EPA Menu System


Command  ===>
F1/F13=Help   F3/F15=Exit   F10/F22=Lock    F12/F24=CICS <cmd>
```

Figure 2-5. Production CICS Menu System Screen

```
ZZSNSHT          U.S. Environmental Protection Agency          Date: 11/24/92
                      PRODUCTION CICS logon                    Time: 06:40:46

+-------------------------------------------------------------------------+
| Enter USERID and PASSWORD and then press ENTER.                         |
|                                                                         |
|   USERID      ===>                                                      |
|                                                                         |
|   PASSWORD    ===>                NEW PASSWORD ===>                     |
|                                                                         |
| Change other logon parameters (Y/N) ===> N    Cancel (Y/N) ===> N       |
+-------------------------------------------------------------------------+

Command ===>
F1/F13=Help   F3/F15=Exit
```

```
ZZSNLNG          U.S. Environmental Protection Agency          Date: 11/24/92
                      PRODUCTION CICS sign-on                  Time: 06:41:41

+-------------------------------------------------------------------------+
| Enter USERID and PASSWORD and then press ENTER.                         |
|                                                                         |
|   USERID      ===> MLZ                                                  |
|                                                                         |
|   PASSWORD    ===>                NEW PASSWORD ===>                     |
+-------------------------------------------------------------------------+
|                                                                         |
|   ACCT ID     ===>                BIN NUMBER   ===>                     |
|                                                                         |
|   FIMAS       ===>                PRINT DEST   ===>                     |
|                                                                         |
|   GROUP IDENT ===>                                                      |
|                                                                         |
|   INITIAL TRANS =>                                                      |
+-------------------------------------------------------------------------+

Command ===>
F1/F13=Help   F3/F15=Exit
```

Figure 2-6. Using the CICS Logon Screen

2.7.3 CICS Logon Procedures

This section explains how to use the CICS logon screen shown in Figure 2-6. For your initial logon, this screen allows you to set up your logon parameters. All the values you enter for the logon parameters are saved in your CICS logon profile. Thereafter, you can use this screen to log on, to change your password, or to change your logon parameters.

To set your logon parameters, during initial logon:

1. Type your NCC-IBM user-ID in the USERID field and your NCC-IBM password in the PASSWORD field. (It does not show on the screen when you type it.) Every new user of the NCC-IBM computer system must change his or her password during initial logon. Tab to NEW PASSWORD and type a new password. Like the password field, the value you type does not show on the screen. Type carefully! Tab to the change other logon parameters field and type "Y". Press the ENTER key to bring up the CICS sign-on screen shown in Figure 2-6.

2. Supply values on the CICS sign-on screen for the following fields:

   a. ACCT ID: The account for which you are authorized.

   b. FIMAS: Type in AIRSP (AIRS Production).

   c. GROUP IDENT: The account for which you are authorized (same as ACCT ID).

   d. BIN NUMBER: Four-character field designating physical location of printed output (not a required field).

   e. PRINT DEST: Remote printer-id (not a required field).

   f. INITIAL TRANS: The initial transaction you want CICS to invoke (blank, SYSD, or AIRS).

      a. If it is left blank, then the Production CICS Menu System is displayed. A sample of the menu system is shown in Figure 2-4.

      b. If the initial transaction is set to SYSD, then CICS invokes SYSD (non-AIRS facility to monitor batch jobs) after completing the logon. (See Section 3.8 for more information about SYSD.)

      c. If the initial transaction is set to AIRS, then CICS invokes the AIRS application after completing the logon. (See Section 2.9 for more information about AIRS.)

If you will be accessing AIRS and looking at your output through SYSD, then it would be beneficial for you to set your INITIAL TRANS to SYSD. Since you can invoke AIRS by typing "airs" at any command line. (See Section 2.7.4, Invoking AIRS.) This way you can invoke SYSD immediately when you logon to production CICS (PCICS).

3. Press the **ENTER** key to initiate logon after you have typed in or erased values from the fields as described above.

4. If you forgot to enter a value for one of the required fields of the CICS logon screen, the message "***** ERROR - NO <field name> SPECIFIED, BUT IS REQUIRED" is displayed. Type a value for the field identified in the message and press the ENTER key again.

5. If you entered an incorrect value for a field of the CICS logon screen, the message "***** ERROR - INVALID <field name> SPECIFIED" is displayed. The message is slightly different if the incorrect value was your password: "***** ERROR - INVALID SIGNON ATTEMPT - PASSWORD NOT AUTHORIZED". Carefully type the correct value for the field identified in the message and press the ENTER key again. If the GROUP value is wrong, the message may identify ACCOUNT as the invalid field.

To logon, change your password, or change your logon parameter after the initial logon:

1. Type your NCC-IBM user-ID in the USERID field and your NCC-IBM password in the PASSWORD field (it does not show on the screen when you type it). **You must enter your user-ID and password every time you log on.**

2. If you want to change your NCC-IBM password, type the new value in the NEW PASSWORD field. Like the password field, the value you type does not show on the screen.

3. If you want to change your logon parameters, tab to the change other logon parameters field, type "Y", and press the ENTER key. To change a value saved from a previous logon, type all spaces in the field. Clearing the field with the 3270's erase-to-eof key does not work.

```
INF1MN1          U.S. Environmental Protection Agency          Date: 12/17/92
                          News Alert Facility                  Time: 08:49:02

 Select news alerts and then press ENTER.
    --DATE-- --------------------TITLE----------------------------- ---ID---
    92/12/16 TSO SYSTEM TEMPORARILY UNAVAILABLE 12/19                ALERT9
    92/12/15 WATS DIALING CHANGE FOR DALLAS CUSTOMERS                ALERT5
    92/12/14 NATURAL TO BE UNAVAILABLE DEC 20                        ALERT1
    92/12/10 A LIST OF RECENTLY RELEASED EPA MEMOS                   ALERT4
    92/12/10 PREDICT V3.1.4 IMPLEMENTATION                           ALERT10
    92/12/07 NCC HOLIDAY AND SUPPORT SCHEDULES                       ALERT7
    92/12/07 IMPLEMENTATION OF RACF PROTECTALL                       ALERT2
    92/12/03 NCSC SUPER COMPUTER AVAILABILITY SCHEDULE               ALERT11
    92/12/18 ICRC TO BECOME THE DEFAULT                              ALERT6
    92/12/16 S2K R12.0 INSTALLED INTO PRODUCTION                     ALERT3
    92/12/09 FOCUS 6.5 PUT LEVEL 9207 AVAILABILITY                   ALERT12




Command ===>
F1/F13=Help   F3/F15=Exit   F5/F17=Rep Find   F7/F19=Backward   F8/F20=Forward
```

Figure 2-7. CICS News Screen

2.7.4 Invoking AIRS

AIRS is a Natural "application"; AIRS programs are written in the Natural programming language and they execute under Natural's control. A special program (a CICS "transaction") is available that simplifies the AIRS logon procedure. The program takes care of executing Natural and selecting AIRS as the application. All you have to do is execute the special AIRS program. There are several ways to execute the AIRS program:

1. Type "airs", your NCC-IBM user-ID, and your NCC-IBM password on the EPA Menu System Screen. Press the ENTER key.

If you made a mistake typing "airs", the screen is redisplayed with the error message "NET-114 Application <name> unknown to VTAM", where <name> is what you typed. Retype "airs" and press the ENTER key.

2. If your INITIAL TRANS field is set to AIRS, then you can type "pcics", your user-ID and your NCC-IBM password on the EPA Menu System Screen. Press the ENTER key.

3. Type "pcics", your NCC-IBM user-ID, and NCC-IBM password on the EPA Menu System Screen. The Production CICS Menu System Screen appears. From this screen you can type"airs" or select "3" (which lists the applications). AIRS can be selected from the list of applications by placing an "s" beside 1. AIRS, by typing "1" on the command line, or by typing "airs" on the command line. Press ENTER key.

If you made a mistake typing "airs" on the Production CICS Menu System screen, the Screen is redisplayed with the error message "EPA002B2 Valid cmds are HELP, EXIT & LOCK, for CICS cmds enter 'CICS <cmd>'". Retype "airs" and press the ENTER key.

When CICS recognizes the "airs" transaction name, it initiates Natural and supplies Natural with all the information it needs to start up the AIRS application. The NATURAL LOGON PROCEDURE Mailbox Display screen, shown at the top of Figure 2-8, appears prior to the AIRS screen when there is an outstanding message. If there is not an outstanding message, then the first AIRS screen appears, as shown at the bottom of Figure 2-8.

If a message is displayed on your screen that starts with the number "NAT8xxx" or "NAT9xxx", then something is wrong with NATURAL or ADABAS. You will not be able to use AIRS until the problem is fixed, and you should skip to the CICS logoff instructions given later in this section. Problems of this sort are usually resolved within a fairly short time (30 to 45 minutes) by the Computer Center. Try again after an appropriate delay.

```
06:45:30              *** NATURAL LOGON PROCEDURE ***              92-11-24
                          - Mailbox Display -

 This mailbox: AIRSMAIL  was mailed on:          at: 07:33:52  by: GSJ

    ************************************************************
    *                  NOVEMBER 10, 1992 07:30 AM              *
    * ********************AMS BATCH UPDATE*********************** *
    *                        JCL  ERROR                        *
    * THE AMS BATCH UPDATE FAILED AGAIN LAST NIGHT WITH A JCL  *
    * ERROR BECAUSE THE SAME ERROR FILE WAS USED FOR TWO DATASETS. *
    * THIS ERROR CAUSES ALL DATASETS AFTER THE ONE WITH THE ERROR  *
    * TO FAIL.  PLEASE BE CAREFUL TO SPECIFY UNIQUE ERROR DATASETS *
    * AS OTHER USERS ARE PENALIZED.                            *
    *                                                          *
    *                   MOBILE MODEL TRANSACTIONS              *
    *                                                          *
    * ALL MOBILE MODEL TRANSACTIONS HAVE BEEN REPROCESSED.  PLEASE *
    * REVIEW YOUR INVENTORIES.  IF YOU HAVE ANY QUEST, PLEASE CALL *
    * THE 'HELPLINE'.                                          *
    *                                                          *
    *                                                          *
    ************************************************************
```

```
01/11/93          Aerometric Information Retrieval System          AAP000
                              Main Menu


                        1.  Air Quality (AQS)
                        2.  Facility (AFS)
                        3.  Area Mobile Source (AMS)
                        4.  Geographic/Common (GCS)
                        5.  AIRS Graphics (AG)

                      Please Enter Selection: _


                PF3=end                              PF5=terminate
```

Figure 2-8. Invoking AIRS From CICS
Invoking CICS transaction "AIRS" causes the main menu to be displayed.

2.8 AIRS Logoff Procedures

Like the logon procedures, the AIRS logoff procedures are fairly simple.

2.8.1 CICS Logoff

1. When you end your AIRS session, the EPA Production CICS Menu System Screen appears. You can type "airs" to start another AIRS session, another CICS transaction name to do something different (look at the status of batch jobs, for example), or end your CICS session.

2. To end your CICS session and logoff, type "4", "exit", or tab to 4. EXIT and type "s" and press the ENTER key, as shown in Figure 2-9.

3. If the logoff is successful, the EPA Menu System Screen appears.

4. If you mistyped "4" or "exit", the message "EPA002B2 Valid CMDS are HELP, EXIT & LOCK, for CICS cmds enter 'CICS < cmd > ' "is displayed. Carefully type "4" or "exit" and press ENTER again.

5. If you typed another character beside 4. EXIT, instead of "s", then the message "EPA002 INVALID or UNDEFINED COMMAND" is displayed. Carefully type "s" beside 4. EXIT and press ENTER again.

2.8.2 TCP Disconnect

If you are using the TCP (protocol converter) to simulate a 3270-type terminal, you should disconnect from the protocol converter when you have ended your CICS session. The TCP has a limited number of ports, and when you disconnect your terminal the port you have been using becomes available to other users.

1. To disconnect from the TCP, hold down the CONTROL key and press the Y key (CNTL/Y).

2. The TCP clears the screen, displays the message "* Cx-80 DISCONNECT *", and disconnects from the telecommunications line.

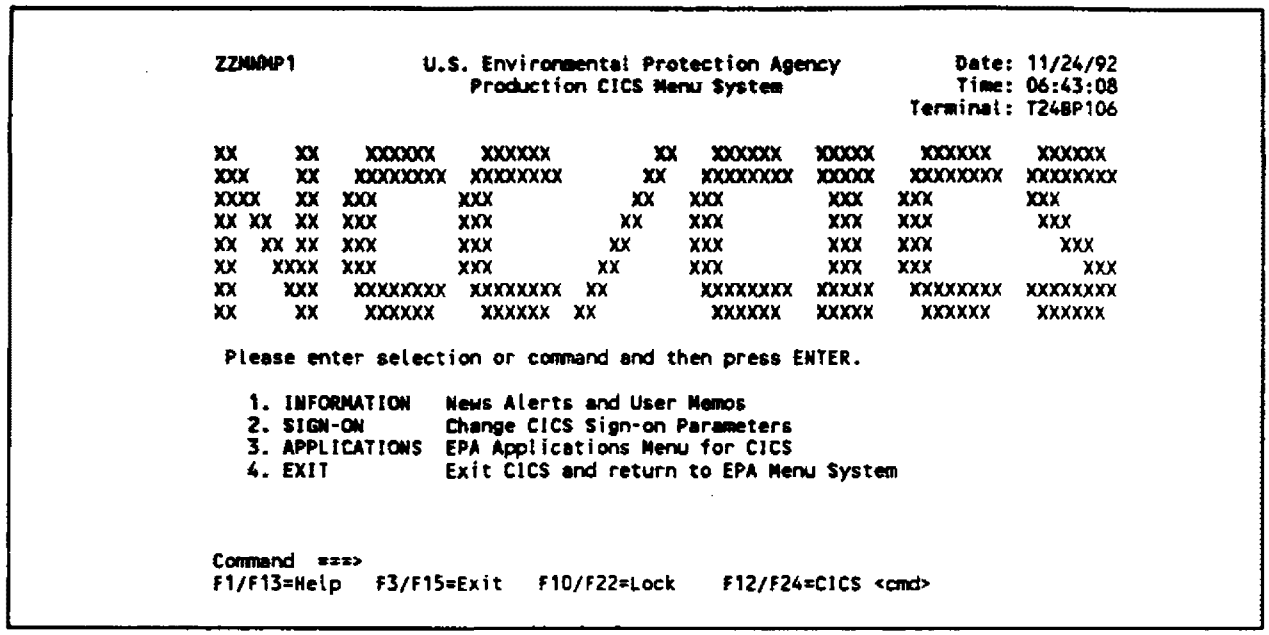

Figure 2-9. Production CICS Menu System Screen
Press 4 to Exit CICS.

2.9 AIRS AQS Top Level User Procedures

When you begin an AIRS session you make a series of high-level choices about what you want to do. The part of AIRS that handles these choices is called the "top level user session". This section of the User's Guide tells what it does and how to use it.

The top level user session consists of four screens. Descriptions of the screens and detailed instructions for using them to access the Air Quality Data Retrieval Subsystem are given on following pages. The first screen, the **AIRS subsystem menu**, allows you to choose the AIRS subsystem -- Air Quality, Facility, or Geo-Common -- you wish to enter. The second screen, the **user profile**, is for specifying things that will be in effect for the duration of your AIRS AQS session or until you return to the user profile screen and change them. The third screen is the AIRS AQS **main menu**. With it you choose the AIRS Air Quality type of function -- data storage or data retrieval -- you want to do. (When an AIRS database administrator is using the system, the main menu screen also includes update functions for each subsystem that are available only to the ADBA.) The fourth screen is a **subsystem/function menu** that shows the processes available for the AIRS AQS subsystem and type of function that you chose from the main menu. The format of each subsystem/function menu is somewhat different since the number and types of processes are different for each subsystem.

The four screens of the top level user session form the apex of a hierarchical relationship among AIRS processes (hence the name "top level"). This is illustrated in Figure 2-10, where each box represents a process. When you make a choice from a menu at one level, you automatically move down to the next level along the line, or path, dictated by your choice. There you can make another choice and move down another level until you reach the lowest level available in that path. When you complete the process at the end of the path you automatically move back up to the process at the next higher level in the path. You can also use the PF3 key to terminate the current process and move one level up the path you came down, ultimately reaching the user profile screen at the top of the AIRS hierarchy. One more PF3 at that point takes you out of AIRS and back to CICS, the next "higher" level. (Two other AIRS AQS standard PF keys provide "shortcuts". PF4 moves you directly to the AIRS subsystem menu or the AQS main menu from any process lower in the hierarchy, and PF5 takes you out of AIRS to CICS from any process.)

You can go up and down several different paths in one AIRS session. For example, you could go down the AQ Data Storage path to CORRECT and fix an error in a screening file, then up to the AQ Data Storage Subsystem menu and down to EDIT to submit a batch job for checking the same screening file. Then you could go up to the main menu, go down the Geo-Common Retrieval path, submit a batch job to list, for example, valid interval codes, and finally ending the AIRS session by pressing PF5.

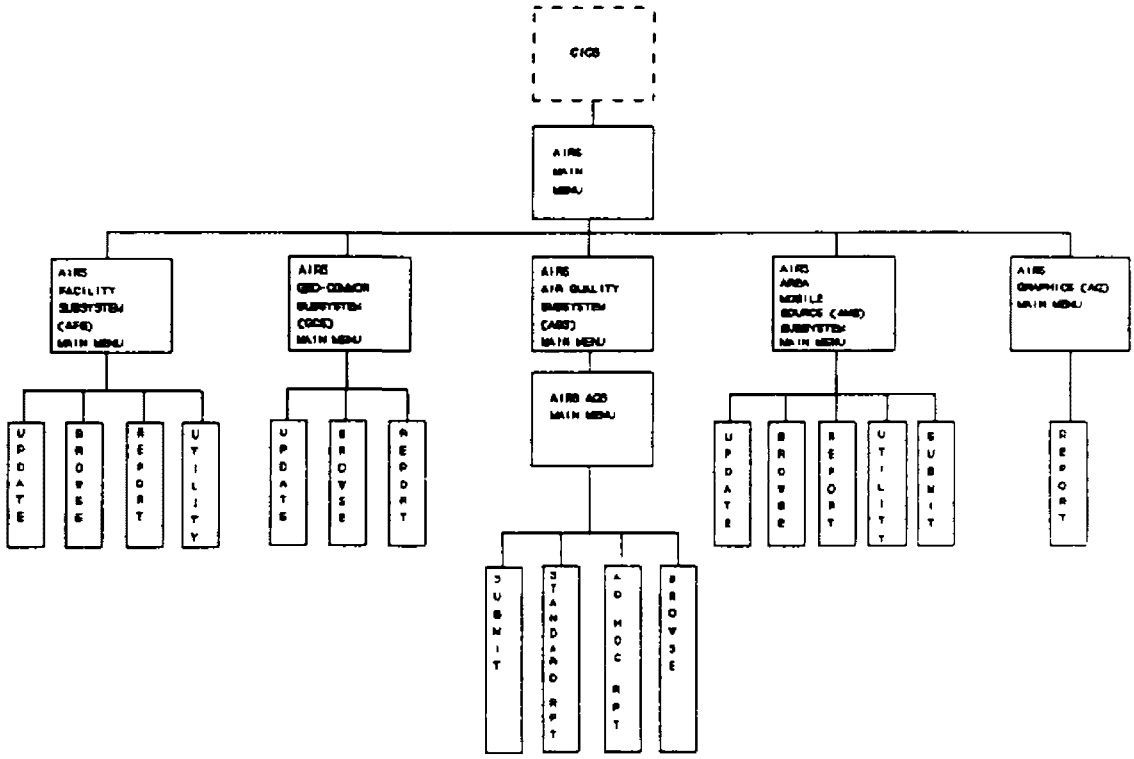

Figure 2-10. Hierarchical Relationships Among AIRS Processes

2.9.1 AIRS Main Menu

The main menu is the first screen of the AIRS user session. It is displayed when you invoke AIRS from CICS or when you use the PF3 or PF4 key on the AIRS AQS user profile screen.

The AIRS main menu is used to select the subsystem (Air Quality, Facility, Area Mobile Source, Geographic/Common, or AIRS Graphics) you want to use. The main menu screen is shown at the top of Figure 2-11.

The instructions for using the main menu screen to select the Air Quality subsystem are very simple:

1. After the PLEASE ENTER SELECTION prompt, type "1" and then press the ENTER key. This selects the Air Quality Subsystem of AIRS.

2. If you entered the selection correctly, the AQS user profile screen will be displayed. It is shown at the bottom of Figure 2-11.

3. If you entered the wrong main menu selection, a different menu will be displayed. Press PF3 or PF4 to return to the main menu, specify option "1", and press ENTER.

4. If you entered an invalid selection, the message "INVALID SELECTION - RE-ENTER" is displayed at the top of the screen. Carefully type "1" in the selection field and press ENTER.

You can also use the PF5 key to terminate your AIRS session (and your NATURAL session) while the AIRS main menu is displayed. If you use any other PF or PA key, the message "NAT1011 REQUESTED FUNCTION KEY NOT ALLOCATED" is displayed at the top of the screen.

```
01/11/93          Aerometric Information Retrieval System          AAP000
                            Main Menu


                    1.  Air Quality (AQS)
                    2.  Facility (AFS)
                    3.  Area Mobile Source (AMS)
                    4.  Geographic/Common (GCS)
                    5.  AIRS Graphics (AG)

                Please Enter Selection: _


                PF3=end                                  PF5=terminate
```

```
02/23/93                AIRS AIR QUALITY SUBSYSTEM                  AAP000Q
                             USER PROFILE BLY

          PASSWORD:                                ACCOUNT CODE:  ASWD

        PRINTER ID:  RMTO                            BIN NUMBER:  B145

_____________________________ SCREENING FILES _____________________________

        088AQDSI    AIR QUALITY SCREENING FILE   UPDATE     NOT LOCKED
        S23AQA05    AIR QUALITY SCREENING FILE   UPDATE     NOT LOCKED


     ENTER PROFILE DATA (OPTIONAL)

PF3=END          PF4=SUBSYSTEM MENU          PF5=TERMINATE
```

Figure 2-11. The AIRS Main Menu

2.9.2 User Profile Screen - Description

The user profile screen is the second screen of the AIRS AQS top level user session. It is displayed when you invoke the AIRS Air Quality Subsystem from the AIRS main menu. You use the user profile screen to specify three types of information: an AIRS AQS (ADABAS) password, parameters to be used in the JCL of any AIRS AQS batch jobs you may submit, and screening file selection. These parameters remain in effect throughout your AIRS session or until you return to the user profile screen and change them.

A sample user profile screen is shown in Figure 2-12. Your NCC-IBM user-ID is displayed in the second line of the screen heading. Below that are four fields where you enter a password and specify JCL parameters: NCC-IBM account code, remote printer site-ID, and bin or box number. The AIRS database administrator can establish an AIRS profile for you with default values of your choosing for the JCL parameters. Then your defaults will be displayed on the user profile screen.

Beneath the heading "screening files" is a list of screening files you are authorized to access. (If no screening files are listed, you cannot use any of the AQ Data Storage processes described in Volume AQ3 of the AIRS User's Guide.) The list includes the screening file name, the type of data it holds (Air Quality or Source), the type of access for which you are authorized (read only or both read and update) and the status of the screening file (locked for scan, update, or by user, or not locked). To the left of each screening file name is a field, which does not show on the screen, for selecting the file. You may select one screening file for each type of data. If all your screening files are for Air Quality data, you may select only one file.

At the bottom left corner of the screen are two messages. The first one, "ENTER PROFILE DATA (OPTIONAL)", is simply terse instructions for using the screen. It means you are to specify your profile information in the fields provided. "Optional" means that you can either use the default values for account code, printer ID, and bin/room displayed on the screen, or you can enter different values; you cannot leave any of those fields blank. Furthermore, in order to use any of the AQ Data Storage processes described in Volume AQ3, you must also specify a password and select a screening file. (On the other hand, it is generally not necessary to enter a password or select a screening file when you use the Data Retrieval subsystems.)

The second message at the bottom of the screen, "PF3=end PF4=subsystem menu PF5=terminate", is a reminder that you can use the PF3 or PF4 key to return to the main menu or the PF5 key to terminate AIRS from this screen. If the second message also includes the phrase "PF8=more", then all the screening files you are authorized to access could not be listed on this screen, and you can use the PF8 key to advance to the next screen of file names. (A note of caution: you cannot come back to the current screen once you have paged forward with PF8, so be sure you have finished with the current screen before you page forward.)

```
02/23/93                AIRS AIR QUALITY SUBSYSTEM                    AAP000Q
                             USER PROFILE BLY

          PASSWORD:                                  ACCOUNT CODE:  ASWD

        PRINTER ID:  RMTO                              BIN NUMBER:  B145

                              SCREENING FILES

        088AQDSI    AIR QUALITY SCREENING FILE   UPDATE     NOT LOCKED
        S23AQA05    AIR QUALITY SCREENING FILE   UPDATE     NOT LOCKED



     ENTER PROFILE DATA (OPTIONAL)

PF3=END          PF4=SUBSYSTEM MENU          PF5=TERMINATE
```

Figure 2-12. The AIRS AQS User Profile Screen

2.9.3 User Profile Screen - Usage

To specify your user profile for AQ Data Storage processes, follow these instructions:

1. In the PASSWORD field, type the password for the screening file you plan to select for use during this AIRS session. Use the password the AIRS database administrator gave you when you registered as an AIRS data storer. The password will not show on the screen when you enter it, so type carefully! (If you think you made a mistake, tab to the start of the password field, press the ERASE EOF key, and type the password again.)

2. The ACCOUNT CODE, PRINTER ID, and BIN NO fields show the values you specified to the AIRS database administrator when you registered as an AIRS user, or they have prototype values. Since the prototype values for ACCOUNT CODE and BIN NO are not valid for use in JCL, you should replace them. Use valid codes assigned to you by the computer center for account and bin. (You also will be able to change the values for each batch job you submit, if you want to.) If you want your output printed at the computer center, specify "RMT0" or "LOCAL" as the printer-ID. Otherwise, specify the remote site-ID where you want it printed, such as "RMT321".

3. Select an Air Quality screening file from the list at the middle of the screen. Using the TAB or NEW LINE key, move the cursor to the selection field beside the name of the file you want, then type "x" (or any character but space). If the message "PF8=more" is displayed in the lower left corner of the screen, more screening files are available that would not fit on the current screen. Press the PF8 key to see them. (If you press PF8 when there are not more files available, the message "NO SCREENING FILES REMAINING" is displayed at the top of the screen.)

4. Press the ENTER key. If all your user profile specifications are valid, the AIRS main menu screen will appear. If you erased the value from one of the JCL fields, the message "<field> CANNOT BE BLANK" appears at the top of the user profile screen, where <field> refers to account, printer-ID, or bin number. If you selected more than one AQ screening file, the message "TOO MANY AIR QUALITY SCREENING FILES SELECTED" is displayed. Correct the error and press the ENTER key again.

You may use the PF3 or PF4 key to return to the AIRS subsystem menu or the PF5 key to terminate your AIRS session (and NATURAL). If you use any PA or PF key other than PF3, PF4, PF5, or PF8, the message "NAT1011 REQUESTED FUNCTION KEY NOT ALLOCATED" is displayed at the top of the screen.

```
02/23/93                AIRS AIR QUALITY SUBSYSTEM                    AAP000Q
                        USER PROFILE BLY

        PASSWORD:                                  ACCOUNT CODE:  ASWD

      PRINTER ID:  RMTO                              BIN NUMBER:  B145

                              SCREENING FILES

        088AQDSI    AIR QUALITY SCREENING FILE   UPDATE     NOT LOCKED
        S23AQA05    AIR QUALITY SCREENING FILE   UPDATE     NOT LOCKED



   ENTER PROFILE DATA (OPTIONAL)

PF3=END          PF4=SUBSYSTEM MENU          PF5=TERMINATE
```

```
02/22/90                AIRS Air Quality Subsystem                    AAP000A
                        Main Menu

                        1.  Submit Data
                        2.  Retrieve Data - Standard Batch
                        3.  Retrieve Data - Ad Hoc Batch
                        4.  Browse Data - Online

                    Please enter selection:  2

                                NEED ASSISTANCE?
                          CALL THE AQS HOTLINE AT 1-800-333-7909


PF3=end(profile)            PF4=subsystem menu              PF5=terminate
```

Figure 2-13. The AIRS AQS Main Menu
The AIRS AQS main menu appears after the user profile is established.

2.9.4 AIRS AQS Main Menu

The AIRS AQS main menu is used to select the type of Air Quality function (data storage or retrieval) you want to do. The AQS main menu screen is shown at the top of Figure 2-14.

The available Air Quality Data Retrieval options are 2, Retrieve Air Quality Data (batch standard reports) and 4, Browse Air Quality Data (on-line standard reports). Option 3, Retrieve Data (Ad hoc reports) is discussed in Volume AQ5 of the AIRS User's Guide.

The instructions for using the main menu screen to select the required Air Quality Data Retrieval Subsystem are very simple:

1. After the ENTER SELECTION prompt, enter the standard report option (2 or 4), then press the ENTER key. This selects the appropriate Air Quality data function of AIRS.

2. If you entered the selection correctly, the report selection menu or the AQ data type selection menu will be displayed. The AQ report selection menu is shown at the bottom of Figure 2-14. The AQ browse data type selection menu is shown at the top of Figure 6-2.

3. If you entered the wrong selection, a different menu will be displayed. Press PF3 to return to the main menu, specify standard report option desired, and press ENTER.

4. If you entered an invalid selection, the message "INVALID SELECTION - RE-ENTER" is displayed at the top of the screen. Carefully enter the standard report option in the selection field and press ENTER.

If you want to go "up" from the main menu screen to the AIRS AQS user profile screen, the instructions are equally simple:

1. Press the PF3 key while the main menu is displayed. The user profile screen will appear.

Please note that once you have returned to the user profile screen with PF3, the values you entered initially on it are not retained. You must enter values for the fields again as though you were starting an AIRS session.

The AQS Hotline number is displayed on the screen for users who need assistance.

You can also use the PF5 key to terminate your AIRS session while the AIRS main menu is displayed. If you use any other PF or PA key, the message "NAT1011 REQUESTED FUNCTION KEY NOT ALLOCATED" is displayed at the top of the screen. Use one of the allowed keys.

See Section 3 for more detailed information on the batch standard reports. Section 4 contains descriptions of the Site and Monitor reports, and Section 5 contains descriptions of the AQ Data Reports. See Section 6 for more detailed information on the on-line standard reports.

```
02/22/90                    AIRS Air Quality Subsystem                    AAP000A
                                 Main Menu

                        1.  Submit Data
                        2.  Retrieve Data - Standard Batch
                        3.  Retrieve Data - Ad Hoc Batch
                        4.  Browse Data - Online

                    Please enter selection:  2


                                NEED ASSISTANCE?
                          CALL THE AQS HOTLINE AT 1-800-333-7909


PF3=end(profile)                PF4=subsystem menu                PF5=terminate
```

```
03/19/93                    AIRS Air Quality Subsystem                    AMP210
                                 Report Selection

 1.  AMP220 - Monitoring Network          13.  AMP440 - Maximum Values
 2.  AMP230 - Frequency Distribution      14.  AMP450 - Quick Look
 3.  AMP240 - P/A RO Summary              15.  AMP950 - Screening File Listing
 4.  AMP275 - SLAMS Data Generation       16.  AMP260 - Reduced Freq. Dist.
 5.  AMP280 - SLAMS Data Retrieval        17.  AMP300 - Violation Day Count
 6.  AMP282 - Summary Data Extract        18.  AMP310 - Inventory
 7.  AMP350 - Raw Data Listing            19.  AMP410 - Poll. Standard Index
 8.  AMP355 - Standards                   20.  AMP420 - Fact Book
 9.  AMP370 - Raw Data Conversion         21.  AMP460 - Pollutant Data Summary
10.  AMP380 - Site Description Inv.       22.  AMP245 - P/A Monitor Summary
11.  AMP390 - Site Monitor Status         23.  AMP250 - P/A Monitor Raw Data
12.  AMP430 - Data Completeness           24.  AMP225 - PAMS Monitoring Monitor

                Please enter Report Selection              : 1_
                Please enter Criteria Name, ? or * (Optional): _____

?=user criteria    *=public criteria    PF3=end    PF4=main menu    PF5=terminate
```

Figure 2-14. The AQ Data Retrieval Subsystem (Report Selection) Menu
The AQ report selection menu appears after selecting option 2 of the main menu.

2.9.5 AQ Report Selection Menu

Use the AQ report selection menu screen to select which AQ standard report to generate. Optionally, you may enter the name of report specifications you saved previously if you want to use them with the report you selected.

The report selection menu is shown at the top of Figure 2-15. The first two lines identify the screen and give the date and program name (AMP210). The middle part of the screen lists the available standard reports in order of program name. Under the report names are the two fields for selecting a report and entering the name of saved report specifications, or "criteria". The last line of the screen lists the PF keys you may use and indicates their functions.

Follow these instructions for using the AQ report selection menu:

1. After the prompt "Please enter Report Selection", type the sequence number of the report you want to generate. For example, type "5" to select the SLAMS Data Retrieval Report (AMP280). You do not have to type a leading zero for numbers less than 10.

2. If you previously saved report criteria and want to use them with the selected report, type the name you gave the criteria after the prompt "Please enter Criteria Name, ? or * (Optional)". To see a list of available names, type "?" after the prompt. To see a list of available names that have been saved to the Public Criteria file, type "*" after the prompt. Do not enter a name for the new report criteria you intend to save during the session; use this field only for entering the name of existing criteria you have already saved, or to inquire about the names of existing criteria. You may not enter the name of reporting criteria that were saved to the Public Criteria file at the prompt. The names in the Public Criteria file can only be accessed by typing an '*'.

3. Press the ENTER key.

4. If your specifications for report selection number and criteria name were correct, the next screen will be displayed. This may be a report options screen, as shown at the bottom of Figure 2-15; a report criteria screen, as shown in Figure 2-16; or a job submission screen, as shown in Figure 2-18.

5. If you did not enter a valid report selection number, the terminal alarm beeps and the message "PLEASE ENTER A VALID REPORT SELECTION" appears at the top of the screen. Carefully type a valid selection number and press ENTER.

6. If the name you entered for report criteria does not match any you have saved previously, the terminal alarm beeps and the message "THIS CRITERIA NAME IS NOT ON FILE" appears at the top of the screen. Type the correct name or erase the name from the screen and press ENTER.

You may use the PF3, PF4, or PF5 keys to exit from the report selection screen without selecting a standard report. Both PF3 and PF4 return you to the AIRS AQS main menu. PF5 terminates your AIRS session.

```
03/19/93                    AIRS Air Quality Subsystem                    AMP210
                              Report Selection

 1.  AMP220 - Monitoring Network          13.  AMP440 - Maximum Values
 2.  AMP230 - Frequency Distribution      14.  AMP450 - Quick Look
 3.  AMP240 - P/A RD Summary              15.  AMP950 - Screening File Listing
 4.  AMP275 - SLAMS Data Generation       16.  AMP260 - Reduced Freq. Dist.
 5.  AMP280 - SLAMS Data Retrieval        17.  AMP300 - Violation Day Count
 6.  AMP282 - Summary Data Extract        18.  AMP310 - Inventory
 7.  AMP350 - Raw Data Listing            19.  AMP410 - Poll. Standard Index
 8.  AMP355 - Standards                   20.  AMP420 - Fact Book
 9.  AMP370 - Raw Data Conversion         21.  AMP460 - Pollutant Data Summary
10.  AMP380 - Site Description Inv.       22.  AMP245 - P/A Monitor Summary
11.  AMP390 - Site Monitor Status         23.  AMP250 - P/A Monitor Raw Data
12.  AMP430 - Data Completeness           24.  AMP225 - PAMS Monitoring Network

                Please enter Report Selection              :1_
                Please enter Criteria Name, ?, or * (Optional):_____

?=user criteria    *=public criteria    PF3=end    PF4=main menu    PF5=terminate
```

```
11/19/90                    AIRS Air Quality Subsystem                   AMP220A
                              Report Options

Report Name:  MONITORING NETWORK                    Criteria Name:

                        Enter X for desired Option(s)

          Choose at least one output

          X 1.  Generate a printed report
          _ 2.  Generate a workfile (Enter name below):
                KUFASWD . _____ . _____ . _____ . _____

   PF3=end      PF4=main menu      PF5=terminate      PF9=save criteria
```

Figure 2-15. Using the AQ Report Selection Menu
The report options screen appears after choosing a report from the menu.

When you enter "?" on the report selection screen, a report criteria screen appears. A sample of the screen is shown at the bottom of Figure 2-16.

The report criteria screen displays all the names of existing criteria that you have previously saved. Included for each name are the date of last access and the program number and name for which the criterion was created.

The line just above the PF key designations is used to indicate where you are in the list. If you do not have any criteria names saved, the message "NO CRITERIA NAMES AVAILABLE" appears. If there are more names to be displayed, the message "MORE CRITERIA NAMES" appears. If the last criteria name is displayed on the current screen, the message "END OF CRITERIA NAMES" appears.

The PF7 and PF8 keys are used to "page" forward and backward if there are multiple screens to be displayed. PF7 is used to go to the previous screen, and PF8 is used to go to the next screen. If PF7 is pressed on the first screen, the message "PF7 INVALID - THIS IS THE FIRST REPORT CRITERIA SCREEN" appears at the top of the screen. If PF8 is pressed on the final screen, the message "PF8 INVALID - THIS IS THE FINAL REPORT CRITERIA SCREEN" appears at the top of the screen.

You may select any one criteria name listed by placing an 's' in the column labeled 'O' next to the desired criteria name and pressing ENTER. Either the Submit Report Option or the Report Options Screen will be displayed, depending on whether the selected criteria are completely valid.

You may also delete any number of criteria names by placing a 'd' beside the selected criteria names(s) and pressing ENTER, PF3, PF4, or PF5. Pressing ENTER will take you to a blank Report Options Screen after the selected criteria name(s) are deleted.

You may enter both an 's' and one or more 'd's to delete multiple criteria names while selecting one criteria name. When ENTER is pressed, all names marked with 'd' will be deleted and the Report Options Screen or Submit Report Option Screen will be displayed with data from the select criteria name.

You may use the PF3, PF4, or PF5 keys to exit from the report criteria screen. PF3 returns you to the report selection menu. PF4 returns you to the AIRS AQS main menu. PF5 terminates your AIRS session.

```
03/19/93                    AIRS Air Quality Subsystem                    AMP210
                                Report Selection

 1.  AMP220 - Monitoring Network          13.  AMP440 - Maximum Values
 2.  AMP230 - Frequency Distribution      14.  AMP450 - Quick Look
 3.  AMP240 - P/A RO Summary              15.  AMP950 - Screening File Listing
 4.  AMP275 - SLAMS Data Generation       16.  AMP260 - Reduced Freq. Dist.
 5.  AMP280 - SLAMS Data Retrieval        17.  AMP300 - Violation Day Count
 6.  AMP282 - Summary Data Extract        18.  AMP310 - Inventory
 7.  AMP350 - Raw Data Listing            19.  AMP410 - Poll. Standard Index
 8.  AMP355 - Standards                   20.  AMP420 - Fact Book
 9.  AMP370 - Raw Data Conversion         21.  AMP460 - Pollutant Data Summary
10.  AMP380 - Site Description Inv.       22.  AMP245 - P/A Monitor Summary
11.  AMP390 - Site Monitor Status         23.  AMP250 - P/A Monitor Raw Data
12.  AMP430 - Data Completeness           24.  AMP225 - PAMS Monitoring Network

                Please enter Report Selection              :1_
                Please enter Criteria Name, ?, or * (Optional):?____

?=user criteria    *=public criteria    PF3=end    PF4=main menu    PF5=terminate
```

```
11/19/90                    AIRS Air Quality Subsystem                    AMP210
                               Report Criteria for User BLY

                          Date of Last
0     Criteria Name         Access                  Report Name
-       Test1               01/19/93        AMP220 - Monitoring Network
-       Test2               01/31/93        AMP350 - Raw Data Listing
-       Test3               02/15/93        AMP220 - Monitoring Network

END OF CRITERIA NAMES                                      Page   1 OF   1
s=select d=delete   PF3=end    PF4=main menu    PF5=terminate  PF7=back  PF8=more
```

Figure 2-16. The Report Criteria Screen (User)
This screen appears when a "?" is entered in the criteria name field.

When you enter "*" on the report selection screen, a report criteria screen appears. A sample of the screen is shown in Figure 2-17.

The report criteria screen displays all the names of existing criteria that have been saved to the Public Criteria file. Included for each name are the date of last access and the program number and name for which the criteria was created.

The line just above the PF key designations is used to indicate where you are in the list. If there are no criteria names saved in the Public Criteria file, the message 'NO CRITERIA NAMES AVAILABLE' appears. If there are more names to be displayed, the message 'MORE CRITERIA NAMES' appears. If the last criteria name is displayed on the current screen, the message 'END OF CRITERIA NAMES' appears.

The PF7 and PF8 keys are used to "page" forward and backward if there are multiple screens to be displayed. PF7 is used to go to the previous screen, and PF8 is used to go to the next screen. If PF7 is pressed on the first screen, the message "PF7 INVALID - THIS IS THE FIRST REPORT CRITERIA SCREEN" appears at the top of the screen. If PF8 is pressed on the final screen, the message "PF8 INVALID - THIS IS THE FINAL REPORT CRITERIA SCREEN" appears at the top of the screen.

You may select any one criteria name listed by placing an 's' in the column labeled 'O' next to the desired report name and pressing ENTER. The Report Options Screen will be displayed.

You may view the user information by placing a '?' in the column labeled 'O' next to the Criteria Report Name. When ENTER is pressed, a window will appear on the screen displaying the name and telephone number of the user who saved the criteria to the Public Criteria file. To continue, press ENTER and the Report Criteria Screen will be redisplayed.

If the ADBA password was entered on the User Profile Screen, the user may delete criteria from the Public Criteria file. You may delete any number of criteria names by placing a 'd' beside the selected criteria name(s) and pressing ENTER, PF3, PF4, or PF5. Pressing ENTER will take you to a blank Report Options Screen after the selected criteria name(s) are deleted.

You may enter both an 's' and one or more 'd's to delete multiple criteria names while selecting one criteria name. When ENTER is pressed, all names marked with 'd' will be deleted and the Report Options Screen will be displayed with data from the select criteria name.

You may use the PF3, PF4, or PF5 keys to exit from the Report Criteria Screen. PF3 returns you to the Report Selection menu. PF4 returns you to the AIRS AQS main menu. PF5 terminates your AIRS session.

```
03/19/93                    AIRS Air Quality Subsystem                    AMP210
                              Report Selection

 1.  AMP220 - Monitoring Network          13.  AMP440 - Maximum Values
 2.  AMP230 - Frequency Distribution      14.  AMP450 - Quick Look
 3.  AMP240 - P/A RO Summary              15.  AMP950 - Screening File Listing
 4.  AMP275 - SLAMS Data Generation       16.  AMP260 - Reduced Freq. Dist.
 5.  AMP280 - SLAMS Data Retrieval        17.  AMP300 - Violation Day Count
 6.  AMP282 - Summary Data Extract        18.  AMP310 - Inventory
 7.  AMP350 - Raw Data Listing            19.  AMP410 - Poll. Standard Index
 8.  AMP355 - Standards                   20.  AMP420 - Fact Book
 9.  AMP370 - Raw Data Conversion         21.  AMP460 - Pollutant Data Summary
10.  AMP380 - Site Description Inv.       22.  AMP245 - P/A Monitor Summary
11.  AMP390 - Site Monitor Status         23.  AMP250 - P/A Monitor Raw Data
12.  AMP430 - Data Completeness           24.  AMP225 - PAMS Monitoring Network

                Please enter Report Selection              :7_
                Please enter Criteria Name, ?, or * (Optional):*_____

?=user criteria    *=public criteria    PF3=end    PF4=main menu    PF5=terminate
```

```
11/19/93                    AIRS Air Quality Subsystem                    AMP210
                          Report Criteria for AQS Public File

                                        Date of Last
O      Report Name                        Access          Criteria Name
-  AMP350 - Raw Data Listing             01/22/93          GSPTEST1
-  AMP350 - Raw Data Listing             01/22/93          GSPTEST2
-  AMP350 - Raw Data Listing             01/22/93          GSP1234
-  AMP350 - Raw Data Listing             01/25/93          PKBNEW
-  AMP350 - Raw Data Listing             01/22/93          YWCTEST1

END OF CRITERIA NAMES                                        Page   1 OF    1
s=select   ?=info   PF3=end   PF4=main   PF5=terminate   PF7=back   PF8=more
```

Figure 2-17. The Report Criteria Screen (Public) (1 of 2)
This screen appears when an "*" is entered in the criteria name field.

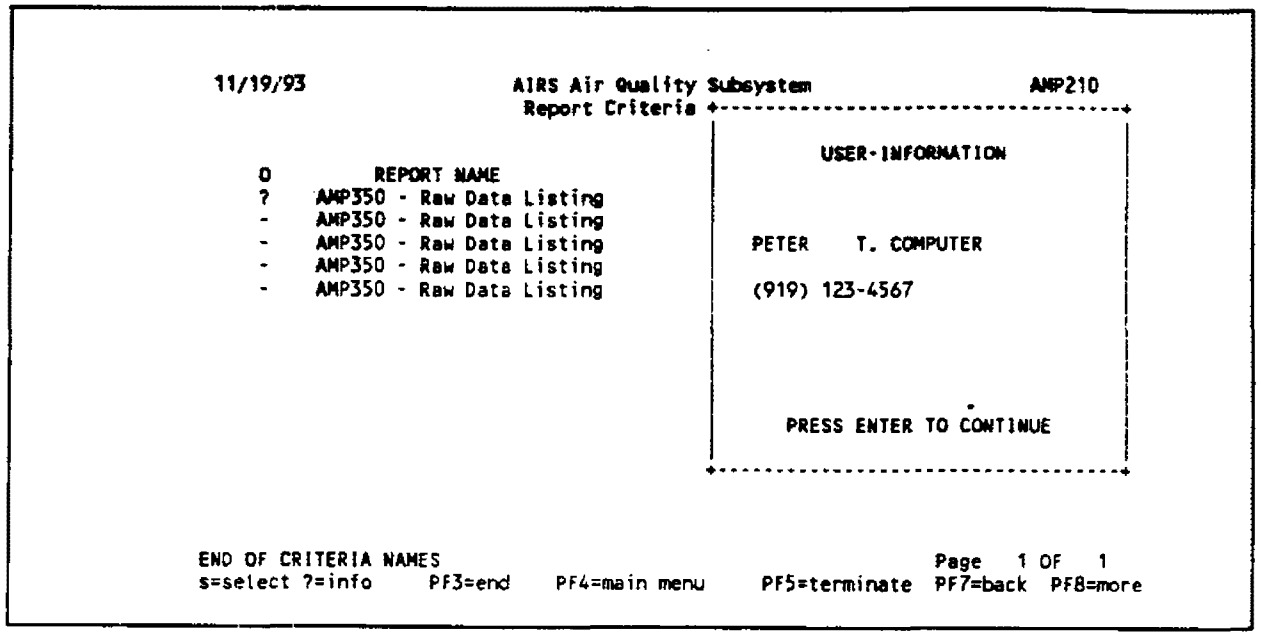

Figure 2-17. The Report Criteria Screen (Public) (2 of 2)
This screen shows the User-Information overlay.

When you enter the name of saved report specifications on the report selection screen, the report selection program determines whether the saved specifications are valid for the report you selected. (Extra information saved with each set of specifications includes the report they were used with last and whether they had been validated completely for that report when they were saved.) If the saved specifications are valid for the selected report, the "submit report option" screen appears. A sample of the screen is shown at the bottom of Figure 2-18. (Note: This is not an option with criteria from the Public Criteria File.)

The submit report screen allows you to generate a report using the saved criteria exactly as they are, without any changes. If you choose to do that, you do not have to page through the screens for report options, selection criteria, sorting criteria, or JCL parameters. A batch job is submitted to generate the report and the criteria disposition screen appears. In other words, if you select the submit report option, you skip four steps in the normal procedure for submitting a standard report. If you do not select the option, the normal procedure resumes and the report options screen for the selected report appears.

To select or reject the submit report option, follow these instructions:

1. Type your selection after the question "Submit JOB without changing criteria (Y or N)?" Type "y" if you want to use the saved report specifications as they are. Use the default "n" if you do not want to view the saved criteria and have the opportunity to change them.

2. Press the ENTER key.

If you entered "y", the criteria disposition screen will appear and show you the job number of the batch job submitted. If you entered "n", the report options screen will appear with the saved report options displayed.

If you entered anything other than "y" or "n", the error message "PLEASE ENTER 'Y' OR 'N'" appears at the top of the screen. Carefully type one of those responses and press the ENTER key, or use one of the valid PF keys to abort the report selection process.

You may use the PF3, PF4, or PF5 keys to abort the report selection process and to exit from the submit report screen without submitting a batch job. PF3 returns you to the report selection menu. PF4 returns you to the AIRS AQS main menu. PF5 terminates your AIRS session.

```
01/18/91                    AIRS Air Quality Subsystem                    AMP210
                              Report Selection

 1.  AMP220 - Monitoring Network          13.  AMP440 - Maximum Values
 2.  AMP230 - Frequency Distribution      14.  AMP450 - Quick Look
 3.  AMP240 - P/A RO Summary              15.  AMP950 - Screening File Listing
 4.  AMP275 - SLAMS Data Generation       16.  AMP260 - Reduced Freq. Dist.
 5.  AMP280 - SLAMS Data Retrieval        17.  AMP300 - Violation Day Count
 6.  AMP282 - Summary Data Extract        18.  AMP310 - Inventory
 7.  AMP350 - Raw Data Listing            19.  AMP410 - Poll. Standard Index
 8.  AMP355 - Standards                   20.  AMP420 - Fact Book
 9.  AMP370 - Raw Data Conversion         21.  AMP460 - Pollutant Data Summary
10.  AMP380 - Site Description Inv.       22.  AMP245 - P/A Monitor Summary
11.  AMP390 - Site Monitor Status         23.  AMP250 - P/A Monitor Raw Data
12.  AMP430 - Data Completeness           24.  AMP225 - PAMS Monitoring Network

                Please enter Report Selection              : 14
                Please enter Criteria Name, ?, or * (Optional): JWB450__

 ?=user criteria    *=public criteria    PF3=end    PF4=main menu    PF5=terminate
```

```
01/18/91                    AIRS Air Quality Subsystem                    AMP210
                              Submit Report Option

Report Name:  QUICK LOOK                          Criteria Name:  JWB450

          Criteria Status:  CRITERIA ARE VALID FOR THIS REPORT

          Submit JOB without changing criteria (Y or N)?:  N




        PF3=end          PF4=main menu          PF5=terminate
```

Figure 2-18. The Submit Report Screen
This screen appears when saved criteria are valid for the selected report.
(Note: This is not an option for saved criteria from the Public Criteria File.)

2.9.6 AQ Browse Data Types Menu

The Air Quality Browse Data Types menu allows the user to select from the following types of data in order to generate an on-line report:

Site
Monitor
Summary
Hourly
Daily
Composite
History
P/A Reporting Organization Summary
P/A Monitor Summary
P/A Monitor Raw Data

The Browse Data Types menu, selection criteria screens, and on-line reports are described in Section 6.

3.0 Retrieve Air Quality Data

3.1 Overview

To access the RETRIEVE AIR QUALITY DATA option, select option 2 on the AIRS Main Menu. The overall procedures for generating the batch standard reports are described in this section. Figure 3-1 shows the interactive steps required to produce the batch standard reports. The batch standard reports that may be generated by using the RETRIEVE AIR QUALITY DATA options are described in Section 4, Site and Monitor Reports, and Section 5, AQ Data Reports.

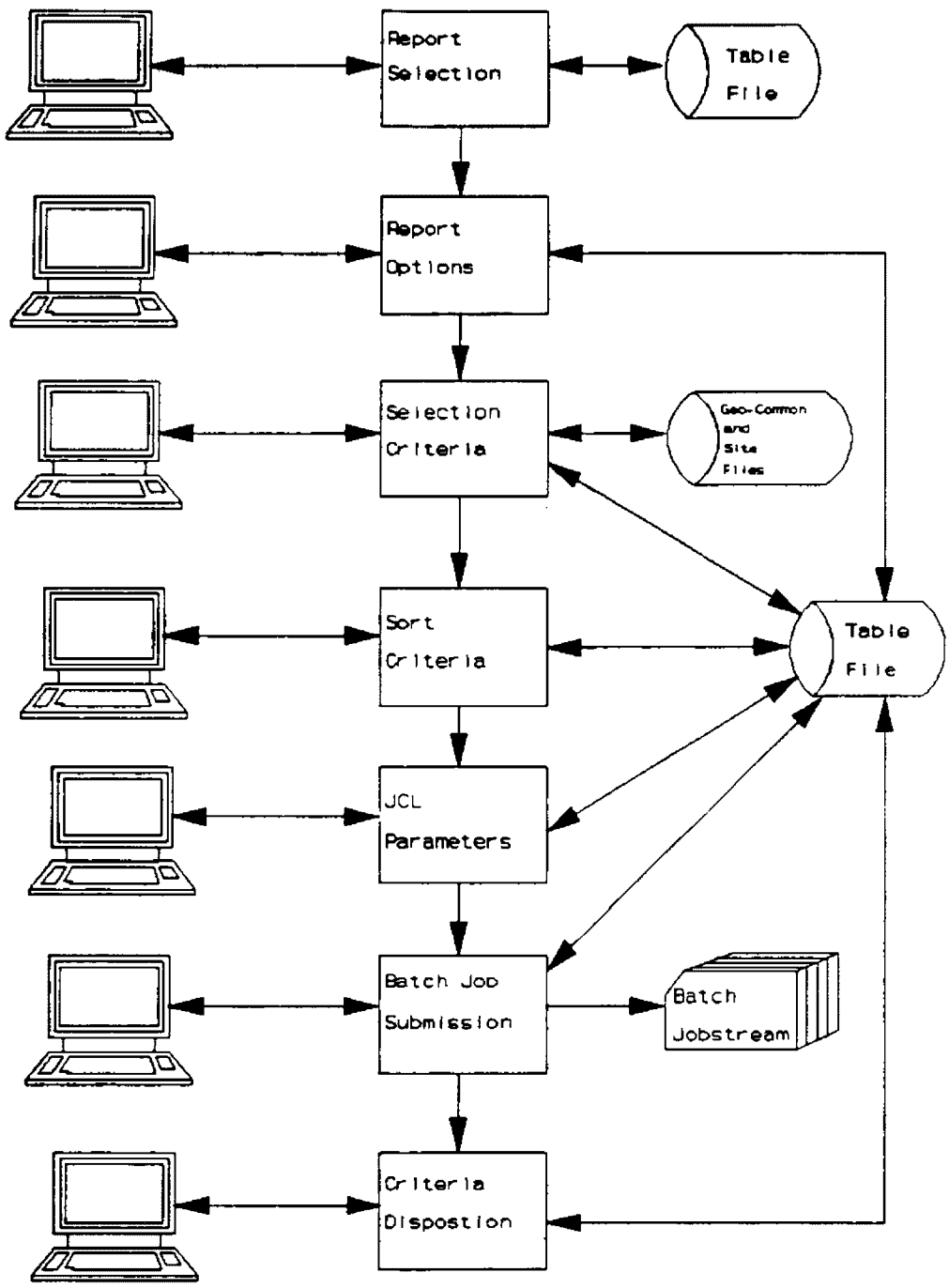

Figure 3-1. Interactive Steps in Batch Standard Report Generation Process

3.2 General Interactive Report Generation Procedures

Figure 3-1 illustrates the sequence of steps in the interactive part of batch standard report generation. The boxes in the figure represent the functions or processes involved. Each function has a screen that gives you instructions, accepts and checks your report specifications, and displays an error message if something is wrong. You cannot proceed to the next step in the online process until your specifications are valid. When you have correctly specified the information for one function, the next function is invoked automatically. You can back up to a previous function if you want to without losing any of the specifications you have entered in the current function. At any of the four steps involving report options through JCL parameters, you can abort the report generation request and return to the report selection step or skip to the criteria disposition step. This allows you to discard the partial report specifications or save them, as you wish.

The following paragraphs briefly describe each function and explain how it relates to the others. A detailed description of each screen and how to use it is presented below.

The report selection function is the starting point for all standard reports. Using the menu screen, you choose which standard report to generate and, optionally, enter the name of stored report specifications to be used with the selected report. If the stored specifications have already been validated for the report you select, you can choose to go directly from the report selection function to batch job submission and then to criteria disposition, bypassing the screens for report options, selection criteria, sort criteria, and JCL parameters. A batch job is submitted and a report is generated using the previously validated report specifications and JCL parameters.

Every standard report has options. Some are fairly simple, such as choosing whether to generate a printed report or a work file; others are more complicated. Most reports have a single screen for entering report options; a few with complicated options have two screens.

Selection of data for the standard reports is based on a fixed set of criteria that include geographic fields (state, county, site, city, AQCR, urban area), administrative information (reporting organization, monitor type), and monitoring data (parameter, method, interval, date). Each report has its own particular rules regarding which fields can be used, which ones are required, and which values can be specified for a given field. However, all of the reports conform to some general rules of usage for the selection criteria, and all of the screens for entering criteria have the same format and work the same way.

The data selection criteria function has a Help facility that describes the function and assists wtih entering of the required code values. Help is available for two purpose: (1) to provide online information about how to use the select criteria screen, and (2) to provide Field-specific Help in choosing specific codes for data or monitor selection. Selection criteria Help is described in detail in Section 3.6.4.

Sorting of data for standard reports is based on a fixed set of fields consisting of those used for data selection plus parameter occurrence code (POC) and EPA region. Each report has its own rules regarding which fields can be used and must be used, but there are general rules all reports adhere to, and all the screens for entering sort specifications look and work the same. All reports have a default sort order, displayed on the sort criteria screen, that arranges the data in a reasonable sequence. Some reports have a fixed sort order that you cannot change. In those cases there is no sort criteria screen at all, and you go directly from the selection criteria screen to the JCL parameters screen.

The next step is to establish the JCL specifications for the batch job that will generate the AQ standard report. The screen is the same for all reports. It includes such things as job name, account code, and job priority. There are default values for all items, which you may use or change.

The job submission function generates a batch jobstream based on your report and JCL specifications, then submits a batch job to generate the report. This function does not display a screen unless an error occurs during job submission, and that is an extremely rare event.

The last function of the online part of standard reports allows you to save your report specifications. After you indicate your choice on the criteria disposition screen, control returns to the report selection menu. You can select another report or exit from the AQ Retrieval Subsystem back to the AIRS main menu.

3.3 General Batch Report Generation Procedures

Figure 3-2 illustrates a typical sequence of events in the batch part of standard report generation. The boxes in the figure represent the functions or processes involved, which generally correspond to steps in the batch job. Unless an error occurs during the batch processing, each step executes in sequence. Each function generates a short report summarizing the processing it did. These "processing summary" reports can serve as an audit trail in case of ambiguities or problems with the standard reports. (The processing summary reports are not shown in Figure 3-2 to avoid cluttering the figure with too many symbols.)

The following subsections briefly describe each function and explain how it relates to the others.

3.3.1 Monitor Selection

Data in the AIRS database is organized around monitors. It is easier to retrieve data based on monitor-ID than on any other criterion. Therefore, the strategy used by all AQ standard reports is to identify which monitors satisfy your selection criteria, then select data for those monitors from the summary or raw data files.

The first step in the batch part of a standard report is creation of the Expanded Monitor file, which contains the monitor-ID of every monitor that satisfies your selection criteria for state, county, site, parameter, city, AQCR, urban area, reporting organization, monitor type, and date. (Only monitors that were active during some part of the date range you specify are selected.) Each record of the Expanded Monitor file contains the monitor-ID of a selected monitor; descriptive information about the monitoring site, since that information is used in most of the standard reports; and values for all the selection criteria fields, including the ones not used for selecting monitors (method and interval). The values stored in the record are either copied from your selection criteria or taken from the Site file. If a selected monitor was not active during the entire date range you specified, or if its monitor type matched your selection criteria for just part of the date range, then a corrected (shortened) date range is stored in the record in addition to the date range you specified. Subsequent data selection steps use only the corrected date range.

As an example of how the process works, suppose you wanted a report showing daily (24-hour) sulfur dioxide data reported by monitors in North Carolina during 1986. You would enter selection criteria specifying the appropriate codes for state, parameter, sampling interval, and date. The state, parameter, and date codes would be used to search the Site file for applicable monitors, and a record would be written in the Expanded Monitor file for each qualifying monitor. A record would contain the monitor-ID (state, county, site, parameter, and POC), city, AQCR, urban area, reporting organization, and monitor type taken from the Site file; the date range copied from your selection criteria and adjusted as necessary for the time the monitor was active; and the method and interval codes copied from your selection criteria. Note that the sampling interval you specified is not used to select monitors, nor would the sampling method be used if you had specified it. Your selection criteria for those fields are copied into the Expanded Monitor file so they can be used in the next phase of data selection. Each set of your selection criteria (each line of fields on the selection criteria screen) is processed separately to select monitors. Because of that, it is possible that the same monitor can be selected more than once if two or more sets of selection criteria have overlapping ranges.

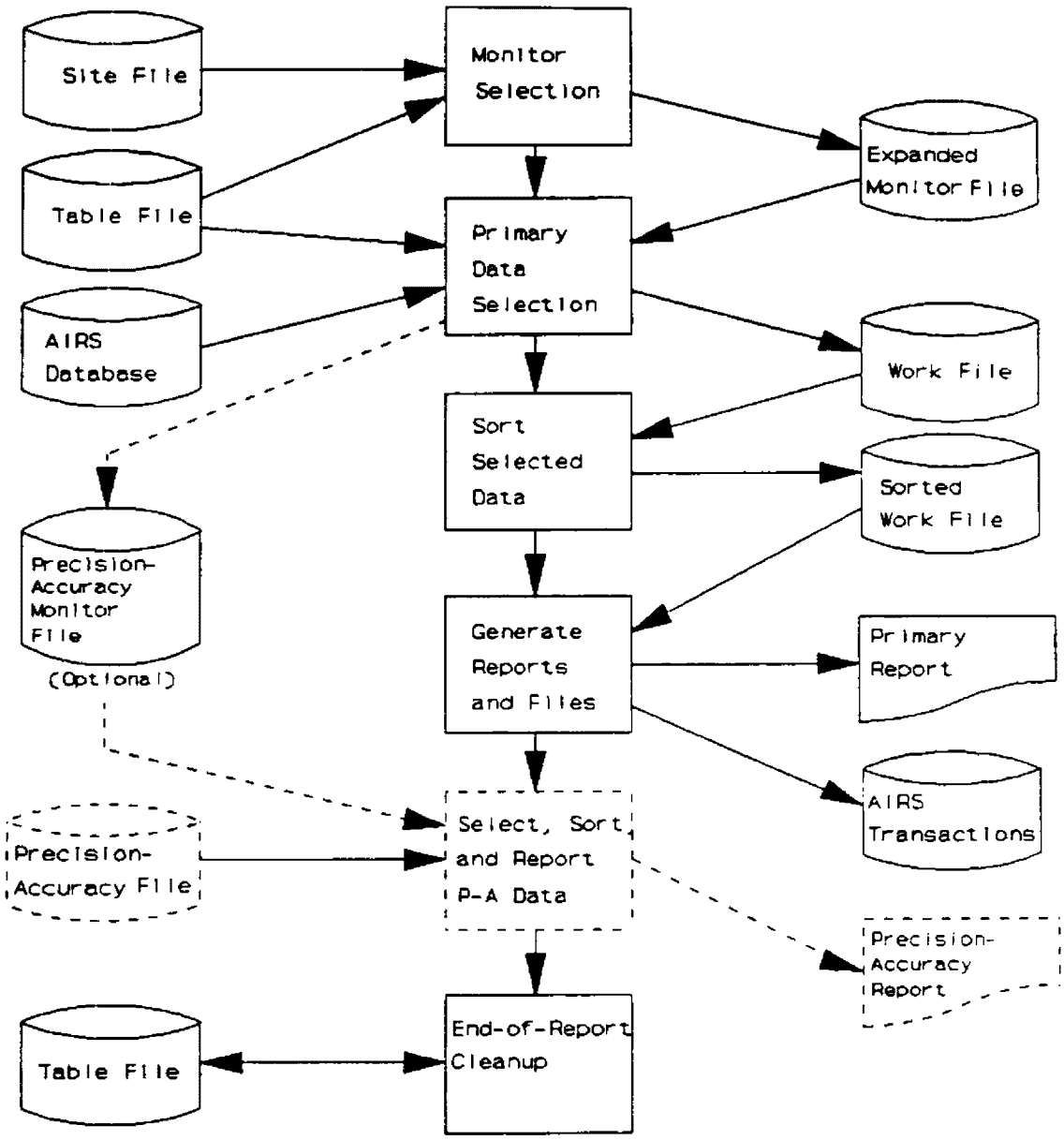

Figure 3-2. Batch Steps in Batch Standard Report Generation Process

The monitor extract program prints a report that summarizes the monitor selection process. The report lists each line of your selection criteria and indicates how many monitors were selected by those criteria. A sample of the report is shown in Figure 3-14.

3.3.2 Primary Data Selection

Selection of the primary data for a report is the next step in the batch job. (The Site and Monitor reports group, described in Section 4, do not include this step, since the Expanded Monitor file already includes the primary report data.)

The data selection program reads the Expanded Monitor file, selects data from the appropriate AIRS database file(s), and creates a Work file. Each record of the Expanded Monitor file specifies the monitor-ID, monitor type, sampling method and interval, and the date range for selection of raw data and/or summary data. Many data selection programs perform some kind of computations on or analysis of selected raw data values, and write the results in the Work file. For example, the SLAMS Data Generation report program derives the annual SLAMS summary statistics from raw data values and writes the summary statistics, rather than the raw data values, in the Work file. The kinds of data manipulation done by the data selection program depend on what is needed for a particular report. The object is to produce a self-contained Work file that a subsequent program can use to generate the report without any need to access information in the raw data or summary files of the AIRS database.

3.3.3 Sorting the Selected Data

Having created a Work file, the next step is to sort it. (For the Site and Monitor standard reports, the Expanded Monitor file serves as the work file, and it is sorted.) Sorting the data selected for a standard report serves two purposes. First, it arranges the information in an order that is compatible with the report format and suits your needs. Second, it ensures that there are no duplicate entries in the report. (Duplicates could occur if more than one of your independent sets of selection criteria caused selection of the same data.)

If you select generation of a work file as a report option, the sorted Work file is retained as a catalogued dataset and given the name you specified. Otherwise, the Work file is discarded at the end of the report generation batch job. (This is not the situation for the Site and Monitor reports and a few other reports. They generate a Work file during the report generation step if you requested it.)

3.3.4 Report Generation

The last main phase of a standard report batch job, after data selection and sorting, is generation of a printed report. The report generation phase may create another type of output in addition to (or instead of) a printed report, such as a file of AIRS input transactions.

The information appearing in a report comes primarily from the sorted Work file, but descriptions of codes or names of places obtained from the Geo-Common file may be used also. Generally, a record of the sorted Work file corresponds to a logical entry of the report, which may be a few lines or an entire page. Some report generation programs also derive simple summary statistics and print them at significant breaks in the report, such as state or EPA region summaries.

3.3.5 Precision-Accuracy Report Generation

An optional phase of some standard reports, selectable as a report option, is the generation of a Precision-Accuracy Report in conjunction with the primary report. The object is to provide information about the precision and accuracy of the data presented in the primary report. The primary report generates selection criteria for the Precision-Accuracy report, so both reports apply to the same monitors and time periods. Precision-Accuracy reports of either raw data values, monitor summaries or reporting organization summaries may be selected.

3.3.6 Cleanup

The final phase of a standard report generation is called "cleanup". When you request generation of an AQ standard report, the online programs create a "temporary" record in the Table file to hold your report specifications. The batch programs use that information to generate the report. Since the record is no longer needed after the report has been generated, the cleanup program deletes it from the Table file. It also creates a record for system usage monitoring. The cleanup report identifies which records were deleted and created.

3.4 Report Specifications

The term "report specifications" or "report criteria" refers to the selections and specifications you enter at your terminal that determine the content and characteristics of a batch standard report you generate. Report specifications include the criteria for selecting and sorting data; options that affect report format or the type(s) of files generated; and items pertinent to batch job submission, such as job name and job priority.

AIRS provides a way for you to save your report specifications and re-use them at another time if you wish. This capability allows you to generate several different standard reports using the same criteria (or nearly the same) without having to re-enter the specifications for each report. If you need to generate the same report periodically (say, monthly or quarterly) you can recall the saved criteria, make minor changes in the date selection, and submit the report without having to re-enter the other specifications.

When you save report criteria, they are stored in the AIRS Table File. A name you specify and your NCC-IBM user-ID are attached to the criteria to identify them. The name you give your criteria can be any combination of eight or fewer characters. Your saved criteria are separate from all other AIRS users' criteria, even if you and another user specify the same name for the criteria. Only you can retrieve your criteria and, therefore, you cannot retrieve any other user's saved criteria.

You may have saved numerous sets of Report Criteria under your user-ID. There also may be numerous sets of Report Criteria saved in the public file. Therefore, AIRS provides a way to list them by Criteria Name. To list the criteria names stored under your user-ID, type a "?" in the criteria name field of the Report Selection screen of AMP210. For a listing of the criteria names stored in the public criteria file, type an "*" in the Criteria Name field. You may scroll back and forth through multiple sets of criteria. Selection of a Report Criteria Name will take you directly to either the Report Options Screen, if the criteria are incomplete, or the Submit Report Options Screen, if the criteria are complete and valid.

You do not have to generate a report in order to save criteria. If you have entered only part of the specifications and an interruption occurs, you can save what you have entered. When you are ready to resume, you can recall the partial specifications, enter the rest of the criteria, and generate the report.

The identity of the report for which the criteria were entered and an indicator of their validity is stored with the criteria. If you recall criteria that have already been validated for the report you have selected, you have the option of submitting a batch job without even seeing the criteria. You can go directly to the job submission phase of your report request. If you recall criteria that are not validated or are for a different report, they must be validated for the current report before you can use them. Since each report has its own unique options, they cannot be shared among reports. When you recall report specifications saved for a different report, the saved report options are ignored and you must specify the options for the currently selected report.

3.5 Work Files

Every batch standard report allows you to generate a "work file" as an output if you wish. A few reports generate only a work file; a printed report is not available. Some reports produce two types of work files, one containing data in AIRS input transaction format and the other containing data in a format unique to the report. Volume AQ1 of the AIRS User's Guide shows the record formats of all the work files produced by the Air Quality standard reports. Volume AQ2 of the User's Guide describes the formats of AIRS input transactions.

A work file contains essentially the same information as the corresponding printed report. It has the same geographic codes, monitoring information (parameter, method, interval, units), dates, and reported values. Many work files also include the textual description of codes obtained from the Geo-Common file.

The purpose of a work file is to facilitate the transfer of information from the AIRS database to some other entity. For example, if you want to perform a statistical analysis of hourly carbon monoxide values, you could extract just the values of interest and create a work file using the Raw Data Listing standard report. Then you could use the SAS statistical analysis package to read the work file and analyze the data. This method of exporting data from AIRS is much simpler and more straightforward than, say, directing a "printed" report to a file and converting it to a format compatible with SAS.

The other type of work file, containing AIRS transactions, is intended for use with the AQ Data Storage subsystem. The ability to generate transactions from the data already in the AIRS database makes some kinds of updating easier. For example, one of the standard reports uses raw data values to generate AIRS transactions for loading or changing the annual summary data in the SLAMS file. Using the report to generate the transactions is much easier than computing the summary statistics and coding the transactions by hand.

3.6 Detailed Report Generation Procedures

This section tells how to use the screens for specifying options, selection criteria, sorting criteria, and JCL parameters for AQ batch standard reports; and how to save those specifications. Each report has its own rules governing the details of report specifications. This section explains the mechanics of using the screens, which are similar for all the standard reports.

3.6.1 Entering Report Options

The report options screen displays the report options available, which vary from program to program. The two screens shown in Figure 3-3 illustrate a simple and a complex set of options. The most common options are those shown on the "simple" screen, which pertain to the types of output that can be generated: printed report or work file. Other common options are generation of a file of AIRS input transactions and generation of the Precision-Accuracy Report (in conjunction with the primary report). Some options are mutually exclusive, others are not. The instructions for each report in Sections 4 and 5 explain what options are available and which ones can be selected together. Also see the following subsection for a discussion of dataset names.

Most reports have default options that you can use. The defaults are shown on the screen when it appears unless you are using report specifications for this report that you saved previously. In that case, the screen shows your saved report options, and gives the name of the saved criteria in the top right corner of the screen. (If the saved options are for a different report they are ignored and the defaults are displayed.)

When you have specified report options as you want them, press the ENTER key. The report options program validates your specifications. If they are correct, the selection criteria screen appears. If your specifications are incorrect, an error message appears at the top of the screen that tells you what is wrong. (The messages are listed with the report descriptions in Sections 4 and 5.) Fix the mistake and press ENTER again, or use a PF key to abort the report specification process.

The PF keys recognized by the report options screen and the resulting actions are:

PF3	return to the AQ report selection menu
PF4	return to the AIRS main menu
PF5	terminate the AIRS session
PF9	go to the criteria disposition function

Using any of these PF keys terminates your report request; a report will not be generated.

```
11/19/90                AIRS Air Quality Subsystem                AMP220A
                            Report Options

Report Name:  MONITORING NETWORK                    Criteria Name:

                        Enter X for desired Option(s)

                Choose at least one output

                X 1.  Generate a printed report
                _ 2.  Generate a workfile (Enter name below):
                      KUFASWD . _______ . _______ . _______ . _______



   PF3=end       PF4=main menu       PF5=terminate       PF9=save criteria
```

```
11/19/90                AIRS Air Quality Subsystem                AMP230A
                            Report Options

Report Name:  FREQUENCY DISTRIBUTION                Criteria Name:

                        Enter X for desired Option(s)

                Choose at least one output

                X 1.  Generate a printed report
                _ 2.  Generate a workfile (Enter name below):
                      KUFASWD . _______ . _______ . _______ . _______

                Choose one report type
                _ 3.  Yearly data                   _ 4.  Quarterly data

                Choose one retrieval option
                _ 5.  Include all data & flag data that fails Summary Criteria
                _ 6.  Include only data that meets Summary Criteria

                Choose desired report option
                _ 7.  Generate the Precision-Accuracy Report

   PF3=end       PF4=main menu       PF5=terminate       PF9=save criteria
```

Figure 3-3. Report Options Screens

3.6.2 Dataset Names

If you choose to generate a work file or a transaction file, you must enter a dataset name for it. If you do not specify a valid dataset name, the batch job for generating your report will fail. The report options program may not detect some errors in dataset names, so it is important that you specify the name carefully.

IBM dataset names consist of one or more parts, called qualifiers, each separated by a period. The NCC-IBM computer center requires that the first qualifier consists of your account code or your NCC user-ID and account code concatenated together. Subsequent qualifiers can be anything you choose as long as they meet these criteria:

- each qualifier has 1 - 8 characters
- the first character is a letter
- subsequent characters are either letters or numbers
- the complete dataset name has no more than 44 characters, including the periods separating qualifiers

The dataset name fields on report options screens allow entry of names with the format "iiiaaaa.name1.name2.name3.name4". The highest level qualifier "iiiaaaa", consisting of your NCC user-ID and account code, is fixed and you cannot change it. To specify a dataset name, you must enter an additional qualifier in the "name1" field. You may enter additional qualifiers in the "name2" through "name4" fields, as desired. The fields must be used in sequence; a "gap" is invalid. Each qualifier must begin with a letter and consist of one through eight letters or numerals; no special characters are allowed. Thus, AIRS dataset names always have at least two qualifiers, and they may have as many as five qualifiers. Figure 3-4 shows the format of AIRS dataset name.

All datasets created by the AQ Retrieval Subsystem are written on disk. Tape datasets cannot be created directly by standard reports, although disk files can be copied to tape, if necessary, with utility programs provided by the computer center.

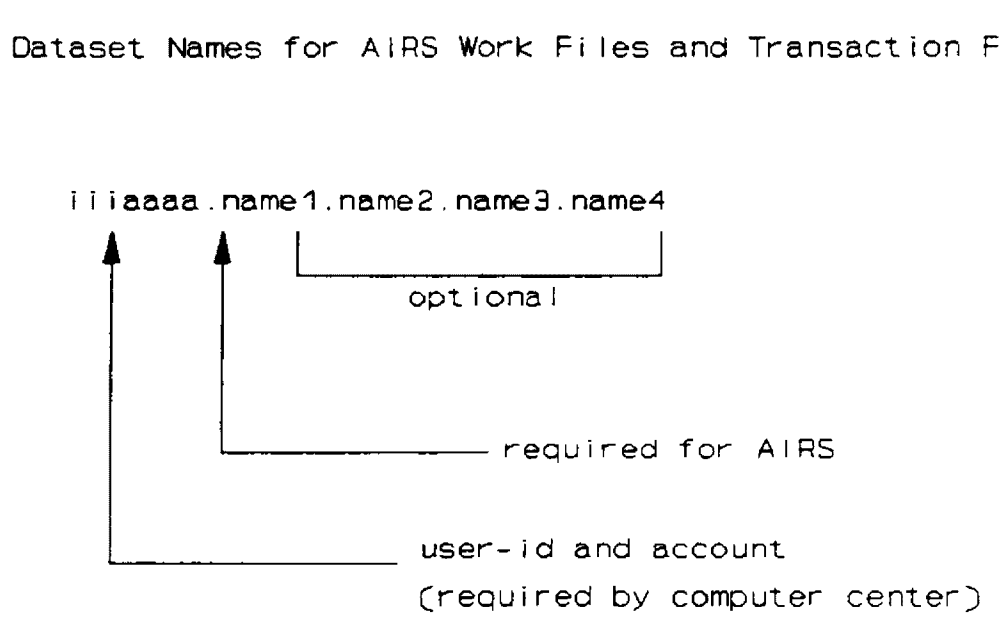

Figure 3-4. Format of AIRS Dataset Names

3.6.3 Entering Selection Criteria

The selection criteria screen displays the data fields on which you may request selection of data for the AQ standard reports. A sample selection criteria screen is shown in Figure 3-5. The left side of the screen is shown at the top of the figure and the right side is shown at the bottom. The format of the screen is the same for all standard reports. There are 11 lines of fields for entering selection criteria in the middle of the screen. The fields in each line are identified by the following headings:

ST	FIPS state code (2 digits) or FIPS state abbreviation (2 characters)
CNTY	FIPS county code (3 digits)
SITE	AIRS site code (4 digits)
PARAMETER	AIRS parameter code (5 digits)
METH	AIRS method code (3 digits)
INT	AIRS interval code (1 character)
BEGIN DATE	first date to be included in report
END DATE	last date to be included in report
MON TYPE	AIRS monitor type code (1 character)
CITY	FIPS place code (5 digits)
AQCR	Air Quality Control Region code (3 digits)
REP ORG	AIRS reporting organization code (3 digits)
URBAN AREA	urbanized area code (4 digits)
MSA	Metropolitan Statistical Area code (4 digits)
CMSA	Consolidated Metropolitan Statistical Area code (4 digits)
MSA REP	Metropolitan Statistical Area Represented (4 digits)
CMSA REP	Consolidated Metropolitan Statistical Area Represented (4 digits)
STATUS-AREA	Status Area code (5 characters)

For each report, the fields you can use for selection appear with underlines that show the field size. Fields that you may not use do not have underlines; you may not tab to them or enter values in them.

Online Help is available for all of the selection criteria fields except BEGIN-DATE, and END-DATE. You may invoke Field-specific Help by entering a "?" in the first position of any other selection criteria field. The Help facility allows you to browse through tables of values, with descriptions, for the codes you need to enter, and then to select the value that you wish to use. The Help facility is described in detail in Section 3.6.4.

The begin/end date fields have various formats, depending on the report. The formats are: YYMMDD (year-month-day), YYMM (year-month), YYQ (year-quarter), and YY (year). You must specify both begin date and end date to define an inclusive date range. Any data that meet other selection criteria and fall within the date range will be selected. The begin and end dates may be equal, but the end date cannot precede the begin date.

The other selection fields work a little differently. Leaving a field blank means that **any** value is acceptable. In effect, any field you leave blank is not used for selecting data. Entering a value in a field means that **only** that particular value is acceptable, and only data that match the value you enter will be selected. There is no "wildcard" capability. For example, it is **not** possible to select all pollutants whose

parameter codes begin with "44" by entering "44 " or "44***" or "44???". These are not legal specifications.

The selection criteria program checks each value you enter in the selection fields to ensure that you specify valid criteria. You must use the valid codes that are stored in the Geo-Common file. Volume GC2 of the AIRS User's Guide lists most of the codes and tells what they mean. (Also, you can generate standard reports of values in the Geo-Common file, such as county codes, using the instructions in Volume GC4 of the AIRS User's Guide or use the Online Help.) Some AQ standard reports allow use of the code "B" or "P" for monitor type, although that code is not in the Geo-Common file. The "B" means to select both NAMS and SLAMS monitor types. The "P" means to select all PAMS monitor types. If you enter a monitoring site-ID (state, county, and site fields), it must be in the AQ Site file.

In order to select data for secured monitors (see Section 2.3.2), you must specify "9" for monitor type. If you leave the monitor type field blank, the standard reports do not select any secured monitors. To select data for all monitors within a particular geographic area, you must use two lines of selection criteria that are identical except for monitor type. Leave monitor type blank in one line to select all non-secured monitor types, and code "9" in the other line to select secured monitors. (As discussed in Section 2.9.2, you also must supply a password to select data for secured monitors.)

Each program has its own rules about which selection fields are required and optional in a given line on the screen. A few rules are universally applicable, however, including the following:

1. The county, city, and reporting organization fields are meaningful only in combination with state. To use one of these fields, you must also use state.

2. The site field is meaningful only in combination with county and state. To use site, you must also specify county and state.

3. The method field is meaningful only in combination with parameter. If you use method, you must use parameter also.

4. End date may not precede begin date.

5. The begin date and end date fields must be completely filled. If these two fields have a YYMM format, for example, you must enter both year and month. Entering only year or only month is not valid.

6. Only certain combinations of "geographic" criteria are allowed. The report descriptions in Sections 4 and 5 list the permitted combinations.

7. The status area field is meaningful only in combination with parameter. If you use status area, you must use parameter also.

```
09/30/92                    AIRS Air Quality Subsystem                    AMP355B
                                 Select Criteria                          Page 1/2

Report Name:  STANDARDS                                   CRITERIA NAME:

                                                BEGIN  END
                                 PARA-                  DATE   MON                    REP  URBAN
  ST  CNTY  SITE                 METER  METH INT YYMM   YYMM   TYPE  CITY      AQCR   ORG  AREA
  __  ___   ____                 _____  ____ _  ____   ____   ____  ________  ____   ____ ____
  __  ___   ____                 _____  ____ _  ____   ____   ____  ________  ____   ____ ____
  __  ___   ____                 _____  ____ _  ____   ____   ____  ________  ____   ____ ____
  __  ___   ____                 _____  ____ _  ____   ____   ____  ________  ____   ____ ____
  __  ___   ____                 _____  ____ _  ____   ____   ____  ________  ____   ____ ____
  __  ___   ____                 _____  ____ _  ____   ____   ____  ________  ____   ____ ____
  __  ___   ____                 _____  ____ _  ____   ____   ____  ________  ____   ____ ____
  __  ___   ____                 _____  ____ _  ____   ____   ____  ________  ____   ____ ____
  __  ___   ____                 _____  ____ _  ____   ____   ____  ________  ____   ____ ____
  __  ___   ____                 _____  ____ _  ____   ____   ____  ________  ____   ____ ____

PF1=help  PF2=duplicate  PF3=end  PF4=main menu  PF5=terminate  PF6=rpt options
PF7=back  PF8=more       PF9=save criteria       PF10=left      PF11=right
```

```
09/30/92                    AIRS Air Quality Subsystem                    AMP355B
                                 Select Criteria                          Page 2/2

Report Name:  STANDARDS                                   CRITERIA NAME:

                                 MSA    CMSA   STATUS
  MSA   CMSA                     REP    REP    AREA
  ____  ____                     ____   ____   ____
  ____  ____                     ____   ____   ____
  ____  ____                     ____   ____   ____
  ____  ____                     ____   ____   ____
  ____  ____                     ____   ____   ____
  ____  ____                     ____   ____   ____
  ____  ____                     ____   ____   ____
  ____  ____                     ____   ____   ____
  ____  ____                     ____   ____   ____
  ____  ____                     ____   ____   ____

PF1=help  PF2=duplicate  PF3=end  PF4=main menu  PF5=terminate  PF6=rpt options
PF7=back  PF8=more       PF9=save criteria       PF10=left      PF11=right
```

Figure 3-5. Select Criteria Screen (1 of 2 -- Left Side; 2 of 2 -- Right Side)

While the fields within one line of selection criteria are interdependent, the lines are independent of each other. In logical terms, the fields within a line are ANDed, and the lines of criteria are ORed to derive the complete selection criteria for a report. For example, if you wanted to select sulfur dioxide data measured in North Carolina during 1986 with method codes 092 or 093, you would enter the codes for North Carolina, sulfur dioxide, and 1986 in two lines of criteria, and enter one of the method codes in each line.

If you need to, you can use as many as 55 lines of selection criteria. Five screens are available, each with 11 lines of criteria. The selection criteria fields are displayed on two screens. The PF11 key displays the rightmost select criteria screen and the PF10 key redisplays the leftmost select criteria screen. The last selection criteria entered on a screen can be duplicated with the PF2 key. When you have entered criteria in all the lines on a screen, you can page forward to another screen with the PF8 key. You can also page backward to a previous screen with the PF7 key. If you use the PF8 key after erasing all the values from one or more lines of a screen, the program fills the erased lines by moving up subsequent lines and displays the modified screen rather than paging forward. Lines are moved up from following screens to fill the lines at the bottom of the modified screen. Naturally, you cannot use the PF7 key to page backward from the first screen of criteria, and you cannot use the PF8 key to page forward from the last screen of criteria.

The program checks the validity of your selection criteria when you use the PF2, PF7, PF8, or ENTER key. When using the PF7 key, the program checks the criteria on the "destination" screen and ignores any errors on the current screen. Thus, you can always page backward, regardless of errors. Just the opposite holds for the PF8 and ENTER keys: you must correct any errors on the current screen before you can go to the next screen. For the PF8 key, the program checks the criteria on the current screen and the next screen; any errors on previous or subsequent screens are not detected and have no effect. For the ENTER key, the program checks all the criteria, and displays the first screen on which an error is detected.

The selection criteria program flags invalid fields by highlighting them. The erroneous fields look brighter than the valid fields. A message at the top of the screen explains the first error (in left-to-right, top-to-bottom order). An error message also may appear at the top of the screen if you do something wrong, such as using a PF key that is not defined for the selection criteria screen. The error messages are listed with the report descriptions in Sections 4 and 5.

Press the ENTER key to complete the entry of selection criteria and to proceed to the next function of the report (sort criteria or JCL parameters). Be careful not to use ENTER prematurely. For instance, suppose you have filled the first screen with criteria and you intend to enter more on a second screen, but you want to know if what you have entered so far is valid. You should use the PF8 key, not ENTER. If all your criteria are valid and you press ENTER, the selection criteria function will end and the sort criteria or JCL parameters screen will appear. (Of course, you can return to the selection criteria screen by using the PF6 key, so using ENTER prematurely is not a serious problem.)

The PF keys valid for the select criteria screen and the resulting actions are:

PF3	return to the AQ report selection menu
PF4	return to the AIRS main menu
PF5	terminate the AIRS session
PF9	go to the criteria disposition function
PF1	invoke the Help function
PF2	duplicate the last selection criteria
PF6	return to the report options function of this report
PF7	display the previous screen of selection criteria
PF8	display the next screen of selection criteria
PF10	display leftmost select criteria screen
PF11	display rightmost select criteria screen

Using the PF3, PF4, PF5, or PF9 key terminates your report request; a report will not be generated.

3.6.4 Select Criteria Help

Two levels of Help are available for the Select Criteria screen:

1. Screen Help, i.e., general information about how to use the Select Criteria screen.
2. Field-specific Help, i.e., assistance with identifiying and selecting the correct codes for STATE, COUNTY, SITE, PARAMETER, METHOD, INTERVAL, etc., that are required in order for the data you want to be selected correctly.

Screen Help is invoked by pressing PF1 (help). When PF1 is pressed from one of the Select Criteria screens, the first page of a two-page description of the Select Criteria function is displayed. More information is available by pressing PF8 (more) from the first Screen Help page. After the second page of the Screen Help is displayed, you may return to the first page by pressing PF7 (back). You may return to the Select Criteria screen by pressing PF3 (end) from either Screen Help page.

Field-specific Help is invoked by entering a "?" in the first position of an individual field and then pressing ENTER. Leave the other positions of the field blank. A "?" may not be entered for the BEGIN-DATE or END-DATE fields, since Help is not available for these fields. Figure 3-6 illustrates how the Select Criteria field might appear with question marks entered for several selection criteria fields.

You may enter question marks to request assistance for as many of the select fields as you need. The Help facility will process them one after the other without returning to the selection criteria screen until all the question marks on one line are processed.

Figure 3-6 contains a sample Select Criteria screen with question marks in several fields. Figure 3-7 contains three sample Help screens for STATE and COUNTY. Other Help screens are similar. Field-specific Help is based on the AIRS Geo-Common Browse facility, which is completely documented in Volume GC4 of the AIRS User's Guide. A description of each data field's Help screen is contained in Volume GC4.

Some features of the Field-specific Help screens are as follows:

PF3=end — Press PF3 to exit Help for one field at a time. If a "?" has been entered for more than one field on a line, control is passed to Help for the subsequent fields before it is returned to the Select Criteria screen.

PF7=prev — For Help screens with more than one page of entries, press PF7 to view a previous screen.

PF8=next — For Help screens with more than one page of entries, press PF8 to view subsequent screens.

PF9=display — Press PF9 to display information about one entry from the table you are viewing. Select the entry by entering its code or moving the cursor to the code, and then pressing PF9.

```
01/12/93                    AIRS Air Quality Subsystem                    AMP350B
                                Select Criteria                           Page 1/2

Report Name:  RAW DATA LISTING                          CRITERIA NAME:

                                                BEGIN    END
                        PARA-                   DATE     DATE   MON                REP  URBAN
 ST  CNTY  SITE         METER   METH  INT      YYMM     YYMM   TYPE  CITY   AQCR  ORG  AREA
 wi  ?__   ?___         ?____   ___     1      9201     9212   _     _____  ___   ___  ___
 __  ___   _____        _____   ___   __       ____     ____   _     _____  ___   ___  ___
 __  ___   _____        _____   ___   __       ____     ____   _     _____  ___   ___  ___
 __  ___   _____        _____   ___   __       ____     ____   _     _____  ___   ___  ___
 __  ___   _____        _____   ___   __       ____     ____   _     _____  ___   ___  ___
 __  ___   _____        _____   ___   __       ____     ____   _     _____  ___   ___  ___
 __  ___   _____        _____   ___   __       ____     ____   _     _____  ___   ___  ___
 __  ___   _____        _____   ___   __       ____     ____   _     _____  ___   ___  ___
 __  ___   _____        _____   ___   __       ____     ____   _     _____  ___   ___  ___
 __  ___   _____        _____   ___   __       ____     ____   _     _____  ___   ___  ___

PF1=help  PF2=duplicate  PF3=end  PF4=main menu  PF5=terminate  PF6=rpt options
PF7=back  PF8=more       PF9=save criteria       PF10=left      PF11=right
```

Figure 3-6. Sample Select Criteria Screen with Help Requested

```
01/12/93              AIRS Geographic/Common Subsystem              AAN502K
                                  State
 HELP --- HELP --- HELP --- HELP --- HELP --- HELP --- HELP --- HELP --- HELP

                Tab to selection or enter code; press ENTER
                        Enter State Code ==>  55

State   State                                  State   State
Code    Abbrev      State Name                 Code    Abbrev      State Name
 47       TN     TENNESSEE                     72       PR     PUERTO RICO
 48       TX     TEXAS                         78       VI     VIRGIN ISLANDS
 49       UT     UTAH                          80       MX     COUNTRY OF MEXICO
 50       VT     VERMONT                       88       NA     NATION
 51       VA     VIRGINIA                      99       Z1     NATION
 53       WA     WASHINGTON
 54       WV     WEST VIRGINIA
 55       WI     WISCONSIN
 56       WY     WYOMING
 60       AS     AMERICAN SAMOA
 66       GU     GUAM

PF3=end       PF5=terminate       PF7=prev       PF8=next       PF9=display
```

```
11/24/92              AIRS Geographic/Common Subsystem              AAN501G
                                 FIPS-Area
 HELP --- HELP --- HELP --- HELP --- HELP --- HELP --- HELP --- HELP --- HELP


      Required Criteria:

            State (code or abbreviation):  WI
                        select AREA TYPE:   X County  _ City


      Optional Criteria:

                                 Area Code:  ____
                        search AREA NAME for:  gr_______



PF1=help                        PF3=end                        PF5=terminate
```

Figure 3-7. Sample Help Screens (1 of 3, 2 of 3)

```
11/24/92              AIRS Geographic/Common Subsystem              AAN502G
                                  FIPS-Area
 HELP --- HELP --- HELP --- HELP --- HELP --- HELP --- HELP --- HELP --- HELP

                Tab to selection or enter code; press ENTER
                        Enter Selection ==>  01

State: 55  WISCONSIN                          Area Type: COUNTY

            Select     Area Code          Area Name
              01          043       GRANT CO
              02          045       GREEN CO
              03          047       GREEN LAKE CO




PF3=end       PF5=terminate       PF7=prev       PF8=next      PF9=display
```

Figure 3-7. Sample Help Screens (3 of 3)

Help uses the STATE field value to pre-select candidate values for COUNTY and CITY. It likewise takes the PARAMETER field value to pre-select candiate values for METHOD. It does this whether the STATE or PARAMETER values are obtained through direct user entry or through Help.

If you enter one or several question marks, and use Help to complete a valid Select Criteria specification, control returns to the Select Criteria screen with the valid entries displayed for your review. If the values displayed are correct, press ENTER to proceed to the next logical function, ususally Sort Criteria or JCL Parameters.

Error Messages

Screen Help

If you use a PF key not listed at the bottom of the screen or ENTER, the following message will be displayed:

PLEASE USE A VALID PF-KEY

Field-specific Help

Most error messages you will encounter while using Field-specific Help are generated by the AIRS Geo-Common Browse facility. Refer to Volume GC4 of the AIRS User's Guide for explanations of these messages.

3.6.5 Entering Sort Criteria

The sort criteria screen displays the sorting options available for the AQ standard reports. A sample sort criteria screen is shown in Figure 3-8. Some AQ standard reports have a fixed sort order and they do not display the sort criteria screen. In general, data can be sorted on the same fields used for selection. Most standard reports allow sorting on all or some of these fields:

state	reporting organization	method
county	urban area	interval
site	EPA region	monitor type
parameter	city	date
POC	AQCR	

These fields are listed on the sort criteria screen for nearly every standard report, although all of them may not be available for a particular report. Each field that you can choose as a sort criterion is preceded by a selection number. A field that you may not use for sorting appears on the screen with no selection number preceding it.

```
09/10/87                AIRS Air Quality Subsystem                AMP282C
                              Sort Criteria

Report Name:  SUMMARY DATA EXTRACT                  Criteria Name:

   1.  State                    6.  Reporting Org                Method
   2.  County                   7.  Urban Area              12.  Interval
   3.  Site                     8.  EPA Region              13.  Monitor Type
       Parameter                9.  City                         Date
   5.  POC                     10.  AQCR

 Enter the numbers of the Sort Elements above in the desired Sort Sequence:

                 01  02  03  05  13  12  __  __  __  __  __  __  __  __

 PF3=end    PF4=main menu    PF5=terminate    PF6=select criteria    PF9=save criteria
```

Figure 3-8. Sort Criteria Screen

To specify a sort order, enter the selection numbers of the sort criteria into the fields provided on the screen, then press the ENTER key. You must enter two digits for each selection number. The sequence in which you enter the numbers defines the sort order: the first (leftmost) number designates the primary sort field, the second number designates the secondary sort field, and so on. If you are entering new report specifications, the screen shows the selection numbers for the report's default sort order. If you are using previously saved specifications, the screen shows the saved sort order. As noted in Section 2, some criteria may be dropped from a saved sort order to make it conform to the rules of the report being generated.

When you press ENTER, the sort criteria program checks your specifications. If all your criteria are valid, the sort criteria function ends and the JCL parameters screen appears (see Figure 3-9). If an error is found, the sort criteria program displays a message at the top of the screen. Each standard report has its own rules regarding sort criteria. The rules and error messages are given with the report descriptions in Sections 4 and 5. These rules are universally applicable:

1. A sort criterion may be specified just once.
2. State must precede county, reporting organization, and city.
3. County or city must precede site.
4. Parameter must precede POC and method.

The sort criteria program may add criteria to the sort order you specify in order to ensure adequate sorting. If you choose sorting by state, city, and site, the program will automatically insert county into the sequence just before site. This is a convenience for users who are accustomed to the SAROAD system (one of AIRS's ancestors), in which the ID codes of monitoring sites sometimes consisted of state, city, and site codes. (In AIRS, monitoring sites are always identified by state, county, and site codes.)

The sort criteria program also may add sort fields at the end of your specification if your specification would not ensure the elimination of duplicate values from the report or would not result in a suitable order for the report. (You might forget to sort by date, for example.) Usually the program adds any fields in the default sort sequence that you did not specify. Since the added sort criteria are at the end of your sequence, they do not materially alter the order you requested.

If you use saved report specifications that you entered for a different report, the sort criteria program may alter the saved sort order to conform with the requirements of the current report. If the saved sort order includes fields that are not valid for the current report, they are dropped from the sort order. If the current report requires that certain fields be in fixed positions at the beginning of the sort sequence, the program replaces the fields in those positions of the saved sort order with the required fields.

Because of the features discussed above, you may notice changes on the sort criteria screen if you return to it from the JCL parameters screen using the PF6 key (see below). The sort order may include some criteria you did not enter. Similarly, if you use previously saved report specifications, the sort order you see on the screen might be different from the sort order you saved.

The PF keys valid for the sort criteria screen and the resulting actions are:

PF3	return to the AQ report selection menu
PF4	return to the AIRS main menu
PF5	terminate the AIRS session
PF6	return to the select criteria function of this report
PF9	go to the criteria disposition function

Using the PF3, PF4, PF5, or PF9 key terminates your report request; a report will not be generated.

```
07/08/87                AIRS Air Quality Subsystem                  AMP212
                      JCL Parameters for Batch JOB

Report Name:  PRECISION AND ACCURACY SUMMARY          Criteria Name:   < name >

              ENTER:    JOB Name          : TAD 240__
                        Account Code/UID  : ASWD AIRSP
                        Time (MMM , SS)   : ___ , 30
                        Priority          : 2
                        Message Class     : A
                        Number of Copies  : 01
                        Form Number       : ____
                        Room/Bin Number   : B044
                        Hold Output (Y/N): N
                        Printer Site Id   : RMTO_____________

                        Press ENTER to submit JOB

PF3=end  PF4=main menu  PF5=terminate  PF6=previous function  PF9=save criteria
```

Figure 3-9. JCL Parameters Screen

3.6.6 Entering JCL Parameters

The JCL parameters screen is the means by which you specify job control information for the batch job that will generate an AQ standard report. Figure 3-9 shows a sample JCL parameters screen. The screen format and the procedures for using it are the same for all reports.

Screen Description

The fields of the JCL parameters screen pertain exclusively to the JCL for the batch job. They all have default values that you can change if you desire. You can find more information about these fields in Section 4 of the NCC-IBM User's Guide.

JOB Name
is the eight-character job name for the batch job to be submitted. The first three characters are your user-ID and cannot be changed. The default value of the last five characters is the number of the standard report, such as "450" for the Quick Look Report (AMP450). You may change the last five characters of job name to any value consisting of letters and numbers. You may also leave this field blank, in which case the computer system assigns a two-digit job name.

Account Code/UID
is the NCC-IBM account to which the cost of the batch job will be charged. The initial value shown on the screen is what you specified for account code on the AIRS user profile screen or, if you are using saved report criteria, what you entered before saving the criteria. You can change the account to a different value, but it must be a valid code that you are authorized to use. The FIMAS code "AIRSP", appended to the account code, cannot be changed.

Time (MMM,SS)
is the maximum CPU time allowed for your batch job. You may change the default two minutes, zero seconds to another value so long as it is a valid job time. The amount of time specified affects when the job will run; jobs with shorter times generally run sooner than jobs with longer times. The NCC-IBM User's Guide explains the allowed formats of the job time parameter and the effect of job time on job scheduling. The default time of 2 minutes should be ample for most reports.

Priority
is a one-digit code that affects job scheduling and cost. The default value "2" is normal priority. You may specify a lower priority of "1" which causes a job to be executed at night and costs less, or you may specify higher priorities of "3" or "4" which cost more and may cause a job to execute sooner.

Message Class
is a one-character code that defines a category of printed output. The default value "A" is a general category. You may also use "F" to specify output to the laser printer at NCC.

Number of Copies

is the number of copies of batch job output to be printed. The default value is one; permissible values are 1 through 99.

Form Number

is a four-digit code for the type of paper your output is printed on, the number of lines printed per inch, and whether lower case letters are printed. The default value is blanks, which results in usage of the standard form (STD). For the local printers at NCC the standard form is 8381, for upper- and lower-case at eight lines per inch on 11 x 8.5-inch paper. Other common forms are 6311, for upper- and lower-case at six lines per inch on 15 x 11-inch paper. Be aware that remote printers probably cannot handle anything but the standard form. If you are directing output to a remote printer, select the standard form by leaving the form number field blank or entering "STD".

Room/Bin Number

is a four-character code used by the computer center for distribution of printed output to the appropriate location. The initial value shown on the screen is what you specified on the AIRS user profile screen or what you saved previously as part of report specifications. You may change it to another valid bin number.

Hold Output (Y/N)

is a yes/no field that specifies whether the output of your batch job is to be held in the output queue of the computer system (yes) or to be printed (no). The default value is "N" (no).

Printer Site Id

is the printer site-ID where the output of your batch job is to be printed. The initial value shown on the screen is what you specified on the AIRS user profile screen or what you saved previously as part of report specifications. You may change it to another valid printer site-ID, such as "LOCAL" or "R321". This field is not used if you specify "Y" for Hold Output, and may be blank in that case.

Instructions

When you have specified the information on the JCL parameters screen as you want it, press the ENTER key. The program checks each field of the screen. If it finds an error, it displays an error message at the top of the screen and positions the cursor to the invalid field. Correct the error and press the ENTER key again.

While the JCL parameters screen is displayed, you may use any of the following PF keys:

PF3	return to the AQ report selection menu
PF4	return to the AIRS main menu
PF5	terminate the AIRS session
PF6	return to the select criteria function of this report
PF9	go to the criteria disposition function

Using the PF3, PF4, PF5, or PF9 key terminates your report request; a report will not be generated.

Error Messages

The messages listed below may occur while the JCL parameters screen is displayed. Correct the error and press ENTER again or use one of the valid PF keys listed above to exit from the JCL parameters screen.

JOB NAME MUST BE ALPHANUMERIC
JOB Name can be blank or 1-5 letters and numbers with no intervening spaces or special characters such as "-".

PLEASE ENTER A PRIORITY OF 1, 2, 3, OR 4
The only valid values for priority are 1, 2, 3, or 4.

PLEASE ENTER A VALID MESSAGE CLASS
The message class must be a letter or a number. Usual values are A and F.

PLEASE ENTER AN ACCOUNT CODE
The account code cannot be blank. Enter a four-character code.

PLEASE ENTER AN ALPHANUMERIC PRINTER SITE-ID
The printer site-ID must be alphanumeric. Examples of valid site-IDs are RMT321 and LOCAL.

PLEASE ENTER TIME IN MINUTES, SECONDS
The minutes and seconds fields both contain zeros or spaces. At least one of these two fields must contain a valid numeric value greater than zero.

PLEASE ENTER VALID MINUTES
Minutes must be numeric in the range 000 through 999.

PLEASE ENTER VALID SECONDS
Seconds must be numeric in the range 00 through 59.

PLEASE ENTER "Y" OR "N"
Hold Output must be either "Y" to hold output or "N" to print output.

PLEASE USE A VALID PF-KEY
You used a PF key not defined for this screen.

ROOM/BIN NUMBER MUST BE ALPHANUMERIC
Room/Bin Number must consist of letters and numbers.

THE NUMBER OF COPIES MUST BE IN THE RANGE OF 1 TO 99
The NUMBER OF COPIES requested is not in the range of 01 through 99.

3.6.7 Batch Job Submission

The batch job submission program generates a batch jobstream to execute the programs required to generate a standard report according to your specifications. The jobstream contains the control cards (JCL) and other information need to execute programs for extracting and sorting data, and for generating the printed report and/or files you requested. Since the details of the jobstream are unique to each standard report, each one has its own job submission program.

If submission of the batch job occurs without error, the job submission program does not interact with you at all. It simply invokes the criteria disposition program after submitting the batch job. This is the normal course of events; errors in the job submission process are very rare.

Only if the job submission fails does the job submission program display a screen. A sample "job disposition" screen is shown in Figure 3-10. The screen briefly describes the error condition and suggests what you should do in order to proceed. There are basically two error conditions: the account number you used is not valid, or something is wrong with the "internal card reader", which is the part of the computer operating system that reads the submitted jobstream and turns it into a batch job. If the account code is wrong, you must return to the JCL parameters screen (via PF6) and correct it. If the internal card reader is busy, you may be successful if you try the job submission again (by pressing ENTER). If the internal card reader is "unavailable", trying again to submit the job is not likely to be fruitful; probably you will have to save your report specifications and try to generate the report at another time.

You can use the following PF keys to exit from the job disposition screen:

PF3	return to the AQ report selection menu
PF4	return to the AIRS main menu
PF5	terminate the AIRS session
PF6	return to the JCL parameters function
PF9	go to the criteria disposition function

Using any of these PF keys terminates your report request; a report will not be generated. Unless you use the PF9 key, your report specifications will not be saved.

Error Messages

The following error messages may appear on the job disposition screen:

INTERNAL CARD READER IS BUSY
PRESS ENTER TO RETRY

The internal card reader may be temporarily overloaded. Press the ENTER key to try the job submission again. If the failure persists, save your report specifications (use PF9) and try again at a later time.

INTERNAL CARD READER IS UNAVAILABLE
PRESS ENTER TO RETRY OR PF9 TO SAVE YOUR CRITERIA

Something is wrong with the internal card reader. Although you can try to submit the job again, that is unlikely to be successful. Save your report specifications (use PF9) and try again at a later time. You should inform the AIRS database administrator if this error occurs.

USER ACCOUNT CODE IS INVALID
PRESS PF6 TO CORRECT

The account code you specified is not valid for your user-ID. Return to the JCL parameters screen (use PF6) and specify a valid account code, or save your report specifications (use PF9) and correct the account at another time.

```
04/20/90                AIRS Air Quality Subsystem                  AMP450D
                             JOB Disposition

Report Name:  QUICK LOOK                          Criteria Name:  < name >

          UNABLE TO SUBMIT BATCH JOB

          <--------- error message ----------------------------------->









          <-------- action message ----------------------------------->

PF3=end  PF4=main menu  PF5=terminate  PF6=JCL parms  PF9=criteria disposistion
```

Figure 3-10. Job Disposition (Error) Screen

3.6.8 Criteria Disposition

The "criteria disposition" screen allows you to save your report specifications. The screen is displayed after a standard report batch job has been submitted, or after you interrupt the report submission process by pressing the PF9 key on one of the preceding report specification screens. A single program handles the criteria disposition function for all the standard reports.

There are two varieties of criteria disposition screen. Their formats are shown in Figure 3-11. The screen at the top of the page is used when you enter new report specifications. The bottom screen is for the occasions when you use previously saved report specifications. Both screens display a job status message. If a batch job was submitted, the message gives its job number, such as "job 5678 submitted". It is a good practice to record the job number in case you need to contact the computer center regarding the job. If you used the PF9 key to get to the criteria disposition screen, the status message says "job not submitted" to remind you that no report will be generated.

The screen for new report specifications is fairly simple. You just answer the question "Do you wish to save the criteria?" by typing "y" for yes or "n" for no. The default answer "n" is displayed on the screen; if you do not want to save the report specifications, simply press the ENTER key. To save your specifications, answer "y" and type a name for them in the field provided. The name may be any combination of 1-8 characters. If you answer "n", the name field must be blank.

The screen for previously saved report specifications has more options. First, you must specify what to do with the "current" criteria. (If you have altered the saved criteria after reading them in or if you are using them with a different report, the current criteria are different from the "original" criteria.) You can discard the current criteria, replace the original saved criteria with the current ones, or save the current criteria with a different name. You make your choice by placing an "X" in the field provided on the screen. The default is option 1, to replace the original criteria with the current set. If you choose option 2, you do not need to enter any other information on the criteria disposition screen. If you choose to save the current criteria with a new name (option 2), you must enter the new name in the field provided; otherwise the name field must be blank. If you choose to save the current criteria to the public file (option 3), the first three characters of the criteria name will default to your user-id and cannot be changed. The next five characters are available for you to enter. If you choose to save the current criteria to another user (option 4), enter their user-id in the field provided. The first three characters of the criteria name will default to your user-id and cannot be changed. The remaining five characters are available for you to enter.

```
02/10/93                AIRS Air Quality Subsystem                AMP213
                        Criteria Disposition

                    Report Name:  RAW DATA LISTING

                    JOB Status :  JOB NOT SUBMITTED

          Do you wish to save the criteria to your library (Y or N)?: N

                        Criteria Name: _______



     PF3=end          PF4=main menu          PF5=terminate
```

```
02/10/93                AIRS Air Quality Subsystem                AMP213
                        Criteria Disposition

Report Name:  RAW DATA LISTING                  Criteria Name:  RAWDATA

                    JOB Status: JOB 8869 SUBMITTED

          Select Disposition (X) Options for Current Report Criteria

          ___  Save with the same name in your library
               (Note - this replaces any criteria with the same name)
          ___  Save with different name in your library - create a new entry
                    Enter a new Criteria Name: _______
          ___  Save to public file with name: BLY____
          ___  Save to other User Identification Code: _______
                    Enter Criteria Name: BLY ____



     PF3=end          PF4=main menu          PF5=terminate
```

Figure 3-11. Criteria Disposition Screens
The top screen is for new criteria, the bottom screen for saved criteria.

Instructions

After entering your choices on either criteria disposition screen, press the ENTER key. If your entries are valid, the program saves and/or deletes and/or copies your report criteria, according to your specifications. If you made a mistake, an error message appears at the top of the screen. Correct the mistake and press ENTER again. The AQ report selection menu appears after your criteria disposition choices have been processed.

If you do not wish to specify the disposition of your report criteria, you can exit from the criteria disposition screen by pressing one of these PF keys:

PF3	return to the AQ report selection menu
PF4	return to the AIRS main menu
PF5	terminate the AIRS session

If you use any of these PF keys, the current report criteria are not saved and previously saved criteria are not affected. If you use any other PF key or PA key, an error message appears at the top of the screen and no action is taken with regard to disposition of report criteria. Note that you **cannot** use PF6 to back up to a previous screen.

Error Messages

The error messages listed below are displayed at the top of the criteria disposition screen if you make a mistake in specifying information.

Messages for the "New Criteria" Screen

DO NOT ENTER A CRITERIA NAME FOR OPTION 'N'
The criteria name must be blank if you choose not to save the report criteria.

PLEASE ENTER 'Y' OR 'N'
You must answer either "y" or "n" to the question "Do you wish to save the criteria (Y or N)?"

PLEASE ENTER A CRITERIA NAME
If you choose to save report criteria, you must enter a criteria name.

Messages for the "Saved Criteria" Screen

DO NOT ENTER A CRITERIA NAME FOR OPTION 1
Criteria name is not allowed for option 1 (save with the same name).

PLEASE ENTER ONE OR MORE CRITERIA DISPOSITIONS
The user must choose at least one option.

PLEASE ENTER THE CRITERIA DISPOSITION

If you enter a new criteria name for option 2 for the current criteria (create a new entry), you must also select that option.

PLEASE ENTER THE NEW CRITERIA NAME FOR YOUR LIBRARY

If you choose option 2 for current criteria (create a new entry), you must also enter a new criteria name.

PLEASE ENTER USER IDENTIFICATION CODE

If you choose option 4 for the current criteria (save to other), you must also enter a user's identification code.

PLEASE ENTER THE CRITERIA DISPOSITION

If you enter a user's identification code or a criteria name for option 4 for the current criteria (save to other), you must also select that option.

THIS CRITERIA NAME IS ALREADY SELECTED - PLEASE TRY AGAIN

If you choose option 1, you cannot enter the existing criteria name for option 2.

Messages for Both Screens

PLEASE USE A VALID PF-KEY

You used a PF key not defined for this screen.

THIS CRITERIA NAME IS ALREADY ON FILE - TRY AGAIN

The name you use when saving report criteria must be different from existing names. Enter a different name or choose a different option.

3.6.9 Error Handling

The programs for AQ standard report generation are designed to detect errors and take appropriate action. But there are some error conditions that either could not be anticipated during program design or cannot be "fixed" by you or the program. Such error conditions might arise due to a flaw in the program, internal problems with the database or NATURAL, or hardware malfunctions.

If one of these "abnormal" errors occurs while you are using the online AQ standard report programs, one of two things will occur. If the error condition is relatively benign, a message may appear at the top of the screen that includes "NATxxxx", where "xxxx" is a NATURAL error number. (This is similar to the message you get on some screens when you use an invalid PF key.) You should try to interpret the message and take the necessary action to correct the error.

If the error condition is serious enough to disrupt normal operation of the standard report program, the AIRS error screen shown in Figure 3-12 will appear. There is nothing you can do to recover from an error when this error screen appears. Write down the information on the screen (or print a screen image), press ENTER to return to the Subsystem Menu, and contact the AIRS database administrator. (See Volume AAI of the AIRS User's Guide for the phone number and address.)

```
07/13/87                    AIRS ERROR                    12:10:28

          An AIRS Program detected a NATURAL Error.
        Record the information shown below and call the ADBA.

        ERROR NUMBER: 82
        LINE NUMBER : 1630
        PROGRAM NAME: AMP440A
        Press ENTER to return to the Subsystem Menu
```

Figure 3-12. AIRS Error Screen

3.7 Report Validation Procedures

All the reports of the AQ Data Retrieval Subsystem are generated by batch jobs that use specifications you enter at your terminal for selecting and sorting data and for generating reports or files. This section explains how to tell when a batch job has executed and whether it completed its function successfully.

3.7.1 Checking Batch Job Status

There are no facilities within AIRS for monitoring the status of batch jobs you submit to generate AQ standard reports. The NCC computer center provides two programs, or "processors", that you can use for checking the status of batch jobs and for viewing the output before it is printed. These programs are SYSD and SDSF. Rudimentary instructions for using them are presented in the next two subsections.

3.7.2 Checking Batch Job Output

The primary means of determining whether a batch job executed successfully, and whether it did what you wanted it to, is the printed output of the job. This includes the information relating to job control, which is generated by the computer operating system, and information generated by the AIRS programs.

One of the first things you can check is the "JES2 job log", which is printed at the beginning of the output of all batch jobs. A sample job log is shown at the top of Figure 3-13. The format of the job log varies somewhat depending on the type of error and its cause, but if you see the word "abend" or a non-zero condition code (shown as "CC=S0C4", for example), there was an error of some type and the batch job probably was not successful. You should check the summary for each step of the job to determine when the error occurred. A sample step summary report is shown at the bottom of Figure 3-11. Contact the AIRS database administrator for help with finding the cause of the error and a way to avoid it.

If the error resulted from something you did wrong, such as specifying an invalid dataset name, re-submit the report using the correct specifications. If an ADABAS or NATURAL error occurs, contact the AIRS database administrator for assistance.

If your job appears to have been successful but no report is produced (or if the report doesn't look as expected -- less data or more than there "should be"), check the processing summary report produced by the AIRS programs and the SORT program. The reports produced by the monitor extract program (AMP215) and the report's data extraction program (AMPxxxEX) are probably the most useful. Samples of these reports are shown in Figure 3-14.

```
J E S 2  J O B  L O G  --  S Y S T E M  E P A G  --  N O D E  N C C I B M 1

14.35.53 JOB28006  ICM700011 CST      LAST ACCESS AT 14:35:52 ON WEDNES DAY, SEPTEMBER 29, 1993
14.35.53 JOB28006  $HASP373 CST275   STARTED - INIT 27 - CLASS W - SYS  EPAG
14.37.14 JOB28006  NCC8021 CST275   ENDED 09/29/93, CODE      0, ELAPSED      1:21, CPU      :06, EXCPS    1720
14.37.14 JOB28006  $HASP395 CST275   ENDED
------ JES2 JOB STATISTICS ------
    29 SEP 93 JOB EXECUTION DATE
          86 CARDS READ
       2,303 SYSOUT PRINT RECORDS
           0 SYSOUT PUNCH RECORDS
         248 SYSOUT SPOOL KBYTES
        1.37 MINUTES EXECUTION TIME



NCC902I ***************** U.S.EPA  SYSTEM EPAG - STEP SUMMARY *****************
NCC900I                                                                       *
NCC904I JOB28006 CST275   STEP AMP275S3.SORT                        CC:    0 *
NCC900I                                                                       *
NCC906I START 09/29/93 14:36:45   STOP 09/29/93 14:36:46  ELAPSED         :01 *
NCC900I                                                                       *
NCC908I TCB       :00.03, SRB       :00.00, VEC       :00.00   TOTAL      :00.03 *
NCC900I                                                                       *
NCC910I I/O COUNTS: DA        0, MT        0, OTHER         3  TOTAL           3 *
NCC900I                                                                       *
NCC912I I/O BY DDNAME(UNIT)         SORTIN(VIO):       1   SORTOUT(VIO):      2 *
NCC900I                                                                       *
NCC914I REGION USAGE:                              REGION REQUESTED       4096K *
NCC914I BELOW    52K, SYS  200K; ABOVE    152K, SYS  9524K; TOTAL       9928K *
NCC900I                                                                       *
NCC916I PAGING COUNTS:                                                        *
NCC916I  IN:        0, VIO       0, SWAP      0, HSPACE       0 TOTAL          0 *
NCC916I  OUT:       0, VIO       0, SWAP      0, HSPACE       0 TOTAL          0 *
NCC900I                                                                       *
NCC918I STEP CHARGES AT PRTY  2 (FACTOR=1)                                    *
NCC916I   CPU        :00.03 @  $564.00/HR                              $.00 *
NCC918I   I/O             3 @     $.12/1000                            $.00 *
NCC918I                                                             ---------- *
NCC918I                                              TOTAL COST:        $.00 *
NCC900I                                                                       *
NCC901I ***************************************************************************
```

Figure 3-13. Sample Batch Job Log and Step Summary Reports

```
DATE:  93/09/17                          ENVIRONMENTAL PROTECTION AGENCY                          PAGE:      1
AMP215                                AEROMETRIC INFORMATION RETRIEVAL SYSTEM

                                          MONITOR SELECTION REPORT

CARD                                                BEGIN    END    MON                    RPT   URBAN                MSA   CMSA  STAT | NUMBER
 NO.  ST  CNTY  SITE  PARAM  METH  INT              DATE     DATE   TYPE   CITY  AQCR      ORG   AREA   MSA   CMSA    REP   REP   AREA | SELECTED
 1    09        81102                              870101   901231                                                                      79

     SUMMARY:
                 1  SELECTION CARDS PROCESSED
                79  MONITOR RECORDS SELECTED


SLAMS DATA EXTRACTION (AMP275EX) ENDED ON 93/03/15 AT 14:41:34
000000164 RECORDS WERE READ FROM THE EXPANDED MONITOR FILE
000000004 RECORDS WERE WRITTEN TO THE WORK FILE
```

Figure 3-14. Sample Processing Summary Reports (1 of 2)

```
PLSORT OS SORT/MERGE  REL 6.3-2560E CST275  /AMP275S3/SORT     09/29/93 14:36:45
PLS052I SYSIN:
PLS341I:    SORT FORMAT=CH,FIELDS=(10,05,A,94,02,A,01,02,A,03,03,A,06,04,A,
PLS341I:    15,01,A,90,01,A)
PLS341I:    SUM FIELDS=NONE
PLS034I SORTIN LRECL = 684, RECFM = FB, BLKSIZE = 6840
PLS104I MEMORY USED 188K, RESERVED 8K
PLS313I RCD LENGTH IN 684, OUT 684
PLS034I SORTOUT LRECL = 684, RECFM = FB, BLKSIZE = 6840
PLS095I USABLE SORTWORK PRIMARY SPACE = 5,629,800 BYTES, INCLUDING 511,800 IN HIPERSPACE
PLS096I NMAX ESTIMATE = 8,230 RCDS
PLS081I END INCORE SORT. RCDS IN 121 OUT 121
PLS083I BYTES OUT 82,764
```

```
PAGE      1                                                                  09/29/93  14:37:08

SLAMS TRANSACTION GENERATION (AMP275F) ENDED ON 93-09-29 AT 14:37:09
      121 RECORDS WERE READ FROM THE SLAMS WORK FILE
      313 RECORDS WERE WRITTEN TO THE SLAMS TRANSACTIONS FILE, AS FOLLOWS:
   TSP  (11101)        109  'M' RECORDS       109   'V' RECORDS        71   'N' RECORDS
   PM10 (81102)          0  'M' RECORDS         0   'V' RECORDS         0   'N' RECORDS
   PB   (12128)          0  'U' RECORDS
   CO   (42101)          0  'R' RECORDS         0   'V' RECORDS
   SO2  (42401)         12  'P' RECORDS        12   'V' RECORDS
   NO2  (42602)          0  'S' RECORDS         0   'V' RECORDS
   O3   (44201)          0  'T' RECORDS         0   'V' RECORDS
```

```
SLAMS REPORT GENERATION (AMP280RP) ENDED ON 93-09-29 AT 14:36:52
      121 RECORDS WERE READ FROM THE SLAMS WORK FILE
```

Figure 3-14. Sample Processing Summary Reports (2 of 2)

3.8 Checking Batch Jobs With SYSD

Of the two non-AIRS facilities for monitoring batch jobs (SYSD and SDSF), the SYSD processor may be the more convenient since it runs under CICS like AIRS. That means you don't have to logoff from CICS and logon to TSO in order to check the status of your jobs. You do have to end your AIRS session.

The instructions for using SYSD presented here are, of necessity, rather superficial. This manual cannot include a complete description of all the SYSD capabilities and options. However, these instructions should be sufficient to allow you to check the status of a batch job and to view its output with SYSD.

3.8.1 Invoking SYSD

You invoke SYSD from CICS. That means you can invoke it after you have completed the CICS logon procedures described earlier in this Section, or after you have terminated your AIRS session. To invoke SYSD, simply type "sysd" on the screen, press the ERASE EOF key, then press the ENTER key.

3.8.2 The SYSD Primary Option Menu

The first screen SYSD displays is the "primary option menu", shown in Figure 3-15. You use it to invoke the various things SYSD can do, just as you use the AIRS main menu to select the various things AIRS can do. You select one of the options listed on the menu by typing its code or name after the "INPUT ===>" prompt, then pressing the ENTER key. To select the "display active jobs" option, for example, you could type either the code "4" or the name "active"

The first time you use SYSD, you should select the first menu option, "specify CPMS/SYSD parameters". This option is explained below. Use it to specify the categories of jobs SYSD will display and the actions of PF keys.

SYSD menu options 4, 5, and 6 allow you to find out about batch jobs. Probably the most useful of those is option 5, "display jobs in the input and output queues". With it you can determine your job's position in the input and output queues and estimate when it will execute or print. You can also look at the output generated by your jobs and route the output to the printer site of your choice.

```
ZZMNMP1          U.S. Environmental Protection Agency          Date: 11/24/92
                      Production  CICS Menu System             Time: 06:43:08
                                                            Terminal: T248P106

XX     XX    XXXXXX    XXXXXX         XX   XXXXXX   XXXXX    XXXXXX    XXXXXX
XXX    XX   XXXXXXXX  XXXXXXXX       XX   XXXXXXXX XXXXX   XXXXXXXX  XXXXXXXX
XXXX   XX  XXX        XXX            XX   XXX        XXX   XXX         XXX
XX XX  XX  XXX        XXX           XX    XXX        XXX   XXX          XXX
XX  XX XX  XXX        XXX          XX     XXX        XXX   XXX           XXX
XX   XXXX  XXX        XXX         XX      XXX        XXX   XXX            XXX
XX    XXX   XXXXXXXX  XXXXXXXX  XX        XXXXXXXX XXXXX   XXXXXXXX  XXXXXXXX
XX     XX    XXXXXX    XXXXXX  XX          XXXXXX   XXXXX    XXXXXX    XXXXXX

 Please enter selection or command and then press ENTER.

   1. INFORMATION   News Alerts and User Memos
   2. SIGN-ON       Change CICS Sign-on Parameters
   3. APPLICATIONS  EPA Applications Menu for CICS
   4. EXIT          Exit CICS and return to EPA Menu System


Command  ===>
F1/F13=Help   F3/F15=Exit   F10/F22=Lock    F12/F24=CICS <cmd>
```

```
   ------------------ CPMS/SYSD PRIMARY OPTION MENU ------------------   (1/1)
INPUT ===>                                                          SCROLL: CSR
                                                          USER     - MLZASWD
  0 - PARMS    - Specify CPMS/SYSD parameters             DATE     -  11/24/92
  1 - BROWSE   - Display source data                      TIME     -   7:13:18
  2 - EDIT     - Create or change source data             TERMINAL - P027
  3 - UTIL     - Perform utility functions
  4 - ACTIVE   - Display active jobs
  5 - N        - Display jobs in the input and output queue
  6 - O        - Display jobs in the output queue
  7 - PRINTER  - Display/change a printer's status
  8 - JFT      - Job/file tailoring
  C - CICS     - Enter CICS transactions
  T - TUTORIAL - Display information about CPMS/SYSD
  U - USER     - Perform user file maintenance
  X - END      - Terminate CPMS/SYSD session


PRESS END KEY TO TERMINATE CPMS/SYSD.
```

Figure 3-15. SYSD Primary Option Menu
The SYSD processor displays its primary option menu when it is invoked.

3.8.3 Setting Your SYSD Profile

The first time you use SYSD you should choose option 0 (zero) "parms", and establish your SYSD profile settings, especially the parameters relating to selection of batch jobs. SYSD saves your profile and recalls it whenever you use SYSD. For our purposes, the most important part of your profile is the set of parameters for selecting which batch jobs SYSD displays when you use the job display options of the SYSD primary menu. Essentially, you can choose to see all jobs or just your own. Since SYSD does not have a "find" command that would allow you to locate your job(s) in the list of all jobs, it is probably better to limit the display to just your jobs.

When you select the "parms" option of the primary menu, SYSD displays the parameter options menu shown at the top of Figure 3-16. Choose the "display/change JES and list defaults" option by typing "1" after the "INPUT ===>" prompt, then press the ENTER key. The screen titled "JES/list parameter definitions" will appear next. A sample is shown at the bottom of Figure 3-16. Use the following instructions to specify your SYSD profile:

1. Tab to the SCROLL field at the top right corner of the screen and type "page". With this setting, job lists and job output scroll up or down by one screenful when you use the PF7 or PF8 keys. (You could also enter "half", which scrolls by half a screenful.)

2. Tab to the JOB PREFIX field at the middle of the screen and type your NCC-IBM user-ID. Then tab to the next field, which is under the USE heading, and type "y". With these two specifications, SYSD displays only your jobs when you choose options 4, 5, or 6 from the primary menu. If at some time you want to display all jobs, simply return to the JES/list parameter definition screen and change the "y" following your user-ID to "n".

3. If you want to further restrict job selection, you can type values for the CLASS and DESTINATION fields and enter "y" under the USE heading. Otherwise, type "n" in the USE column for those two fields.

4. Enter "n" for the two fields labeled DISPLAY SYSIN and DISPLAY TSO/STC.

5. Press the PF3 key. This causes SYSD to check your specifications, save them, and return to the SYSD parameter options menu. Press PF3 again to return to the primary menu.

6. If an error message appears on the screen when you press PF3, try to correct the problem and press ENTER. You can press the PF1 key to obtain SYSD online help. If that is not sufficient, contact the computer center for assistance.

```
------------------ CPMS/SYSD PARAMETER OPTIONS ------------------    (1/1)
INPUT ===> 1                                                        SCROLL: CSR
                                                          USER     - MLZASWD
  0 - GENERAL  - Display/change general parameters        DATE     -  11/24/92
  1 - LIST     - Display/change JES and list defaults     TIME     -   7:16:22
  2 - PF       - Display/change PF key assignments        TERMINAL - P027
  3 - JFTPANEL - Set initial JFT panel to display
  4 - QUEUEIDs - Set GET/PUT TS queue identifiers
  5 - PRINTPRM - Set PRINT parameters
  X - END      - Return to main menu
```

```
------------------ JES/LIST PARAMETER DEFINITIONS ------------------  (1/1)
INPUT ===>                                                          SCROLL: CSR
                                                          USER     - MLZASWD

PRINT CONTROL:
   Printer identifier ==>        Printer display (Cpms/Jes2) ==> C

JOB SELECTION CRITERIA:        USE:
   Job prefix     ==> MLZ*         Y
   Class          ==> *            Y
   Destination    ==>              N
   Display SYSIN ==> N             Display TSO/STC ==> N

JOB STATEMENT INFORMATION:
 ==>
 ==>
 ==>
 ==>
```

Figure 3-16. Specifying SYSD Job Selection Parameters

3.8.4 SYSD Job Queue Display Screen - Description

You can determine which batch jobs are waiting to execute (the input queue) and which jobs are waiting to print (the output queue) using option 5 (or "N") of the SYSD primary option menu. A sample of the SYSD "job queue display" screen is shown in Figure 3-17.

If your SYSD profile is set as recommended above, only your own jobs are displayed. Otherwise, all jobs (or the subset you selected) are shown, and you must scroll through the list using the PF8 (down/forward) and PF7 (up/backward) keys to find your own jobs. There is no command for finding a particular job or type of job in the list.

The identity and status of jobs are presented in several columns across the job queue display screen. The following information is displayed:

O	The options column, explained below.
JOB#	The job number assigned by the computer system.
JOBNAME	The job name you chose when you submitted the job.
STA	Status of the job. The two usual status codes are: x** The job is in the input queue for job class "x" (A** for class A, for example), and is either awaiting execution or is executing, as indicated by th XHA column (see below). PPU The job has executed a d is in the print/punch output queue.
XHA	Additional job status information. The two usual values are "W", meaning the job is waiting to execute, and "1", meaning the job is executing on CPU number 1.
PRI	The priority of the job within its queue
HELD	The number of held datasets in the job's output.
PRT,PUN	The destination of printed (PRT) and punched (PUN) output.

Near the top of screen, to the right of "INPUT ===>", is the command entry field. It is not particularly useful, since nearly all commands have a PF key equivalent that is more convenient to use.

At the bottom of the screen is a list of the operations you can perform on your own jobs. These are described on subsequent pages. You cannot apply any of the operations to jobs that are not yours. (Your jobs have your user-ID as the first three characters of the jobname.)

```
------------------ CPMS/SYSD PRIMARY OPTION MENU ------------------  (1/1)
INPUT ===> 5                                                    SCROLL: CSR
                                                        USER     - MLZASWD
  0 - PARMS    - Specify CPMS/SYSD parameters           DATE     -  11/24/92
  1 - BROWSE   - Display source data                    TIME     -   7:18:28
  2 - EDIT     - Create or change source data           TERMINAL - P027
  3 - UTIL     - Perform utility functions
  4 - ACTIVE   - Display active jobs
  5 - N        - Display jobs in the input and output queue
  6 - O        - Display jobs in the output queue
  7 - PRINTER  - Display/change a printer's status
  8 - JFT      - Job/file tailoring
  C - CICS     - Enter CICS transactions
  T - TUTORIAL - Display information about CPMS/SYSD
  U - USER     - Perform user file maintenance
  X - END      - Terminate CPMS/SYSD session


PRESS END KEY TO TERMINATE CPMS/SYSD.
```

```
  7:19:07 -------------  MVS/JES2 JOB QUEUE DISPLAY  --------------------(1/1)
INPUT ===>                                                      SCROLL: CSR

O JOB#   JOBNAME  STA XHA PRI HELD      PRT          PUN
  J5348  MLZAE834 PPU       1          R0255        LOCAL
  J5363  MLZAE834 PPU       1          R0255        LOCAL
  * * * END OF DATA * * *



A=release C=cancel D=delete H=hold O=output P=print S=select T=route V=view
```

Figure 3-17. The SYSD Job Queue Display Screen (Option 5)

3.8.5 SYSD Job Queue Display Screen - Usage

When your jobs are listed on the screen you can perform the functions shown at the bottom of the screen (except PRINT, which does not work). To use one of the functions:

1. Tab to the options field (the "O" column) beside the job of interest.

2. Type the letter code of the function you want to use. The cursor will automatically move to the PRT column.

3. For the ROUTE function only, type the desired destination of your output in the PRT column, replacing what was there. (Use site-IDs such as "LOCAL", "R321", or "N7R100", as discussed previously in the instructions for the AIRS user profile screen.)

4. Press the ENTER key.

Now comes the tricky part: the screen does not show the effects of what you did! It appears as if the function you entered was completely ignored. If you wait about five seconds and press ENTER again, however, the effects will show. This odd behavior results from measures implemented by the computer center to make SYSD operate efficiently. Although SYSD processes your command right away, it only "reads" the status of your jobs about every five seconds. So when using SYSD, you will almost always have to press ENTER once to issue a command, then press ENTER again a few seconds later to see the results.

If you make a mistake, SYSD displays an error message under the "INPUT ===>" prompt. Suppose, for example, you typed the wrong function code beside a job. After you press ENTER, SYSD displays the error message "E0002 - ONE OR MORE INVALID LINE OPTIONS WERE FOUND" and highlights the invalid function code. At this point, the only tab stop in the options column is the place where the invalid code was entered. If you simply press ENTER, the invalid code is erased and the screen returns to normal with a tab stop beside each job listed. Or you can tab to the invalid code, change it, then press ENTER. In this case the new code you entered is processed.

When you have finished using the SYSD job queue display screen, press the PF3 (END) key to return to the primary option menu. Alternatively, you can use the primary command field (at the "INPUT ===> prompt) to transfer directly to another option of the primary menu or to terminate SYSD. To transfer to the job output display screen (option 6), for example, you could type "=6" and press ENTER. To terminate SYSD, you could type "=X" and press ENTER. If you enter an invalid command, SYSD displays the message "E0001 - INVALID PRIMARY COMMAND (ENTER ASSUMED)" and clears the primary command field.

3.8.6 SYSD Job Queue Display Screen - Functions

Eight functions are listed at the bottom of the SYSD job queue display screen. Brief descriptions of the functions are given below.

ROUTE (T) - changes the destination of job output. Probably the most common use for this feature is printing the "held" output of a job, which is identified by "HOLD" in the PRT column of the display. To print held output, tab to the "O" column beside the job and type "t", type "local" or a remote site-ID such as "r321" in the PRT column, then press ENTER. The screen will appear unchanged, as discussed above. After about five seconds, press ENTER again and the print destination you entered should be displayed in the PRT column.

CANCEL (C) - removes a job from the input queue or aborts a job that is executing. Its output is placed in the output queue. This function has no effect on jobs in the output queue.

DELETE (D) - does the same thing as CANCEL and also deletes the job's output from the output queue. This function is irreversible; once you have deleted the output it cannot be recovered.

HOLD (H) - retains a job in its present queue, either input or output. A held job in the input queue will not be executed; one in the output queue will not be printed. The hold condition is removed by RELEASE.

RELEASE (A) - reverses the effect of the HOLD function. This makes a job in the input queue available for execution or a job in the output queue available for printing. Note: If you submitted an AIRS batch job and specified that the output was to be held, you cannot print the output using RELEASE. You must use the ROUTE function, described above.

PRINT (P) - isn't implemented on the NCC-IBM computer system. Don't use it.

SELECT (S) - displays a list of a job's "print" datasets. These are the various parts of the printed output, such as JCL listing and job log. This function can be used for jobs in either the input queue or the output queue.

VIEW (V) - displays the content of a job's "print" datasets. This function can be used for jobs in either the input queue or the output queue.

Unlike the other functions, the results of using SELECT and VIEW are displayed immediately. You do not have to press ENTER twice to SELECT or VIEW a job's datasets. More information about using SELECT and VIEW are presented in the description of SYSD's job output display screen, which begins on the next page.

3.8.7 SYSD Job Output Display Screen - Description

The SYSD "job output display" screen identifies which jobs are in the output queue and gives more detailed information about them than does the SYSD "job queue display". You invoke the job output display screen with option 6 (or "O") of the SYSD primary option menu. A sample job output display screen is shown in Figure 3-18.

If your SYSD profile is set as recommended previously, only your own jobs are listed on the job output display screen. Otherwise, all jobs (or the subset you selected) are shown, and you must scroll through the list using the PF8 (down/forward) and PF7 (up/backward) keys to locate your own jobs. There is no command for finding a particular job or type of job in the list.

The identity of jobs and information about them is presented in several columns across the job output display screen. The following information is displayed:

O	The options column, in which you specify what you want to do.
JOB#	The job number assigned by the computer system.
JOBNAME	The job name you chose when you submitted the job
C	The job class assigned to your job by the computer system.
NOHSRU	Status information. Each letter of the heading may appear beside a job to indicate its status. The only two letters that are meaningful for AIRS are: H - non-printable (set by the HOLD function, cleared by RELEASE) R - currently printing
P	The priority of the job within its queue.
DEST	The destination of the job's output.
FORM	The form (type of paper) on which the output is to be printed.
FCB,UCS	The forms control buffer and character set to be used for printing the job's output.
#LINES	The number of lines in the job's output.
GRPID	The group-ID assigned to the output by the computer system.

Near the top of screen, to the right of "INPUT ===>", is the command entry field. It is not particularly useful, since nearly all commands have a PF key equivalent that is more convenient to use.

At the bottom of the screen is a list of the operations you can perform on your own jobs. These are described below. You cannot apply any of the operations to jobs that are not yours. (Your jobs have your user-ID as the first three characters of the jobname.)

```
------------------ CPMS/SYSD PRIMARY OPTION MENU ------------------   (1/1)
INPUT ===> 6                                                    SCROLL: CSR
                                                        USER     - MLZASWD
  0 - PARMS    - Specify CPMS/SYSD parameters           DATE     -  11/24/92
  1 - BROWSE   - Display source data                    TIME     -   7:20:01
  2 - EDIT     - Create or change source data           TERMINAL - P027
  3 - UTIL     - Perform utility functions
  4 - ACTIVE   - Display active jobs
  5 - N        - Display jobs in the input and output queue
  6 - O        - Display jobs in the output queue
  7 - PRINTER  - Display/change a printer's status
  8 - JFT      - Job/file tailoring
  C - CICS     - Enter CICS transactions
  T - TUTORIAL - Display information about CPMS/SYSD
  U - USER     - Perform user file maintenance
  X - END      - Terminate CPMS/SYSD session

PRESS END KEY TO TERMINATE CPMS/SYSD.
```

```
  7:20:53 ------------- MVS/JES2 JOB OUTPUT DISPLAY --------------------  (1/1)
INPUT ==                                                        SCROLL: CSR

O JOB#   JOBNAME  NOHSRU C DEST      WRITER   FORM     #LINES GROUPID
  J5363  MLZAE834        # RJ255              STD        86  2.1.1
  J5348  MLZAE834        # RJ255              STD        86  2.1.1
  J5348  MLZAE834        F RJ255              STD       483  1.1.1
  J5348  MLZAE834        F RJ255              STD       483  1 1.2
  J5363  MLZAE834        F RJ255              STD       483  1.1.1
  J5363  MLZAE834        F RJ255              STD       483  1.1.2
  *** END OF DATA ***


 A=release D=delete H=hold P=print S=select U=update V=view
```

Figure 3-18. The SYSD Job Output Display Screen (Option 6)

3.8.8 SYSD Job Output Display Screen - Usage

Using the job output display screen is much like using the job queue display screen. When your jobs are listed on the screen you can perform the functions shown at the bottom of the screen (except PRINT, which does not work). To use one of the functions:

1. Tab to the options field ("O" column) beside the job of interest.

2. Type the letter code of the function you want to use. The cursor will automatically move to the "C" column.

3. For the UPDATE function only, tab to the DEST column and type the desired destination of your output. Use a site-ID such as "LOCAL" or "R321".

4. Press the ENTER key.

The job output display screen exhibits the same odd behavior (and for the same reason) as described above for the job queue display screen. That is, for any of the functions except SELECT or VIEW, you have to press ENTER once to issue your command, wait five seconds for SYSD to "read" the new status of your jobs, then press ENTER again to see the results.

If you make a mistake, SYSD displays an error message under the "INPUT ===>" prompt. If you enter an invalid function code beside a job, SYSD displays the error message "E0002 - ONE OR MORE INVALID LINE OPTIONS WERE FOUND" and highlights the invalid function code. At this point, the only tab stops on the screen are the primary command input field, the scroll amount field, and the field in the options column where the invalid code was entered. If you simply press ENTER, the invalid code is erased and the screen returns to normal with all its usual tab stops. Or you can tab to the invalid code, change it, then press ENTER. In this case, the new code you entered is processed.

When you have finished using the SYSD job output display screen, press the PF3 (END) key to return to the primary option menu. Alternatively, you can use the primary command field (at the "INPUT ===>" prompt) to transfer directly to another option of the primary menu or to terminate SYSD. To transfer to the job queue display screen (option 5), for example, you could type "=5" and press ENTER. To terminate SYSD, you could type "=X" and press ENTER. If you enter an invalid command, SYSD displays the message "E0001 - INVALID PRIMARY COMMAND (ENTER ASSUMED)" and clears the primary command field.

3.8.9 SYSD Job Output Display Screen - Functions

The seven functions listed at the bottom of the SYSD job output display screen are mostly the same as the functions described previously for the SYSD job queue display screen. Brief descriptions of the functions are given below.

UPDATE (U) - allows you to change information about a job in any column where there is a tab stop. The only recommended use for this feature is printing the "held" output of a job, which is identified by "HOLD" in the DEST column of the display. To print held output, tab to the "O" column beside the job of interest and type "u", tab to the DEST column and type "local" or a remote site-ID such as "r321", then press ENTER. The screen will appear unchanged, as discussed above. After about five seconds, press ENTER again and the print destination you entered should be displayed in the DEST column.

DELETE (D) - deletes a job's output from the output queue so there is nothing to be printed. This function is irreversible; once you have deleted the output it cannot be recovered.

HOLD (H) - retains a job in the output queue, so its output is not printed. The hold condition is removed by RELEASE.

RELEASE (A) - reverses the effect of the HOLD function, and makes a job's output available for printing. Note: If you submitted an AIRS batch job and specified that the output was to be held, you cannot print the output using RELEASE. You must use the UPDATE function, described above.

PRINT (P) - isn't implemented on the NCC IBM computer system. Don't use it.

SELECT (S) - displays a list of a job's "print" datasets. These are the various parts of the printed output, such as JCL listing, job log, and reports generated by AIRS programs.

VIEW (V) - displays the content of a job's "print" datasets. Use this function to see the output generated by one of your jobs

Unlike the other functions, the results of using SELECT and VIEW are displayed immediately. You do not have to press ENTER twice to SELECT or VIEW a job's datasets. More information about using SELECT and VIEW are presented on the next page.

3.8.10 SYSD Job Dataset Display Screen

The "job dataset display" screen, shown at the bottom of Figure 3-19, appears when you use the SELECT function of SYSD's job queue and job output screens. The job dataset display screen identifies and describes each part of a SELECTed job's printed output, and allows you to view the content of any of them. The job's name and number are shown in the top line of the screen following the screen title. The body of the screen has a line of information for each logical part (dataset) of the job's output. The information is presented in columns. The more significant ones are:

O	The options column. You may enter the "V" option to view the content of a dataset. (The "P" [print] option listed at the bottom of the screen does not work; do not use it.)
DSN	The dataset identifier (name). The datasets identified as CC, JCL, LOG, and MSG are generated by the computer system for each job. Datasets identified by three-digit numbers are generated by programs executed in the job.
HSNC	Status information. An "N" in this column indicates the HOLD function was used on this job. The job class assigned by the computer system is shown under the letter "C" in the column heading.
NUMLIN	The number of lines in the dataset.
COPIES	The number of copies of the output to be printed.
LRECL	The logical record length for the output dataset.

In the unlikely event that a job has more datasets than will fit on one screen, you may use the PF8 and PF7 keys to scroll forward and backward through the list. Besides looking at the list of output datasets, the only thing you can do on the job datasets display screen is select a dataset to view. If there is a dataset you want to look at, tab to the options column beside it on the screen, type "v", and press ENTER. That will invoke the SYSD "spool display" screen which is described on the next page of this manual.

When you have finished using the job dataset display screen, you can use the PF3 key to return to the job queue or job output display screen where you "came from", or you can transfer directly to another option of the SYSD main menu by typing "= <option>" in the primary command field after the "INPUT ===>" prompt and pressing the ENTER key.

```
  7:22:11 ------------- MVS/JES2 JOB OUTPUT DISPLAY --------------------(1/1)
INPUT ===>                                                    SCROLL: CSR

O JOB#   JOBNAME  NOHSRU C DEST      WRITER   FORM     #LINES GROUPID
  J5363  MLZAE834        # R0255              STD        86  2.1.1
  J5348  MLZAE834        # R0255              STD        86  2.1.1
s J5348  MLZAE834        F R0255              STD       483  1.1.1
  J5348  MLZAE834        F R0255              STD       483  1.1.2
  J5363  MLZAE834        F R0255              STD       483  1.1.1
  J5363  MLZAE834        F R0255              STD       483  1.1.2
  *** END OF DATA ***


 A=release D=delete H=hold P=print S=select U=update V=view
```

```
     ---------- MVS/JES2 JOB DATASET DISPLAY - MLZAE834/J05348 ----------(1/1)
INPUT ===>                                                    SCROLL: CSR

O   DSN DDNAME   STEPNAME PROCNAME HSNC  ALLIN RECFM  LRECL
    CC  *** CONDITION CODES DISPLAY ***
    LOG JESMSGLG JES2                F      13 UA       133
    JCL JESJCL   JES2                F     135 F        132
    MSG JESYSMSG JES2                F     272 VA       133
    154 CMPRT01  STEP1     STEP1     F      53 UA       251
    154 CMPRT01  CLEANUP   STEP1     F      10 UA       251
  * * * END OF DATA * * *


OPTIONS ==>  P = PRINT, V = VIEW
```

Figure 3-19. The SYSD Job Dataset Display Screen
The job dataset display screen is invoked when you use the SELECT function.

3.8.11 SYSD Spool Display Screen

The SYSD "spool display" screen shows the content of a job's printable output datasets. It appears when you use the VIEW function of SYSD's job queue, job output, and dataset display screens. A typical spool display screen is shown at the bottom of Figure 3-20. The top line displays the screen title and shows the jobname and job number. In the next line are the primary command input and scroll amount fields. Below that is a line giving dataset information and display status in several fields, including:

DSN	dataset identifier (like the "job dataset" screen)
LINE	line number of the first line of output on the screen
SIZE	total number of lines in the dataset
COLS	leftmost and rightmost columns of the output on the screen
LRECL	length of lines in the dataset.

You may enter values in the DSN, LINE, and COLS fields to switch among datasets and to display particular lines and columns of the output. Beneath the DSN line, 20 lines of job output are displayed.

The spool display screen acts as a window through which you view the job output. You can move the window (or scroll the output) to see other parts. You can enter a command in the primary input field at the "INPUT ===> " prompt or use the PF key allocated for the command. The available commands are:

UP	PF7	Moves the window toward the beginning of the dataset.
DOWN	PF8	Moves the window toward the end of the dataset.
LEFT	PF10	Moves the window toward the beginning of the lines of output.
RIGHT	PF11	Moves the window toward the end of the lines of output.
TOP		Moves the window to the first line of the dataset.
BOTTOM		Moves the window to the last line of the dataset.

You can use the LINE and COLS fields in conjunction with or instead of the scrolling commands. Entering "1" in the LINE field has the same effect as entering the TOP command, for example. You can make SYSD "wrap" long lines by entering "1" and "133" in the COLS fields. Each line of the output takes up two lines on the screen, with the first 80 characters on one line and the remaining characters on the next line. Conversely, you can display only a small part of the lines of output, for example, columns 20 through 40, by setting the COLS fields accordingly.

```
     ----------- MVS/JES2 JOB DATASET DISPLAY - MLZAE834/J05348 ----------(1/1)
INPUT ===>                                                        SCROLL: CSR

O   DSN DDNAME   STEPNAME PROCNAME HSMC  NUMLIN RECFM  LRECL
    CC  *** CONDITION CODES DISPLAY ***
v   LOG JESMSGLG JES2                F      13 UA       133
    JCL JESJCL   JES2                F     135 F        132
    MSG JESYSMSG JES2                F     272 VA       133
    144 CMPRT01  STEP7    STEP1      F      53 UA       251
    154 CMPRT01  CLEANUP  STEP1      F      10 UA       251
  * * * END OF DATA * * *


OPTIONS ==>  P = PRINT, V = VIEW
```

```
     ---------------- MVS/JES2 SPOOL DISPLAY - MLZAE834/J05348 ---------- (1/1)
INPUT ===>                                                        SCROLL: CSR

DSN= LOG   LINE= 0000001  SIZE= 0000013  COLS= 001 080   RECL= 133 CAPS ON
1                  J E S 2  J O B  L O G  --  S Y S T E M  E P A G  --  N O D
0
 06.54.09 J0805348  ICH70001I MLZ      LAST ACCESS AT 04:29:29 ON TUESDAY, NOVEM
 06.54.09 J0805348  $HASP373 MLZAE834 STARTED - INIT  4 - CLASS W - SYS EPAG
 06.54.29 J0805348  IEC802I MLZAE834 ENDED 11/24/92, CODE     0, ELAPSED      .2
 06.54.29 J0805348  $HASP395 MLZAE834 ENDED
0- ------ JES2 JOB STATISTICS ------
-    24 NOV 92 JOB EXECUTION DATE
-           156 CARDS READ
-           569 SYSOUT PRINT RECORDS
-             0 SYSOUT PUNCH RECORDS
-            40 SYSOUT SPOOL KBYTES
-          0.34 MINUTES EXECUTION TIME
```

Figure 3-20. The SYSD Spool Display Screen
The spool display screen is invoked when you use the VIEW function.

In many output datasets, the first character of each line is a code for controlling vertical spacing of the paper when printing takes place. SYSD does not use that information, so the spacing of lines on the screen may not correspond to the spacing of the printed output.

When you have finished using the spool display screen, you can use the END command (PF3) to return to the screen you came from, or you can transfer directly to another option of the SYSD main menu by entering "= <option>" in the primary command field.

3.8.12 Terminating SYSD

When you are finished using SYSD, you must do something to terminate it. You can do that very easily from any SYSD screen.

While the primary option menu screen is displayed, you can terminate SYSD by:

- pressing the END (PF3) key, or
- typing "X" in the primary command field (after the "INPUT = = = > " prompt) and then pressing the ENTER key.

While any other SYSD screen is displayed, you can terminate by typing "=x" in the primary command input field and then pressing the ENTER key. Or you can press the END (PF3) key until you get to the primary option menu and use the termination methods given above.

When SYSD terminates, the screen clears and you are returned to CICS. At that point you may invoke NATURAL and AIRS or you may logoff from CICS using the procedures given earlier in this section.

3.9 Checking Batch Jobs With SDSF

SDSF, the "Spool Display and Search Facility", is the second of the two non-AIRS facilities for checking the status of batch jobs. Although SDSF has even more capabilities and options than SYSD, which was described in the previous subsection, the basic capabilities of the two are similar.

If AIRS is the only thing or the predominant thing you do on the NCC-IBM computer system, then SDSF may be more difficult or less convenient for you to use than SYSD. That is because SDSF cannot be invoked from CICS, the teleprocessing environment of AIRS and SYSD. To use SDSF, you must logon to the TSO facility of the NCC-IBM system. If you are unfamiliar with TSO, you may not want to bother to learn how to logon and how to invoke SDSF. If you already know how to use TSO, you may not want to bother to switch between CICS (for AIRS) and TSO (for SDSF). The choice is up to you.

3.9.1 Invoking SDSF

You can invoke SDSF directly from TSO or as an option of the ISPF facility of TSO. That means you can invoke SDSF only after you have completed TSO logon procedures. This manual does not describe the TSO logon procedures, since they are not needed for using AIRS; refer to the NCC-IBM User's Guide. To invoke SDSF directly from TSO, simply type "sdsf" after TSO's READY prompt, and press the ENTER key. To invoke SDSF as a subfunction of the ISPF facility, select option E of the ISPF main menu, then select option S of the EPA sub-menu.

3.9.2 The SDSF Primary Option Menu

The first screen SDSF displays is the "primary option menu", shown in Figure 3-21. You use it to invoke the various things SDSF can do, just as you use the AIRS main menu to select the various things AIRS can do. You select one of the options listed on the menu by typing its code to the right of the "COMMAND INPUT ===>" prompt, then pressing the ENTER key. To select the option "display active users of the system", for example, you would type the code "da".

The first time you use SDSF, you may want to set the SCROLL field in the upper right corner of the screen to your preference of "page", "half", or "csr" (which scrolls the screen according to the position of the cursor). The setting you choose will be stored and recalled the next time you use SDSF.

The SDSF menu options DA, I, O, and ST allow you to find out about batch jobs. Probably the most useful of these is ST, "display status of jobs in the JES2 queues", because it allows you to see on one screen the status of jobs that are waiting to execute, are currently executing, and are waiting to print. (This is similar to option 5 of the SYSD facility, described in the previous subsection.)

```
READY

sdsf
```

```
V1R3M2 ----------------  SDSF PRIMARY OPTION MENU  -------------------------
COMMAND INPUT ===>                                          SCROLL ===> PAGE
PREFIX=HCZ* DEST=(ALL)  OWNER=*
 Type an option or command and press Enter.

   LOG      - Display the system log
   DA       - Display active users of the system
   I          Display jobs in the JES2 input queue
   O        - Display jobs in the JES2 output queue
   H        - Display jobs in the JES2 held output queue
   ST       - Display status of jobs in the JES2 queues
   PR       - Display JES2 printers on this system
   INIT     - Display JES2 initiators on this system

   TUTOR    - Start core session on SDSF  (ISPF only)
   END      - Exit SDSF

   Use Help key for more information.

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```

Figure 3-21. The SDSF Primary Option Menu
The SDSF processor displays its primary option menu when it is invoked.

3.9.3 Job Selection Options

SDSF does not have a "profile" screen for defining job selection as SYSD does. You must define your selection criteria each time you use SDSF. Figure 3-22 illustrates specifying SDSF Job Selection Criteria. You can do that with the PREFIX and DEST options of the SDSF primary menu and with variations of the I, O, and ST options explained below. If you do not specify selection criteria, then just your own jobs qualified by the menu option you used are selected. For example, if you use the "O" option without any selection criteria, SDSF will select your jobs that are held or waiting to print.

The PREFIX option of the SDSF primary menu is really a command rather than a selection. With it you specify the leading character(s) of jobnames you want to be selected for display on your screen. By default, SDSF sets the prefix to your NCC-IBM user-ID. You could select jobs for user-ID "USR", for example, by typing "prefix usr*" in the COMMAND INPUT field, then pressing the ENTER key. You can change the prefix by specifying a different value, and you can eliminate a prefix by using the PREFIX command without a value. You can also use the PREFIX command on other SDSF screens. It is not limited to the primary menu screen.

The DEST command works like PREFIX except it specifies selection of jobs according to their output destination rather than their jobname. To select jobs routed to printer site-ID RMT321, you would type "dest r321" in the COMMAND INPUT field and press the ENTER key. All the forms of destination that have been discussed before are valid for the DEST command: LOCAL, RMT123, R456, and N5R37, for example. You can use the DEST command in combination with PREFIX if you want to.

You can also select jobs according to their **job class** by adding a suffix to the "I" and "O" commands for invoking SDSF's input and output job queue display functions. Job classes are identified by a single letter (A, B, E, etc.). Each job is assigned to an **input** job class defined by the computer center based on the job time you specify when you submit it. To select only jobs on the input queue in class B, you would type "ib" in the COMMAND INPUT field (menu selection "I" followed by the job class "B" designation). The output of a job belongs to an **output** job class based on parameters in the JCL. To select jobs with output class F, you would type "of" in the COMMAND INPUT field.

Finally, you can specify the equivalent of a PREFIX command in combination with the "ST" option of the primary menu. To do that, you supply the jobname prefix after the ST command. For example, you could display the status of jobs for user-ID "USR" by entering the command "st usr*". This feature is available only with the ST option of the primary menu, not for the DA, I, or O options. (SDSF uses the current setting of PREFIX, which is your own user-ID by default, if you do not specify a prefix with the ST option.)

```
V1R3M2 ----------------  SDSF PRIMARY OPTION MENU  -------------------------
COMMAND INPUT ===> prefix usr*                              SCROLL ===> PAGE
PREFIX=MLZ*  DEST=(ALL)  OWNER=*
 Type an option or command and press Enter.

   LOG       - Display the system log
   DA        - Display active users of the system
   I         - Display jobs in the JES2 input queue
   O         - Display jobs in the JES2 output queue
   H         - Display jobs in the JES2 held output queue
   ST        - Display status of jobs in the JES2 queues
   PR        - Display JES2 printers on this system
   INIT      - Display JES2 initiators on this system

   TUTOR     - Short course on SDSF (ISPF only)
   END       - Exit SDSF

   Use Help key for more information.

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```

```
V1R3M2 ---------- --- ---  SDSF PRIMARY OPTION MENU  -------------------------
COMMAND INPUT ===  st usr*                                  SCROLL ===> PAGE
PREFIX=MLZ*  DEST=(ALL)  OWNER=*
 Type an option or command an  press Enter.

   LO        - Display the system log
   DA        - Display active users of the system
   I           Display jobs  th.e JE.2 input queue
   O         - Display jobs in the JES2 outp:t queue
   H         - Display jobs   the JES2 hal  output queue
   ST        - Di-play status of jobs in the JES? queues
   PR        - Display JES2 printers on tni- system
   ..IT      - Display JES2 in.tiators on this system

   TUTOR     - Short course on SDSF (ISPF only)
   END       - Exit SDSF

   Use Help key for more information.

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```

Figure 3-22. Specifying SDSF Job Selection Criteria
Job selection criteria may be entered on the primary option menu screen.

3.9.4 SDSF Job Status Display Screen

The SDSF job "status display" screen allows you to see the status of batch jobs in both main queues of the NCC-IBM computer system: the **execution queue** (jobs waiting to execute or currently executing) and the **print queue** (jobs that have executed and are waiting to print). You can also change the status of your own jobs. A sample of the job status display screen is shown in Figure 3-23.

The job status display screen lists the jobs selected according to any criteria you entered, such as prefix or destination. The total number of jobs selected by your criteria is shown in parentheses after the word LINE at the top of the screen. Information about the jobs is presented in several columns across the screen. You can enter commands or other information in some of the columns to change the status of your own jobs (but not others'). The most important columns are:

NP — Command input. You may enter a one-character command in this field to change a job's status or get more information. Some of the available commands are:

- S — Selects the job's output for viewing.
- P — Purges the job from the execution or print queue; nothing is printed.
- ? — Displays a list of the job's output datasets; any of them may be selected for viewing with "S".

JOBNAME — The job name chosen when the job was submitted.

JOB-ID — The job number assigned by the computer system.

PRT-DEST — The destination of the job's output. You may change this field to reroute your job output. "HOLD" is shown as the destination of held output of AIRS jobs.

QUEUE — The main job queue, "execution" or "print".

C — The job class assigned by the computer system.

POS — The relative position of the job in its queue and class. The next job to be executed or printed has position "1". This column is blank while a job is executing.

If all the selected jobs do not fit on one screen, you can scroll through the list with the DOWN (PF8) key and the UP (PF7) key. You can also look for a particular jobname by entering "FIND <jobname>" in the COMMAND INPUT field. You do not have to specify the entire jobname. You may use the END (PF3) key to return to the SDSF primary option menu screen or you may invoke one of the other primary menu options by entering its code in the COMMAND INPUT field.

```
V1R3M2 ----------------- SDSF PRIMARY OPTION MENU -------------------------
COMMAND INPUT ===> st                                        SCROLL ===> PAGE
PREFIX=MLZ*  DEST=(ALL)  OWNER=*
 Type an option or command and press Enter.

    LOG       - Display the system log
    DA        - Display active users of the system
    I         - Display jobs in the JES2 input queue
    O         - Display jobs in the JES2 output queue
    H         - Display jobs in the JES2 held output queue
    ST        - Display status of jobs in the JES2 queues
    PR        - Display JES2 printers on this system
    INIT      - Display JES2 initiators on this system

    TUTOR     - Short course on SDSF (ISPF only)
    END       - Exit SDSF

    Use Help key for more information.

    5665-488 (C) COPYRIGHT IBM CORP. 1981, 1991. ALL RIGHTS RESERVED
```

```
SDSF STATUS DISPLAY ALL CLASSES                          LINE 1-3 (3)
COMMAND INPUT ===>                                       SCROLL ===> PAGE
NP JOBNAME  Job-id   P.t-Dest Queue      C JP  Pos Stat ASys P.ogr.mer-Name
   MLZ      TSU05813 LOCAL    EXECUTION    2          EPA2 LOCKARD.MARNIE
   MLZAE834 JOB05368 R255     PRINT      W  1  1ST TIME      INVENTORY DETAIL
   MLZAE834 JOB05363 R255     PRINT      W  1  1ST TIME      INVENTORY DETAIL
```

Figure 3-23. The SDSF Job Status Display Screen
The job status display is invoked by the "st" option of the primary menu.

3.9.5 SDSF Input Queue Display Screen

The SDSF "input queue display" screen shows information about batch jobs that are waiting to execute and are executing. A sample screen is shown at the bottom of Figure 3-24.

The jobs listed on the input queue display screen are selected according to any criteria you may have specified, such as prefix, destination, and job class. In the top line of the screen SDSF shows which job classes were selected and, in parentheses following the word LINE, the number of jobs selected. The detailed information about jobs is presented in several columns across the screen. You can enter commands or alter the information in some of the columns to change the status of your own jobs or to get additional information. The more significant columns are:

NP — Command input. You may enter a one-character command in this field to change a job's status or get more information. Some of the available commands are:

- S — Selects the job for viewing. You can look at the job log and the JCL while a job is waiting to execute.
- P — Purges the job from the queue; it is not executed and nothing is printed.
- ? — Displays a list of a job's datasets, any of which may then be selected for viewing with "S".

JOBNAME — The job name chosen when the job was submitted.

JOB-ID — The job number assigned by the computer system.

P — The job priority assigned by the computer system.

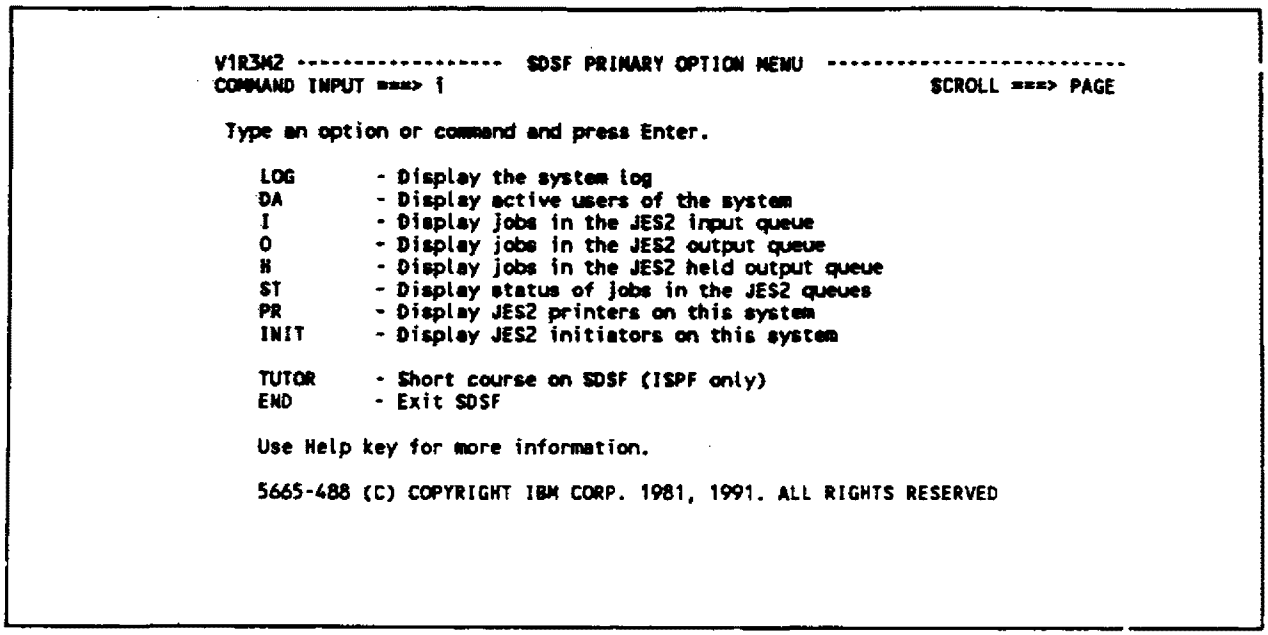
C — The job class assigned by the computer system.

POS — The relative position of the job within its job class. The next job to be executed has position "1". While a job is executing this column is blank and "EPA2" is displayed in the ASYS column.

PRT-DEST — The destination of the job's output. You may enter a valid site-ID in this field to reroute the job's output from one destination to another. "HOLD" is shown as the destination of held output.

If all the selected jobs do not fit on one screen, you can scroll through the list with the DOWN (PF8) key and the UP (PF7) key. You can also scroll RIGHT (PF11) to see additional columns of information and LEFT (PF10) back to normal. As with the SDSF status display screen, you can look for a particular jobname by entering "FIND <jobname>" in the COMMAND INPUT field.

When you have finished with the input queue display screen, use the END (PF3) key to return to the SDSF primary option menu screen, or invoke one of the other primary menu options by entering its code in the COMMAND INPUT field.



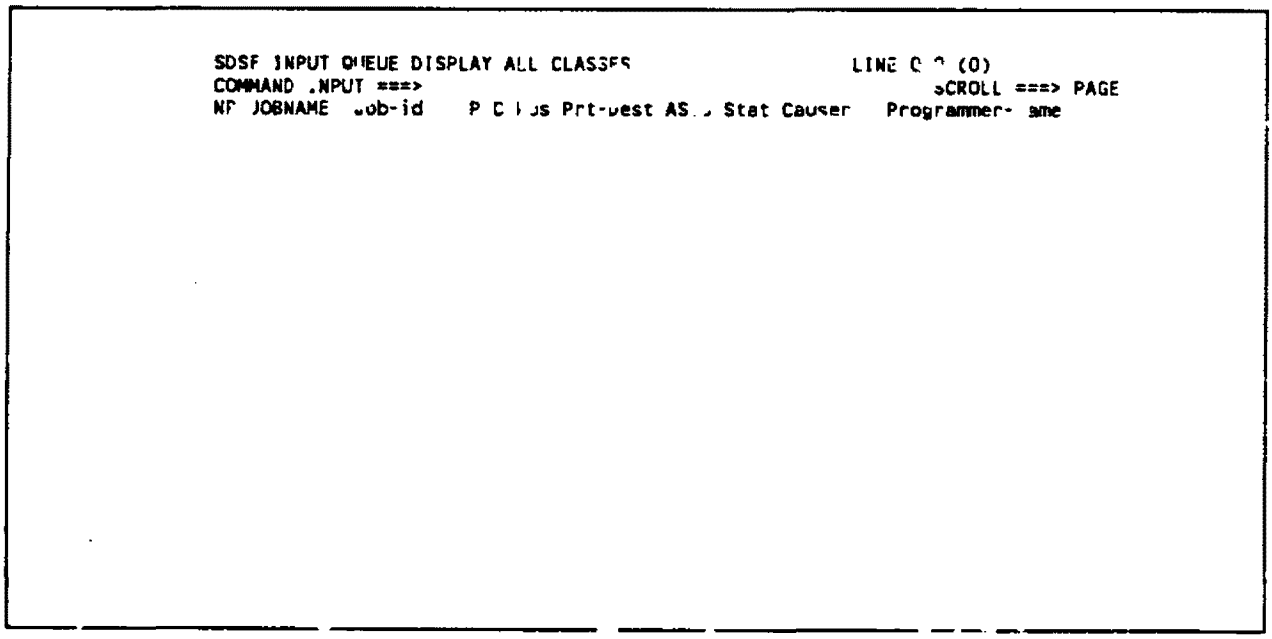


Figure 3-24. The SDSF Input Queue Display Screen
The input queue display is invoked by the "i" option of the primary menu.

3.9.6 SDSF Output Queue Display Screen

The SDSF "output queue display" screen is invoked by the "O" option of the primary menu. The output queue display screen shows information about batch jobs that have executed and are waiting to print. A sample screen is shown in Figure 3-25. As with the other SDSF screens described on the preceding pages, you can enter commands to change the status of your own jobs and to view the output. Which jobs are listed on the screen depends on the selection criteria you may have specified, such as prefix and destination. The number of jobs selected is shown in parentheses after the word LINE near the top right corner of the screen.

Information about jobs in the output queue is presented in columns across the screen. Quite a lot of information is available; you can scroll right to see additional columns. Some of the columns are tab stops where you can enter commands that change the status of your own jobs or request additional information. The more significant columns are:

NP — Command input. You may enter a one-letter command in this field to view or purge the output of a job. Some of the available commands are:

- S — Selects the job for viewing. You can then look at all the job's printable output.
- P — Purges the job from the print queue; nothing is printed.
- ? — Displays a list of a job's datasets, any of which may then be selected for viewing with "S".

JOBNAME — The job name chosen when the job was submitted.

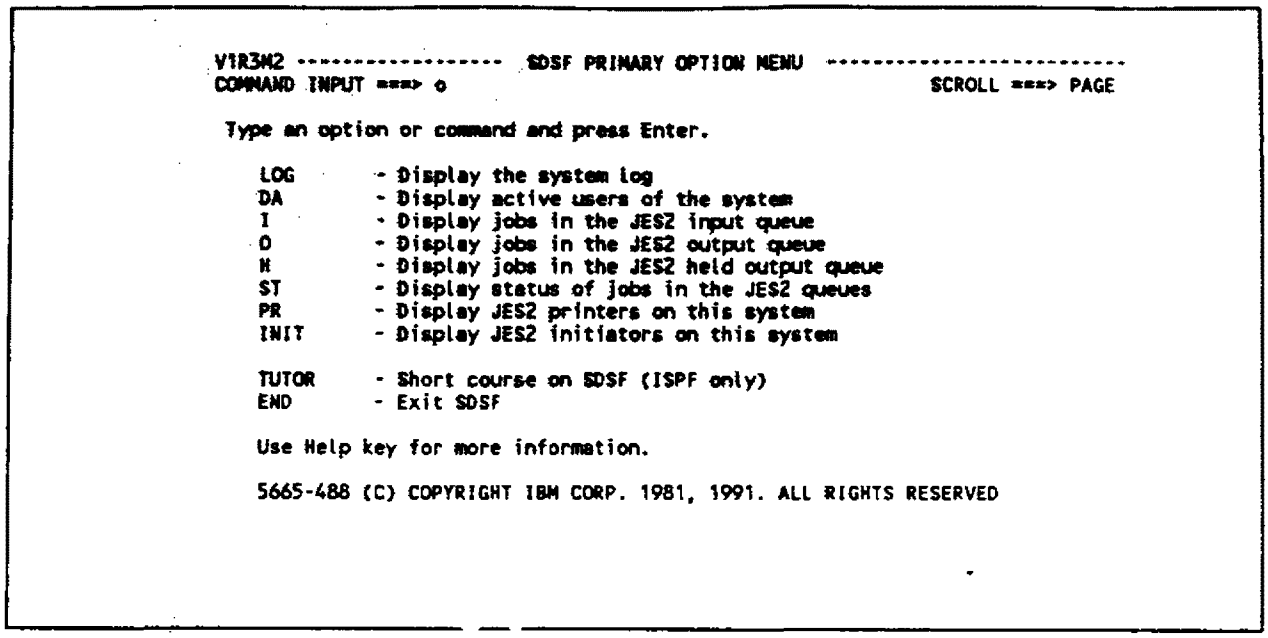
JOB-ID — The job number assigned by the computer system.

DEST — The destination of the job's output. You may enter a valid site-ID in this field to reroute the job's output from one destination to another. "HOLD" is shown as the destination of held output.

C — The output (message) class chosen when the job was submitted. You can change this field.

TOT-RCDS — The number of lines of output. While a job is actually printing, the PRT-REC column shows how many lines have printed and the DEVICE column shows the printer-ID.

As with the other SDSF screens described previously, you can scroll through the list of jobs with the UP (PF7), DOWN (PF8), LEFT (PF10), and RIGHT (PF11) keys; and you can use the FIND command to locate a particular job in the list. You can return to the primary option menu with the END (PF3) key or invoke another option of the primary menu by entering its code in the COMMAND INPUT field of the output queue display screen.



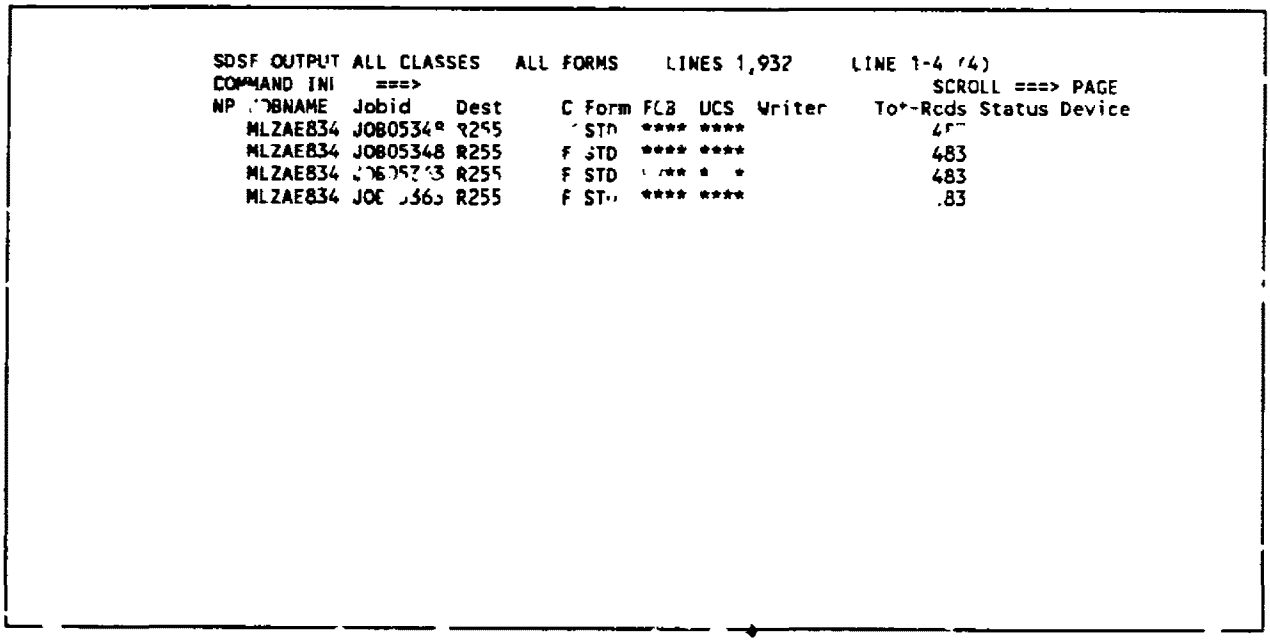


Figure 3-25 The SDSF Output Queue Display Screen
The output queue display is invoked by the "O" option of the primary menu.

3.9.7 The SDSF Job Dataset Display Screen

The SDSF "job dataset display" screen is invoked when you enter "?" in the NP column beside a job listed on the job status display screen (ST function), the input queue display screen (I function), or the output queue display screen (O function). A sample screen is shown at the top of Figure 3-26.

The job dataset display screen identifies and gives information about each part of the printed output of a selected job. The jobname and job number are given in the top line of the screen. The information about job datasets is listed in columns across the screen. The more significant columns are:

DDNAME	Logical name of the dataset used in the JCL.
STEP-NAME	Job step in which the dataset was created.
DSID	Dataset ID. Numbers above 100 are created by programs.
C	Output class of the dataset.
REC-CNT	Number of lines in the dataset.

You may enter "S" in the NP column to select a dataset for viewing, or use the END (PF3) key to return to the screen you came from.

3.9.8 The SDSF Output Display Screen

The SDSF "output display" screen is invoked when you select job output for viewing by entering an "S" in the NP column of a screen. A sample screen is shown at the bottom of Figure 3-24.

The output display screen has few remarkable features. The jobname, job number, and dataset id are shown in the top line of the screen, and the COMMAND INPUT field occupies the second line. The rest of the screen displays the job output. You can use the UP (PF7), DOWN (PF8), LEFT (PF10), and RIGHT (PF11) keys to scroll the output, and you can use the FIND command to locate a specific text string. The RFIND (PF5) key repeats the last FIND command. The NEXT and PREV commands scroll to the start of the next or previous output dataset, and the TOP and BOT commands scroll to the beginning and end of the output.

When you have finished using the output display screen, you may use the END (PF3) key to return to the screen you came from.

```
SDSF JOB DATA SET DISPLAY - JOB MLZAE834 (JOB05363)    LINE 1-13 (13)
COMMAND INPUT ===>                                     SCROLL ===> PAGE
NP DDNAME   stepname procname DSID C Rec-cnt Pages CC Dest     Node Rmt Forms
   JESMSGLG JES2               2 F       13     1 R255        1 255 STD
   JESJCL   JES2               3 F      135     1 R255        1 255 STD
s  JESYSMSG JES2               4 F      272     1 R255        1 255 STD
   CMPRINT  STEP1    STEP1   110 P       13     1 R255        1 255 STD
   SYSPRINT STEP2            117 P        3     1 R255        1 255 STD
   CMPRINT  STEP3    STEP1   121 P       13     1 R255        1 255 STD
   SYSPRINT STEP4            128 P        3     1 R255        1 255 STD
   CMPRINT  STEP5    STEP1   132 P       13     1 R255        1 255 STD
   SYSOUT   STEP6    SORT    139 P       15     1 R255        1 255 STD
   CMPRINT  STEP7    STEP1   143 P       13     1 R255        1 255 STD
   CMPRT01  STEP7    STEP1   144 F       53     1 R255        1 255 STD
   CMPRINT  CLEANUP  STEP1   153 P       13     1 R255        1 255 STD
   CMPRT01  CLEANUP  STEP1   154 F       10     1 R255        1 255 STD
```

```
SDSF OUTPUT DISPLAY MLZAE834 JOB05363  DSID     4 LINE 0       COLUMNS 02- 81
COMMAND INPUT ===>                                            SCROLL ===> PAGE
****** ********** ********** TOP OF DATA **********
STMT NO. MESSAGE
       3 IEFC001I PROCEDURE NATPAEMS WAS EXPANDED USING PRIVATE LIBRARY ASWD.PR
      39 IEFC001I PROCEDURE NATPAEMS WAS EXPANDED USING PRIVATE LIBRARY ASWD.PR
      75 IEFC001I PROCEDURE NATPAEMS WAS EXPANDED USING PRIVATE LIBRARY ASWD.PR
     106 IEFC001I PROCEDURE JUSDSORT WAS EXPANDED USING SYSTEM LIBRARY SYS1.USE
     116 IEFC001I PROCEDURE NATPAEMS WAS EXPANDED USING PRIVATE LIBRARY ASWD.PR
     147 IEFC001I PROCEDURE NATPAEMS WAS EXPANDED USING PRIVATE LIBRARY ASWD.PR
ICP00011I MLZ      LAST ACCESS AT 06:54:09 ON TUESDAY, NOVEMBER 24, 1992
IEF142I MLZAE834 STEP1 STEP1 - STEP WAS EXECUTED - COND CODE 0000
NCC9021 ********** U.S.EPA  SYSTEM EPAG - STEP SUMMARY *****  **********
NCC9001                                                                 *
NCC9041 JOB05363 MLZAE834 STEP STEP1.STEP1                    CC:     0 *
NCC9001                                                                 *
NCC9061 START 11/24/92  6:56:01   STOP 11/24/92  6:56:04  ELAPSED      :03 *
NCC9001                                                                 *
NCC9081 TCB      :00.08, SRB      :00.01, VEC      :00.00,               *
NCC9081                              ADABAS      :00.03   TOTAL     :00.12 *
NCC9001                                                                 *
NCC9101 I/O COUNTS: DA       0, MT       0, OTHER       1,               *
NCC9101                                  ADABAS       2  TOTAL nn      3 *
NCC9001                                                                 *
```

Figure 3-26. The SDSF Job Dataset Display and Output Display Screens
These screens can be invoked from the ST, I, and O primary functions of SDSF by entering the "?" and "S" line commands.

3.9.9 Terminating SDSF

When you have finished using SDSF, you can terminate it using the END (PF3) key while the primary option menu screen is displayed. If you invoked SDSF directly from TSO, the END key takes you back to the READY prompt of TSO. If you invoked SDSF as option 8 of ISPF, the END key takes you to the ISPF primary menu. Also as ISPF option 8, you can terminate SDSF from any screen by entering ISPF's "=<option>" command in the COMMAND INPUT field. For example, entering "=x" while you are viewing job output would terminate both SDSF and ISPF, and take you to the READY prompt of TSO.

3.9.10 Ending Your TSO Session

You can logoff from TSO after a READY prompt is displayed on the screen. Simply type the word "logoff" and press the ENTER key. TSO displays a summary of usage and cost figures for your session, then the EPA logon menu appears.

4.0 Site and Monitor Reports

4.1 Overview

The reports described in this section present information about air quality monitoring sites themselves, rather than the data measured by the monitors. The primary information in these reports comes form the Air Quality Site File. Ancillary information comes from the AIRS GEO-COMMON File.

As described in Section 2, the reporting process includes online and batch parts. The online part accepts your report specifications and submits a batch job. The batch job selects and sorts the data according to your specifications, and generates the printed report and/or work file you requested. This is illustrated in Figure 4-1. See Section 2 for an overview of the reporting process, and see Section 3 for general operating instructions. Refer to Volume AQ1 of the AIRS User's Guide for record formats of the Site File and the work files generated by the site and monitor reports.

Since these reports do not include pollutant data, you cannot use selection or sorting criteria that involve pollutant-related items such as sampling interval or date. Those kinds of information are not in the Site File, so the reports cannot readily access them. The report descriptions in the following sections tell which fields may be used for selection and sorting, and explain report options.

The site and monitor reports described in this section are:

Title	Section
AMP220, Monitoring Network Report	4.2
AMP225, PAMS Monitoring Network Report	4.3
AMP380, Site Description Inventory Report	4.4
AMP390, Site Monitor Status Report	4.5

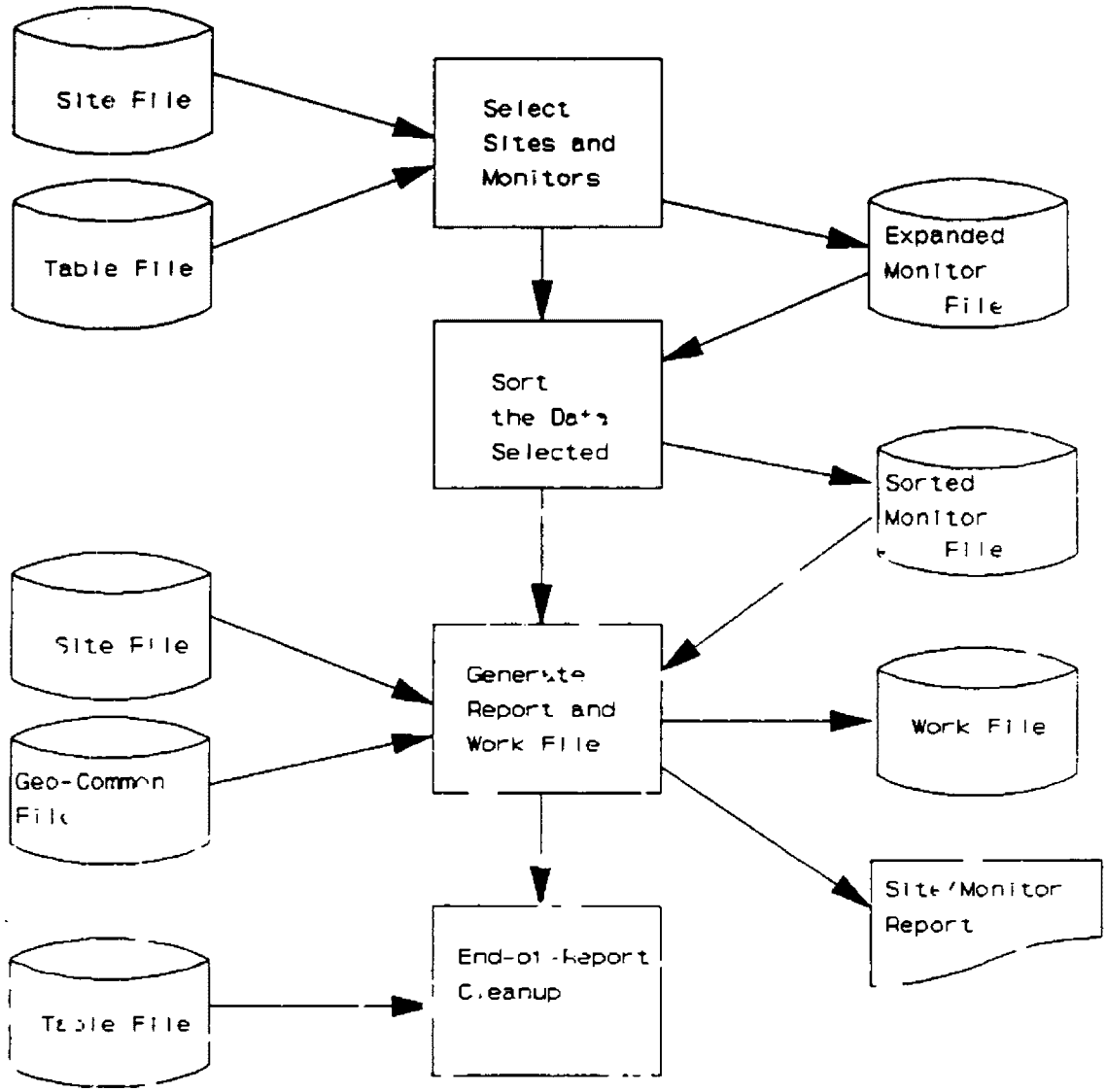


Figure 4-1. Batch Processing for Site and Monitor Reports

4.2 Monitoring Network Report (AMP220)

4.2.1 Description

The Monitoring Network Report lists information about the location and status of air quality monitoring stations for criteria pollutants. A sample of the report is shown in Figure 4-2. It has two main parts. The detail part of the report has an entry for each selected monitor. Besides identifying the AIRS site, pollutant, and monitor, each entry lists the site address, monitoring objective, measurement scale, quality assurance effective date, date sampling began, probe height, information about nearby roads, status with respect to siting criteria, administrative action taken by EPA with respect to the monitor, the action taken reason, and required sampling frequency. The summary part of the report summarizes the data for a state or EPA region. It gives the number of monitors for each criteria pollutant that was listed in the detail part of the report, and the number of monitors with three types of administrative action: approved, discontinued or redesignated, and no action.

The report begins with the detail part for the first combination of monitor type, EPA region, and state. When any of those changes, the appropriate summaries are generated, each one on a separate page. If state changes, a state summary is produced; if region or monitor type changes, both state and region totals are produced. Then the detail part of the report resumes on the next page.

The last page of the report is a processing summary. It lists the total number of records (monitors) processed by the report program and indicates that the report was generated successfully.

DATE 09/08/93
AMP220

EPA AEROMETRIC INFORMATION RETRIEVAL SYSTEM (AIRS)
AIR QUALITY SUBSYSTEM
MONITORING NETWORK REPORT

PAGE 1

MONITOR TYPE (1): NAMS

STATE: 29 MISSOURI REGION: 07

URBANIZED AREA (3760): KANSAS CITY, MO-KS

SITE ID	POLL	POC	REQD SAMP FREQ	ADDRESS MONITORING OBJECTIVE MEASUREMENT SCALE	MET-APP:A DATE	OPER DATE	SITE-CRIT MET	SITE-CRIT DATE	PROBE HT (M)	ACTION TAKEN REASON	--ROAD STREET NUM	DESCRIPTION--- DIST (M)	TRAFFIC (ADT)
29-095-0035	PM	1	6	27TH AND VAN BRUNT POPULATION EXPOSURE NEIGHBORHOOD - 500 M TO 4KM	88/08	88/08/01	YES	88/08	4	CAP 04	1	99	9500
29-095-1006	PM	2	6	FIRE ACADEMY 5130 DURAMUS RD. MAXIMUM CONCENTRATION NEIGHBORHOOD - 500 M TO 4KM	87/04	87/04/02	YES	87/04	6	CAP 04	2	22	3100
29-095-2002	PM	2	6	FIRE STA#8 , 1517 LOCUST ST. MAXIMUM CONCENTRATION NEIGHBORHOOD - 500 M TO 4KM	87/04	87/04/02	YES	87/04	6	CAP 04	3	14	1500

URBANIZED AREA (7040): ST. LOUIS, MO-IL

SITE ID	POLL	POC	REQD SAMP FREQ	ADDRESS MONITORING OBJECTIVE MEASUREMENT SCALE	MET-APP:A DATE	OPER DATE	SITE-CRIT MET	SITE-CRIT DATE	PROBE HT (M)	ACTION TAKEN REASON	--ROAD STREET NUM	DESCRIPTION--- DIST (M)	TRAFFIC (ADT)
29-189-2003	PM	1	6	77 HUNTER AVE MAXIMUM CONCENTRATION MIDDLE SCALE - 100 M TO 500 M	88/07	88/07/01	YES	88/07	5	CAP 04	1	25	97100
29-510-0006	PM	2	6	14TH & MARKET MAXIMUM CONCENTRATION NEIGHBORHOOD - 500 M TO 4KM	87/11	87/11/03	YES	87/11	14	CAP 04	2	38	15900
29-510-0007	PM	2	6	127 SOUTH BROADWAY MAXIMUM CONCENTRATION NEIGHBORHOOD - 500 M TO 4KM	88/08	86/08/01	YES	88/08	10	CAP 04		23	16000

Figure 4-2. Monitoring Network Report - Detail Page (1 of 2)

DATE 09/08/93
AMP220

EPA AEROMETRIC INFORMATION RETRIEVAL SYSTEM (AIRS)
AIR QUALITY SUBSYSTEM
MONITORING NETWORK REPORT

PAGE 3

MONITOR TYPE (1): NAMS

SUMMARY FOR STATE (29): MISSOURI REGION: 07

	TSP	SO2	NO2	CO	O3	PB	PM
TOTAL NUMBER MONITORS APPROVED	0	0	0	0	0	0	8
TOTAL NUMBER MONITORS DISCONTINUED OR REDESIGNATED	0	0	0	0	0	0	0
TOTAL NUMBER MONITORS WITH NO ACTION	0	0	0	0	0	0	0
TOTAL NUMBER MONITORS	0	0	0	0	0	0	8

Figure 4-2. Monitoring Network Report - Summary Page (2 of 2)

4.2.2 Report Generation Options

The options available for the Monitoring Network Report have to do with the output medium: printed report or work file. The report options screen, shown in Figure 4-3, allows you to select the type(s) of output you want.

The default option is to generate only a printed report. If you are using report criteria for the Monitoring Network Report that you saved previously, your saved specifications for report options are displayed instead of the default.

The work file format for this report is given in Volume AQ1.

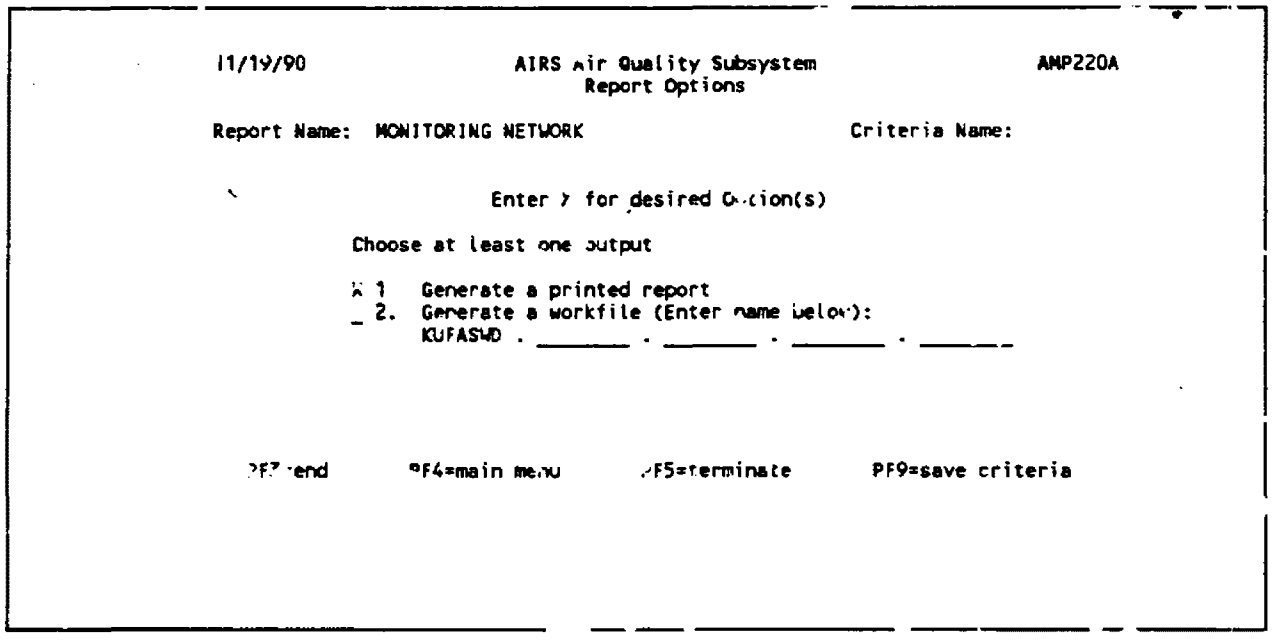


Figure 4-3. Report Options Screen for the Monitoring Network Report

Instructions

You may choose either or both of the following report options:

option 1	generate a printed report
option 2	generate a work file (disk)

If you choose a work file, you must specify a dataset name for it; otherwise, you may not specify a dataset name.

Read Section 3.1 if you are not familiar with how to use the report options screen. Section 3.6.2 describes the characteristics of valid dataset names.

Error Messages

The error messages listed below (in alphabetical order) are displayed at the top of the report options screen if you make a mistake in specifying report options.

DATASET NAME IS INVALID
The work file dataset name is not valid. Refer to section 3.6.2 of this volume for a description of dataset naming conventions.

DATASET NAME NOT ALLOWED WITHOUT SPECIFYING OPTION 2
If a work file is not selected as an output (option 2), the dataset name must be blank.

PLEASE CHOOSE OPTION 1 OR 2 FOR OUTPUT
Either a printed report (option 1) or a work file (option 2) must be selected as a report output.

PLEASE ENTER A VALID DATASET NAME
If a work file is selected, a dataset name must be specified.

PLEASE ENTER BLANK OR 'X'
Only blank and "X" are valid entries for selecting report options. To select an option, type "X" beside it.

PLEASE USE A VALID PF-KEY
A PF key not defined for this screen was used.

4.2.3 Data Selection Options

You may select which monitors are included in the Monitoring Network Report using the select criteria screen. A sample screen is shown in Figure 4-4. The leftmost portion of the screen is shown at the top of the figure and the rightmost portion is shown at the bottom.

There are two groups of selection criteria. The first group consists of "geographic" criteria. Only certain combinations of these fields are allowed. You may use any one of the following combinations of geographic selection fields:

state (code or abbreviation)
state + county
state + county + site
state + reporting organization
state + city
state + AQCR
AQCR
urban area
MSA
CMSA
MSA-rep
CMSA-rep
status area

The second group of selection criteria consists of the following fields:

parameter (criteria pollutants only)
monitor type
begin-date
end-date

In a given line on the select criteria screen, you may specify one of the geographic criteria in the first group and/or any of the criteria in the second group. You must specify one of the geographic criteria or parameter in each line. For example, you could specify selection based on state, parameter, and monitor type; or you could select based only on parameter. On the other hand, you may not specify selection based on state and urban area, or on monitor type alone.

In addition to the monitor type codes listed in Volume GC2 of the AIRS User's Guide, you may use the code "B" to select both NAMS and SLAMS monitors and code "P" to select PAMS monitors.

Online Help is available for all of the selection criteria fields except BEGIN-DATE and END-DATE. The Help facility allows you to browse through tables of values, with descriptions, for the codes you need to enter, and then to select the value that you wish to use. The Help facility is described in detail in Section 3.6.4.

```
09/30/92                    AIRS Air Quality Subsystem                    AMP220B
                                 Select Criteria                          Page 1/2

Report Name:  MONITORING NETWORK                          Criteria Name:

                                                BEGIN   END
                                                DATE    DATE    MON                 REP  URBAN
  ST  CNTY  SITE  PARA-METER  METH INT           YYMMDD  YYMMDD  TYPE  CITY  AQCR  ORG  AREA
  __  ___   ____  _________                     ______  ______  ____  ____  ____  ____ ____
  __  ___   ____  _________                     ______  ______  ____  ____  ____  ____ ____
  __  ___   ____  _________                     ______  ______  ____  ____  ____  ____ ____
  __  ___   ____  _________                     ______  ______  ____  ____  ____  ____ ____
  __  ___   ____  _________                     ______  ______  ____  ____  ____  ____ ____
  __  ___   ____  _________                     ______  ______  ____  ____  ____  ____ ____
  __  ___   ____  _________                     ______  ______  ____  ____  ____  ____ ____
  __  ___   ____  _________                     ______  ______  ____  ____  ____  ____ ____
  __  ___   ____  _________                     ______  ______  ____  ____  ____  ____ ____
  __  ___   ____  _________                     ______  ______  ____  ____  ____  ____ ____

PF1=help   PF2=duplicate   PF3=end  PF4=main menu   PF5=terminate  PF6=rpt options
PF7=back   PF8=more        PF9=save criteria       PF10=left      PF11=right
```

```
09/30/92                    AIRS Air Quality Subsystem                    AMP220B
                                 Select Criteria                          Page 2/2

Report Name:  MONITORING NETWORK                          Criteria Name:

                          MSA     CMSA    STATUS
  MSA     CMSA            REP     REP     AREA
  _____   ____            ____    ____    ____
  _____   ____            ____    ____    ____
  _____   ____            ____    ____    ____
  _____   ____            ____    ____    ____
  _____   ____            ____    ____    ____
  _____   ____            ____    ____    ____
  _____   ____            ____    ____    ____
  _____   ____            ____    ____    ____
  _____   ____            ____    ____    ____
  _____   ____            ____    ____    ____

PF1=help   PF2=duplicate   PF3=end  PF4=main menu   PF5=terminate  PF6=rpt options
PF7=back   PF8=more        PF9=save criteria       PF10=left      PF11=right
```

Figure 4-4. Select Criteria Screen for the Monitoring Network Report

Warning

If a non-criteria pollutant is specified, the pollutant labels and summaries reported will not be valid.

You may not specify selection based on method and interval. Selection based on begin and end dates is optional. When they are specified, they will be validated according to the error messages listed below. Although you may select on city and AQCR, they do not appear in the report.

Instructions

Enter selection criteria into the available fields on the select criteria screen, or alter the previously saved criteria displayed on the screen if you wish. You must specify criteria in at least one line on the screen. Press the ENTER key when you have finished entering or altering the criteria.

Read Section 3.6.3 if you are not familiar with how to use the select criteria screen. Refer to Volume GC2 of the AIRS User's Guide for lists of valid codes to use for selection criteria.

Press PF1=help for general information about the select criteria process. For Field-specific Help, enter a "?" in the first position of any field (except BEGIN-DATE or END-DATE).

Refer to Volume GC2 of the AIRS User's Guide for lists of valid codes to use for selection criteria.

Error Messages

The error messages listed below (in alphabetical order) are displayed at the top of the select criteria screen if you make a mistake in specifying select criteria. See Volume GC4 of the AIRS User's Guide for explanations of the error messages that you may encounter while using Field-specific Help.

A PARAMETER IS REQUIRED FOR STATUS-AREA CODE
If status area is entered, parameter must be entered.

A STATE IS REQUIRED FOR CITY
If city is entered, state must be entered.

A STATE IS REQUIRED FOR COUNTY
If county is specified, state must be specified.

A STATE IS REQUIRED FOR REPORT-ORG
If reporting organization is entered, state must be entered.

BEGIN-DATE IS < 570101 OR > CURRENT DATE
The begin date entered by the user is < 570101 or > current date.

ENTER SELECTION CRITERIA OR USE A PF-KEY TO ESCAPE

ENTER was pressed without any selection criteria specified. Either specify criteria and press ENTER or use one of the valid PF keys to transfer to another screen or terminate the AIRS session.

PF2 INVALID - THERE ARE NO SELECTION CRITERIA TO DUPLICATE

Do not press PF2 without entering at least one selection criterion.

PF2 INVALID - MAXIMUM NUMBER OF SELECTION CRITERIA HAS BEEN SPECIFIED

Do not press PF2 when the last select criteria screen is full.

PF7 INVALID - THIS IS THE FIRST SELECT CRITERIA SCREEN

Do not press PF7 from the first select criteria screen; it is used to page backward.

PF8 INVALID - THIS IS THE FINAL SELECT CRITERIA SCREEN

Do not press PF8 from the last select criteria screen; it is used to page forward.

PF10 INVALID - THIS IS THE LEFT-MOST SELECT CRITERIA SCREEN

Do not press PF10 while the leftmost select criteria screen is displayed.

PF11 INVALID - THIS IS THE RIGHT-MOST SELECT CRITERIA SCREEN

Do not press PF11 while the rightmost select criteria screen is displayed.

PLEASE DO NOT ENTER BOTH STATE AND CMSA CODE

Do not enter both state and CMSA code.

PLEASE DO NOT ENTER BOTH STATE AND CMSA-REP CODE

Do not enter both state and CMSA-rep code.

PLEASE DO NOT ENTER BOTH STATE AND MSA CODE

Do not enter both state and MSA code.

PLEASE DO NOT ENTER BOTH STATE AND MSA-REP CODE

Do not enter both state and MSA-rep code.

PLEASE DO NOT ENTER BOTH STATE AND STATUS-AREA CODE

Do not enter both state and status area code.

PLEASE DO NOT ENTER BOTH STATE AND URBAN-AREA CODE

Do not enter both state and urban area.

PLEASE ENTER A NUMERIC BEGIN-DATE

The begin date entered by the user is non-numeric, or it is blank and end date is non-blank.

PLEASE ENTER A NUMERIC END-DATE
The end date entered by the user is non-numeric, or it is blank and begin date is non-blank.

PLEASE ENTER A VALID AQCR CODE
The AQCR code is not valid.

PLEASE ENTER A VALID CITY CODE
The combination of city and state codes is not valid.

PLEASE ENTER A VALID CMSA CODE
The MSA code entered must be in the AIRS GEO-COMMON File.

PLEASE ENTER A VALID CMSA-REP CODE
The CMSA-rep code entered must be in the AIRS GEO-COMMON File.

PLEASE ENTER A VALID COUNTY CODE
The combination of county and state codes is not valid.

PLEASE ENTER A VALID MONITOR-TYPE CODE
The monitor type code is not valid. Use a code listed in Volume GC2, ' ' to select all monitor types, 'B' to select both NAMS and SLAMS monitor types, or 'P' to select PAMS monitor types.

PLEASE ENTER A VALID MSA CODE
The MSA code entered must be in the AIRS GEO-COMMON File.

PLEASE ENTER A VALID MSA-REP CODE
The MSA-rep code entered must be in the AIRS GEO-COMMON File.

PLEASE ENTER A VALID PARAMETER CODE (CRITERIA POLLUTANTS ONLY)
The parameter entered must be one of the criteria pollutants: 11101 (TSP), 12128 (Pb), 42101 (CO), 42401 (SO_2), 42602 (NO_2), 44201 (O_3), 81102 (PM).

PLEASE ENTER A VALID REPORT-ORG
The combination of reporting organization and state is not valid.

PLEASE ENTER A VALID SITE CODE
The combination of state, county, and site does not match any existing site-ID in the Site file.

PLEASE ENTER A VALID STATE ABBREVIATION
The state abbreviation is not valid.

PLEASE ENTER A VALID STATE CODE
The state code is not valid.

PLEASE ENTER A VALID STATUS-AREA CODE FOR PARAMETER

The combination of status area and parameter entered must be in the AIRS GEO-COMMON File.

PLEASE ENTER A VALID URBAN-AREA CODE

The urban area code is not valid.

PLEASE ENTER A VALID 6-DIGIT BEGIN-DATE

The begin date entered by the user is not YYMMDD format.

PLEASE ENTER A VALID 6-DIGIT END-DATE.

The end date entered by the user is not YYMMDD format.

PLEASE ENTER AN END-DATE THAT IS GREATER THAN OR EQUAL TO THE BEGIN-DATE

The end date is less than the begin date.

PLEASE ENTER ONE: STATE, PARAMETER, AQCR, URBAN AREA, MSA, CMSA, MSA-REP, CMSA-REP, OR STATUS-AREA.

One of the geographic criteria or parameter must be used in each line of select criteria.

PLEASE ENTER ONLY ONE: AQCR, URBAN-AREA, CITY, REPORT-ORG, COUNTY, MSA, CMSA, MSA-REP, CMSA-REP, STATUS-AREA

Only the combinations of geographic selection listed at the beginning of this section are valid.

PLEASE FILL ALL LINES BEFORE GOING ON TO THE NEXT SCREEN

PF8 is valid only when the current screen is full or when there are more criteria on a subsequent screen.

PLEASE USE A VALID PF-KEY

A PF key not defined for this screen was used.

THE COUNTY CODE IS REQUIRED WITH THE SITE CODE

If site is entered, county must be entered.

STATUS-AREA CODE NOT ALLOWED WITH THIS PARAMETER

A status area was entered for a parameter that does not allow entry of a status area.

4.2.4 Data Sorting Options

The Monitoring Network Report has a fixed sort order that cannot be changed. Therefore, there is no sort criteria screen for this report. The sort order is:

monitor type
EPA region
state
urban area
monitor-ID (state, county, site, parameter, POC).

Instructions

None

4.3 PAMS Monitoring Network Report (AMP225)

4.3.1 Description

The PAMS Monitoring Network Report lists the status of photochemical Air Quality monitors for criteria pollutants with respect to siting criteria and operational conditions. A sample of the report is shown in Figure 4-5. The report lists the status of and descriptive information about each selected monitor. If the field MET-SITE-ID is valued for a particular site on the report, then the associated Meteorological or "Met" monitors are also printed. The report lists both site and monitor information for each selected monitor within a particular MSA/CMSA represented.

The entire report header is printed whenever a new page is started. At each break of the fields MONITOR-TYPE, REGION, STATE, MSA/CMSA or site, the report creates a new report page. Whenever a new page is started, the current SITE-ID, ADDRESS, CITY, and STATE are re-printed at the top of the page. There may be up to three occurrences of SITE-TYPE-GROUP (SITE-LOCATION-TYPE, MSA-REPRESENTED, CMSA-REPRESENTED) for each monitor selected. The report creates a new monitor listing for each occurrence.

DATE 09/27/93 EPA AEROMETRIC INFORMATION RETRIEVAL SYSTEM (AIRS) PAGE 21
AMP225 AIR QUALITY SUBSYSTEM
PAMS MONITORING NETWORK REPORT

MONITOR TYPE (2): SLAMS
REGION: 08
STATE (08): COLORADO
MSA-REP (2080): DENVER, CO

SITE-INFORMATION---------- MONITOR INFORMATION----------

SITE-ID
ADDRESS
CITY, STATE

TYPE SITE / DESCRIPTION

ROAD (#) / NAME / TRAFFIC FLOW			PARAMETER / DESCRIPTION SAMPLING FREQUENCY DESCRIPTION	POC	ROAD # / DISTANCE ROAD (M)	PROBE HT(M)	DATE SAMPLING BEGAN	EFFECTIVE APP DATE AS PAMS	SITE CRIT MET ACTION TYPE ACTION REASON
08-001-0001			(11101) SUSPENDED PARTICULAT	1	(1) 20	4	01/01/64	08/31/88	Y
4301 E 72ND AVE (ADAMS CITY)			* DESCRIPTION UNKNOWN *						RDS
NOT IN A CITY, CO									88
(3) MAX OZONE CONCENT									
(1)	002000	ADT							
(2)	002000	ADT							
(3)	014500	ADT							
(4)	000500	ADT							
(5)	009500	ADT							
30-003-0012			(62101) OUTDOOR TEMPERATURE	1		3	01/01/81	01/01/81	
DECKER COAL #2 DECKER MT									
NOT IN A CITY, MT									
			(62103) DEW POINT	1		3	01/01/81	01/01/81	
			(64101) BAROMETRIC PRESSURE	1		3	01/01/81	01/01/81	
			(65102) RAIN/MELT PRECIP	1		3	01/01/81	01/01/81	

Figure 4-5. PAMS Monitoring Network Report (1 of 2)

DATE 09/27/93 EPA AEROMETRIC INFORMATION RETRIEVAL SYSTEM (AIRS) PAGE 23
AMP225 AIR QUALITY SUBSYSTEM
PAMS MONITORING NETWORK REPORT

MONITOR TYPE (3): OTHER
REGION: 08
STATE (08): COLORADO
MSA/CMSA ( ): NO REPRESENTED AREA LISTED

SITE-INFORMATION---------- MONITOR INFORMATION----------

SITE-ID
ADDRESS
CITY, STATE

TYPE SITE / DESCRIPTION

ROAD (#) / NAME / TRAFFIC FLOW	PARAMETER / DESCRIPTION SAMPLING FREQUENCY DESCRIPTION	POC	ROAD # / DISTANCE ROAD (M)	PROBE HT(M)	DATE SAMPLING BEGAN	EFFECTIVE APP DATE AS PAMS	SITE CRIT MET ACTION TYPE ACTION REASON
08-001-0005 5400 N. WASHINGTON, CLINICARE,GLOBEVILLE NOT IN A CITY, CO	(11101) SUSPENDED PARTICULAT * DESCRIPTION UNKNOWN *	1		10	11/01/89	11/01/89	
(1) 000200 ADT (2) 010000 ADT	(12103) ARSENIC (TSP) * DESCRIPTION UNKNOWN *	1		10	11/01/89	11/01/89	
	(12110) CADMIUM (TSP) * DESCRIPTION UNKNOWN *	1		10	11/01/89	11/01/89	
	(12167) ZINC (TSP) * DESCRIPTION UNKNOWN *	1		0	11/01/89	11/01/89	
38-007-0001 TRNF - SU (MEDORA) NOT IN A CITY, ND	(61101) WIND SPEED	1		10	03/05/80	03/05/80	N ARP 02
	(61102) WIND DIRECTION	1		10	03/05/80	03/05/80	Y DAP 02
	(61102) WIND DIRECTION	2		3	03/05/80	03/05/80	Y ARP 01

Figure 4-5. PAMS Monitoring Network Report (2 of 2)

4.3.2 Report Generation Options

The options available for the PAMS Monitoring Network Report have to do with the output medium: printed report or work file. The report options screen, shown in Figure 4-6, allows you to select the type(s) of output you want.

The default option is to generate only a printed report. If you are using report criteria for the PAMS Monitoring Network Report that you saved previously, your saved specifications for report options are displayed instead of the default.

The work file format for this report is given in Volume AQ1.

```
02/19/93                    AIRS Air Quality Subsystem                    AMP225A
                                 Report Options

Report Name:  PAMS Monitoring Network                Criteria Name:

                          Enter X for Desired Option(s)

                Choose at least one output

                X 1.  Generate a printed report
                _ 2.  Generate a workfile (Enter name below):
                      AJFASWD . _______ . _______ . ___ ___ . _______


   PF3=end        PF4=main menu        PF5=terminate        PF9=save criteria
```

Figure 4-6 Report Options Screen for the PAMS Monitoring Network Report

Instructions

You may choose either or both of the following report options:

option 1	generate a printed report
option 2	generate a work file (disk)

If you choose a work file, you must specify a dataset name for it; otherwise, you may not specify a dataset name.

Read Section 3.1 if you are not familiar with how to use the report options screen. Section 3.6.2 describes the characteristics of valid dataset names.

Error Messages

The error messages listed below (in alphabetical order) are displayed at the top of the report options screen if you make a mistake in specifying report options.

DATASET NAME IS INVALID
The work file dataset name is not valid. Refer to Section 3.6.2 of this volume for a description of dataset naming conventions.

DATASET NAME NOT ALLOWED WITHOUT SPECIFYING OPTION 2
If a work file is not selected as an output (option 2), the dataset name must be blank.

PLEASE CHOOSE OPTION 1 OR 2 FOR OUTPUT
Either a printed report (option 1) or a work file (option 2) must be selected as a report output.

PLEASE ENTER A VALID DATASET NAME
If a work file is selected, a dataset name must be specified.

PLEASE ENTER BLANK OR 'X'
Only blank and "X" are valid entries for selecting report options. To select an option, type "X" beside it.

PLEASE USE A VALID PF-KEY
A PF key not defined for this screen was used.

4.3.3 Data Selection Options

You may select which monitors are included in the PAMS Monitoring Network Report using the select criteria screen. A sample screen is shown in Figure 4-7. The leftmost portion of the screen is shown at the top of the figure and the rightmost portion is shown at the bottom.

There are two groups of selection criteria. The first group consists of "geographic" criteria. Only certain combinations of these fields are allowed. You may use any one of the following combinations of geographic selection fields:

state (code or abbreviation)
state + county
state + county + site
state + reporting organization
state + city
state + AQCR
AQCR
urban area
MSA
CMSA
MSA-rep
CMSA-rep
status area

The second group of selection criteria consists of the following fields:

parameter (criteria pollutants only)
monitor type
begin-date
end-date

In a given line on the select criteria screen, you may specify one of the geographic criteria in the first group and/or any of the criteria in the second group. You must specify one of the geographic criteria or parameter in each line. For example, you could specify selection based on state, parameter, and monitor type; or you could select based only on parameter. On the other hand, you may not specify selection based on state and urban area, or on monitor type alone.

In addition to the monitor type codes listed in Volume GC2 of the AIRS User's Guide, you may use the code "B" to select both NAMS and SLAMS monitors and code "P" to select PAMS monitors.

Online Help is available for all of the selection criteria fields except BEGIN-DATE and END-DATE. The Help facility allows you to browse through tables of values, with descriptions, for the codes you need to enter, and then to select the value that you wish to use. The Help facility is described in detail in Section 3.6.4.

```
08/18/92                    AIRS Air Quality Subsystem                    AMP225B
                                 Select Criteria                          Page 1/2

Report Name:  PAMS MONITORING NETWORK                        Criteria Name:

                                                BEGIN   END
                                PARA-           DATE    DATE   MON
  ST  CNTY  SITE  METER  METH INT               YYMMDD  YYMMDD TYPE  CITY  AQCR  REP ORG  URBAN AREA
  __  ___   ____  _____                         ______  ______ _     ____  ____  _______  _____
  __  ___   ____  _____                         ______  ______ _     ____  ____  _______  _____
  __  ___   ____  _____                         ______  ______ _     ____  ____  _______  _____
  __  ___   ____  _____                         ______  ______ _     ____  ____  _______  _____
  __  ___   ____  _____                         ______  ______ _     ____  ____  _______  _____
  __  ___   ____  _____                         ______  ______ _     ____  ____  _______  _____
  __  ___   ____  _____                         ______  ______ _     ____  ____  _______  _____
  __  ___   ____  _____                         ______  ______ _     ____  ____  _______  _____
  __  ___   ____  _____                         ______  ______ _     ____  ____  _______  _____
  __  ___   ____  _____                         ______  ______ _     ____  ____  _______  _____

PF1=help  PF2=duplicate  PF3=end  PF4=main menu  PF5=terminate  PF6=rpt options
PF7=back  PF8=more       PF9=save criteria      PF10=left       PF11=right
```

```
08/18/92                    AIRS Air Quality Subsystem                    AMP225B
                                 Select Criteria                          Page 2/2

Report Name:  PAMS MONITORING NETWORK                        Criteria Name:

                 MSA     CMSA    STATUS
  MSA   CMSA     REP     REP     AREA
  ____  ____     ____    ____    ____
  ____  ____     ____    ____    ____
  ____  ____     ____    ____    ____
  ____  ____     ____    ____    ____
  ____  ____     ____    ____    ____
  ____  ____     ____    ____    ____
  ____  ____     ____    ____    ____
  ____  ____     ____    ____    ____
  ____  ____     ____    ____    ____
  ____  ____     ____    ____    ____

PF1=help   PF2=duplicate  PF3=end  PF4=main menu  PF5=terminate   PF6=rpt options
PF7=back   PF8=more       PF9=save criteria      PF10=left       PF11=right
```

Figure 4-7. Select Criteria Screen for the PAMS Monitoring Network Report

Warning

If a non-criteria pollutant is specified, the pollutant labels and summaries reported will not be valid.

You may not specify selection based on method and interval. Selection based on begin and end dates is optional. When they are specified, they will be validated according to the error messages listed below. Although you may select on city and AQCR, they do not appear in the report.

Instructions

Enter selection criteria into the available fields on the select criteria screen, or alter the previously saved criteria displayed on the screen if you wish. You must specify criteria in at least one line on the screen. Press the ENTER key when you have finished entering or altering the criteria.

Read Section 3.6.3 if you are not familiar with how to use the select criteria screen. Refer to Volume GC2 of the AIRS User's Guide for lists of valid codes to use for selection criteria.

Press PF1=Help for general information about the select criteria process. For Field-specific Help, enter a "?" in the first position of any field (except BEGIN-DATE or END-DATE).

Error Messages

The error messages listed below (in alphabetical order) are displayed at the top of the select criteria screen if you make a mistake in specifying select criteria.

A PARAMETER IS REQUIRED FOR STATUS-AREA CODE
If status area is entered, parameter must be entered.

A STATE IS REQUIRED FOR CITY
If city is entered, state must be entered.

A STATE IS REQUIRED FOR COUNTY
If county is specified, state must be specified.

A STATE IS REQUIRED FOR REPORT-ORG
If reporting organization is entered, state must be entered.

BEGIN-DATE IS < 570101 OR > CURRENT-DATE
The BEGIN-DATE entered by the user is < 570101 or > CURRENT-DATE.

ENTER SELECTION CRITERIA OR USE A PF-KEY TO ESCAPE
ENTER was pressed without any selection criteria specified. Either specify criteria and press ENTER or use one of the valid PF keys to transfer to another screen or terminate the AIRS session.

PF2 INVALID - THERE ARE NO SELECTION CRITERIA TO DUPLICATE
Do not press PF2 without entering at least one selection criterion.

PF2 INVALID - MAXIMUM NUMBER OF SELECTION CRITERIA HAS BEEN SPECIFIED
Do not press PF2 when the last select criteria screen is full.

PF7 INVALID - THIS IS THE FIRST SELECT CRITERIA SCREEN
Do not press PF7 from the first select criteria screen; it is used to page backward.

PF8 INVALID - THIS IS THE FINAL SELECT CRITERIA SCREEN
Do not press PF8 from the last select criteria screen; it is used to page forward.

PF10 INVALID - THIS IS THE LEFT-MOST SELECT CRITERIA SCREEN
Do not press PF10 while the leftmost select criteria screen is displayed.

PF11 INVALID - THIS IS THE RIGHT-MOST SELECT CRITERIA SCREEN
Do not press PF11 while the rightmost select criteria screen is displayed.

PLEASE DO NOT ENTER BOTH STATE AND CMSA CODE
Do not enter both state and CMSA code.

PLEASE DO NOT ENTER BOTH STATE AND CMSA-REP CODE
Do not enter both state and CMSA-rep code.

PLEASE DO NOT ENTER BOTH STATE AND MSA CODE
Do not enter both state and MSA code.

PLEASE DO NOT ENTER BOTH STATE AND MSA-REP CODE
Do not enter both state and MSA-rep code.

PLEASE DO NOT ENTER BOTH STATE AND STATUS-AREA CODE
Do not enter both state and status area.

PLEASE DO NOT ENTER BOTH STATE AND URBAN-AREA CODE
Do not enter both state and urban area.

PLEASE ENTER A NUMERIC BEGIN-DATE
The begin date entered by the user is non-numeric, or it is blank and end date is non-blank.

PLEASE ENTER A NUMERIC END-DATE
The end date entered by the user is non-numeric, or it is blank and begin date is non-blank.

PLEASE ENTER A VALID AQCR CODE
The AQCR code is not valid.

PLEASE ENTER A VALID CITY CODE
The combination of city and state codes is not valid.

PLEASE ENTER A VALID CMSA CODE
The CMSA code entered must be in the AIRS GEO-COMMON File.

PLEASE ENTER A VALID CMSA-REP CODE
The CMSA-rep code entered must be in the AIRS GEO-COMMON File.

PLEASE ENTER A VALID COUNTY CODE
The combination of county and state codes is not valid.

PLEASE ENTER A VALID MONITOR-TYPE CODE
The monitor type code is not valid. Use a code listed in Volume GC2, ' ' to select all monitor types, 'B' to select both NAMS and SLAMS monitor types, or 'P' to select PAMS monitor types.

PLEASE ENTER A VALID MSA CODE
The MSA code entered must be in the AIRS GEO-COMMON File.

PLEASE ENTER A VALID MSA-REP CODE
The MSA-rep code entered must be in the AIRS GEO-COMMON File.

PLEASE ENTER A VALID PARAMETER CODE (CRITERIA POLLUTANTS ONLY)
The parameter entered must be one of the criteria pollutants: 11101 (TSP), 12128 (Pb), 42101 (CO), 42401 (SO_2), 42602 (NO_2), 44201 (O_3), 81102 (PM).

PLEASE ENTER A VALID REPORT-ORG
The combination of reporting organization and state is not valid.

PLEASE ENTER A VALID SITE CODE
The combination of state, county and site does not match any existing site-ID in the Site file.

PLEASE ENTER A VALID STATE ABBREVIATION
The state abbreviation is not valid.

PLEASE ENTER A VALID STATE CODE
The state code is not valid.

PLEASE ENTER A VALID STATUS-AREA FOR PARAMETER
The combination of status area and parameter entered must be in the AIRS GEO-COMMON File.

PLEASE ENTER A VALID URBAN-AREA CODE
The urban area code is not valid.

PLEASE ENTER A VALID 6-DIGIT BEGIN-DATE

The begin date entered by the user is not YYMMDD format.

PLEASE ENTER A VALID 6-DIGIT END-DATE

The end date entered by the user is not YYMMDD format.

PLEASE ENTER AN END-DATE THAT IS GREATER THAN OR EQUAL TO THE BEGIN-DATE

The end date is less than the begin date.

PLEASE ENTER ONE: STATE, PARAMETER, AQCR, URBAN AREA, MSA, CMSA, MSA-REP, CMSA-REP, OR STATUS-AREA

One of the geographic criteria or parameter must be used in each line of select criteria.

PLEASE ENTER ONLY ONE: AQCR, URBAN-AREA, CITY, REPORT-ORG, COUNTY, MSA, CMSA, MSA-REP, CMSA-REP, OR STATUS AREA

Only the combinations of geographic selection listed at the beginning of this section are valid.

PLEASE FILL ALL LINES BEFORE GOING ON TO THE NEXT SCREEN

PF8 is valid only when the current screen is full or when there are more criteria on a subsequent screen.

PLEASE USE A VALID PF-KEY

A PF key not defined for this screen was used.

STATUS-AREA CODE NOT ALLOWED WITH THIS PARAMETER

A status area was entered for a parameter that does not allow entry of a status area.

THE COUNTY CODE IS REQUIRED WITH THE SITE CODE

If site is entered, county must be entered.

4.3.4 Data Sorting Options

The PAMS Monitoring Network Report has a fixed sort order that cannot be changed. Therefore, there is no sort criteria screen for this report. The sort order is:

monitor type sort
monitor type
EPA region
state
MSA/CMSA
county
site
parameter status
parameter
POC

Instructions

None

4.4 Site Description Inventory Report (AMP380)

4.4.1 Description

The Site Description Inventory Report lists geographical, historical, and other characteristics of air quality monitors and sites. The report always has a description for each selected site. When the user selects the Include Monitor Description option and there are multiple monitors for a given site, the site description is not repeated. The Include Monitor Description option lists the fields in the Monitor record for all parameters. However, PM-10 group fields at the area, state and EPA level are listed if at least one of them is valued and the parameter is PM-10 (81102) or TSP (11101). Samples of the report are shown in Figures 4-8 and 4-9.

The report begins with the first combination of state, county, and site. The state code and name print at the top of each page as a subheading. Whenever state changes, a new page begins. Whenever county and site change, a new entry begins. However, when the Include Monitor Descriptions Option is specified and a page break occurs while printing the monitor descriptions for a site, the site-ID is printed at the top of the page as a subheading.

The last page of the report is a processing summary. It lists the total number of records (sites) processed by the report program and indicates that the report was generated successfully.

```
DATE  09/08/93                          EPA AEROMETRIC INFORMATION RETRIEVAL SYSTEM (AIRS)                          PAGE     1
AMP380                                                AIR QUALITY SUBSYSTEM
                                                 SITE DESCRIPTION INVENTORY

EPA REGION: 07                                        STATE (29): MISSOURI

SITE ID: 29-001-0001    ADDRESS: SCIENCE BUILDING NE STATE UNIVERSITY       STATE/LOCAL ID:
CITY POPULATION :     17,167    CITY     (39026): KIRKSVILLE                      DIST CITY:     K     UTM ZONE : 15
AQCR POPULATION :    710,677    COUNTY     (001): ADAIR CO                        DIFF GMT : 06        UTM NORTH:  4448564
                                DATE ESTABLISHED:     /  /                       ELEV MSL :   302 M   UTM EAST :   535469
MET SITE:                       DATE TERMINATED :     /  /                       COMP SECT:           LATITUDE : +40:11:19
  SITE ID      :   -   -        DATE LAST UPDATE: 1992/09/03                                         LONGITUDE: -092:35:00
  DISTANCE SITE :       M       HQ EVAL DATE    :     /  /
  DIRECTION SITE:               REGN EVAL DATE  :     /  /
  TYPE SITE  ( ):
AQCR                           (137): NORTHERN MISSOURI
CMSA LOCATED IN                (0000): ** DESCRIPTION UNKNOWN **
LAND USE                         (1): RESIDENTIAL
LOCATION SETTING                 (1): URBAN AND CENTER CITY
MSA LOCATED IN                 (0000): NOT IN AN MSA
SITE COMMENT 1                       : ACTIVE 8/73
URBAN AREA REPRESENTED         (0000): NOT IN AN URBAN AREA


SITE ID: 29-005-0001    ADDRESS: WATSON, MO NORTH SITE                      STATE/LOCAL ID:
CITY POPULATION :         1    CITY     (00000): NOT IN A CITY                   DIST CITY:     K     UTM ZONE : 15
AQCR POPULATION :    710,677    COUNTY     (005): ATCHISON CO                     DIFF GMT : 06        UTM NORTH:  4400523
                                DATE ESTABLISHED: 1980/01/01                      ELEV MSL :   300 M   UTM EAST :   340762
MET SITE:                       DATE TERMINATED :     /  /                       COMP SECT:           LATITUDE : +39:44:30
  SITE ID      :   -   -        DATE LAST UPDATE: 1993/03/31                                         LONGITUDE: -094:51:30
  DISTANCE SITE :       M       HQ EVAL DATE    :     /  /
  DIRECTION SITE:               REGN EVAL DATE  :     /  /
  TYPE SITE  ( ):
AQCR                           (137): NORTHERN MISSOURI
CMSA LOCATED IN                (000.): ** DESCRIPTION UNKNOWN **
LAND USE                         (4): AGRICULTUPAL
LOCATION SETTING                 (2): RURAL
MSA LOCATED IN                 (0000): NOT IN AN MSA
SUPPORTING AGENCY               (009): ASSOCIATED ELECTRIC
URBAN AREA REPRESENTED         (0000): NOT IN AN URBAN AREA
SITE TYPE:
SITE LOCATION TYPE                                                  MSA OR CMSA REPRESENTED
(0): ********** DESCRIPTION UNKNOWN **********
(0): ********** DESCRIPTION UNKNOWN **  ******
(0): ********** DESCRIPTION UNKNOWN **********
```

Figure 4-6. Site Description Inventory Report, Format I

```
DATE  09/08/93                    EPA AEROMETRIC INFORMATION RETRIEVAL SYSTEN (AIRS)                    PAGE     1
AMP380                                        AIR QUALITY SUBSYSTEM
                                          SITE DESCRIPTION INVENTORY

EPA REGION: 07                              STATE (29): MISSOURI


SITE ID: 29-001-0001    ADDRESS: SCIENCE BUILDING NE STATE UNIVERSITY      STATE/LOCAL ID:
CITY POPULATION :     17,167    CITY     (39026): KIRKSVILLE                    DIST CITY:     K     UTM ZONE : 15
AQCR POPULATION :    710,677    COUNTY     (001): ADAIR CO                      DIFF GMT : 06        UTM NORTH:  4448564
                                DATE ESTABLISHED:     / /                     ELEV MSL :   302 M   UTM EAST :   535469
MET SITE:                       DATE TERMINATED :     / /                     COMP SECT:           LATITUDE : +40:11:19
  SITE ID       :   -   -       DATE LAST UPDATE: 1992/09/03                                      LONGITUDE: -092:35:00
  DISTANCE SITE :       M       NQ EVAL DATE    :     / /
  DIRECTION SITE:               REGN EVAL DATE  :     / /
  TYPE SITE  ( ):
AQCR                           (137): NORTHERN MISSOURI
CMSA LOCATED IN                (0000): ** DESCRIPTION UNKNOWN **
LAND USE                         (1): RESIDENTIAL
LOCATION SETTING                 (1): URBAN AND CENTER CITY
MSA LOCATED IN                 (0000): NOT IN AN MSA
SITE COMMENT 1                       : ACTIVE 8/73
URBAN AREA REPRESENTED         (0000): NOT IN AN URBAN AREA

PARAMETER          : 12105     DATE SAMPLING BEGAN: 1975/12/02    SITE CRITERIA MET     :     DATE SITE CRITERIA MET:     /
POC                : 1         DATE SAMPLING ENDED:     / /       REF MTHOD USED        :     REF METHOD USED DATE  :     /
MONITOR TYPE       : 0         DATE TYPE EFFECTIVE: 1975/12/02    QA PLAN               :     QA EFFECTIVE DATE     :     /
REPORTING ORGANIZ  :           RO EFFECTIVE DATE  :     / /       ACTION TYPE           :     ACTION TYPE REASON    :
COLLECTING LAB     : 000       AUDIT DATE         :     / /       MONITOR OPEN PATH NUM :     PROJECT CLASS         : 01
ANALYZING LAB      : 000       PROBE LOCATION  ( ):
UNRESTRIC AIR FLOW:            PROBE HEIGHT       :   9 M       HORIZONTAL DISTANCE   :     VERTICAL DISTANCE     :

MONITOR COMMENTS 1: 92

PARAMETER          : 12110     DATE SAMPLING BEGAN: 1975/01/01    SITE CRITERIA MET     :     DATE SITE CRITERIA MET:     /
POC                : 1         DATE SAMPLING ENDED:     / /       REF MTHOD USED        :     REF METHOD USED DATE  :     /
MONITOR TYPE       : 0         DATE TYPE EFFECTIVE: 1975/01/01    QA PLAN               :     QA EFFECTIVE DATE     :     /
REPORTING ORGANIZ  :           RO EFFECTIVE DATE  :     / /       ACTION TYPE           :     ACTION TYPE REASON    :
COLLECTING LAB     : 000       AUDIT DATE         :     / /       MONITOR OPEN PATH NUM :     PROJECT CLASS         : 01
ANALYZING LAB      : 000       PROBE LOCATION  ( ):
UNRESTRIC AIR FLOW:            PROBE HEIGHT       :   9 M       HORIZONTAL DISTANCE   :     VERTICAL DISTANCE     :

MONITOR COMMENTS 1: 92

PARAMETER          : 12112     DATE SAMPLING BEGAN: 1975/01/01    SITE CRITERIA MET     :     DATE SITE CRITERIA MET:     /
POC                : 1         DATE SAMPLING ENDED:     / /       REF MTHOD USED        :     REF METHOD USED DATE  :     /
MONITOR TYPE       : 0         DATE TYPE EFFECTIVE: 1975/01/01    QA PLAN               :     QA EFFECTIVE DATE     :     /
REPORTING ORGANIZ  :           RO EFFECTIVE DATE  :     / /       ACTION TYPE           :     ACTION TYPE REASON    :
COLLECTING LAB     : 000       AUDIT DATE         :     / /       MONITOR OPEN PATH NUM :     PROJECT CLASS         : 01
ANALYZING LAB      : 000       PROBE LOCATION  ( ):
UNRESTRIC AIR FLOW:            PROBE HEIGHT       :   9 M       HORIZONTAL DISTANCE   :     VERTICAL DISTANCE     :

MONITOR COMMENTS 1: 92
```

Figure 4-9. Site Description Inventory Report, Format II

4.4.2 Report Generation Options

The options available for the Site Description Inventory Report have to do with the output medium: printed report or work file. The report options screen, shown in Figure 4-10, allows you to select the type(s) of output you want.

The default option is to generate only a printed report. If you are using report criteria for the Site Description Inventory Report that you saved previously, your saved specifications for report options are displayed instead of the default.

The work file format for this report is given in Volume AQ1.

```
11/15/90                AIRS Air Quality Subsystem                AMP380A
                           Report Options

Report Name:  SITE DESCRIPTION INVENTORY          Criteria Name:

                      Enter X for desired Option(s)

            Choose at least one output

            X 1.  Generate a printed report
            _ 2.  Generate a workfile (Enter name below):
                  KUCASWD . ________ . ____ __ . ________ . ____ ____

            Choose desired report option

            _ 3.  Include Monitor Description


     PF3=end      PF4=main menu      PF5=terminate      PF9=save criteria
```

Figure 4-10. Report Options screen for the Site Description Inventory Report

Instructions

You may choose either or both of the following report options:

option 1	generate a printed report
option 2	generate a work file (disk)

If you choose a work file, you must specify a dataset name for it; otherwise, you may not specify a dataset name.

You may choose this option with either or both options 1 and 2:

option 3	includes monitor descriptions

Read Section 3.6.1 if you are not familiar with how to use the report options screen. Section 3.6.2 describes the characteristics of valid dataset names.

Error Messages

The error messages listed below (in alphabetical order) are displayed at the top of the report options screen if you make a mistake in report options.

DATASET NAME IS INVALID
The work file dataset name is not valid. Refer to section 3.6.2 of this volume for a description of dataset naming conventions.

DATASET NAME NOT ALLOWED WITHOUT SPECIFYING OPTION 2
If a work file is not selected as an output (option 2), the dataset name must be blank.

OPTION 3 IS NOT ALLOWED WITHOUT SPECIFYING OPTION 1 OR 2
If option 3 is selected, either option 1 or 2 must have been selected.

PLEASE CHOOSE OPTION 1 OR 2 FOR OUTPUT
Either a printed report (option 1) or a work file (option 2) must be selected as a report output.

PLEASE ENTER A VALID DATASET NAME
If a work file is selected, a dataset name must be specified.

PLEASE ENTER BLANK OR 'X'
Only blank and "X" are valid entries for selecting report options. To select an option, type "X" beside it.

PLEASE USE A VALID PF-KEY
A PF key not defined for this screen was used.

4.4.3 Data Selection Options

You may select which sites are included in the Site Description Inventory Report using the select criteria screen. A sample screen is shown in Figure 4-11. The leftmost portion of the screen is shown at the top of the figure and the rightmost portion is shown at the bottom.

There are two groups of selection criteria. The first group consists of "geographic" criteria. Only certain combinations of these fields are allowed. You may use any one of the following combinations of geographic selection fields:

state (code or abbreviation)
state + county
state + county + site
state + reporting organization
state + city
state + AQCR
AQCR
urban area
MSA
CMSA
MSA-rep
CMSA-rep
status area

The second group of selection criteria consists of the following fields:

parameter
begin-date
end-date
monitor type

In a given line of the select criteria screen, you may specify one of the geographic criteria in the first group and/or any of the criteria in the second group. You must specify one of the geographic criteria or parameter in each line. For example, you could specify selection based on AQCR, parameter, and monitor type; or you could select based only on parameter. But, you could not select on state and urban area or on monitor type alone.

You may not specify selection based on method and interval. Selection based on begin and end dates is optional. However, if these dates are omitted, one entry will be printed for each monitor selected. If a date range is entered, multiple entries for a monitor will be printed if the selected monitors were multiple monitor types during the date range specified. When they are specified, they will be validated according to the error messages listed below. The sites having monitors of the requested type or parameter are selected for the report.

```
08/18/92                    AIRS Air Quality Subsystem                    AMP380B
                                 Select Criteria                          Page 1/2

Report Name:  SITE DESCRIPTION INVENTORY                  Criteria Name:

                    PARA-                    BEGIN   END    MON                  REP  URBAN
 ST  CNTY  SITE     METER   METH INT         DATE    DATE   TYPE  CITY    AQCR   ORG  AREA
 __  ___  _____  _______                    _______ _______  _   _____   ____   ___  ____
 __  ___  _____  _______                    _______ _______  _   _____   ____   ___  ____
 __  ___  _____  _______                    _______ _______  _   _____   ____   ___  ____
 __  ___  _____  _______                    _______ _______  _   _____   ____   ___  ____
 __  ___  _____  _______                    _______ _______  _   _____   ____   ___  ____
 __  ___  _____  _______                    _______ _______  _   _____   ____   ___  ____
 __  ___  _____  _______                    _______ _______  _   _____   ____   ___  ____
 __  ___  _____  _______                    _______ _______  _   _____   ____   ___  ____
 __  ___  _____  _______                    _______ _______  _   _____   ____   ___  ____
 __  ___  _____  _______                    _______ _______  _   _____   ____   ___  ____

PF1=help  PF2=duplicate  PF3=end  PF4=main menu  PF5=terminate  PF6=rpt options
PF7=back  PF8=more       PF9=save criteria       PF10=left      PF11=right
```

```
08/18/92                    AIRS Air Quality Subsystem                    AMP380B
                                 Select Criteria                          Page 2/2

Report Name:  SITE DESCRIPTION INVENTORY                  Criteria Name:

                    MSA    CMSA   STATUS
 MSA    CMSA        REP    REP    AREA
 ____   ____        ____   ____
 ____   ____        ____   ____   ____
 ____   ____        ____   ____   ____
 ____   ____        ____   ____   ____
 ____   ____        ____   ____   ____
 ____   ____        ____   ____   ____
 ____   ____        ____   ____   ____
 ____   ____        ____   ____   ____
 ____   ____        ____   ____   ____
 ____   ____        ____   ____   ____

PF1=help  PF2=duplicate  PF3=end  PF4=main menu  PF5=terminate  PF6=rpt options
PF7=back  PF8=more       PF9=save criteria       PF10=left      PF11=right
```

Figure 4-11. Select Criteria Screen for the Site Description Inventory Report

In addition to the monitor type codes listed in Volume GC2 of the AIRS User's Guide, you may use the code "B" to select both NAMS and SLAMS monitors and code "P" to select PAMS monitors.

Online Help is available for all of the selection criteria fields except BEGIN-DATE and END-DATE. The Help facility allows you to browse through tables of values, with descriptions, for the codes you need to enter, and then to select the value that you wish to use. The Help facility is described in detail in Section 3.6.4.

Instructions

Enter selection criteria into the available fields on the select criteria screen, or alter the previously saved criteria displayed on the screen if you wish. You must specify criteria in at least one line on the screen. Press the ENTER key when you have finished entering or altering the criteria.

Read Section 3.6.3 if you are not familiar with how to use the select criteria screen. Refer to Volume GC2 of the AIRS User's Guide for lists of valid codes to use for selection criteria.

Press PF1=help for general information about the select criteria process. For Field-specific Help, enter a "?" in the first position of any field (except BEGIN-DATE or END-DATE).

Error Messages

The error messages listed below (in alphabetical order) are displayed at the top of the select criteria screen if you make a mistake in specifying selection criteria.

A PARAMETER IS REQUIRED FOR STATUS-AREA CODE
If status area is entered, parameter must be entered.

A STATE IS REQUIRED FOR CITY
If city is entered, state must be entered.

A STATE IS REQUIRED FOR COUNTY
If county is specified, state must be specified.

A STATE IS REQUIRED FOR REPORT-ORG
If reporting organization is entered, state must be entered.

BEGIN-DATE IS < 570101 OR > CURRENT-DATE
The begin date entered is < 570101 or > current date.

ENTER SELECTION CRITERIA OR USE A PF-KEY TO ESCAPE
ENTER was pressed without any selection criteria specified. Either specify criteria and press ENTER or use one of the valid PF keys to transfer to another screen or terminate the AIRS session.

PF2 INVALID - THERE ARE NO SELECTION CRITERIA TO DUPLICATE
Do not press PF2 without entering at least one selection criterion.

PF2 INVALID - MAXIMUM NUMBER OF SELECTION CRITERIA HAS BEEN SPECIFIED
Do not press PF2 when the last select criteria screen is full.

PF7 INVALID - THIS IS THE FIRST SELECT CRITERIA SCREEN
Do not press PF7 from the first select criteria screen; it is used to page backward.

PF8 INVALID - THIS IS THE FINAL SELECT CRITERIA SCREEN
Do not press PF8 from the last select criteria screen; it is used to page forward.

PF10 INVALID - THIS IS THE LEFT-MOST SELECT CRITERIA SCREEN
Do not press PF10 while the leftmost select criteria screen is displayed.

PF11 INVALID - THIS IS THE RIGHT-MOST SELECT CRITERIA SCREEN
Do not press PF11 while the rightmost select criteria screen is displayed.

PLEASE DO NOT ENTER BOTH STATE AND CMSA CODE
Do not enter both state and CMSA code as select criteria.

PLEASE DO NOT ENTER BOTH STATE AND CMSA-REP CODE
Do not enter both state and CMSA-rep code as select criteria.

PLEASE DO NOT ENTER BOTH STATE AND MSA CODE
Do not enter both state and MSA code.

PLEASE DO NOT ENTER BOTH STATE AND MSA-REP CODE
Do not enter both state and MSA-rep code.

PLEASE DO NOT ENTER BOTH STATE AND STATUS-AREA CODE
Do not enter both state and status area code.

PLEASE DO NOT ENTER BOTH STATE AND URBAN-AREA CODE
Do not enter both state and urban area.

PLEASE ENTER A NUMERIC BEGIN-DATE
The begin-date entered is non-numeric.

PLEASE ENTER A NUMERIC END-DATE
The end-date entered is non-numeric.

PLEASE ENTER A VALID 6-DIGIT BEGIN-DATE
The begin date entered is not in YYMMDD format.

PLEASE ENTER A VALID 6-DIGIT END-DATE
The end date entered is not in YYMMDD format.

PLEASE ENTER A VALID AQCR CODE
The AQCR code is not valid.

PLEASE ENTER A VALID CITY CODE
The combination of city and state codes is not valid.

PLEASE ENTER A VALID CMSA CODE
The CMSA code entered must be in the AIRS GEO-COMMON File.

PLEASE ENTER A VALID CMSA-REP CODE
The CMSA-rep code entered must be in the AIRS GEO-COMMON File.

PLEASE ENTER A VALID COUNTY CODE
The combination of county and state codes is not valid.

PLEASE ENTER A VALID MONITOR-TYPE CODE
The monitor type code is not valid. Use a code listed in Volume GC2, or use "B" to select both NAMS and SLAMS monitor types or "P" to select PAMS monitor types.

PLEASE ENTER A VALID MSA CODE
The MSA code entered must be in the AIRS GEO-COMMON File.

PLEASE ENTER A VALID MSA-REP CODE
The MSA-rep code entered must be in the AIRS GEO-COMMON File.

PLEASE ENTER A VALID PARAMETER CODE
The parameter code is not valid.

PLEASE ENTER A VALID REPORT-ORG
The combination of reporting organization and state is not valid.

PLEASE ENTER A VALID SITE CODE
The combination of state, county, and site does not match any existing site-ID in the Site file.

PLEASE ENTER A VALID STATE ABBREVIATION
The state abbreviation is not valid.

PLEASE ENTER A VALID STATE CODE
The state code is not valid.

PLEASE ENTER A VALID STATUS-AREA CODE FOR PARAMETER
The combination of status area and parameter entered must be in the AIRS GEO-COMMON File.

PLEASE ENTER A VALID URBAN-AREA CODE

The urban area code is not valid.

PLEASE ENTER AN END-DATE THAT IS GREATER THAN OR EQUAL TO THE BEGIN-DATE

The end date entered is less than the begin date.

PLEASE ENTER ONE: STATE, PARAMETER, AQCR, URBAN AREA, MSA, CMSA, MSA-REP, CMSA-REP, OR STATUS-AREA

One of the geographic criteria or parameter must be used in each line of select criteria.

PLEASE ENTER ONLY ONE: AQCR, URBAN-AREA, CITY, REPORT-ORG, COUNTY, MSA, CMSA, MSA-REP, CMSA-REP, OR STATUS-AREA

Only the combinations of geographic criteria listed at the beginning of this section are valid.

PLEASE FILL ALL LINES BEFORE GOING ON TO THE NEXT SCREEN

PF8 is valid only when the current screen is full or when there are more criteria on a subsequent screen.

PLEASE USE A VALID PF-KEY

A PF key not defined for this screen was used.

THE COUNTY CODE IS REQUIRED WITH THE SITE CODE

If site is entered, county must be entered.

STATUS-AREA CODE NOT ALLOWED WITH THIS PARAMETER

A status area was entered for a parameter that does not allow entry of a status area.

4.4.4 Data Sorting Options

The sort sequence you specify determines the order of monitoring site entries in the Site Description Inventory report and work file. The sort criteria screens, shown in Figures 4-12 and 4-13, allow you to establish the sort sequence. If you do not include monitor description information in the report, the default sort sequence is by state, county, and site codes.

You may specify a sort sequence that uses the numbered fields shown on the sort criteria screen below. The allowed sort fields are:

Number	Field
1	state
2	county
3	site
7	urban area
8	EPA region
9	city
10	AQCR

```
07/08/87                AIRS Air Quality Subsystem                AMP380C
                              Sort Criteria

Report Name:  SITE DESCRIPTION INVENTORY          Criteria Name:

    1.  State                  eporting Org          Method
    2.  County                 Urban Area            Interval
    3.  Si e                   EPA Region            Monitor Typ
        Parameter              City                  Date
        POC                    AQCR

 Enter the numbers of the Sort Elements above in the desired Sort Sequence:

          01  02  03  __  __  __  __  __  __  __  __  __  __  __  __

PF3=end  PF4=main menu  PF5=terminate  PF6=select criteria  PF9=save criteria
```

Figure 4-12. Sort Criteria Screen for the Site Description Inventory Report, Format I

If you include monitor description information in the report, the default sort sequence is by state, county, site, parameter, POC, and monitor-type codes.

You may specify a sort sequence that uses the numbered fields shown on the sort criteria screen below. The allowed sort fields are:

Number	Field	Number	Field
1	state	7	urban area
2	county	8	EPA region
3	site	9	city
4	parameter	10	AQCR
5	POC	13	monitor type
6	reporting organization		

```
11/15/90                AIRS Air Quality Subsystem                AMP380C
                            Sort Criteria

Report Name:  SITE DESCRIPTION INVENTORY          Criteria Name:  AMP380T

     1.  State              6.  Reporting Org          Method
     2.  County             7.  Urban Area             Interval
     3.  Site               8.  EPA Region        13.  Monitor Type
     4.  Parameter          9.  City                   Date
     5.  POC               10.  AQCR

 Enter the numbers of the Sort Elements above in the desired Sort Sequence:

          01  02  03  04  05  13  __  __  __  __  __  __  __  __

PF3=end  PF4=main menu  PF5=terminate  PF6=select criteria  PF9=save criteria
```

Figure 4-13. Sort Criteria Screen for the Site Description Inventory Report, Format II

You may not specify sorting based on any of the fields shown without numbers on the sort criteria screens. If you do not include monitor description information, the following fields may not be used: parameter, POC, reporting organization, method, interval, monitor type, or date. The following fields may not be used if monitor description information is included: method, interval, or date.

If you use report criteria that were saved previously for a different report, the sort criteria program may alter the saved sort specifications to conform with the requirements for this report. Sort fields not allowed for this report are dropped from the saved sort sequence before it is displayed on the sort criteria screen. Otherwise, the saved sort sequence is not altered.

If you do not include monitor description information and fail to specify one or more of the default fields (state, county, or site), these fields are automatically added to your sort. If you include monitor description and fail to specify one or more of the default fields (state, county, site, parameter, POC, or monitor-type), these fields are automatically added to the sort. This is done to ensure that the sorting process will eliminate any duplicate records from the report. (Duplicates could occur if a monitoring site were selected by more than one of your selection "cards".) If your sort criteria include site but not county, then county is inserted in your sequence just before site. Otherwise, the fields are inserted at the end of the sequence you specified.

Instructions

Read Section 3.6.4 of this manual if you are not familiar with how to use the sort criteria screen.

Choose any or all of the allowed sort fields listed above, subject to the following rules:

1. If you use EPA region, it must be the first sort field.
2. State must precede county and city.
3. City or county must precede site.

Error Messages

The error messages listed below (in alphabetical order) are displayed at the top of the sort criteria screen if you make a mistake in specifying sort criteria.

CITY OR COUNTY REQUIRED BEFORE SITE

Sorting by site without also specifying county or city was requested, or site was specified before city or county. Since site is meaningful only within county, state and county or state and city must be specified before site in the sort sequence. (If city is specified, county is inserted automatically in the sort sequence just before site.) Add the necessary field(s) to the sort sequence or change the order so site is after city and county.

ERROR - REPEATED SORT CRITERIA

Each sort criterion may be entered only once.

PARAMETER IS REQUIRED BEFORE POC

Sorting by POC without also specifying parameter was requested, or POC was specified before parameter. Since POC is meaningful only with parameter, parameter must be specified before POC in the sort sequence. Add parameter to the sort sequence, eliminate POC, or change the order so POC follows parameter.

PLEASE ENTER 1, 7, 8, OR 10 FOR THE FIRST SORT CRITERION

According to the sorting rules for this report, the only fields that can be first in the sort sequence are state (1), urban area (7), EPA region (8), and AQCR (10). The other fields (county, site, and city) are subordinate to state and therefore cannot be the first sort field.

PLEASE ENTER A VALID SORT CRITERIA NUMBER

The sort specification at the cursor is not valid, and must be changed. Valid entries are blank or one of the sort field numbers allowed for this report: 1 - 3 and 7 - 10. Two digits must be entered for each sort specification.

PLEASE USE A VALID PF-KEY

A PF key not defined for this screen was used.

REGION CAN ONLY BE THE FIRST SORT CRITERION

If EPA region is used, it must be first in the sort sequence. Either move region to the first position or eliminate it from the sort specification.

STATE CODE REQUIRED BEFORE CITY

Sorting by city without also specifying state was requested, or city was specified before state. Since city is meaningful only within state, state must be specified before city in the sort sequence. Add state to the sort sequence, eliminate city, or change the order so city is after state.

STATE CODE REQUIRED BEFORE COUNTY

Sorting by county without also specifying state was requested, or they were specified in the wrong order. Since county is meaningful only within state, state must be specified before county in the sort sequence. Add state to the sort sequence, eliminate county, or change the order so county follows state.

4.5 Site Monitor Status Report (AMP390)

4.5.1 Description

The Site Monitor Status Report lists detailed information about air quality monitoring sites, and about each monitor at a site. A sample of the report is shown in Figure 4-14. The report has an entry for each selected site and its monitor(s). Each page of the report has site information in the top half of the page, and information about as many as three monitors in the bottom half of the page. The site information includes: county, city, and street address; distance to the center of the city; direction (compass sector); site location in terms of latitude/longitude and UTM coordinates; the metropolitan statistical area, air quality control region, and urban area in which the site is located; the site's elevation above mean sea level; land use and location setting; the dates of the last EPA regional and HQ evaluations; and whether meteorological data are monitored at the site. The information reported for each monitor includes: parameter, POC, monitor type, monitor type effective date, the last administrative action, sample collection and analysis labs, reporting organization and its effective date, dominant source of pollution, measurement scale, height of the monitoring equipment above ground, status of siting criteria and the effective date, whether a reference method is used and the date it began, the dates the monitor began and ended sampling, the date of the last EPA audit, the monitoring objective, and the distance, traffic flow, and the type of nearby roads.

The report lists the sites qualified by the selection criteria in the order specified by the sort criteria. Each site appears on a separate page with information about the first three monitors (in parameter-POC order). If a site has more than three monitors, the site information is repeated on as many additional pages as necessary to list all the monitors, three per page.

The last page of the report is a processing summary. It lists the total number of records (monitors) processed by the report program and indicates that the report was generated successfully.

```
DATE 09/08/93                    EPA AEROMETRIC INFORMATION RETRIEVAL SYSTEM (AIRS)                    PAGE    1
AMP390                                        AIR QUALITY SUBSYSTEM
                                          SITE MONITOR STATUS REPORT

     REGION 07      STATE 29     MISSOURI

CURRENT VALUES FOR SITE 29-001-0001

COUNTY                 001
CITY                   39026
ADDRESS                SCIENCE BUILDING NE STATE UNIVERSITY
DISTANCE CITY
COMPASS SECTOR
LONGITUDE               92:35:00 W
LATITUDE               40:11:19 N
UTM ZONE               15
UTM EASTING              535469
UTM NORTHING           4448564
MSA                    0000
AQCR                   137
URBAN AREA             0000
ELEVATION MSL            302
LAND USE               1
LOCATION-SETTING       1
SUPPORT AGENCY         000
HQ EVAL DATE               / /
RG EVAL DATE               / /
TANGENT STREET NUM     (1)       (2)       (3)       (4)       (5)       (6)       (7)       (8)       (9)
TYPE ROAD
TRAFFIC FLOW              0         0         0         0         0         0         0         0         0
PARAMETER              11101                                  12105                                  12110
POC                    1                                      1                                      1
MONITOR TYPE           0                                      0                                      0
MON TYPE EFF DATE      1973/01/01                             1975/12/0 2                            1975/01/01
ACTION TAKEN
COLLECTING LAB         000                                    000                                    000
ANALYZING LAB          000                                    000                                    000
REPORT ORGANIZATION    001                                    000                                    000
REPORT ORG. EFF. DATE  1981/01/01                                 / /                                    / /
DOMINANT SOURCE
MEASUREMENT SCALE
PROBE HEIGHT           9                                      9                                      9
SITING CRITERIA
SITING CRITERIA DATE       /                                     /                                      /
REF METHOD
REF METHOD DATE            /                                     /                                      /
DATE SAMPLING BEGAN    1973/01/01                             1975/12/0 2                            1975/01/01
DATE SAMPLING ENDED    1981/09/14                                / /                                    / /
AUDIT DATE                 / /                                   / /                                    / /
MONITORING OBJ
STREET NUMBER          (1)       (2)       (3)               (1)       (2)       (3)               (1)       (2)       (3)
DISTANCE ROAD             0         0         0                 0         0         0                 0         0         0
                  END OF VALUES FOR THIS MONITOR        END OF VALUES  FOR THIS MONITOR        END OF VALUES FOR THIS MONITOR
```

Figure 4-14. Site Monitor Status Report

4.5.2 Report Generation Options

The options available for the Site Monitor Status Report have to do with the output medium: printed report, work file, or AIRS input transactions. The report options screen, shown in Figure 4-15, allows you to select the type(s) of output you want.

If you choose the file of AIRS transactions as an output, the report program generates transaction types A1 - A7 for each selected site and transaction types F1 - F5 for each selected monitor. The transactions all have the action code you choose: D (delete), I (insert), or M (modify).

The default option is to generate only a printed report. If you are using report criteria for the Site Monitor Status Report that you saved previously, your saved specifications for report options are displayed instead of the default. If you are using report criteria for a report other than the Site Monitor Status Report, the default option (generate only a printed report) is displayed.

The work file format for this report is given in Volume AQ1.

```
08/18/92                    AIRS Air Quality Subsystem                    AMP390A
                                  Report Options

Report Name:  SITE MONITOR STATUS                    Criteria Name :

                        Enter X for desired Option(s)

              Choose at least one output

              x 1.  Generate a printed report
              _ 2.  Generate a workfile (Enter name below).
                    HSWASWD . ________ . __ _____ . _______ . _____
              _ 3.  Generate AIRS input transactions (Enter name & action code):
                    HSWAS__ . __ ____ . ________ . ________.________
                    Action code (D,I,M): _

     PF3=end       PF4=main menu       PF5=terminate       PF9=save criteria
```

Figure 4-15. Report Options Screen for the Site Monitor Status Report

Instructions

You may choose one or more of the following report options:

option 1	generate a printed report
option 2	generate a work file
option 3	generate AIRS input transactions

If you choose a work file, you must specify a dataset name for it; otherwise, you may not specify a dataset name.

If you choose AIRS transactions, you must specify a dataset name and an action code; otherwise, you must not specify either a transaction dataset name or an action code.

If you choose both work file and AIRS transactions, you must use different dataset names for the two files.

Read Section 3.6.1 if you are not familiar with how to use the report options screen. Section 3.6.2 describes the characteristics of valid dataset names.

Error Messages

The error messages listed below (in alphabetical order) are displayed at the top of the report options screen if you make a mistake in specifying report options.

ACTION CODE IS INVALID
An invalid action code was specified. Valid codes are D (delete), I (insert), and M (modify).

ACTION CODE IS NOT ALLOWED
If transaction file output is not selected, action code must not be entered.

ACTION CODE IS REQUIRED
If transaction file output is selected, action code must be provided.

DATASET NAME IS INVALID
The work file dataset name is not valid. Refer to section 3.6.2 of this volume for a description of dataset naming conventions.

DATASET NAME NOT ALLOWED WITHOUT SPECIFYING OPTION 2
If a work file is not selected as an output, a dataset name must not be entered.

DATASET NAME NOT ALLOWED WITHOUT SPECIFYING OPTION 3
If a transaction file is not selected as an output, a dataset name must not be entered.

DUPLICATE DATASET NAMES NOT ALLOWED
Unique dataset names must be provided for the transaction file output and work file output.

PLEASE CHOOSE AT LEAST ONE OUTPUT (OPTION 1, 2, OR 3)
At least one of the three possible types of output must be selected.

PLEASE ENTER A VALID DATASET NAME
If a work file is selected, a dataset name must be specified.

PLEASE ENTER BLANK OR 'X'
Only blank and "X" are valid entries for specifying report options.

PLEASE USE A VALID PF-KEY
A PF key not defined for this screen was used.

4.5.3 Data Selection Options

You may select which monitors are included in the Site Monitor Status Report using the select criteria screen. A sample screen is shown in Figure 4-13. The leftmost portion of the screen is shown at the top of the figure and the rightmost portion is shown at the bottom.

There are two groups of selection criteria. The first group consists of "geographic" criteria. Only certain combinations of these fields are allowed. You may use any one of the following combinations of geographic selection fields:

state (code or abbreviation)
state + county
state + county + site
state + reporting organization
state + city
state + AQCR
AQCR
urban area
MSA
CMSA
MSA-rep
CMSA-rep
status area

The second group of selection criteria consists of the following fields:

parameter
monitor type

In a given line on the select criteria screen, you may specify one of the geographic criteria in the first group and/or any of the criteria in the second group. You must specify parameter on one of the geographic criteria in each line. For example, you could specify selection based on state, parameter, and monitor type; or you could select based only on parameter. But, you could not select on AQCR and reporting organization or on monitor type alone.

You may not specify selection based on method, interval, or begin and end dates.

In addition to the monitor type codes listed in Volume GC2 of the AIRS User's Guide, you may use the code "B" to select both NAMS and SLAMS monitors and code "P" to select PAMS monitors.

Online Help is available for all of the selection criteria fields except BEGIN-DATE and END-DATE. The Help facility allows you to browse through tables of values, with descriptions, for the codes you need to enter, and then to select the value that you wish to use. The Help facility is described in detail in Section 3.6.4.

```
08/18/92                    AIRS Air Quality Subsystem                    AMP390B
                                 Select Criteria                          Page 1/2

Report Name:  SITE MONITOR STATUS                          Criteria Name:

 ST  CNTY  SITE  PARA-   METH INT  BEGIN   END   MON                  REP  URBAN
                METER              YEAR    YEAR  TYPE  CITY    AQCR   ORG  AREA
 __  ___  ____  _____                              _   _____   ___   ___  ___
 __  ___  ____  _____                              _   _____   ___   ___  ___
 __  ___  ____  _____                              _   _____   ___   ___  ___
 __  ___  ____  _____                              _   _____   ___   ___  ___
 __  ___  ____  _____                              _   _____   ___   ___  ___
 __  ___  ____  _____                              _   _____   ___   ___  ___
 __  ___  ____  _____                              _   _____   ___   ___  ___
 __  ___  ____  _____                              _   _____   ___   ___  ___
 __  ___  ____  _____                              _   _____   ___   ___  ___
 __  ___  ____  _____                              _   _____   ___   ___  ___

PF1=help  PF2=duplicate  PF3=end  PF4=main menu  PF5=terminate  PF6=rpt options
PF7=back  PF8=more       PF9=save criteria       PF10=left      PF11=right
```

```
08/18/92                    AIRS Air Quality Subsystem                    AMP390B
                                 Select Criteria                          Page 2/2

Report Name:  SITE MONITOR STATUS                          Criteria Name:

 MSA   CMSA  MSA REP  PMSA REP  STATUS AREA
 ____  ____  _____    _____     _____
 ____  ____  _____    _____     _____
 ____  ____  _____    _____     _____
 ____  ____  _____    _____     _____
 ____  ____  _____    _____     _____
 ____  ____  _____    _____     _____
 ____  ____  _____    _____     _____
 ____  ____  _____    _____     _____
 ____  ____  _____    _____     _____
 ____  ____  _____    _____     _____

PF1=help  PF2=duplicate  PF3=end  PF4=main menu  PF5=terminate  PF6=rpt options
PF7=back  PF8=more       PF9=save criteria       PF10=left      PF11=right
```

Figure 4 16. Select Criteria Screen for the Site Monitor Status Report

Instructions

Enter selection criteria into the available fields on the select criteria screen, or alter the previously saved criteria displayed on the screen if you wish. You must specify criteria in at least one line on the screen. Press the ENTER key when you have finished entering or altering the criteria.

Read Section 3.6.3 if you are not familiar with how to use the select criteria screen. Refer to Volume GC2 of the AIRS User's Guide for lists of valid codes to use for selection criteria.

Press PF1=help for general information about the select criteria process. For Field-specific Help, enter a "?" in the first position of any field (except BEGIN-DATE or END-DATE).

Error Messages

The error messages listed below (in alphabetical order) are displayed at the top of the select criteria screen if you make a mistake in specifying selection criteria. See Volume GC4 of the AIRS User's Guide for explanations of the error messages that you may encounter while using Field-specific Help.

A PARAMETER IS REQUIRED FOR STATUS-AREA CODE
If status area is entered, parameter must be entered.

A STATE IS REQUIRED FOR CITY
If city is entered, state must be entered.

A STATE IS REQUIRED FOR COUNTY
If county is specified, state must be specified.

A STATE IS REQUIRED FOR REPORT-ORG
If reporting organization is entered, state must be entered.

ENTER SELECTION CRITERIA OR USE A PF-KEY TO ESCAPE
ENTER was pressed without any selection criteria specified. Either specify criteria and press ENTER or use one of the valid PF keys to transfer to another screen or terminate the AIRS session.

PF2 INVALID - THERE ARE NO SELECTION CRITERIA TO DUPLICATE
Do not press PF2 without entering at least one selection criterion.

PF2 INVALID - MAXIMUM NUMBER OF SELECTION CRITERIA HAS BEEN SPECIFIED
Do not press PF2 when the last select criteria screen is full.

PF7 INVALID - THIS IS THE FIRST SELECT CRITERIA SCREEN
Do not press PF7 from the first select criteria screen; it is used to page backward.

PF8 INVALID - THIS IS THE FINAL SELECT CRITERIA SCREEN
Do not press PF8 from the last select criteria screen; it is used to page forward.

PF10 INVALID - THIS IS THE LEFT-MOST SELECT CRITERIA SCREEN
Do not press PF10 while the leftmost select criteria screen is displayed.

PF11 INVALID - THIS IS THE RIGHT-MOST SELECT CRITERIA SCREEN
Do not press PF11 while the rightmost select criteria screen is displayed.

PLEASE DO NOT ENTER BOTH STATE AND CMSA CODE
Do not enter both state and CMSA code.

PLEASE DO NOT ENTER BOTH STATE AND CMSA-REP CODE
Do not enter both state and CMSA-rep code.

PLEASE DO NOT ENTER BOTH STATE AND MSA CODE
Do not enter both state and MSA code.

PLEASE DO NOT ENTER BOTH STATE AND MSA-REP CODE
Do not enter both state and MSA-rep code.

PLEASE DO NOT ENTER BOTH STATE AND STATUS-AREA CODE
Do not enter both state and status area code.

PLEASE ENTER A VALID AQCR CODE
The AQCR code is not valid.

PLEASE ENTER A VALID CITY CODE
The combination of city and state codes is not valid.

PLEASE ENTER A VALID CMSA CODE
The CMSA code entered must be in the AIRS GEO-COMMON File.

PLEASE ENTER A VALID CMSA-REP CODE
The CMSA-rep code entered must be in the AIRS GEO-COMMON File.

PLEASE ENTER A VALID COUNTY CODE
The combination of county and state codes is not valid.

PLEASE ENTER A VALID MONITOR-TYPE CODE
The monitor type code is not valid. Use a code listed in Volume GC2, or use "B" to select both NAMS and SLAMS monitor types or "P" to select PAMS monitor types.

PLEASE ENTER A VALID MSA CODE
The MSA code entered must be in the AIRS GEO-COMMON File.

PLEASE ENTER A VALID MSA-REP CODE
The MSA-rep code entered must be in the AIRS GEO-COMMON File.

PLEASE ENTER A VALID PARAMETER CODE
The parameter code is not valid.

PLEASE ENTER A VALID REPORT-ORG
The combination of reporting organization and state is not valid.

PLEASE ENTER A VALID SITE CODE
The combination of state, county, and site does not match any existing site-ID in the Site File.

PLEASE ENTER A VALID STATE ABBREVIATION
The state abbreviation is not valid.

PLEASE ENTER A VALID STATE CODE
The state code is not valid.

PLEASE ENTER A VALID STATUS-AREA FOR PARAMETER
The combination of status area and parameter entered must be in the AIRS GEO-COMMON File.

PLEASE ENTER A VALID URBAN-AREA CODE
The urban area code is not valid.

PLEASE ENTER ONE: STATE, PARAMETER, AQCR, URBAN-AREA, MSA, CMSA, MSA-REP, CMSA-REP, OR STATUS-AREA
One of the geographic criteria or parameter must be used in each line of select criteria.

PLEASE ENTER ONLY ONE: AQCR, URBAN-AREA, CITY, REPORT-ORG, COUNTY, MSA, CMSA, MSA-REP, CMSA-REP, OR STATUS-AREA
Only the combinations of geographic criteria listed at the beignning of this section are valid.

PLEASE FILL ALL LINES BEFORE GOING ON TO THE NEXT SCREEN
PF8 is valid only when the current screen is full or when there are more criteria on a subsequent screen.

PLEASE USE A VALID PF-KEY
A PF key not defined for this screen was used.

STATUS-AREA CODE NOT ALLOWED WITH THIS PARAMETER
A status area was entered for a parameter that does not allow entry of a status area.

THE COUNTY CODE IS REQUIRED WITH THE SITE CODE
If site is entered, county must be entered.

4.5.4 Data Sorting Options

The sort sequence you specify determines the order of site and monitor entries in the Site Monitor Status report and work file. The sort criteria screen, shown in Figure 4-17 allows you to establish the sort sequence. The default sort sequence is by state, county, site, parameter, POC, and monitor type.

You may specify a sort sequence that uses the numbered fields shown on the sort criteria screen. The allowed sort fields are:

Number	Field	Number	Field
1	state	6	reporting organization
2	county	7	urban area
3	site	8	EPA region
4	parameter	9	city
5	POC	10	AQCR
		13	monitor type

```
08/18/92                AIRS Air Quality Subsystem                AMP390C
                            Sort Criteria

Report Name: SITE MONITOR STATUS                    Criteria Name:

    1.  State           6.  Reporting Org               Method
    2.  County          7.  Urban Area                  Interval
    3.  Site            8.  EPA Region             13.  Monitor Type
    4.  Parameter       9.  City                        Date
    5.  POC            10.  AQCR

 Enter the numbers of the Sort Elements above in the desired Sort Sequence:

          _1 _2 _3 _4 _5 13 __ __ __ __ __ __ __ __

PF3=end  PF4=main menu  PF5=terminate  PF6=select criteria  PF9=save criteria
```

Figure 4-17. Sort Criteria Screen for the Site Monitor Status Report

You may not specify sorting based on any of the fields shown without numbers on the sort criteria screen: method, interval, or date.

If you use report criteria that were saved previously for a different report, the sort criteria program may alter the saved sort specifications to conform with the requirements for this report. Sort fields not allowed for this report are dropped from the saved sort sequence before it is displayed on the sort criteria screen. Otherwise, the saved sort sequence is not altered.

The state, county, site, parameter, POC, and monitor type fields are added to your sort sequence automatically if you do not specify them. This is done to ensure that the sorting process will eliminate any duplicate records from the report. (Duplicates could occur if a monitoring site were selected by more than one of your selection "cards".) If your sort criteria include site but not county, then county is inserted in your sequence just before site. Otherwise, the fields are inserted at the end of the sequence you specified. It is possible that some sort orders involving monitor-specific fields will cause the same site to appear in different parts of the report.

Instructions

Read Section 3.6.4 of this manual if you are not familiar with how to use the sort criteria screen.

Choose any or all of the allowed sort fields listed above, subject to the following rules:

1. If you use EPA region, it must be the first sort field.
2. State must precede county, city, and reporting organization.
3. City or county must precede site.
4. Parameter must precede POC.

Error Messages

The error messages listed below (in alphabetical order) are displayed at the top of the sort criteria screen if you make a mistake in specifying sort criteria.

CITY OR COUNTY REQUIRED BEFORE SITE

Sorting by site without also specifying county or city was requested, or site was specified before city or county. Since site is meaningful only within county, state and county or state and city must be specified before site in the sort sequence. (If city is specified, county is inserted automatically in the sort sequence just before site.) Add the necessary field(s) to the sort sequence or change the order so site is after city and county.

ERROR - REPEATED SORT CRITERIA

Each sort criterion may be entered only once.

PARAMETER CODE REQUIRED BEFORE POC

POC was specified without parameter or they were specified in the wrong order. Add parameter to the sort sequence, eliminate POC, or change the order so POC follows parameter.

PLEASE ENTER 1, 7, 8, OR 10

According to the sorting rules for this report, the only fields that can be first in the sort sequence are state (1), urban area (7), EPA region (8), and AQCR (10). The other fields (county, site, and city) are subordinate to state and therefore cannot be the first sort field.

PLEASE ENTER A VALID SORT CRITERIA NUMBER

The sort specification at the cursor is not valid, and must be changed. Valid entries are blank or one of the sort field numbers allowed for this report: 1-10 and 13. Two digits must be entered for each sort specification.

PLEASE USE A VALID PF-KEY

A PF key not defined for this screen was used.

REGION CAN ONLY BE THE FIRST SORT CRITERION

If EPA region is used, it must be first in the sort sequence. Either move region to the first position or eliminate it from the sort specification.

STATE CODE REQUIRED BEFORE CITY

Sorting by city without also specifying state was requested, or city was specified before state. Since city is meaningful only within state, state must be specified before city in the sort sequence. Add state to the sort sequence, eliminate county, or change the order so county follows state.

STATE CODE REQUIRED BEFORE COUNTY

Sorting by county without also specifying state was requested, or they were specified in the wrong order. Since county is meaningful only within state, state must be specified before county in the sort sequence. Add state to the sort sequence, eliminate county, or change the order so county follows state.

STATE CODE REQUIRED BEFORE REPORT-ORG

Sorting by reporting organization without also specifying state was requested, or reporting organization was specified before state. Since reporting organization is meaningful only within state, state must be specified before reporting organization in the sort sequence. Add state to the sort sequence, eliminate reporting organization, or change the order so reporting organization is after state.

5.0 AQ Data Reports

5.1 Overview

The reports described in this section present the data measured by air quality monitors (raw data) and summary data derived from the raw data. The primary information in these reports comes from the Air Quality Hourly, Daily, Composite, Summary, and SLAMS files. Ancillary information comes from the Geo-Common and Site files.

As described in Section 2, the reporting process includes online and batch parts. The online part accepts your report specifications and submits a batch job. The batch job selects and sorts the data according to your specifications, and generates the printed report and/or work file you requested. This is illustrated in Figure 5-1. See Section 2 for an overview of the reporting process, and see Section 3 for general operating instructions. Refer to Volume AQ1 of the AIRS User's Guide for record formats of the AIRS database files used and the work files generated by the AQ data reports. Some of the reports also generate files of the AIRS input transactions, which are described in Volume AQ2 of the AIRS User's Guide.

The AQ data reports have a variety of data selection and sorting options. Some reports pertain only to the criteria pollutants (total suspended particulates, lead, carbon monoxide, sulfur dioxide, nitrogen dioxide, and ozone), while others can report any measured parameter. Some reports involve summary data, some raw data, some both types. Some reports allow you to specify the sort order; others have a fixed sort order. The report descriptions in following sections tell which fields may be used for selection and sorting, and explain report options.

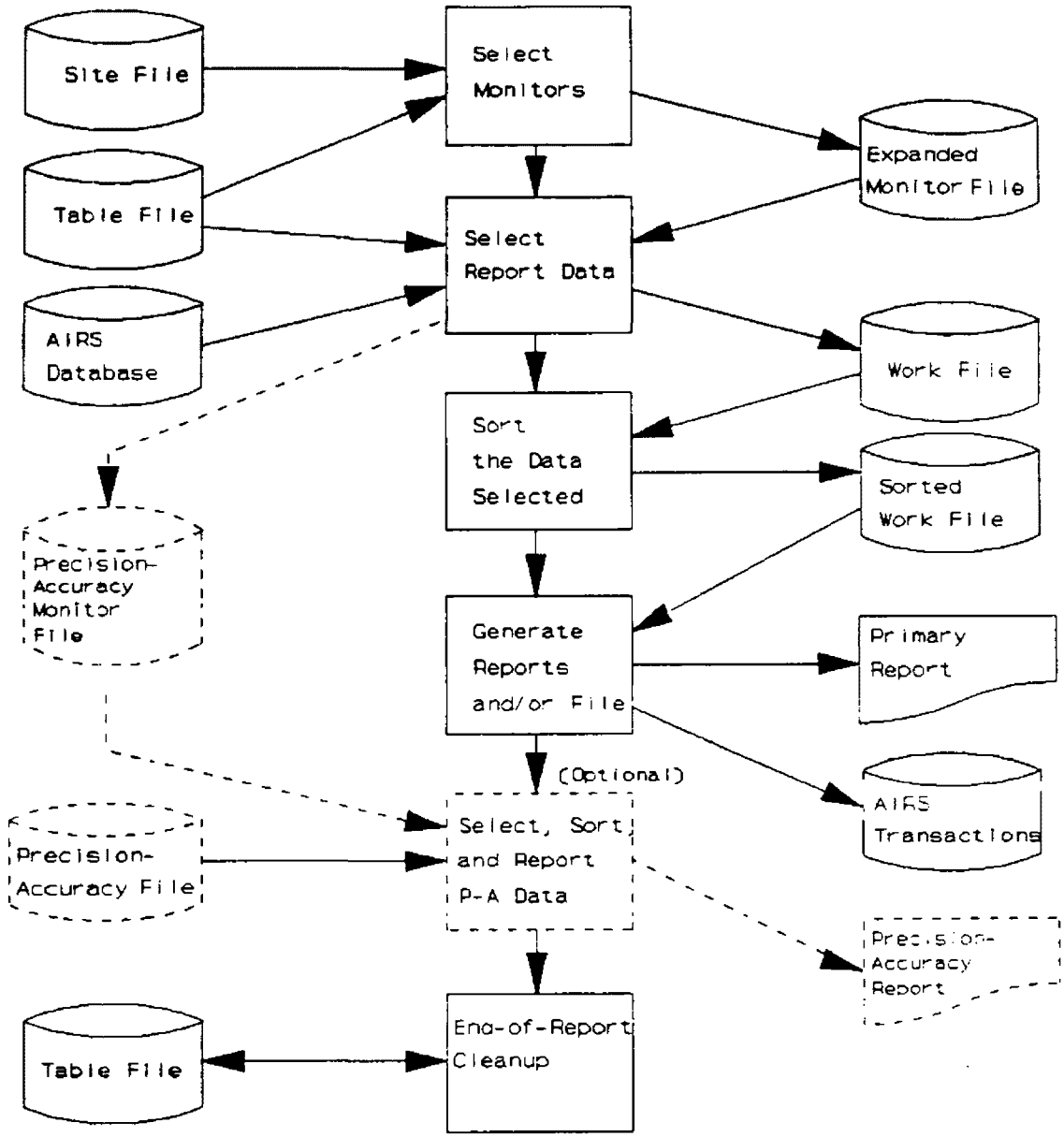


Figure 5-1. Batch Processing for AQ Data Reports

The AQ data reports described in this section are:

Title	Section
AMP230, Frequency Distribution Report	5.2
AMP240, Precision-Accuracy Report	5.3
AMP245, Precison/Accuracy Summary Report	5.4
AMP250, P/A Monitor Raw Data Report	5.5
AMP260, Reduced Frequency Distribution Report	5.6
AMP275, SLAMS Data Generation Report	5.7
AMP280, SLAMS Data Retrieval Report	5.8
AMP282, Summary Data Extraction Program	5.9
AMP300, Violation Day Count Report	5.10
AMP310, Inventory Report	5.11
AMP350, Raw Data Listing	5.12
AMP355, Standards Report	5.13
AMP370, Raw Data Conversion Program	5.14
AMP410, Pollutant Standard Index Report	5.15
AMP420, Fact Book Report	5.16
AMP430, Data Completeness Report	5.17
AMP440, Maximum Values Report	5.18
AMP450, Quick Look Report	5.19
AMP460, Pollutant Data Summary Report	5.20
AMP950, Screening File Listing	5.21

5.2 Frequency Distribution Report (AMP230)

5.2.1 Description

The Frequency Distribution Report presents a statistical summary of the data reported by air quality monitors. The data are extracted from the AIRS Summary File. The report presents descriptive information about each selected AIRS monitoring site and statistical summary data for each selected monitor and time period. The report body includes descriptive items (monitor-ID, monitor type, reporting organization, method of collection and analysis, interval, standard units) and summary statistics (number and percent of observations, number of values exceeding primary and secondary standards, minimum detectable value, minimum reported value, values representing the 10th through 99th percentiles, first- and second-maximum observations, arithmetic and geometric means, and geometric standard deviation). Report options allow selection of either quarterly or yearly summary values, and inclusion or exclusion of data on the basis of whether AIRS summary criteria were met.

Figure 5-2 shows a sample Frequency Distribution Report. The body of the report presents the statistical data for selected monitors and years or quarters. Each page has the data for a monitoring site. Descriptive site information appears at the top of the page, followed by the statistical summary data for each of the site's selected monitors and years or quarters. Usually there is one line in the report body for each year or quarter, but if exceptional events data were reported, there are two lines. They show the summary statistics based on inclusion and exclusion of the exceptional events data. An "E" in the second column of the report ("EXC EVT") identifies a line based on inclusion of the exceptional events data.

A one-page processing summary report lists the number of records read from the sorted Expanded Monitor File and the number written to the Frequency Distribution work file (if one was created).

A Precision-Accuracy Report may be generated in conjunction with this report. (See Section 5.3.) It includes data for all the reporting organizations and years that appear in the Frequency Distribution Report.

DATE 93/09/29 — EPA AEROMETRIC INFORMATION RETRIEVAL SYSTEM (AIRS) — PAGE 1
AMP230 — AIR QUALITY SUBSYSTEM
QUARTERLY FREQUENCY DISTRIBUTION

STATE (39): OHIO

SITE-ID: 39-061-1015 — AQCR (079): METROPOLITAN CINCINNATI — LATITUDE: 39:10:47 N
COUNTY (061): HAMILTON CO — URBAN AREA (1639): CINCINNATI, OH-KY — LONGITUDE: 084:29:52 W
CITY (15000): CINCINNATI — LAND USE (3): INDUSTRIAL — UTM ZONE: 16
SITE ADDRESS: 5513 VINE ST., CINCINNATI, OHIO — LOCATION-SETTING (2): SUBURBAN — UTM-NORTHING: 4339500
SUPPORT AGENCY (008): SOUTHWESTERN OHIO AIR POLLUTION CONTROL AGENCY — UTM-EASTING: 00716142
SITE COMMENTS: ROUGH BROTHERS STATION; 3/4 KM NE OF P&G STACKS — ELEVATION-MSL: 00152 M

POLLUTANT NAME / POLL/METH/INT/UNTS/POC / YR-QT	EXC EVT	PCT OBS	NBR OBS	MON-TPE #EXCURS PRI	MON-TPE #EXCURS SEC	REPT-ORG MIN DET	METHOD OF COLLECTION AND ANALYSIS MIN OBS	PERCENTILES 10	30	50	70	90	95	99	INTERVAL MAX OBS	STANDARD UNITS 2ND MAX	ARIT MEAN	GEOM MEAN	GEOM STD D
SULFUR DIOXIDE			4			909	INSTRUMENTAL				ULTRA VIOLET STIMULATED				24-HR BLK AV UG/CU METER (25 C)				
42401-023-X-001-1																			
91-01		90	0	0	5	5	11	28	39	70	105	117	153	153	139				
91-02		91	0	0	5	5	11	22	36	50	89	94	140	140	134				
91-03		88	0	0	5	5	13	23	37	55	98	109	145	145	120				
91-04		21	0	0	5	6	12	25	40	54	91	101	130	130	101				
91-01	E	90	0	0	5	5	11	28	39	70	105	117	153	153	139				
91-02	E	91	0	0	5	5	11	22	36	50	89	94	140	140	134				
91-03	E	88	0	0	5	5	13	23	37	55	98	109	145	145	120				
91-04	E	26	1	0	5	6	12	25	41	70	130	245	464	464	245				
SULFUR DIOXIDE			4			909	INSTRUMENTAL				ULTRA VIOLET STIMULATED				3-HR BLK AVG UG/CU METER (25 C)				
42401-023-Y-001-1																			
91-01		631	0	0	5	5	5	15	31	62	130	160	231	296	294				
91-02		615	0	0	5	5	5	13	26	52	109	148	204	306	271				
91-03		608	0	0	5	5	5	16	29	53	121	154	215	314	279				
91-04		151	0	0	5	5	5	13	24	51	121	150	267	330	267				
91-01	E	631	0	0	5	5	5	15	31	62	130	160	231	296	294				
91-02	E	615	0	0	5	5	5	13	26	52	109	148	204	306	271				
91-03	E	608	0	0	5	5	5	16	29	53	121	154	215	314	279				
91-04	E	185	0	0	5	5	5	14	27	60	166	267	748	971	748				
SULFUR DIOXIDE			4			909	INSTRUMENTAL				ULTRA VIOLET STIMULATED				1 HOUR		UG/CU METER (25 C)		
42401-023-1-001-1																			
91-01		96 2070	0	0	5	5	5	13	29	55	134	176	254	414	343	50.8	26.7	3.32	
91-02		94 2061	0	0	5	5	5	10	21	45	113	155	236	451	380	42.5	22.8	3.09	
91-03		92 2023	0	0	5	5	5	12	26	47	121	162	249	414	362	46.5	26.1	2.99	
91-04		23 510	0	0	5	5	5	10	18	39	118	160	304	422	335	42.9*	21.9*	3.12	
91-01	E	96 2070	0	0	5	5	5	13	29	55	134	176	254	414	343	50.8	26.7	3.32	
91-02	E	94 2061	0	0	5	5	5	10	21	45	113	155	236	451	380	42.5	22.8	3.09	
91-03	E	92 2023	0	0	5	5	5	13	26	47	121	162	249	414	362	46.5	26.1	2.99	
91-04	E	28 621	0	0	5	5	5	13	24	52	165	283	624	1341	1307	68.0*	27.3*	3.66	

<THE LETTER E IN EXC EVT COLUMN INDICATES THE DATA CONTAINS EXCEPTIONAL EVENT DATA>
<AN ASTERISK (*) WITH A MEAN VALUE INDICATES THE MEAN DID NOT MEET SUMMARY CRITERIA>

Figure 5-2. Frequency Distribution Report-Quarterly Format (1 of 2)

DATE 93/09/08 EPA AEROMETRIC INFORMATION RETRIEVAL SYSTEM (AIRS) PAGE 1
AMP230 AIR QUALITY SUBSYSTEM
YEARLY FREQUENCY DISTRIBUTION

STATE (25): MASSACHUSETTS

SITE-ID: 25-025-0021 AQCR (119): METROPOLITAN BOSTON LATITUDE: 42:22:41 N
COUNTY (025): SUFFOLK CO URBAN AREA (1120): BOSTON, MA LONGITUDE: 071:01:42 W
CITY (07000): BOSTON LAND USE (1): RESIDENTIAL UTM ZONE: 19
SITE ADDRESS: 340 BREMAN STREET, EAST BOSTON LOCATION-SETTING (1): URBAN AND CENTER CITY UTM-NORTHING: 4693531
SUPPORT AGENCY (001): MASS DEPT ENVIRONMENTAL PROTECTION-DIV AIR QUALITY CONTROL UTM-EASTING: 0033:008
SITE COMMENTS: NAMS/EMSL SAMPLING SITE; ROADS ARE BREMAN, RTE 1A, PRESCOTT ELEVATION-MSL: 00006 M

POLLUTANT NAME / POLL/METH/INT/UNTS/POC	MON-TPE	REPT-ORG	METHOD OF COLLECTION AND ANALYSIS			INTERVAL	STANDARD UNITS			
YR EXC EVT PCT OBS NBR OBS	#EXCURS PRI SEC	MIN DET	MIN OBS	PERCENTILES 10 30 50 70 90 95 99	MAX OBS	2ND MAX	ARIT MEAN	GEOM MEAN	GEOM STD D
SUSPENDED PARTICULAT	4	005	HI-VOL	GRAVIMETRIC	24 HOURS	UG/CU METER (25 C)			
11101-091-7-001-2									
90 58 0 0	1	1	18	22 31 38 52 66 82 101	101	91	43.0	39.4	1.53
SULFATE (TSP)	4	005	HI-VOL	TURBIDIMETRIC	24 HOURS	UG/CU METER (25 C)			
12403-092-7-001-2									
90 58 0 0	.5	1.0	6.0	7.0 8.0 10.0 13.0 19.0	20.0	20.0	9.19	8.50	1.54
CARBON MONOXIDE	1	001	INSTRUMENTAL	NON DISPERSIVE INFRA-RED	8-HR RUN AVG	PPM			
42101-041-Z-007-1									
90 8668 0 0	.5	.3	.3	.6 .8 1.0 1.4 1.7	2.8	8.9	5.9		
CARBON MONOXIDE	1	001	INSTRUMENTAL	NON DISPERSIVE INFRA-RED	1 HOUR	PPM			
42101-041-1-007-1									
90 99 8646 0 0	.5	.3	.3	.6 .8 1.0 1.5 2.0	3.0	12.6	10.4	.87	.71	1.92
SULFUR DIOXIDE	1	001	MULTIPLE METHOD CODES	MULTIPLE METHOD CODES	24-HR BLK AV	UG/CU METER (25 C)			
42401-000-X-001-1									
90 361 0 0	0	3	9	16 21 29 45 58	80	115	93		
SULFUR DIOXIDE	1	001	MULTIPLE METHOD CODES	MULTIPLE METHOD CODES	3-HR BLK AVG	UG/CU METER (25 C)			
42401-000-Y-001-1									
90 2828 0 0	0	3	5	11 18 29 53 67	100	380	198		
SULFUR DIOXIDE	1	001	MULTIPLE METHOD CODES	MULTIPLE METHOD CODES	1 HOUR	UG/CU METER (25 C)			
42401-000-1-001-1									
90 98 8614 0 0	0	3	5	10 16 29 55 71	105	393	393	24.7	16.5	2.56
SULFUR DIOXIDE	4	005	INSTRUMENTAL	PULSED FLUORESCENT	24-HR BLK AV	UG/CU METER (25 C)			
42401-020-X-001-2									
90 365 0 0	5	4	14	21 27 35 54 68	105	122	120		

Figure 5-2. Frequency Distribution Report-Yearly Format (2 of 2)

5.2.2 Report Generation Options

The options available for the Frequency Distribution Report have to do with the output medium (printed report or work file), the report content (yearly or quarterly data, summary criteria data) and generation of the Precision-Accuracy Report. The report options screen, shown in Figure 5-3, allows you to select the type(s) of output and content you want.

The default option is to generate only a printed report. If you are using report criteria for the Frequency Distribution Report that you saved previously, your saved specifications for report options are displayed instead of the default.

The work file format for this report is given in Volume AQ1.

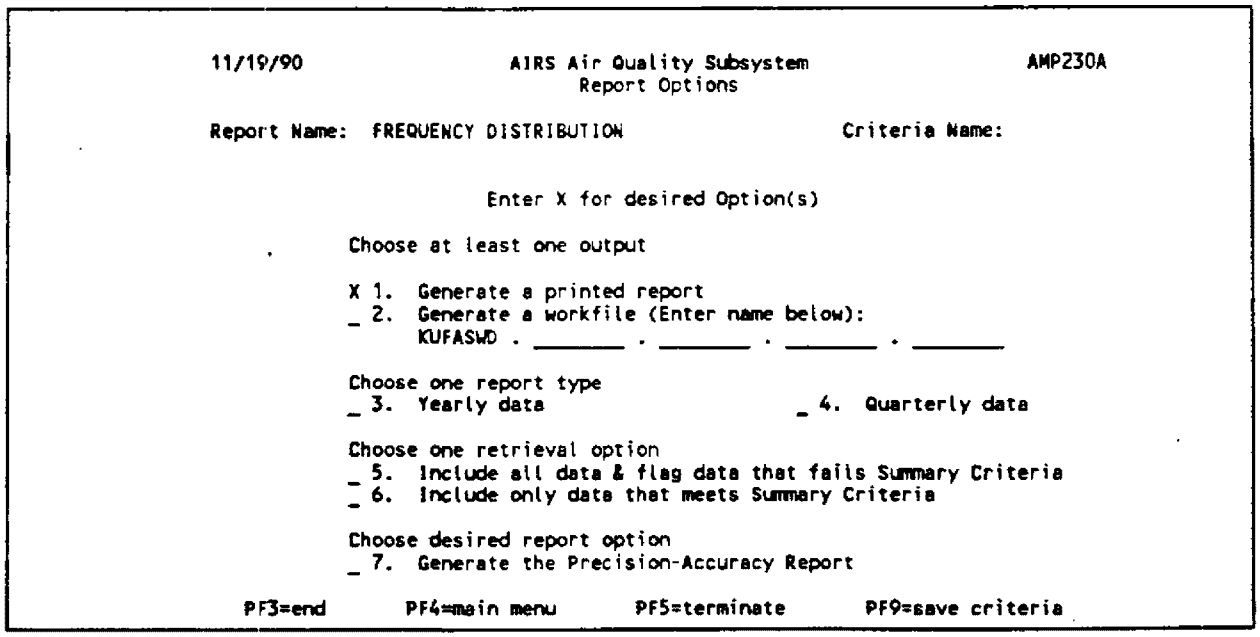


Figure 5-3. Report Options Screen for the Frequency Distribution Report

Instructions

You must choose one of the following report options, and you may choose both:

option 1	generate a printed report
option 2	generate a work file

You must choose one of the following report types:

option 3	yearly data
option 4	quarterly data

You must choose one of the following retrieval options:

option 5	include all data and flag data that fails summary criteria
option 6	include only data that meets summary criteria

You may choose the following additional report output:

option 7	generate the Precision-Accuracy report

If you choose a work file (option 2), you must specify a dataset name for it; otherwise you may not specify a dataset name.

Read Section 3.6.1 if you are not familiar with how to use the report options screen. Section 3.6.2 describes the characteristics of valid dataset names.

Error Messages

The error messages listed below (in alphabetical order) are displayed at the top of the report options screen if you make a mistake in specifying report options.

DATASET NAME IS INVALID
The work file dataset name is not valid. Refer to Section 3.6.2 of this volume for a description of dataset naming conventions.

DATASET NAME NOT ALLOWED WITHOUT SPECIFYING OPTION 2
If a work file is not selected as an output, the dataset name must be blank.

PLEASE CHOOSE ONLY ONE OPTION (OPTION 3 OR 4)
Do not select both option 3 (yearly) and option 4 (quarterly).

PLEASE CHOOSE ONLY ONE OPTION (OPTION 5 OR 6)
Do not select both option 5 (include all data) and option 6 (include only data that meets summary criteria).

PLEASE CHOOSE OPTION 1 OR 2 FOR OUTPUT

Either a printed report (option 1) or a work file (option 2) must be selected as an output of the report.

PLEASE CHOOSE OPTION 3 OR 4

Either option 3 (yearly) or option 4 (quarterly) must be selected for extraction of data from the summary files.

PLEASE CHOOSE OPTION 5 OR 6

Either option 5, to extract all data regardless of summary criteria (with "failed" records flagged), or option 6, to extract only data that meet the summary criteria, must be selected.

PLEASE ENTER A VALID DATASET NAME

If a work file is selected, a dataset name must be specified.

PLEASE ENTER BLANK OR 'X'

Only blank and X are valid entries for selecting report options.

PLEASE USE A VALID PF-KEY

A PF key not defined for this screen was used.

5.2.3 Data Selection Options

You may select which monitors are included in the report using the select criteria screen. A sample screen is shown in Figure 5-4. The leftmost portion of the screen is shown at the top of the figure and the rightmost portion is shown at the bottom.

There are three groups of selection criteria. The first group consists of "geographic" criteria. Only certain combinations of these fields are allowed. You may use any one of the following combinations of geographic selection fields:

state (code or abbreviation)
state + county
state + county + site
state + reporting organization
state + city
state + AQCR
AQCR
urban area
MSA
CMSA
MSA-rep
CMSA-rep
status area

The second group of selection criteria consists of the following optional fields:

parameter
method
interval
monitor type

The third group of selection criteria consists of the following required fields:

begin date (year and quarter)
end date (year and quarter)

In a given line on the select criteria screen, you must specify all the fields in the third group of selection criteria and either parameter or one of the geographic criteria in the first group. You may use any of the criteria in the second group in addition to other criteria. If you specify method, you must also specify parameter.

Specify dates as year and quarter (YYQ format). Valid dates are the first quarter of 1957 (571) through any valid quarter.

In addition to the monitor type codes listed in Volume GC2 of the AIRS User's Guide, you may use the code "B" to select both NAMS and SLAMS monitors and code "P" to select PAMS monitors.

```
09/30/92                    AIRS Air Quality Subsystem                    AMP230B
                                Select Criteria                           Page 1/2

Report Name:  FREQUENCY DISTRIBUTION                        Criteria Name:
                        PARA-                  BEGIN    END    MON              REP  URBAN
  ST  CNTY  SITE        METER   METH INT  YEAR Q  YEAR Q  TYPE  CITY      AQCR  ORG  AREA
  __  ___   ____        ____    ___  _    ____ _  ____ _  ____  ________  ____  ___  ____
  __  ___   ____        ____    ___  _    ____ _  ____ _  ____  ________  ____  ___  ____
  __  ___   ____        ____    ___  _    ____ _  ____ _  ____  ________  ____  ___  ____
  __  ___   ____        ____    ___  _    ____ _  ____ _  ____  ________  ____  ___  ____
  __  ___   ____        ____    ___  _    ____ _  ____ _  ____  ________  ____  ___  ____
  __  ___   ____        ____    ___  _    ____ _  ____ _  ____  ________  ____  ___  ____
  __  ___   ____        ____    ___  _    ____ _  ____ _  ____  ________  ____  ___  ____
  __  ___   ____        ____    ___  _    ____ _  ____ _  ____  ________  ____  ___  ____
  __  ___   ____        ____    ___  _    ____ _  ____ _  ____  ________  ____  ___  ____
  __  ___   ____        ____    ___  _    ____ _  ____ _  ____  ________  ____  ___  ____

PF1=help   PF2=duplicate   PF3=end  PF4=main menu   PF5=terminate   PF6=rpt options
PF7=back   PF8=more         PF9=save criteria       PF10=left       PF11=right
```

```
09/30/92                    AIRS Air Quality Subsystem                    AMP230B
                                Select Criteria                           Page 2/2

Report Name:  FREQUENCY DISTRIBUTION                        Criteria Name:

                    MSA    CMSA   STATUS
  MSA    CMSA       REP    REP    AREA
  ____   ____       ____   ____   ____
  ____   ____       ____   ____   ____
  ____   ____       ____   ____   ____
  ____   ____       ____   ____   ____
  ____   ____       ____   ____   ____
  ____   ____       ____   ____   ____
  ____   ____       ____   ____   ____
  ____   ____       ____   ____   ____
  ____   ____       ____   ____   ____
  ____   ____       ____   ____   ____

PF1=help   PF2=duplicate   PF3=end  PF4=main menu   PF5=terminate   PF6=rpt options
PF7=back   PF8=more         PF9=save criteria       PF10=left       PF11=right
```

Figure 5-4. Select Criteria Screen for the Frequency Distribution Report

Online Help is available for all of the selection criteria fields except BEGIN-DATE and END-DATE. The Help facility allows you to browse through tables of values, with descriptions, for the codes you need to enter, and then to select the value that you wish to use. The Help facility is described in detail in Section 3.6.4.

Instructions

Enter selection criteria into the available fields on the select criteria screen, or alter the previously saved criteria displayed on the screen if you wish. You must specify criteria in at least one line on the screen. Press the ENTER key when you have finished entering or altering the criteria.

Read Section 3.6.3 if you are not familiar with how to use the select criteria screen. Refer to Volume GC2 of the AIRS User's Guide for lists of valid codes to use for selection criteria.

Press PF1=help for general information about the select criteria process. For Field-specific Help, enter a "?" in the first position of any field (except BEGIN-DATE or END-DATE).

Error Messages

The error messages listed below (in alphabetical order) are displayed at the top of the select criteria screen if you make a mistake in specifying selection criteria. See Volume GC4 of the AIRS User's Guide for explanations of the error messages that you may encounter while using Field-specific Help.

A PARAMETER IS REQUIRED FOR STATUS-AREA CODE
If status area is entered, parameter must be entered.

A STATE IS REQUIRED FOR CITY
If city is entered, state must be entered.

A STATE IS REQUIRED FOR COUNTY
If county is specified, state must be specified.

A STATE IS REQUIRED FOR REPORT-ORG
If reporting organization is entered, state must be entered.

BEGIN-QUARTER IS < 1 OR > 4
Begin quarter must be in the range 1 through 4.

BEGIN-YEAR IS < 57 OR > CURRENT YEAR
Begin year must be in the range 57 through current year.

END-QUARTER IS < 1 OR > 4
End quarter must be in the range 1 through 4.

END-QUARTER MUST BE GREATER THAN OR EQUAL TO THE BEGIN-QUARTER
If begin and end years are equal, end quarter must be equal to or greater than begin quarter.

ENTER SELECTION CRITERIA OR USE A PF-KEY TO ESCAPE
ENTER was pressed without any selection criteria specified. Either specify criteria and press ENTER or use one of the valid PF keys to transfer to another screen or terminate the AIRS session.

PF2 INVALID - MAXIMUM NUMBER OF SELECTION CRITERIA HAS BEEN SPECIFIED
Do not press PF2 when the last select criteria screen is full.

PF2 INVALID - THERE ARE NO SELECTION CRITERIA TO DUPLICATE
Do not press PF2 without entering at least one selection criterion.

PF7 INVALID - THIS IS THE FIRST SELECT CRITERIA SCREEN
Do not press PF7 from the first select criteria screen; it is used to page backward.

PF8 INVALID - THIS IS THE FINAL SELECT CRITERIA SCREEN
Do not press PF8 from the last select criteria screen; it is used to page forward.

PF10 INVALID - THIS IS THE LEFT-MOST SELECT CRITERIA SCREEN
Do not press PF10 while the leftmost select criteria screen is displayed.

PF11 INVALID - THIS IS THE RIGHT-MOST SELECT CRITERIA SCREEN
Do not press PF11 while the rightmost select criteria screen is displayed.

PLEASE DO NOT ENTER BOTH STATE AND CMSA CODE
Do not enter both state and CMSA code.

PLEASE DO NOT ENTER BOTH STATE AND CMSA-REP CODE
Do not enter both state and CMSA-rep code.

PLEASE DO NOT ENTER BOTH STATE AND MSA CODE
Do not enter both state and MSA code.

PLEASE DO NOT ENTER BOTH STATE AND MSA-REP CODE
Do not enter both state and MSA-rep code.

PLEASE DO NOT ENTER BOTH STATE AND STATUS-AREA CODE
Do not enter both state and status area code.

PLEASE DO NOT ENTER BOTH STATE AND URBAN-AREA CODE
Do not enter both state and urban area as select criteria.

PLEASE ENTER A NUMERIC BEGIN-QUARTER
The begin quarter entered must be numeric.

PLEASE ENTER A NUMERIC BEGIN-YEAR
The begin year entered must be numeric.

PLEASE ENTER A NUMERIC END-QUARTER
The end quarter entered must be numeric.

PLEASE ENTER A NUMERIC END-YEAR
The end year entered must be numeric.

PLEASE ENTER A PARAMETER CODE WITH THE METHOD CODE
If method is entered, parameter must be entered.

PLEASE ENTER A VALID 1-DIGIT BEGIN-QUARTER
If begin year equals the current year, begin quarter cannot exceed the current quarter.

PLEASE ENTER A VALID 1-DIGIT END-QUARTER
If end year equals the current year, end quarter cannot exceed the current quarter.

PLEASE ENTER A VALID AQCR CODE
The AQCR code is not valid.

PLEASE ENTER A VALID CITY CODE
The combination of city and state codes is not valid.

PLEASE ENTER A VALID CMSA CODE
The CMSA code entered must be in the AIRS GEO-COMMON File.

PLEASE ENTER A VALID CMSA-REP CODE
The CMSA-rep code entered must be in the AIRS GEO-COMMON File.

PLEASE ENTER A VALID COUNTY CODE
The combination of county and state codes is not valid.

PLEASE ENTER A VALID INTERVAL CODE
The interval code is not valid.

PLEASE ENTER A VALID METHOD CODE
The combination of method and parameter codes is not valid.

PLEASE ENTER A VALID MONITOR-TYPE CODE
The monitor type code is not valid. Use a code listed in Volume GC2, or use "B" to select both NAMS and SLAMS monitor types or "P" to select PAMS monitor types.

PLEASE ENTER A VALID MSA CODE
The MSA code entered must be in the AIRS GEO-COMMON File.

PLEASE ENTER A VALID MSA-REP CODE
The MSA-rep code entered must be in the AIRS GEO-COMMON File.

PLEASE ENTER A VALID PARAMETER CODE
The parameter code is not valid.

PLEASE ENTER A VALID REPORT-ORG
The combination of reporting organization and state is not valid.

PLEASE ENTER A VALID SITE CODE
The combination of state, county, and site does not match any existing site-ID in the Site file.

PLEASE ENTER A VALID STATE ABBREVIATION
The state abbreviation is not valid.

PLEASE ENTER A VALID STATE CODE
The state code is not valid.

PLEASE ENTER A VALID STATUS-AREA CODE FOR PARAMETER
The combination of status area and parameter entered must be in the AIRS GEO-COMMON File.

PLEASE ENTER A VALID URBAN-AREA CODE
The urban area code is not valid.

PLEASE ENTER AN END-YEAR THAT IS GREATER THAN OR EQUAL TO THE BEGIN-YEAR
The end year must be greater than or equal to the begin year.

PLEASE ENTER ONE: STATE, PARAMETER, AQCR, URBAN-AREA, MSA, CMSA, MSA-REP, CMSA-REP, OR STATUS AREA
One of the geographic criteria or parameter must be used in each line of select criteria.

PLEASE ENTER ONLY ONE: AQCR, URBAN-AREA, CITY, REPORT-ORG, COUNTY, MSA, CMSA, MSA-REP, CMSA-REP, OR STATUS-AREA
Only the combinations of geographic selection criteria listed at the beginning of this section are valid.

PLEASE FILL ALL LINES BEFORE GOING ON TO THE NEXT SCREEN
PF8 is valid only when the current screen is full or when there are more criteria on a subsequent screen.

PLEASE USE A VALID PF-KEY
A PF key not defined for this screen was used.

REPORT BEGINNING QUARTER IS REQUIRED FOR THIS REPORT
Begin quarter must be entered.

REPORT BEGINNING YEAR REQUIRED FOR THIS REPORT
Begin year must be entered.

REPORT ENDING QUARTER IS REQUIRED FOR THIS REPORT
End quarter must be entered.

REPORT ENDING YEAR IS REQUIRED FOR THIS REPORT
End year must be entered.

STATUS-AREA CODE NOT ALLOWED WITH THIS PARAMETER
A status area was entered for a parameter that does not allow entry of a status area.

THE COUNTY CODE IS REQUIRED WITH THE SITE CODE
If site is specified, county must be specified.

5.2.4 Data Sorting Options

The sort sequence you specify determines the order of monitoring site entries in the Frequency Distribution Report and work file. The sort criteria screen, shown in Figure 5-5, allows you to establish the sort sequence. The default sort sequence is by state, county, site, parameter, POC, interval, and date.

You may alter or delete the existing sort sequence and enter new sort criteria, using any of the numbered fields shown on the screen. All of the sort fields are allowed for this report.

If you use report criteria that were saved previously for a different report, the sort criteria program may alter the saved sort specifications to conform with the requirements for this report. Otherwise, the saved sort sequence is not altered.

The state, county, site, parameter, POC, interval, and date fields are added to your sort sequence automatically if you do not specify them. This is done to ensure that the sorting process will eliminate any duplicate records from the report. (Duplicates could occur if a monitoring site were selected by more than one of your selection "cards".) The fields are inserted at the end of the sequence you specified.

```
09/30/92                AIRS Air Quality Subsystem                AMP230C
                            Sort Criteria

Report Name:  FREQUENCY DISTRIBUTION              Criteria Name:

    1.  State              6.  Reporting Org      11.  Method
    2.  County             7.  Urban Area         12.  Interval
    3.  Site               8.  EPA Region         13.  Monitor Type
    4.  Parameter          9.  City               14.  Date
    5.  POC               10.  AQCR

 Enter the numbers of the Sort Elements above in the desired Sort Sequence:

                _1  _2  _3  _4  _5  12  14  __  __  __  __  __  __  __

 PF3=end    PF4=main menu    PF5=terminate    PF6=select criteria    PF9=save criteria
```

Figure 5-5. Sort Criteria Screen for the Frequency Distribution Report

Instructions

Read Section 3.6.4 of this manual if you are not familiar with how to use the sort criteria screen.

Choose any or all of the allowed sort fields listed above, subject to the following rules:

1. If you use EPA region, it must be the first sort field.
2. State must precede county and city.
3. City or county must precede site.
4. Parameter must precede method and POC.

Error Messages

The error messages listed below (in alphabetical order) are displayed at the top of the sort criteria screen if you make a mistake in specifying sort criteria.

CITY OR COUNTY REQUIRED BEFORE SITE

Sorting by site without also specifying county or city was requested, or site was specified before city or county. Since site is meaningful only within county, state and county or state and city must be specified before site in the sort sequence. (If city is specified, county is inserted automatically in the sort sequence just before site.) Add the necessary field(s) to the sort sequence or change the order so site is after city and county.

ERROR - REPEATED SORT CRITERIA

Each sort criterion may be entered only once.

PARAMETER CODE REQUIRED BEFORE METHOD

Method was specified without parameter or they were specified in the wrong order. Add parameter to the sort sequence, eliminate method, or change the order so method follows parameter.

PARAMETER CODE REQUIRED BEFORE POC

POC was specified without parameter or they were specified in the wrong order. Add parameter to the sort sequence, eliminate POC, or change the order so POC follows parameter.

PLEASE ENTER A NUMBER IN THE RANGE 1 THROUGH 14

The sort specification at the cursor is not valid, and you must change it. Valid entries are blank or one of the sort field numbers allowed for this report: 1 - 14. Remember that you must enter two digits for each sort specification.

PLEASE USE A VALID PF-KEY

A PF key not defined for this screen was used.

REGION CAN ONLY BE THE FIRST SORT CRITERION

If EPA region is used, it must be first in the sort sequence. Either move region to the first position or eliminate it from the sort specification.

STATE CODE REQUIRED BEFORE CITY

Sorting by city without also specifying state was requested, or city was specified before state. Since city is meaningful only within state, state must be specified before city in the sort sequence. Add state to the sort sequence, eliminate city, or change the order so city is after state.

STATE CODE REQUIRED BEFORE COUNTY

Sorting by county without also specifying state was requested, or they were specified in the wrong order. Since county is meaningful only within state, state must be specified before county in the sort sequence. Add state to the sort sequence, eliminate county, or change the order so county follows state.

STATE CODE REQUIRED BEFORE REPORT-ORG

Sorting by reporting organization without also specifying state was requested, or reporting organization was specified before state. Since reporting organization is meaningful only within state, state must be specified before reporting organization in the sort sequence. Add state to the sort sequence, eliminate reporting organization, or change the order so reporting organization is after state.

5.3 Precision/Accuracy Reporting Organization Summary Report (AMP240)

5.3.1 Description

The Precision/Accuracy Reporting Organization Summary Report Program presents quarterly and yearly information about the collective precision and accuracy of all the monitors for selected state, pollutant, dates, and reporting organization. The report may be produced as a stand-alone report or in conjunction with the following AQ Reports:

AMP230 - Frequency Distribution
AMP260 - Reduced Frequency Distribution
AMP280 - SLAMS Data Retrieval
AMP300 - Violation Day Count
AMP310 - Inventory
AMP350 - Raw Data Listing
AMP355 - Standards
AMP370 - Raw Data Conversion
AMP450 - Quick Look

The Precision/Accuracy Reporting Organization Summary Report optionally produces a printed report and a work file. However, if the report is selected to run in conjunction with one of the qualifying AQ Reports, only the printed report is produced.

Data is extracted from the Precision/Accuracy Reporting Organization Summary file based on the user-specified select criteria. The report has two formats, one for continuous type data and one for intermittent type data. Each of the formats includes the following information:

Continuous

Precision -	Number of analyzers and precision checks
	Lower and upper probability limits
Accuracy -	Source of audit gas
	Traceability
	Number of audits at levels 1-3, level 4, and level 5
	Lower and upper probability limits for five levels

Intermittent

Precision -	Number of samplers and collocated sites
	Lower and upper probability limits
	Number of collocated samples below limits
	Number of valid collocated sample pairs
Accuracy -	Number of audits at levels 1-3
	Lower and upper probability limits for three levels

The precision and accuracy data is displayed in separate columns on each of the formats. For a given state, pollutant, and reporting organization, the yearly data is displayed first, then each of the quarters that falls within the time period is displayed below. If the selection criteria specify a begin and end date which includes partial years, only the quarters within range are displayed. A sample of the report is shown in Figure 5-6.

DATE 12/09/93 EPA AEROMETRIC INFORMATION RETRIEVAL SYSTEM (AIRS) PAGE 1

AMP240 AIR QUALITY SUBSYSTEM
PRECISION/ACCURACY REPORTING ORGANIZATION SUMMARY REPORT (CONTINUOUS DATA)

STATE (51): VIRGINIA
REPORT ORG (001): VIRGINIA STATE AIR POLLUTION CONTROL BOARD

--- PRECISION-ACCURACY DATA KEY ---							PRECISION DATA				ACCURACY DATA									
RG	ST	RO	TYP	CLASS	POLL	YEAR-Q	# OF ANLYZRS	PRECIS CHECKS	PROB LIM LO	PROB LIM UP	LOC STD SOURCE	TYP AUD	# AUDITS L1-3	# AUDITS L4	PROB LIM LO-L1-UP		PROB LIM LO-L2-UP		PROB LIM LO-L3-UP		PROB LIM LO-L4-UP	
03	51	001	C	A	42101	1991	7	226	-04	+05			9	0	-05	+08	-02	+03	-02	+02		
CARBON MONOXIDE						1991-1	7	56	-03	+05	A	2	2	0	-04	+00	-04	+01	-03	-01		
						1991-2	7	56	-02	+04	A	2	2	0	-02	+10	+01	+02	-01	+03		
						1991-3	7	55	-04	+04	A	2	3	0	-05	+08	+00	+02	-01	+01		
						1991-4	7	59	-04	+06	A	2	2	0	-08	+08	-02	+00	-04	+01		
03	51	001	C	A	42101	1992	7	220	-05	+06			8	0	-05	+05	-02	+03	-04	+03		
CARBON MONOXIDE						1992-1	7	54	-04	+05	A	2	2	0	-01	+03	-01	+01	-01	-01		
						1992-2	7	58	-04	+06	A	2	2	0	-06	-02	-04	+01	-05	+00		
						1992-3	7	55	-05	+06	A	2	2	0	+01	+01	+00	+02	+00	+02		
						1992-4	7	53	-05	+07	A	2	2	0	+00	+04	+01	+02	+01	+02		
03	51	001	C	A	42401	1991	6	179	-08	+05			8	0	-02	+10	-03	+12	-03	+10		
SULFUR DIOXIDE						1991-1	6	44	-07	+05	A	2	2	0	-01	+11	+01	+10	-01	+12		
						1991-2	6	45	-06	+05	A	2	2	0	+00	+12	+00	+11	-03	+11		
						1991-3	6	45	-08	+03	A	2	2	0	+04	+08	+03	+11	+02	+10		
						1991-4	6	45	-08	+07	A	2	2	0	-05	+07	-08	+11	-06	+07		
03	51	001	C	A	42401	1992	6	170	-09	+06			7	0	-04	+04	-02	+06	-02	+06		
SULFUR DIOXIDE						1992-1	6	41	-11	+05	A	2	0	0								
						1992-2	6	43	-09	+05	A	2	3	0	-04	+03	-01	+07	+00	+06		
						1992-3	6	44	-07	+04	A	2	2	0	-05	+07	-03	+06	-04	+07		
						1992-4	6	42	-10	+09	A	2	2	0	-05	+03	-03	+05	-03	+05		
03	51	001	C	A	42602	1991	5	168	-08	+05			8	0	-01	+09	-02	+12	-03	+11		
NITROGEN DIOXIDE						1991-1	5	42	-05	+04	A	2	2	0	+08	+09	+03	+08	+02	+05		
						1991-2	5	43	-08	+04	A	2	2	0	-10	+14	-16	+23	-17	+23		
						1991-3	5	42	-09	+05	A	2	2	0	-06	+05	+01	+03	+01	+04		
						1991-4	5	41	-09	+06	A	2	2	0	-01	+10	+01	+09	+03	+05		
03	51	001	C	A	42602	1992	6	188	-08	+05			8	0	-09	+17	+01	+11	+01	+11		
NITROGEN DIOXIDE						1992-1	6	45	-09	+02	A	2	2	0	+03	+09	+04	+06	+01	+06		
						1992-2	6	49	-09	+07	A	2	2	0	+02	+19	-06	+19	-06	+18		
						1992-3	6	47	-05	+03	A	2	2	0	-10	+16	+03	+12	+06	+10		
						1992-4	6	47	-08	+05	A	2	2	0	-13	+11	+03	+06	+03	+09		
03	51	001	C	A	44201	1991	14	333	-08	+06			27	27	+00	+08	-02	+04	-03	+04	-05	+03
OZONE						1991-1	1	9	-12	+06			0	0								
						1991-2	14	137	-07	+07	F	2	11	11	-06	+12	-03	+05	-02	+03	-02	+02
						1991-3	14	139	-08	+05	F	2	12	12	-03	+12	-02	+05	-04	+03	-05	+03
						1991-4	14	48	-07	+06	F	2	4	4	+00	+07	-03	+08	-02	+06	-08	+07
03	51	001	C	A	44201	1992	16	364	-09	+05			20	19	-05	+12	-02	+07	+00	+04	-01	+04
OZONE						1992-1	1	9	-14	+10			0	0								
						1992-2	15	138	-09	+05	F	2	9	8	-10	+16	-03	+08	-01	+04	-01	+03
						1992-3	16	152	-07	+03	F	2	8	8	-03	+08	+01	+04	+00	+03	-01	+03
						1992-4	16	65	-09	+04	F	2	3	3	-03	+12	-01	+08	+00	+06	-02	+07

Figure 5-6. Precision/Accuracy Reporting Organization Summary Report - Continuous Data (1 of 2)

DATE 12/09/93 EPA AEROMETRIC INFORMATION RETRIEVAL SYSTEM (AIRS) PAGE 2
AMP240 AIR QUALITY SUBSYSTEM
PRECISION/ACCURACY REPORTING ORGANIZATION SUMMARY REPORT (INTERMITTENT DATA)

STATE (51): VIRGINIA
REPORT ORG (001): VIRGINIA STATE AIR POLLUTION CONTROL BOARD

--- PRECISION-ACCURACY DATA KEY ---						PRECISION DATA				ACCURACY DATA								
RG	ST	RO	TYP	CLASS	POLL	YEAR-Q	# OF ANLYZRS	PRECIS CHECKS	PROB LIM LO	PROB LIM UP	LOC STD SOURCE	TYP AUD	# AUDITS L1-3	L4	PROB LIM LO-L1-UP		PROB LIM LO-L2-UP		PROB LIM LO-L3-UP	PROB LIM LO-L4-UP
03	51	001	I	A	12128	1991	58	1			57	1	W	2	17	-11	+08	-12	+12	
LEAD (TSP)						1991-1	15	1			14	1	W	3	8	-12	+03	-04	+08	
						1991-2	15	1			15	0	W	3	1	+00	+00	-06	-06	
						1991-3	15	1			15	0	W	3	4	-05	+01	-08	+04	
						1991-4	13	1			13	0	W	3	4	+04	+08	+01	+11	
03	51	001	I	F	12128	1991	58	1			57	1	W	2	17	-11	+08	-12	+12	
LEAD (TSP)						1991-1	15	1			14	1	W	3	8	-12	+03	-04	+08	
						1991-2	15	1			15	0	W	3	1	+00	+00	-06	-06	
						1991-3	15	1			15	0	W	3	4	-05	+01	-08	+04	
						1991-4	13	1			13	0	W	3	4	+04	+08	+01	+11	
03	51	001	I	A	12128	1992	60	1			60	0	N	2	24	-28	+19	-10	+06	
LEAD (TSP)						1992-1	16	1			16	0	N	2	10	-23	+15	-05	+04	
						1992-2	14	1			14	0	W	3	4	-14	+09	-11	-04	
						1992-3	15	1			15	0	W	3	4	-22	-05	-21	-01	
						1992-4	15	1			15	0	W	3	6	-39	+37	-24	+15	
03	51	001	I	F	12128	1992	60	1			60	0	N	2	24	-28	+19	-10	+06	
LEAD (TSP)						1992-1	16	1			16	0	N	2	10	-23	+15	-05	+04	
						1992-2	14	1			14	0	W	3	4	-14	+09	-11	-04	
						1992-3	15	1			15	0	W	3	4	-22	-05	-21	-01	
						1992-4	15	1			15	0	W	3	6	-39	+37	-24	+15	
03	51	001	I	A	81102	1991	169	3	-03	+05	63	106	N	2	36			-05	+01	
PM10 TOTAL 0-10UM						1991-1	42	3	-04	+03	25	17	N	2	9			-03	+01	
						1991-2	41	3	-03	+06	8	33	N	2	11			-05	+00	
						1991-3	45	3	-02	+03	11	34	N	2	8			-07	+01	
						1991-4	41	3	-04	+07	19	22	N	2	8			-04	+00	
03	51	001	I	A	81102	1992	164	3	-05	+05	89	75	N	2	37			-06	+01	
PM10 TOTAL 0-10UM						1992-1	45	3	-03	+06	34	11	N	2	8			-07	+06	
						1992-2	34	3	-06	+04	11	23	N	2	11			-06	+00	
						1992-3	43	3	-04	+04	16	27	N	2	8			-09	+04	
						1992-4	42	3	-04	+07	28	14	N	2	10			-08	+03	

Figure 5-6. Precision/Accuracy Reporting Organization Summary Report - Intermittent Data (2 of 2)

5.3.2 Report Generation Options

The options available for the Precision/Accuracy Reporting Organization Summary Report have to do with the output medium (printed report or work file). The report options screen, shown in Figure 5-7, allows you to select the type(s) of output you want.

The default option is to generate only a printed report. If you are using report criteria for the Precision/Accuracy Reporting Organization Summary Report that you saved previously, your saved specifications for report options are displayed instead of the default.

The work file format for this report is given in Volume AQ1.

```
mm/dd/yy                AIRS Air Quality Subsystem              AMP240A
                            Report Options

Report Name:  P/A RO SUMMARY                      Criteria Name :  <-name->

                      Enter X for desired Option(s)

            Choose at least one output
            x 1.  Generate a printed report
            _ 2.  Generate a workfile (Enter name below):
                  iiiaaaa . _______ . _______ . _______ . _______


   PF3=end      PF4=main menu      PF5=terminate      PF9=save criteria
```

Figure 5-7. Report Options Screen for the P/A Reporting Organization Summary Report

Instructions

You must choose one or more of the following report options:

option 1 generate a printed report
option 2 generate a work file

If you choose a work file, you must specify a dataset name for it; otherwise, you may not specify a dataset name.

Read Section 3.6.1 if you are not familiar with how to use the report options screen. Section 3.6.2 describes the characteristics of valid dataset names.

Error Messages

The error messages listed below (in alphabetical order) are displayed at the top of the report options screen if you make a mistake in specifying report options.

DATASET NAME IS INVALID
The work file dataset name is not valid. Refer to Section 3.6.2 of this volume for a description of dataset naming conventions.

DATASET NAME NOT ALLOWED WITHOUT SPECIFYING OPTION 2
If a work file is not selected as an output, a dataset name must not be entered.

PLEASE CHOOSE OPTION 1 OR 2 FOR OUTPUT
Either a printed report (option 1) or a work file (option 2) must be selected as a report output.

PLEASE ENTER A VALID DATASET NAME
If a work file is selected, a dataset name must be specified.

PLEASE ENTER BLANK OR 'X'
Only blank and X are valid entries for selecting report options.

PLEASE USE A VALID PF-KEY
A PF key not defined for this screen was used.

5.3.3 Data Selection Options

You may select which monitors are included in the report using the select criteria screen. A sample screen is shown in Figure 5-8. The leftmost portion of the screen is shown at the top of the figure and the rightmost portion is shown at the bottom.

There are two groups of selection criteria. The first group consists of three fields. Only the following combinations of those fields are valid:

state (code or abbreviation)
state + reporting organization
parameter
parameter + state
parameter + state + reporting organization
MSA
CMSA
MSA-rep
CMSA-rep
status area

The second group of selection criteria consists of the following required fields:

begin date (year and quarter)
end date (year and quarter)

In a given line on the select criteria screen, you must specify one of the criteria in the first group and both of the criteria in the second group.

In addition to the monitor type codes listed in Volume GC2 of the AIRS User's Guide, you may use the code "B" to select both NAMS and SLAMS monitors and code "P" to select PAMS monitors.

Specify dates as year and quarter (YYQ format). Valid dates are the first quarter of 1981 (811) through any valid quarter.

You may not specify selection based on county, site, sampling method or interval, monitor type, city, AQCR, or urban area.

Online Help is available for all of the selection criteria fields except BEGIN-DATE and END-DATE. The Help facility allows you to browse through tables of values, with descriptions, for the codes you need to enter, and then to select the value that you wish to use. The Help facility is described in detail in Section 3.6.4.

```
09/30/92                    AIRS Air Quality Subsystem                    AMP240B
                                Select Criteria                           Page 1/2

Report Name:  P/A RO SUMMARY                                Criteria Name:

 ST  CNTY  SITE  PARA-  METH INT  BEGIN  END   MON                 REP  URBAN
                METER             YEAR Q YEAR Q TYPE  CITY  AQCR  ORG  AREA
 __  ___   ____  _____             __ _   __ _
 __  ___   ____  _____             __ _   __ _
 __  ___   ____  _____             __ _   __ _
 __  ___   ____  _____             __ _   __ _
 __  ___   ____  _____             __ _   __ _
 __  ___   ____  _____             __ _   __ _
 __  ___   ____  _____             __ _   __ _
 __  ___   ____  _____             __ _   __ _
 __  ___   ____  _____             __ _   __ _
 __  ___   ____  _____             __ _   __ _
 __  ___   ____  _____             __ _   __ _

PF1=help   PF2=duplicate   PF3=end  PF4=main menu   PF5=terminate   PF6=rpt options
PF7=back   PF8=more        PF9=save criteria        PF10=left        PF11=right
```

```
09/30/92                    AIRS Air Quality Subsystem                    AMP240B
                                Select Criteria                           Page 2/2

Report Name:  P/A RO SUMMARY                                Criteria Name:

                MSA   CMSA   STATUS
 MSA   CMSA     REP   REP    AREA
 ____  ____     ____  ____   ____
 ____  ____     ____  ____   ____
 ____  ____     ____  ____   ____
 ____  ____     ____  ____   ____
 ____  ____     ____  ____   ____
 ____  ____     ____  ____   ____
 ____  ____     ____  ____   ____
 ____  ____     ____  ____   ____
 ____  ____     ____  ____   ____
 ____  ____     ____  ____   ____
 ____  ____     ____  ____   ____

PF1=help  PF2=duplicate   PF3=end   PF4=main menu   PF5=terminate   PF6=rpt options
PF7=back  PF8=more        PF9=save criteria        PF10=left       PF11=right
```

Figure 5-8. Select Criteria Screen for the P/A Reporting Organization Summary Report

Instructions

Enter selection criteria into the available fields on the select criteria screen, or alter the previously saved criteria displayed on the screen if you wish. You must specify criteria in at least one line on the screen. Press the ENTER key when you have finished entering or altering the criteria.

Read Section 3.6.3 if you are not familiar with how to use the select criteria screen. Refer to Volume GC2 of the AIRS User's Guide for lists of valid codes to use for selection criteria.

Press PF1=help for general information about the select criteria process. For Field-specific Help, enter a "?" in the first position of any field (except BEGIN-DATE or END-DATE).

Error Messages

The error messages listed below (in alphabetical order) are displayed at the top of the select criteria screen if you make a mistake in specifying selection criteria. See Volume GC4 of the AIRS User's Guide for explanations of the error messages that you may encounter while using Field-specific Help.

A PARAMETER IS REQUIRED FOR STATUS-AREA CODE
If status area is entered, parameter must be entered.

A STATE IS REQUIRED FOR REPORT-ORG
If reporting organization is specified, state must be specified.

BEGIN-QUARTER IS < 1 OR > 4
Begin quarter must be in the range 1 through 4.

BEGIN-YEAR IS < 81 OR > CURRENT YEAR
Begin year must be in the range 81 through current year.

END-QUARTER IS < 1 OR > 4
End quarter must be in the range 1 through 4.

END-QUARTER MUST BE GREATER THAN OR EQUAL TO THE BEGIN-QUARTER
If begin and end years are equal, end quarter must be equal to or greater than begin quarter.

ENTER SELECTION CRITERIA OR USE A PF-KEY TO ESCAPE
ENTER was pressed without any selection criteria specified. Either specify criteria and press ENTER or use one of the valid PF keys to transfer to another screen or terminate the AIRS session.

PF2 INVALID - MAXIMUM NUMBER OF SELECTION CRITERIA HAS BEEN SPECIFIED
Do not press PF2 when the last select criteria screen is full.

PF2 INVALID - THERE ARE NO SELECTION CRITERIA TO DUPLICATE
Do not press PF2 without entering at least one selection criterion.

PF7 INVALID - THIS IS THE FIRST SELECT CRITERIA SCREEN
Do not press PF7 from the first select criteria screen; it is used to page backward.

PF8 INVALID - THIS IS THE FINAL SELECT CRITERIA SCREEN
Do not press PF8 from the last select criteria screen; it is used to page forward.

PF10 INVALID - THIS IS THE LEFT-MOST SELECT CRITERIA SCREEN
Do not press PF10 while the leftmost select criteria screen is displayed.

PF11 INVALID - THIS IS THE RIGHT-MOST SELECT CRITERIA SCREEN
Do not press PF11 while the rightmost select criteria screen is displayed.

PLEASE DO NOT ENTER BOTH STATE AND CMSA CODE
Do not enter both state and CMSA code.

PLEASE DO NOT ENTER BOTH STATE AND CMSA-REP CODE
Do not enter both state and CMSA-rep code.

PLEASE DO NOT ENTER BOTH STATE AND MSA CODE
Do not enter both state and MSA code.

PLEASE DO NOT ENTER BOTH STATE AND MSA-REP CODE
Do not enter both state and MSA-rep code.

PLEASE DO NOT ENTER BOTH STATE AND STATUS-AREA CODE
Do not enter both state and status area code.

PLEASE ENTER A NUMERIC BEGIN-QUARTER
The begin quarter must be numeric.

PLEASE ENTER A NUMERIC BEGIN-YEAR
The begin year must be numeric.

PLEASE ENTER A NUMERIC END-QUARTER
The end quarter must be numeric.

PLEASE ENTER A NUMERIC END-YEAR
The end year must be numeric.

PLEASE ENTER A VALID 1-DIGIT BEGIN-QUARTER
If begin year equals the current year, begin quarter cannot exceed the current quarter.

PLEASE ENTER A VALID 1-DIGIT END-QUARTER
If end year equals the current year, end quarter cannot exceed the current quarter.

PLEASE ENTER A VALID CMSA CODE
The CMSA code entered must be in the AIRS GEO-COMMON File.

PLEASE ENTER A VALID CMSA-REP CODE
The CMSA-rep code entered must be in the AIRS GEO-COMMON File.

PLEASE ENTER A VALID MSA CODE
The MSA code entered must be in the AIRS GEO-COMMON File.

PLEASE ENTER A VALID MSA-REP CODE
The MSA-rep code entered must be in the AIRS GEO-COMMON File.

PLEASE ENTER A VALID PARAMETER CODE
The parameter code is not valid.

PLEASE ENTER A VALID REPORT-ORG
The combination of reporting organization and state is not valid.

PLEASE ENTER A VALID STATE CODE
The state code is not valid.

PLEASE ENTER A VALID STATUS-AREA CODE FOR PARAMETER
The combination of status area and parameter entered must be in the AIRS GEO-COMMON File.

PLEASE ENTER AN END-YEAR THAT IS GREATER THAN OR EQUAL TO THE BEGIN-YEAR
The end year must be greater than or equal to the begin year.

PLEASE ENTER ONE: STATE, PARAMETER, AQCR, URBAN-AREA, MSA, CMSA, MSA-REP, CMSA-REP, OR STATUS AREA
One of the geographic criteria or parameter must be used in each line of select criteria.

PLEASE ENTER ONLY ONE: AQCR, URBAN-AREA, CITY, REPORT-ORG, COUNTY, MSA, CMSA, MSA-REP, CMSA-REP, OR STATUS-AREA
Only the combinations of geographic selection criteria listed at the beginning of this section are valid.

PLEASE FILL ALL LINES BEFORE GOING ON TO THE NEXT SCREEN
PF8 is valid only when the current screen is full or when there are more criteria on a subsequent screen.

PLEASE USE A VALID PF-KEY
A PF key not defined for this screen was used.

REPORT BEGINNING QUARTER IS REQUIRED FOR THIS REPORT
Begin quarter must be entered.

REPORT BEGINNING YEAR IS REQUIRED FOR THIS REPORT
Begin year must be entered.

REPORT ENDING QUARTER IS REQUIRED FOR THIS REPORT
End quarter must be entered.

REPORT ENDING YEAR IS REQUIRED FOR THIS REPORT
End year must be entered.

STATUS-AREA CODE NOT ALLOWED WITH THIS PARAMETER
A status area was entered for a parameter that does not allow entry of a status area.

5.3.4 Data Sorting Options

The Precision/Accuracy Reporting Organization Summary Report has a fixed sort order that cannot be changed. Therefore, there is no sort criteria screen for this report. The sort order is:

region
state
reporting organization
type of data (continuous, intermittent)
parameter
year
audit classification
quarter (requested-flag-1, requested-flag-2, requested-flag-3, or requested-flag-4)

Instructions

None

5.4 Precision/Accuracy Monitor Summary Report (AMP245)

5.4.1 Description

The Precision/Accuracy Monitor Summary Report Program presents quarterly and yearly information about the collective precision and accuracy of all monitors. The report may be produced as a stand-alone report or in conjunction with the following AQ Reports:

AMP350 - Raw Data Listing
AMP355 - Standards
AMP450 - Quick Look

The Precision/Accuracy Monitor Summary Report optionally produces a printed report and a work file. However, if the report is selected to run in conjunction with one of the qualifying AQ Reports, only the printed report is produced.

Data is extracted from the Precision/Accuracy Monitor Summary File based on the user-specified select criteria. The report has two formats, one for continuous type data and one for intermittent type data. Each of the formats includes the following information:

Continuous

Precision -	Precision checks
	Lower and upper probability limits
Accuracy -	Audit class
	Source of audit gas
	Traceability
	Number of audits at levels 1-3, level 4, and level 5
	Lower and upper probability limits for five levels

Intermittent

Precision -	Number of samplers
	Lower and upper probability limits
	Number of collocated samples below limits
	Number of valid collocated sample pairs
Accuracy -	Audit class
	Source of audit gas
	Traceability
	Number of audits at levels 1-3, level 4, and level 5
	Lower and upper probability limits for five levels

The precision and accuracy data is displayed in separate columns on each of the formats. For a given monitor, the yearly data is displayed first, then each of the quarters that falls within the time period is displayed below. If the selection criteria specify a begin and end date which includes partial years, only the quarters within range are displayed. A sample of the report is shown in Figure 5-9.

DATE 09/17/93 — EPA AEROMETRIC INFORMATION RETRIEVAL SYSTEM (AIRS) — PAGE 1
AMP245
AIR QUALITY SUBSYSTEM
PRECISION/ACCURACY MONITOR SUMMARY REPORT (CONTINUOUS DATA)

STATE (25): MASSACHUSETTS
REPORT ORG (001): MASS DEPT ENVIRONMENTAL PROTECTION-DIV AIR QUALITY CONTROL

MONITOR-ID		PRECISION DATA						ACCURACY DATA											
							# AUDITS			PROBABILITY LIMITS									
ST CTY SITE PARM POC MT INT	YR-Q	PREC CHKS	PROB LIM LO	UP	AUD CLS	LOC STD SRC	TYP AUD	1-3	LEVEL 4	5	LEVEL 1 LO	UP	LEVEL 2 LO	UP	LEVEL 3 LO	UP	LEVEL 4 LO	UP	LEVEL 5 LO	UP
25 005 1004 42401 1 1 1	90	25	-04	+05	A	A	1	2	0	0	-09	+12	-03	+07	-04	+07				
METHODS: 009	90-1	7	-02	+05				0	0	0										
	90-2	6	-03	+02		A	1	1	0	0	-03	*	+00	*	-01	*				
	90-3	6	-05	+05				0	0	0										
	90-4	6	-05	+06		A	1	1	0	0	+05	*	+03	*	+03	*				
25 009 0005 42401 1 1 1	90	25	-12	+08	A	A	1	2	0	0	-01	-01	-11	+08	-12	+07				
METHODS: 009	90-1	7	-06	+01		A	1	1	0	0	-01	*	-05	*	-06	*				
	90-2	7	-15	+04				0	0	0										
	90-3	7	-06	+05		A	1	1	0	0	-01	*	+02	*	+01	*				
	90-4	4	-17	+20				0	0	0										
25 013 0016 42101 1 1 1	90	24	-10	+03	A	A	1	2	0	0	+00	+04	+01	+04	-00	+06				
METHODS: 051	90-1	6	-07	-01				0	0	0										
	90-2	6	-14	+11		A	1	1	0	0	+02	*	+03	*	+04	*				
	90-3	6	-06	-03				0	0	0										
	90-4	6	-08	+00		A	1	1	0	0	+01	*	+02	*	+02	*				
25 013 0016 42401 1 1 1	90	25	-12	+03	A	A	1	2	0	0	-08	+06	-06	+06	-08	+06				
METHODS: 009	90-1	7	-15	+05				0	0	0				*						
	90-2	6	-14	+03				0	0	0										
	90-3	6	-11	+04		A	1	1	0	0	-04	*	-02	*	-04	*				
	90-4	6	-07	+01		A	1	1	0	0	+01	*	+02	*	+02	*				
25 013 1009 42401 1 1 1	90	23	-14	+06	A	A	1	3	0	0	-15	+03	-15	+03	-13	+02				
METHODS: 009 060	90-1	7	-12	+13		A	1	1	0	0	-03	*	-03	*	-02	*				
	90-2	5	-09	+01		A	1	1	0	0	-04	*	-05	*	-06	*				
	90-3	6	-10	-04		A	1	1	0	0	-12	*	-12	*	-10	*				
	90-4	5	-16	+05				0	0	0										
25 013 2007 42101 1 1 1	90	25	-06	+08	A	A	1	2	0	0	-02	+12	-01	+05	-03	+02				
METHODS: 041	90-1	7	-06	+06		A	1	1	0	0	+02	*	+01	*	-01	*				
	90-2	6	-02	+05				0	0	0										
	90-3	7	-08	+09				0	0	0										
	90-4	5	-05	+12		A	1	1	0	0	+07	*	+03	*	+00	*				
25 015 4002 42401 1 2 1	90	21	-09	+06	A	A	1	2	0	0	+00	+00	-02	+04	-00	+03				
METHODS: 060 009	90-1	6	-06	+03		A	1	1	0	0	+00	*	+00	*	+01	*				
	90-2	7	-08	+08		A	1	1	0	0	+00	*	+02	*	+02	*				
	90-3	5	-07	+06				0	0	0										
	90-4	3	-11	-02				0	0	0										

* INDICATES PROBABILITY LIMITS ARE UNABLE TO BE CALCULATED WHEN ONE AUDIT IS AVAILABLE FOR THE LEVEL. LOWER PROBABILITY LIMIT VALUE SHOWN REPRESENTS A PERCENT DIFFERENCE CALCULATED FROM RAWDATA VALUES.

Figure 5-9. Precision/Accuracy Monitor Summary Report (Continuous Data) (1 of 2)

DATE 09/17/93 EPA AEROMETRIC INFORMATION RETRIEVAL SYSTEM (AIRS) PAGE 1
AMP245 AIR QUALITY SUBSYSTEM
PRECISION/ACCURACY MONITOR SUMMARY REPORT (INTERMITTENT DATA)
STATE (25): MASSACHUSETTS
REPORT ORG (001): MASS DEPT ENVIRONMENTAL PROTECTION-DIV AIR QUALITY CONTROL

MONITOR-ID		PRECISION DATA					ACCURACY DATA													
					COLL	VAL		LOC		# AUDITS			PROBABILITY LIMITS							
ST CTY SITE PARM POC MT INT YR-Q	# OF SAMPLS	PROB LO	PROB UP	LIM SAMP	DATA	AUD CLS	STD SRC	TYP AUD	--- LEVEL 1-3	LEVEL 4	LEVEL 5	LEVEL 1 LO	LEVEL 1 UP	LEVEL 2 LO	LEVEL 2 UP	LEVEL 3 LO	LEVEL 3 UP	LEVEL 4 LO	LEVEL 4 UP	LEVEL 5 UP
25 005 2004 81102 1 3 7 90	0			0	0	F	P	1	1	0	0		+07	*						
METHODS: 062 90-2	0			0	0				0	0	0									
90-3	0			0	0		P	1	1	0	0		+07	*						
90-4	0			0	0				0	0	0									
25 005 3001 81102 1 2 7 90	0			0	0	F	P	1	2	0	0		+02	+08						
METHODS: 063 90-1	0			0	0		P	1	1	0	0		+06	*						
90-2	0			0	0				0	0	0									
90-3	0			0	0		P	1	1	0	0		+04	*						
90-4	0			0	0				0	0	0									
25 009 0005 81102 1 3 7 90	0			0	0	F	P	1	1	0	0		+04	*						
METHODS: 062 90-2	0			0	0				0	0	0									
90-3	0			0	0		P	1	1	0	0		+04	*						
90-4	0			0	0				0	0	0									
25 013 0011 81102 2 2 7 90	0			0	0	F	P	1	6	0	0		-13	+07						
METHODS: 064 90-1	0			0	0		P	1	1	0	0		-07	*						
90-2	0			0	0		P	1	3	0	0		-07	-05						
90-3	0			0	0		P	1	1	0	0		-00	*						
90-4	0			0	0		P	1	1	0	0		+06	*						
25 013 2007 81102 1 1 7 90	48	-06	+06	20	28				0	0	0									
METHODS: 063 90-1	11	-05	+04	2	9				0	0	0									
90-2	13	-01	+06	8	5				0	0	0									
90-3	11	-05	+05	3	8				0	0	0									
90-4	13	-11	+07	7	6				0	0	0									
25 013 2007 81102 1 1 7 90	48	-06	+06	20	28	F	P	1	7	0	0		+00	+06						
METHODS: 063 90-1	11	-05	+04	2	9		P	1	3	0	0		-01	+04						
90-2	13	-01	+06	8	5				0	0	0									
90-3	11	-05	+05	3	8		P	1	2	0	0		+01	+06						
90-4	13	-11	+07	7	6		P	1	2	0	0		+04	+05						
25 013 5003 81102 1 2 7 90	0			0	0	F	P	1	2	0	0		-01	+05						
METHODS: 062 90-1	0			0	0		P	1	1	0	0		+03	*						
90-2	0			0	0				0	0	0									
90-3	0			0	0				0	0	0									
90-4	0			0	0		P	1	1	0	0		+01	*						

* INDICATES PROBABILITY LIMITS ARE UNABLE TO BE CALCULATED WHEN ONE AUDIT IS AVAILABLE FOR THE LEVEL. LOWER PROBABILITY LIMIT VALUE SHOWN REPRESENTS A PERCENT DIFFERENCE CALCULATED FROM RAWDATA VALUES.

Figure 5-9. Precision/Accuracy Monitor Summary Report (Intermittent Data) (2 of 2)

5.4.2 Report Generation Options

The options available for the Precision/Accuracy Monitor Summary Report have to do with the output medium (printed report or work file). The report options screen, shown in Figure 5-10, allows you to select the type(s) of output you want.

The default option is to generate only a printed report. If you are using report criteria for the Precision/Accuracy Monitor Summary Report that you saved previously, your saved specifications for report options are displayed instead of the default.

The work file format for this report is given in Volume AQ1.

```
mm/dd/yy                AIRS Air Quality Subsystem                AMP245A
                           Report Options

Report Name:  P/A MONITOR SUMMARY                Criteria Name  :  <-name->

                        Enter X for desired Option(s)

                  Choose at least one output


                  x 1.  Generate a printed report
                  _ 2.  Generate a workfile (Enter name below):
                        iiiaaaa . _______ . _______ . _______ . _______


      PF3=end       PF4=main menu       PF5=terminate       PF9=save criteria
```

Figure 5-10. Report Options Screen for the P/A Monitor Summary Report

Instructions

You must choose one or more of the following report options:

option 1 generate a printed report
option 2 generate a work file

If you choose a work file, you must specify a dataset name for it; otherwise, you may not specify a dataset name.

Read Section 3.6.1 if you are not familiar with how to use the report options screen. Section 3.6.2 describes the characteristics of valid dataset names.

Error Messages

The error messages listed below (in alphabetical order) are displayed at the top of the report options screen if you make a mistake in specifying report options.

DATASET NAME IS INVALID
The work file dataset name is not valid. Refer to Section 3.6.2 of this volume for a description of dataset naming conventions.

DATASET NAME NOT ALLOWED WITHOUT SPECIFYING OPTION 2
If a work file is not selected as an output, a dataset name must not be entered.

PLEASE CHOOSE OPTION 1 OR 2 FOR OUTPUT
Either a printed report (option 1) or a work file (option 2) must be selected as a report output.

PLEASE ENTER A VALID DATASET NAME
If a work file is selected, a dataset name must be specified.

PLEASE ENTER BLANK OR 'X'
Only blank and X are valid entries for selecting report options.

PLEASE USE A VALID PF-KEY
A PF key not defined for this screen was used.

5.4.3 Data Selection Options

You may select which monitors are included in the report using the select criteria screen. A sample screen is shown in Figure 5-11. The leftmost portion of the screen is shown at the top of the figure and the rightmost portion is shown at the bottom.

There are three groups of selection criteria. The first group consists of "geographic" criteria. Only certain combinations of these fields are allowed. You may use any one of the following combinations of geographic selection fields:

state (code or abbreviation)
state + county
state + county + site
state + reporting organization
state + city
state + AQCR
AQCR
urban area
MSA
CMSA
MSA-rep
CMSA-rep
status area

The second group of selection criteria consists of the following optional fields:

parameter
method
interval
monitor type

The third group of selection criteria consists of the following required fields:

begin date (year and quarter)
end date (year and quarter)

In a given line on the select criteria screen, you must specify all the fields in the third group of selection criteria and either parameter or one of the geographic criteria in the first group. You may use any of the criteria in the second group in addition to other criteria. If you specify method, you must also specify parameter.

Specify dates as year and quarter (YYQ format). Valid dates are the first quarter of 1980 (801) through any valid quarter.

In addition to the monitor type codes listed in Volume GC2 of the AIRS User's Guide, you may use the code "B" to select both NAMS and SLAMS monitors and code "P" to select PAMS monitors.

```
09/30/92                    AIRS Air Quality Subsystem                    AMP245B
                                 Select Criteria                          Page 1/2

Report Name:  P/A MONITOR SUMMARY                          Criteria Name:

                    PARA-                  BEGIN     END     MON                  REP  URBAN
  ST  CNTY  SITE    METER    METH  INT     YEAR Q    YEAR Q  TYPE  CITY    AQCR   ORG  AREA
  --  ---  ------  ------   ----   -      ---- -    ---- -  ----  ------  ----  ----  ----
  --  ---  ------  ------   ----   -      ---- -    ---- -  ----  ------  ----  ----  ----
  --  ---  ------  ------   ----   -      ---- -    ---- -  ----  ------  ----  ----  ----
  --  ---  ------  ------   ----   -      ---- -    ---- -  ----  ------  ----  ----  ----
  --  ---  ------  ------   ----   -      ---- -    ---- -  ----  ------  ----  ----  ----
  --  ---  ------  ------   ----   -      ---- -    ---- -  ----  ------  ----  ----  ----
  --  ---  ------  ------   ----   -      ---- -    ---- -  ----  ------  ----  ----  ----
  --  ---  ------  ------   ----   -      ---- -    ---- -  ----  ------  ----  ----  ----
  --  ---  ------  ------   ----   -      ---- -    ---- -  ----  ------  ----  ----  ----
  --  ---  ------  ------   ----   -      ---- -    ---- -  ----  ------  ----  ----  ----

PF1=help   PF2=duplicate   PF3=end  PF4=main menu   PF5=terminate   PF6=rpt options
PF7=back   PF8=more        PF9=save criteria       PF10=left       PF11=right
```

```
09/30/92                    AIRS Air Quality Subsystem                    AMP245B
                                 Select Criteria                          Page 2/2

Report Name:  P/A MONITOR SUMMARY                          Criteria Name:

                    MSA    CMSA   STATUS
  MSA   CMSA        REP    REP    AREA
  ----  ----        ----   ----   ------
  ----  ----        ----   ----   ------
  ----  ----        ----   ----   ------
  ----  ----        ----   ----   ------
  ----  ----        ----   ----   ------
  ----  ----        ----   ----   ------
  ----  ----        ----   ----   ------
  ----  ----        ----   ----   ------
  ----  ----        ----   ----   ------
  ----  ----        ----   ----   ------
  ----  ----        ----   ----   ------

PF1=help   PF2=duplicate   PF3=end  PF4=main menu   PF5=terminate   PF6=rpt options
PF7=back   PF8=more        PF9=save criteria       PF10=left       PF11=right
```

Figure 5-11. Select Criteria Screen for the P/A Monitor Summary Report

Online Help is available for all of the selection criteria fields except BEGIN-DATE and END-DATE. The Help facility allows you to browse through tables of values, with descriptions, for the codes you need to enter, and then to select the value that you wish to use. The Help facility is described in detail in Section 3.6.4.

Instructions

Enter selection criteria into the available fields on the select criteria screen, or alter the previously saved criteria displayed on the screen if you wish. You must specify criteria in at least one line on the screen. Press the ENTER key when you have finished entering or altering the criteria.

Read Section 3.6.3 if you are not familiar with how to use the select criteria screen. Refer to Volume GC2 of the AIRS User's Guide for lists of valid codes to use for selection criteria.

Press PF1=help for general information about the select criteria process. For Field-specific Help, enter a "?" in the first position of any field (except BEGIN-DATE or END-DATE).

Error Messages

The error messages listed below (in alphabetical order) are displayed at the top of the select criteria screen if you make a mistake in specifying selection criteria. See Volume GC4 of the AIRS User's Guide for explanations of the error messages that you may encounter while using Field-specific Help.

A PARAMETER IS REQUIRED FOR STATUS-AREA CODE
If status area is entered, parameter must be entered.

A STATE IS REQUIRED FOR CITY
City is entered by the user without a state code.

A STATE IS REQUIRED FOR COUNTY
No state code is entered by the user with a value for county.

A STATE IS REQUIRED FOR REPORT-ORG
A STATE code is not entered by the user for REPORT-ORG.

BEGIN-QUARTER IS < 1 OR > 4
BEGIN-QUARTER is less than 1 or greater than 4.

BEGIN-YEAR IS < 80 OR > CURRENT YEAR
BEGIN-YEAR is less than 80 or greater than current year.

END-QUARTER IS < 1 OR > 4
END-QUARTER is less than 1 or greater than 4.

END-QUARTER MUST BE GREATER THAN OR EQUAL TO THE BEGIN-QUARTER
If BEGIN-YEAR and END-YEAR are equal, the END-QUARTER cannot be less than BEGIN-QUARTER.

PF2 INVALID - MAXIMUM NUMBER OF SELECTION CRITERIA HAS BEEN SPECIFIED
Do not press PF2 when the last select criteria screen is full.

PF2 INVALID - THERE ARE NO SELECTION CRITERIA TO DUPLICATE
Do not press PF2 without entering at least one selection criterion.

PF7 INVALID - THIS IS THE FIRST SELECT CRITERIA SCREEN
Do not press PF7 from the first select criteria screen; it is used to page backward.

PF8 INVALID - THIS IS THE FINAL SELECT CRITERIA SCREEN
Do not press PF8 from the last select criteria screen; it is used to page forward.

PF10 INVALID - THIS IS THE LEFT-MOST SELECT CRITERIA SCREEN
Do not press PF10 while the leftmost select criteria screen is displayed.

PF11 INVALID - THIS IS THE RIGHT-MOST SELECT CRITERIA SCREEN
Do not press PF11 while the rightmost select criteria screen is displayed.

PLEASE DO NOT ENTER BOTH STATE AND CMSA CODE
Do not enter both state and CMSA code.

PLEASE DO NOT ENTER BOTH STATE AND CMSA-REP CODE
Do not enter both state and CMSA-rep code.

PLEASE DO NOT ENTER BOTH STATE AND MSA CODE
Do not enter both state and MSA code.

PLEASE DO NOT ENTER BOTH STATE AND MSA-REP CODE
Do not enter both state and MSA-rep code.

PLEASE DO NOT ENTER BOTH STATE AND STATUS-AREA CODE
Do not enter both state and status area code.

PLEASE DO NOT ENTER BOTH STATE AND URBAN-AREA CODE
A state code and urban area code are entered by the user.

PLEASE ENTER A NUMERIC BEGIN-QUARTER
The begin quarter entered by the user is non-numeric.

PLEASE ENTER A NUMERIC BEGIN-YEAR
The begin year entered by the user is non-numeric.

PLEASE ENTER A NUMERIC END-QUARTER
The end quarter entered by the user is non-numeric.

PLEASE ENTER A NUMERIC END-YEAR
The end year entered by the user is non-numeric.

PLEASE ENTER A VALID AQCR CODE
The AQCR code entered by the user is not listed in the AIRS GEO-COMMON File.

PLEASE ENTER A VALID CITY CODE
The CITY code entered by the user is not listed in the AIRS GEO-COMMON File for the requested state.

PLEASE ENTER A VALID CMSA CODE
The CMSA code entered must be in the AIRS GEO-COMMON File.

PLEASE ENTER A VALID CMSA-REP CODE
The CMSA-rep code entered must be in the AIRS GEO-COMMON File.

PLEASE ENTER A VALID COUNTY CODE
The county code entered by the user is not listed in the AIRS GEO-COMMON File for the requested state.

PLEASE ENTER A VALID INTERVAL CODE (1, 7, C, X, Y OR Z)
The interval code entered by the user is not 1, 7, C, X, Y, or Z.

PLEASE ENTER A VALID METHOD CODE
The method code entered by the user is invalid for the requested parameter.

PLEASE ENTER A VALID MONITOR-TYPE CODE
The monitor type entered by the user is not equal to "B" or "P" or listed in the AIRS GEO-COMMON Description record.

PLEASE ENTER A VALID MSA CODE
The MSA code entered must be in the AIRS GEO-COMMON File.

PLEASE ENTER A VALID MSA-REP CODE
The MSA-rep code entered must be in the AIRS GEO-COMMON File.

PLEASE ENTER A VALID PARAMETER CODE
The parameter code entered by the user is not listed in the AIRS GEO-COMMON File.

PLEASE ENTER A VALID REPORT-ORG
The reporting organization code entered by the user is not listed in the AIRS GEO-COMMON File for the requested state.

PLEASE ENTER A VALID SITE CODE
The site-ID (comprised of state, county, and site) is not in the AM-SITE File.

PLEASE ENTER A VALID STATE ABBREVIATION
The state abbreviation is not valid.

PLEASE ENTER A VALID STATE CODE
The state code entered by the user is not listed in the AIRS GEO-COMMON File.

PLEASE ENTER A VALID STATUS-AREA CODE FOR PARAMETER
The combination of status area and parameter entered must be in the AIRS GEO-COMMON File.

PLEASE ENTER A VALID URBAN-AREA CODE
The urban area code entered by the user is not listed in the AIRS GEO-COMMON File.

PLEASE ENTER AN END-YEAR THAT IS GREATER THAN OR EQUAL TO THE BEGIN-YEAR
The end year is less than the begin year.

PLEASE ENTER ONLY ONE: AQCR, URBAN-AREA, CITY, REPORT-ORG, COUNTY, MSA, CMSA, MSA-REP, CMSA-REP, OR STATUS-AREA
Only the combinations of geographic selection criteria listed at the beginning of this section are valid.

REPORT BEGINNING QUARTER IS REQUIRED FOR THIS REPORT
No begin quarter is entered by the user.

REPORT BEGINNING YEAR IS REQUIRED FOR THIS REPORT
No begin year is entered by the user.

REPORT ENDING QUARTER IS REQUIRED FOR THIS REPORT
No end quarter is entered by the user.

REPORT ENDING YEAR IS REQUIRED FOR THIS REPORT
No end year is entered by the user.

STATUS-AREA CODE NOT ALLOWED WITH THIS PARAMETER
A status area was entered for a parameter that does not allow entry of a status area.

THE COUNTY CODE IS REQUIRED WITH THE SITE CODE
A value is entered for the site field but not for the county field.

5.4.4 Data Sorting Options

The sort sequence you specify determines the order of the Precision/Accuracy Monitor Summary Report and work file. The sort criteria screen, shown in Figure 5-12, allows you to establish the sort sequence. The default sort sequence is by state, reporting organization, county, site, parameter, POC, monitor type, interval and date.

You may alter or delete the existing sort sequence and enter new sort criteria, using any of the numbered fields shown on the screen. Sort fields listed with their respective numbers, 1 through 6, 8, and 11 through 14, are allowed for this report (see below).

If you use report criteria that were saved previously for a different report, the sort criteria program may alter the saved sort specifications to conform with the requirements for this report. Otherwise, the saved sort sequence is not altered.

The type-data, requested-flag-1, requested-flag-2, requested-flag-3, requested-flag-4 and audit class fields are added to your sort sequence automatically. This is done to ensure that the sorting process will eliminate any duplicate records from the report. The fields are inserted at the end of the sequence you specified.

```
mm/dd/yy                    AIRS Air Quality Subsystem                    AMP245C
                                 Sort Criteria

Report Name:  P/A MONITOR SUMMARY                    Criteria Name :  <-name->

      1.  State                6.  Reporting Org       11.  Method
      2.  County                   Urban Area          12.  Interval
      3.  Site                 8.  EPA Region          13.  Monitor Type
      4.  Parameter                City                14.  Date
      5.  POC                      AQCR

Enter the numbers of the Sort Elements above in the desired Sort Sequence:

           _1 _6 _2 _3 _4 _5 _13 _12 _14

PF3=end  PF4=main menu  PF5=terminate  PF6=select criteria  PF9=save criteria
```

Figure 5-12. Sort Criteria Screen for the P/A Monitor Summary Report

Instructions

Read Section 3.6.4 of this manual if you are not familiar with how to use the sort criteria screen.

Error Messages

The error messages listed below (in alphabetical order) are displayed at the top of the sort criteria screen if you make a mistake in specifying sort criteria.

COUNTY CODE REQUIRED BEFORE SITE
A value is entered for the SITE code, but not for the COUNTY, or the COUNTY code is entered after the SITE code.

ERROR - REPEATED SORT CRITERIA
A sort criterion number is repeated.

PARAMETER CODE REQUIRED BEFORE METHOD
A value is entered for the METHOD code, but not for the PARAMETER code, or the PARAMETER code is entered after the METHOD code.

PARAMETER CODE REQUIRED BEFORE POC
A value is entered for the POC code, but not for the PARAMETER code, or the PARAMETER code is entered after the POC code.

PLEASE ENTER A NUMBER SELECTION FROM THE SORT SCREEN
A number selection other than 1, 2, 3, 4, 5, 6, 8, 11, 12, 13, or 14 was entered.

REGION CAN ONLY BE THE FIRST SORT CRITERION
REGION is entered in a position other than the first position.

STATE CODE REQUIRED BEFORE COUNTY
A value is entered for the COUNTY code, but not for the STATE code, or the STATE code is entered after the COUNTY code.

STATE CODE REQUIRED BEFORE REPORT-ORG
A value is entered for the REPORT-ORG code, but not for the STATE code, or the STATE code is entered after the REPORT-ORG code.

5.5 Precision/Accuracy Monitor Raw Data Report (AMP250)

5.5.1 Description

The Precision/Accuracy Monitor Raw Data Report displays raw data values for pollutants extracted from the air quality Precision/Accuracy Raw Data File. You may specify whether precision or accuracy data is to be retrieved instead of accepting the default, which is to retrieve both precision and accuracy data.

At the top of each report page, a brief description of the AIRS site and monitoring station is listed.

Figure 5-13 shows a sample Precision/Accuracy Monitor Raw Data Report.

```
DATE:  09/17/93                    EPA AEROMETRIC INFORMATION RETRIEVAL SYSTEM (AIRS)                    PAGE     1
AMP250                                        AIR QUALITY SUBSYSTEM
                                   PRECISION/ACCURACY RAW DATA REPORT

                                          STATE (25): MASSACHUSETTS

SITE-ID: 25-001-0002                              AQCR (120): METROPOLITAN PROVIDENCE          LATITUDE:  41:58:37 N
COUNTY (001): BARNSTABLE CO                       URBAN-AREA (0000):NOT IN AN URBAN AREA       LONGITUDE: 70:00:59 W
CITY (70570): TRURO                               LAND USE (1): RESIDENTIAL                    UTM ZONE: 19
SITE ADDRESS: FOX BOTTOM AREA-CAPE COD NAT'L SEASHOR  LOCATION SETTING (3): RURAL              UTM-NORTHING: 4647500
SUPPORT AGENCY (001): MASS DEPT ENVIRONMENTAL PROTECTION-DIV AIR QUALITY CONTROL               UTM-EASTING:   415800
SITE COMMENTS: 22-2275-001-F01-FOX BOTTOM AREA OF NATIONAL SEASHORE                            ELEVATION-MSL:    40 M
-------------------------------------------------------------------------------------------------------------------
POLLUTANT NAME       NON-TYPE   REPT-ORG   DATA-TYPE    COLLECTION AND ANALYSIS METHOD          INTERVAL      UNITS
     AUDIT CLASS                            TYPE AUDIT                    SOURCE OF STANDARD
POLL/METH/INT/UNTS/POC
            ----- LEVEL 1 -----  ----- LEVEL 2 -----  ----- LEVEL 3 -----  ----- LEVEL 4 -----  ----- LEVEL 5 -----  ZERO
YR MTH DAY   ACTUAL   INDICATED  ACTUAL   INDICATED  ACTUAL   INDICATED  ACTUAL   INDICATED  ACTUAL   INDICATED  SPAN
-------------------------------------------------------------------------------------------------------------------

OZONE                3        001      ACCURACY     INSTRUMENTAL ULTRA VIOLET          1 HOUR          PPM
     ANALYTICAL                                     AUDIT DONE BY RO, CERT BY RO  PHOTOMETER (VERIFIED)

44201-047-1-007-1

90  10  25      .080       .083      .191       .211      .401       .428

OZONE                3        001      PRECISION    INSTRUMENTAL ULTRA VIOLET          1 HOUR          PPM

44201-047-1-007-1

90  04  11      .086       .087
        24      .086       .091
    05  08      .086       .087
        22      .086       .086
    06  08      .086       .086
        26      .084       .084
    07  09      .084       .084
        23      .084       .084
    08  13      .084       .083
        27      .084       .083
    09  10      .084       .084
        25      .090       .089
    10  01      .084       .083
        24      .084       .077
```

Figure 5-13. Precision/Accuracy Monitor Raw Data Report

5.5.2 Report Generation Options

The options available for the Precision/Accuracy Monitor Raw Data Report have to do with the output medium (printed report, work file, or input transactions file). The report options screen, shown in Figure 5-14, allows you to select the type(s) of output and content you want.

The default option is to generate a printed report only and to include precision and accuracy data. If you are using report criteria for the Precision/Accuracy Monitor Raw Data Report that you saved previously, your saved specifications for report options are displayed instead of the default.

The work file format for this report is given in Volume AQ1.

```
mm/dd/yy                AIRS Air Quality Subsystem                AMP250A
                            Report Options

Report Name:  P/A MONITOR RAW DATA                Criteria Name :  <-name->

                        Enter X for desired Option(s)

              Choose at least one output

              x 1.  Generate a printed report
              _ 2.  Generate a workfile (Enter name below):
                    iiiaaaa . _______ . _______ . _______ . _______
              _ 3.  Generate AIRS input transactions 8 and 9
                    (Enter name & action code)
                    Name: iiiaaaa . _______ . _______ . _______.________
                    Action code (D,I,M): _
              _ 4.  Generate Precision or Accuracy data
                    (Enter transaction code 8 for Precision or 9 for Accuracy)
                    Transaction code (8,9): _


   PF3=end      PF4=main menu      PF5=terminate      PF9=save criteria
```

Figure 5-14. Report Options Screen for the P/A Monitor Raw Data Report

Instructions

You must choose one of the following report options, and you may choose all:

option 1	generate a printed report
option 2	generate a work file
option 3	generate input transactions

You may choose the following data retrieval option:

option 4	generate precision or accuracy data

You do not have to choose option 4. If it is not selected, both precision and accuracy data will be retrieved.

If you choose a work file, you must specify a dataset name for it; otherwise you may not specify a dataset name.

Read Section 3.6.1 if you are not familiar with how to use the report options screen. Section 3.6.2 describes the characteristics of valid dataset names.

Error Messages

The error messages listed below (in alphabetical order) are displayed at the top of the report options screen if you make a mistake in specifying report options.

ACTION CODE IS INVALID
Valid codes are D (delete), I (insert), and M (modify).

ACTION CODE IS REQUIRED
Action code must be provided if an input transaction file was selected as an output.

ACTION CODE NOT ALLOWED WITHOUT SPECIFYING OPTION 3
If an input transaction file was not selected as an output, an action code must not be entered.

DATASET NAME IS INVALID
The work file dataset name is not valid. Refer to Section 3.6.2 of this volume for a description of dataset naming conventions.

DATASET NAME NOT ALLOWED WITHOUT SPECIFYING OPTION 2
If a work file is not selected as an output, a dataset name must not be entered.

DATASET NAME NOT ALLOWED WITHOUT SPECIFYING OPTION 3
If an input transaction file is not selected as an output, a dataset name must not be entered.

PLEASE CHOOSE OPTION 1, 2 OR 3 FOR OUTPUT

Either a printed report (option 1), a work file (option 2), or input transactions (option 3) must be selected as a report output.

PLEASE ENTER A VALID DATASET NAME

If a work file is selected, a dataset name must be specified.

PLEASE ENTER BLANK OR 'X'

Only blank and X are valid entries for specifying report options.

PLEASE USE A VALID PF-KEY

A PF key not defined for this screen was used.

TRANSACTION CODE IS INVALID

Valid codes are 8 (precision) and 9 (accuracy).

TRANSACTION CODE IS REQUIRED

Transaction code must be provided if option 4, generate precision or accuracy data, was selected.

TRANSACTION CODE NOT ALLOWED WITHOUT SPECIFYING OPTION 4

If option 4, generate precision or accuracy data, was not selected, a transaction code must not be entered.

5.5.3 Data Selection Options

You may select which monitors and data values are included in the report using the select criteria screen. A sample screen is shown in Figure 5-15. The leftmost portion of the screen is shown at the top of the figure and the rightmost portion is shown at the bottom.

There are three groups of selection criteria. The first group consists of "geographic" criteria. Only certain combinations of these fields are allowed. You may use any one of the following combinations of geographic selection fields:

state (code or abbreviation)
state + county
state + county + site
state + reporting organization
state + city
state + AQCR
AQCR
urban area
MSA
CMSA
MSA-rep
CMSA-rep
status area

The second group of selection criteria consists of the following optional fields:

parameter
method
monitor type

The third group of selection criteria consists of the following required fields:

begin date (year and month)
end date (year and month)

In a given line on the select criteria screen, you must specify all the fields in the third group of selection criteria and either parameter or one of the geographic criteria in the first group. You may use any of the criteria in the second group in addition to other criteria.

Specify dates as year and month (YYMM format). Valid dates are January 1980 (8001) through any valid year and month.

In addition to the monitor type codes listed in Volume GC2 of the AIRS User's Guide, you may use the code "B" to select both NAMS and SLAMS monitors and code "P" to select PAMS monitors.

```
09/30/92                    AIRS Air Quality Subsystem                    AMP250B
                                 Select Criteria                          Page 1/2

Report Name:  P/A MONITOR RAW DATA                          Criteria Name:

                                                BEGIN   END
                                                DATE    DATE   MON                  REP  URBAN
  ST  CNTY  SITE  PARA-METER  METH  INT         YYMM    YYMM   TYPE  CITY    AQCR   ORG  AREA
  __  ___   ____  _________   ____  _           ____    ____   ____  ______  ____   ___  ____
  __  ___   ____  _________   ____  _           ____    ____   ____  ______  ____   ___  ____
  __  ___   ____  _________   ____  _           ____    ____   ____  ______  ____   ___  ____
  __  ___   ____  _________   ____  _           ____    ____   ____  ______  ____   ___  ____
  __  ___   ____  _________   ____  _           ____    ____   ____  ______  ____   ___  ____
  __  ___   ____  _________   ____  _           ____    ____   ____  ______  ____   ___  ____
  __  ___   ____  _________   ____  _           ____    ____   ____  ______  ____   ___  ____
  __  ___   ____  _________   ____  _           ____    ____   ____  ______  ____   ___  ____
  __  ___   ____  _________   ____  _           ____    ____   ____  ______  ____   ___  ____
  __  ___   ____  _________   ____  _           ____    ____   ____  ______  ____   ___  ____

PF1=help   PF2=duplicate   PF3=end  PF4=main menu   PF5=terminate   PF6=rpt options
PF7=back   PF8=more        PF9=save criteria       PF10=left       PF11=right
```

```
09/30/92                    AIRS Air Quality Subsystem                    AMP250B
                                 Select Criteria                          Page 2/2

Report Name:  P/A MONITOR RAW DATA                          Criteria Name:

                          MSA     CMSA    STATUS
  MSA   CMSA              REP     REP     AREA
  ____  ____              ____    ____    ____
  ____  ____              ____    ____    ____
  ____  ____              ____    ____    ____
  ____  ____              ____    ____    ____
  ____  ____              ____    ____    ____
  ____  ____              ____    ____    ____
  ____  ____              ____    ____    ____
  ____  ____              ____    ____    ____
  ____  ____              ____    ____    ____
  ____  ____              ____    ____    ____

PF1=help   PF2=duplicate   PF3=end  PF4=main menu   PF5=terminate   PF6=rpt options
PF7=back   PF8=more        PF9=save criteria       PF10=left       PF11=right
```

Figure 5-15. Select Criteria Screen for the P/A Monitor Raw Data Report

Online Help is available for all of the selection criteria fields except BEGIN-DATE and END-DATE. The Help facility allows you to browse through tables of values, with descriptions, for the codes you need to enter, and then to select the value that you wish to use. The Help facility is described in detail in Section 3.6.4.

Instructions

Enter selection criteria into the available fields on the select criteria screen, or alter the previously saved criteria displayed on the screen if you wish. You must specify criteria in at least one line on the screen. Press the ENTER key when you have finished entering or altering the criteria.

Read Section 3.6.3 if you are not familiar with how to use the select criteria screen. Refer to Volume GC2 of the AIRS User's Guide for lists of valid codes to use for selection criteria.

Press PF1=help for general information about the select criteria process. For Field-specific Help, enter a "?" in the first position of any field (except BEGIN-DATE or END-DATE).

Error Messages

The error messages listed below (in alphabetical order) are displayed at the top of the select criteria screen if you make a mistake in specifying information. See Volume GC4 of the AIRS User's Guide for explanations of the error messages that you may encounter while using Field-specific Help.

A PARAMETER IS REQUIRED FOR STATUS-AREA CODE
If status area is entered, parameter must be entered.

A STATE IS REQUIRED FOR CITY
If city is entered, state must be entered.

A STATE IS REQUIRED FOR COUNTY
If county is entered, state must be entered.

A STATE IS REQUIRED FOR REPORT-ORG
If reporting organization is entered, state must be entered.

BEGIN-DATE IS < 8001 OR > CURRENT DATE
The begin date must be in the range January 1980 (8001) through current year and month.

ENTER SELECTION CRITERIA OR USE A PF-KEY TO ESCAPE
ENTER was pressed without any selection criteria specified. Either specify criteria and press ENTER or use one of the valid PF keys to transfer to another screen or terminate the AIRS session.

INTERVAL CODE IS REQUIRED FOR THIS REPORT
Interval code must be entered.

PF2 INVALID - MAXIMUM NUMBER OF SELECTION CRITERIA HAS BEEN SPECIFIED
Do not press PF2 when the last select criteria screen is full.

PF2 INVALID - THERE ARE NO SELECTION CRITERIA TO DUPLICATE
Do not press PF2 without entering at least one selection criterion.

PF7 INVALID - THIS IS THE FIRST SELECT CRITERIA SCREEN
Do not press PF7 from the first select criteria screen; it is used to page backward.

PF8 INVALID - THIS IS THE FINAL SELECT CRITERIA SCREEN
Do not press PF8 from the last select criteria screen; it is used to page forward.

PF10 INVALID - THIS IS THE LEFT-MOST SELECT CRITERIA SCREEN
Do not press PF10 while the leftmost select criteria screen is displayed.

PF11 INVALID - THIS IS THE RIGHT-MOST SELECT CRITERIA SCREEN
Do not press PF11 while the rightmost select criteria screen is displayed.

PLEASE DO NOT ENTER BOTH STATE AND CMSA CODE
Do not enter both state and CMSA code.

PLEASE DO NOT ENTER BOTH STATE AND CMSA-REP CODE
Do not enter both state and CMSA-rep code.

PLEASE DO NOT ENTER BOTH STATE AND MSA CODE
Do not enter both state and MSA code.

PLEASE DO NOT ENTER BOTH STATE AND MSA-REP CODE
Do not enter both state and MSA-rep code.

PLEASE DO NOT ENTER BOTH STATE AND STATUS-AREA CODE
Do not enter both state and status area code.

PLEASE DO NOT ENTER BOTH STATE AND URBAN-AREA CODE
Do not enter both state and urban area as select criteria.

PLEASE ENTER A NUMERIC BEGIN-DATE
The begin date entered must be numeric.

PLEASE ENTER A NUMERIC END-DATE
The end date entered must be numeric.

PLEASE ENTER A PARAMETER CODE WITH THE METHOD CODE
If method is entered, parameter must be entered.

PLEASE ENTER A VALID AQCR CODE
The AQCR code is not valid.

PLEASE ENTER A VALID CITY CODE
The combination of city and state codes is not valid.

PLEASE ENTER A VALID CMSA CODE
The CMSA code entered must be in the AIRS GEO-COMMON File.

PLEASE ENTER A VALID CMSA-REP CODE
The CMSA-rep code entered must be in the AIRS GEO-COMMON File.

PLEASE ENTER A VALID COUNTY CODE
The combination of county and state codes is not valid.

PLEASE ENTER A VALID INTERVAL CODE
The interval is not valid.

PLEASE ENTER A VALID METHOD CODE
The combination of method and parameter codes is not valid.

PLEASE ENTER A VALID MSA CODE
The MSA code entered must be in the AIRS GEO-COMMON File.

PLEASE ENTER A VALID MSA-REP CODE
The MSA-rep code entered must be in the AIRS GEO-COMMON File.

PLEASE ENTER A VALID MONITOR-TYPE CODE
The monitor type code is not valid. Use a code listed in Volume GC2, or use "B" to select both NAMS and SLAMS monitors or "P" to select PAMS monitor types.

PLEASE ENTER A VALID PARAMETER CODE
The parameter code is not valid.

PLEASE ENTER A VALID REPORT-ORG
The combination of reporting organization and state is not valid.

PLEASE ENTER A VALID SITE CODE
The combination of state, county, and site does not match any existing site-ID in the Site file.

PLEASE ENTER A VALID STATE ABBREVIATION
The state abbreviation is not valid.

PLEASE ENTER A VALID STATE CODE
The state code is not valid.

PLEASE ENTER A VALID STATUS-AREA CODE FOR PARAMETER
The combination of status area and parameter entered must be in the AIRS GEO-COMMON File.

PLEASE ENTER A VALID URBAN-AREA CODE
The urban area code is not valid.

PLEASE ENTER A VALID 4-DIGIT BEGIN-DATE
The begin date entered must be a valid date in YYMM format. The date must be within the range January 1980 through the current year and month.

PLEASE ENTER AN END-DATE THAT IS GREATER THAN OR EQUAL TO THE BEGIN-DATE
The end date must be greater than or equal to the begin date.

PLEASE ENTER ONE: STATE, PARAMETER, AQCR, URBAN-AREA, MSA, CMSA, MSA-REP, CMSA-REP, OR STATUS AREA
One of the geographic criteria or parameter must be used in each line of select criteria.

PLEASE ENTER ONLY ONE: AQCR, URBAN-AREA, CITY, REPORT-ORG, COUNTY, MSA, CMSA, MSA-REP, CMSA-REP, OR STATUS-AREA
Only the combinations of geographic selection criteria listed at the beginning of this section are valid.

PLEASE FILL ALL LINES BEFORE GOING ON TO THE NEXT SCREEN
PF8 is valid only when the current screen is full or when there are more criteria on a subsequent screen.

PLEASE USE A VALID PF-KEY
A PF key not defined for this screen was used.

REPORT BEGINNING DATE IS REQUIRED FOR THIS REPORT
Report begin date must be entered.

REPORT ENDING DATE IS REQUIRED FOR THIS REPORT
Report end date must be entered.

STATUS-AREA CODE NOT ALLOWED WITH THIS PARAMETER
A status area was entered for a parameter that does not allow entry of a status area.

THE COUNTY CODE IS REQUIRED WITH THE SITE CODE
If site is entered, county must be entered.

5.5.4 Data Sorting Options

The Sort Criteria Screen (see Figure 5-16) allows you to specify the sort sequence for the P/A Monitor Raw Data Report. If sort options for this report have previously been stored, they will be displayed. Otherwise, the default sort order will be displayed: state, reporting organization, county, site, parameter, POC, method, interval, date, and monitor type.

You may alter or delete the existing sort sequence and enter new sort criteria, using any of the numbered fields shown on the screen. All of the sort fields are allowed for this report.

```
mm/dd/yy                    AIRS Air Quality Subsystem                    AMP250C
                                  Sort Criteria

Report Name: P/A MONITOR RAW DATA                    Criteria Name: <-name->


    1.  State              6.  Reporting Org        11.  Method
    2.  County             7.  Urban Area           12.  Interval
    3.  Site               8.  EPA Region           13.  Monitor Type
    4.  Parameter          9.  City                 14.  Date
    5.  POC               10.  AQCR

 Enter the numbers of the Sort Elements above in the desired Sort Sequence:

          _1  _6  _2  _3  _4  _5  11  12  14  13  __  __  __  __


PF3=end  PF4=main menu  PF5=terminate  PF6=select criteria  PF9=save criteria
```

Figure 5-16. Sort Criteria Screen for the P/A Monitor Raw Data Report

Instructions

Read Section 3.6.4 of this manual if you are not familiar with how to use the sort criteria screen.

Choose any or all of the allowed sort fields displayed on the screen, subject to the following rules:

1. If you are use EPA region, it must be the first sort field.
2. Reporting Organization must immediately follow state.
3. State must precede county and city.
4. City or county must precede site.
5. Parameter must precede method and POC.

Error Messages

The error messages listed below (in alphabetical order) are displayed at the top of the sort criteria screen if you make a mistake in specifying sort criteria.

CITY OR COUNTY REQUIRED BEFORE SITE

Sorting by site without also specifying county or city was requested, or site was specified before city or county. Since site is meaningful only within county, state and county or state and city must be specified before site in the sort sequence. (If city is specified, county is inserted automatically in the sort sequence just before site.) Add the necessary field(s) to the sort sequence or change the order so site is after city and county.

ERROR - REPEATED SORT CRITERIA

Each sort criterion may be entered only once.

PARAMETER CODE REQUIRED BEFORE METHOD

Method was specified without parameter or they were specified in the wrong order. Add parameter to the sort sequence, eliminate method, or change the order so method follows parameter.

PARAMETER CODE REQUIRED BEFORE POC

POC was specified without parameter or they were specified in the wrong order. Add parameter to the sort sequence, eliminate POC, or change the order so POC follows parameter.

PLEASE ENTER A NUMBER IN THE RANGE 1 THROUGH 14

Valid sort criteria are in the range 1 through 14.

PLEASE USE A VALID PF-KEY

A PF key not defined for this screen was used.

REGION CAN ONLY BE THE FIRST SORT CRITERION

If EPA region is used, it must be first in the sort sequence. Either move region to the first position or eliminate it from the sort specification.

REPORT-ORG REQUIRED AFTER STATE CODE

Sorting by state without specifying reporting organization was selected or reporting organization did not immediately follow state. Add reporting organization to sort sequence or change the order so that reporting organization immediately follows state.

STATE CODE REQUIRED BEFORE CITY

Sorting by city without also specifying state was requested, or city was specified before state. Since city is meaningful only within state, state must be specified before city in the sort sequence. Add state to the sort sequence, eliminate city, or change the order so city is after state.

STATE CODE REQUIRED BEFORE COUNTY

Sorting by county without also specifying state was requested, or they were specified in the wrong order. Since county is meaningful only within state, state must be specified before county in the sort sequence. Add state to the sort sequence, eliminate county, or change the order so county follows state.

STATE CODE REQUIRED BEFORE REPORT-ORG

Sorting by reporting organization without also specifying state was requested, or reporting organization was specified before state. Since reporting organization is meaningful only within state, state must be specified before reporting organization in the sort sequence. Add state to the sort sequence, eliminate reporting organization, or change the order so reporting organization is after state.

5.6 Reduced Frequency Distribution Report (AMP260)

5.6.1 Description

The Reduced Frequency Distribution Report presents a statistical summary of the data reported by air quality monitors. The data are extracted from the AIRS Summary File. The report presents statistical summary data for each selected monitor and time period. The report body includes descriptive items (monitor-ID, monitor type, reporting organization, method of collection and analysis, interval, standard units) and summary statistics (number and percent of observations, minimum reported value, values representing the 10th through 99th percentiles, first- and second-maximum observations, arithmetic and geometric means, and arithmetic and geometric standard deviation). Report options allow selection of either quarterly or yearly summary values, and inclusion or exclusion of data on the basis of whether AIRS summary criteria were met.

Figure 5-17 shows a sample Reduced Frequency Distribution Report. The body of the report presents the statistical data for selected monitors and years or quarters. Each page has the data for a parameter, including the statistical summary data for each of the parameter's selected monitors and years or quarters. Usually there is one line in the report body for each year or quarter, but if exceptional events data were reported, there are two lines. They show the summary statistics based on inclusion and exclusion of the exceptional events data. An "E" in the second column of the report ("EXC EVT") identifies a line based on inclusion of the exceptional events data.

A one-page processing summary report lists the number of records read from the sorted Expanded Monitor File and the number written to the Reduced Frequency Distribution work file (if one was created).

A Precision-Accuracy Report may be generated in conjunction with this report. (See Section 5.3.) It includes data for all the reporting organizations and years that appear in the Reduced Frequency Distribution Report.

DATE 93/09/29
AMP260

EPA AEROMETRIC INFORMATION RETRIEVAL SYSTEM (AIRS)
AIR QUALITY SUBSYSTEM
QUARTERLY REDUCED FREQUENCY DISTRIBUTION
POLLUTANT: (11101) SUSPENDED PARTICULAT
STATE: (08) COLORADO

PAGE 1

POC	YR-QT	MON TYP	REP ORG	EXC EVT	PCT OBS	NBR OBS	MIN OBS	PERCENTILES 10	30	50	70	90	95	99	MAX OBS	2ND MAX	ARIT MEAN	ARIT STD	GEOM MEAN	GEOM STD
METHOD: (091) HI-VOL GRAVIMETRIC																				
UNITS: (001) UG/CU METER (25 C)																				
INTERVAL: (7) 24 HOURS																				
ADAMS CO																				
001-0001																				
1	87-01	1	001			27	16	32	55	98	150	225	230	249	249	230	109.3	71.3	84.9	2.17
1	87-02	1	001			17	21	24	70	87	9E	119	123	123	123	119	80.0	29.6	72.7	1.66
1	87-03	1	001			15	53	62	64	65	99	103	130	130	130	103	83.7	21.4	81.2	1.29
1	87-04	1	001			13	48	52	95	128	139	180	325	325	325	180	128.9	70.7	114.1	1.67
1	88-01	1	001			14	12	48	79	123	138	174	178	178	178	174	109.6	49.0	93.4	2.03
1	88-02	1	001			15	31	48	72	81	99	145	283	283	283	145	97.9	59.1	86.2	1.66
1	88-03	1	001			16	22	40	64	98	111	136	196	196	196	136	93.6	41.7	83.8	1.69
1	88-04	2	001			12	45	57	72	83	115	142	180	180	180	142	95.8	39.3	88.8	1.50
1	89-01	2	001			13	37	46	51	81	125	192	244	244	244	192	100.1	61.1	85.8	1.76
1	89-02	2	001			14	18	28	55	63	83	94	131	131	131	94	66.8	29.3	59.9	1.69
1	89-03	2	001			15	47	54	69	70	100	124	125	125	125	124	80.9	24.5	77.6	1.35
1	89-04	2	001			16	37	41	54	79	93	139	160	160	160	139	83.7	36.4	76.6	1.55
1	90-01	2	001			15	8	29	40	73	86	128	171	171	171	128	71.1	42.6	57.7	2.11
1	90-02	2	001			15	19	37	56	70	78	100	115	115	115	100	68.3	24.2	63.3	1.55
1	90-03	2	001			15	29	43	55	70	96	111	206	206	206	111	78.5	42.6	70.3	1.60
1	90-04	2	001			15	29	32	62	88	95	172	228	228	228	172	94.5	56.3	79.7	1.86
001-1001																				
1	87-01	1	001			14	22	22	49	62	92	153	181	181	181	153	77.0	48.6	63.1	1.97
1	87-02	1	001			14	14	19	50	53	65	98	107	107	107	98	56.6	25.3	50.3	1.74
1	87-03	1	001			16	33	43	44	55	64	78	83	83	83	78	56.7	14.3	55.0	1.29
1	87-04	1	001			5	41	41	42	75	85	87	87	87	87	85	66.0*	22.8	62.5*	1.46
ALAMOSA CO																				
003-0001																				
1	87-01	2	001			14	12	22	48	66	81	98	139	139	139	98	66.1	33.8	56.2	1.93
1	87-02	2	001			15	18	28	37	44	54	59	70	70	70	59	45.1	13.9	42.8	1.43
1	87-03	2	001			13	24	25	30	44	58	71	101	101	101	71	47.8	21.8	43.6	1.54
1	87-04	2	001			15	27	31	38	45	74	81	86	86	86	81	54.3	20.6	50.6	1.48

<AN ASTERISK (*) WITH A MEAN VALUE INDICATES THE MEAN DID NOT MEET SUMMARY CRITERIA>

Figure 5-17. Reduced Frequency Distribution Report-Quarterly (1 of 2)

DATE 93/09/29
AMP260

EPA AEROMETRIC INFORMATION RETRIEVAL SYSTEM (AIRS)
AIR QUALITY SUBSYSTEM
YEARLY REDUCED FREQUENCY DISTRIBUTION
POLLUTANT: (11101) SUSPENDED PARTICULAT
STATE: (08) COLORADO

PAGE 1

POC	YR	MON TYP	REP ORG	EXC EVT	PCT OBS	NBR OBS	MIN OBS	10	30	50	70	90	95	99	MAX OBS	2ND MAX	ARIT MEAN	ARIT STD	GEOM MEAN	GEOM STD
METHOD: (091) HI-VOL GRAVIMETRIC																				
UNITS: (001) UG/CU METER (25 C)																				
INTERVAL: (7) 24 HOURS																				
ADAMS CO																				
001-0001																				
1	87	1	001			72	16	36	64	93	116	171	225	325	325	249	100.6	57.7	85.6	1.82
1	88	1	001			57	12	48	72	96	118	151	180	283	283	196	99.1	47.3	87.8	1.71
1	89	2	001			58	18	41	56	78	90	131	160	244	244	192	82.6	40.1	74.3	1.60
1	90	2	001			60	8	32	53	71	89	128	171	228	228	206	78.1	43.1	67.3	1.79
001-1001																				
1	87	1	001			49	14	29	45	59	73	99	121	181	181	153	63.4*	31.7	56.5*	1.65
ALAMOSA CO																				
003-0001																				
1	87	2	001			57	12	27	37	49	65	86	98	139	139	101	53.3	24.3	48.1	1.60
1	88	2	001			57	18	28	41	48	61	101	110	147	147	133	57.5	28.8	51.3	1.62
1	89	2	001			24	33	43	57	65	82	150	553	712	712	553	117.8*	162.6	79.9*	2.07
ARAPAHOE CO																				
005-1001																				
1	87	1	001			55	25	46	61	75	106	137	163	199	199	194	85.9	36.1	78.5	1.53
1	88	1	001			58	25	45	58	68	85	104	135	152	152	137	73.2	26.0	68.9	1.42
ARCHULETA CO																				
007-0001																				
1	87	2	001			33	25	34	61	77	112	144	270	334	334	270	95.3*	64.6	79.9*	1.82
007-0002																				
1	87	3	001			15	1	42	101	115	199	268	275	275	275	268	151.5*	85.1	98.4*	4.72
BOULDER CO																				
013-0001																				
1	87	1	001			56	11	25	39	50	60	76	89	142	142	110	52.1	22.6	47.6	1.56

<AN ASTERISK (*) WITH A MEAN VALUE INDICATES THE MEAN DID NOT MEET SUMMARY CRITERIA>

Figure 5-17. Reduced Frequency Distribution Report-Yearly (2 of 2)

5.6.2 Report Generation Options

The options available for the Reduced Frequency Distribution Report have to do with the output medium (printed report or work file), the report content (yearly or quarterly data, summary criteria data) and generation of the Precision-Accuracy Report. The report options screen, shown in Figure 5-18, allows you to select the type(s) of output and content you want.

The default option is to generate only a printed report. If you are using report criteria for the Reduced Frequency Distribution Report that you saved previously, your saved specifications for report options are displayed instead of the default.

The work file format for this report is given in Volume AQ1.

```
11/19/90                AIRS Air Quality Subsystem                AMP260A
                            Report Options

Report Name:  REDUCED FREQUENCY DISTRIBUTION        Criteria Name:

                        Enter X for desired Option(s)

            Choose at least one output

            X 1.  Generate a printed report
            _ 2.  Generate a workfile (Enter name below):
                  KUFASWD . _______ . _______ . _______ . _______

            Choose one report type
            _ 3.  Yearly data                   _ 4.  Quarterly data

            Choose one retrieval option
            _ 5.  Include all data & flag data that fails Summary Criteria
            _ 6.  Include only data that meets Summary Criteria

            Choose desired report option
            _ 7.  Generate the Precision-Accuracy Report

  PF3=end      PF4=main menu      PF5=terminate      PF9=save criteria
```

Figure 5-18. Report Options Screen for the Reduced Frequency Distribution Report

Instructions

You must choose one of the following report options, and you may choose both:

option 1	generate a printed report
option 2	generate a work file

You must choose one of the following report types:

option 3	yearly data
option 4	quarterly data

You must choose one of the following retrieval options:

option 5	include all data and flag data that fails summary criteria
option 6	include only data that meets summary criteria

You may choose the following additional report output:

option 7	generate the Precision-Accuracy report

If you choose a work file (option 2), you must specify a dataset name for it; otherwise you may not specify a dataset name.

Read Section 3.6.1 if you are not familiar with how to use the report options screen. Section 3.6.2 describes the characteristics of valid dataset names.

Error Messages

The error messages listed below (in alphabetical order) are displayed at the top of the report options screen if you make a mistake in specifying report options.

DATASET NAME IS INVALID
The work file dataset name is not valid. Refer to Section 3.6.2 of this volume for a description of dataset naming conventions.

DATASET NAME NOT ALLOWED WITHOUT SPECIFYING OPTION 2
If a work file is not selected as an output, the dataset name must be blank.

PLEASE CHOOSE ONLY ONE OPTION (OPTION 3 OR 4)
Do not select both option 3 (yearly) and option 4 (quarterly).

PLEASE CHOOSE ONLY ONE OPTION (OPTION 5 OR 6)

Do not select both option 5 (include all data) and option 6 (include only data that meets summary criteria).

PLEASE CHOOSE OPTION 1 OR 2 FOR OUTPUT

Either a printed report (option 1) or a work file (option 2) must be selected as an output of the report.

PLEASE CHOOSE OPTION 3 OR 4

Either option 3 (yearly) or option 4 (quarterly) must be selected for extraction of data from the summary files.

PLEASE CHOOSE OPTION 5 OR 6

Either option 5, to extract all data regardless of summary criteria (with "failed" records flagged), or option 6, to extract only data that meet the summary criteria, must be selected.

PLEASE ENTER A VALID DATASET NAME

If a work file is selected, a dataset name must be specified.

PLEASE ENTER BLANK OR 'X'

Only blank and X are valid entries for selecting report options.

PLEASE USE A VALID PF-KEY

A PF key not defined for this screen was used.

5.6.3 Data Selection Options

You may select which monitors are included in the report using the select criteria screen. A sample screen is shown in Figure 5-19. The leftmost portion of the screen is shown at the top of the figure and the rightmost portion is shown at the bottom.

There are three groups of selection criteria. The first group consists of "geographic" criteria. Only certain combinations of these fields are allowed. You may use any one of the following combinations of geographic selection fields:

state (code or abbreviation)
state + county
state + county + site
state + reporting organization
state + city
state + AQCR
AQCR
urban area
MSA
CMSA
MSA-rep
CMSA-rep
status area

The second group of selection criteria consists of the following optional fields:

parameter
method
interval
monitor type

The third group of selection criteria consists of the following required fields:

begin date (year and quarter)
end date (year and quarter)

In a given line on the select criteria screen, you must specify all the fields in the third group of selection criteria and either parameter or one of the geographic criteria in the first group. You may use any of the criteria in the second group in addition to other criteria. If you specify method, you must also specify parameter.

Specify dates as year and quarter (YYQ format). Valid dates are the first quarter of 1957 (571) through any valid quarter.

In addition to the monitor type codes listed in Volume GC2 of the AIRS User's Guide, you may use the code "B" to select both NAMS and SLAMS monitors and code "P" to select PAMS monitors.

```
09/30/92                    AIRS Air Quality Subsystem                    AMP260B
                                 Select Criteria                          Page 1/2

Report Name:  REDUCED FREQUENCY DISTRIBUTION          Criteria Name:

                        PARA-                  BEGIN      END    MON                  REP  URBAN
  ST  CNTY  SITE        METER   METH  INT      YEAR Q     YEAR Q TYPE  CITY    AQCR    ORG  AREA
  __  ___   ________    ______  ____  _       ____ _     ____ _ ____  ________ ____  ____ ____
  __  ___   ________    ______  ____  _       ____ _     ____ _ ____  ________ ____  ____ ____
  __  ___   ________    ______  ____  _       ____ _     ____ _ ____  ________ ____  ____ ____
  __  ___   ________    ______  ____  _       ____ _     ____ _ ____  ________ ____  ____ ____
  __  ___   ________    ______  ____  _       ____ _     ____ _ ____  ________ ____  ____ ____
  __  ___   ________    ______  ____  _       ____ _     ____ _ ____  ________ ____  ____ ____
  __  ___   ________    ______  ____  _       ____ _     ____ _ ____  ________ ____  ____ ____
  __  ___   ________    ______  ____  _       ____ _     ____ _ ____  ________ ____  ____ ____
  __  ___   ________    ______  ____  _       ____ _     ____ _ ____  ________ ____  ____ ____
  __  ___   ________    ______  ____  _       ____ _     ____ _ ____  ________ ____  ____ ____

PF1=help   PF2=duplicate   PF3=end  PF4=main menu   PF5=terminate   PF6=rpt options
PF7=back   PF8=more        PF9=save criteria        PF10=left       PF11=right
```

```
09/30/92                    AIRS Air Quality Subsystem                    AMP260B
                                 Select Criteria                          Page 2/2

Report Name:  REDUCED FREQUENCY DISTRIBUTION          Criteria Name:

                        MSA    CMSA   STATUS
  MSA   CMSA            REP    REP    AREA
  ____  ____            ____   ____   ____
  ____  ____            ____   ____   ____
  ____  ____            ____   ____   ____
  ____  ____            ____   ____   ____
  ____  ____            ____   ____   ____
  ____  ____            ____   ____   ____
  ____  ____            ____   ____   ____
  ____  ____            ____   ____   ____
  ____  ____            ____   ____   ____
  ____  ____            ____   ____   ____

PF1=help   PF2=duplicate   PF3=end  PF4=main menu   PF5=terminate   PF6=rpt options
PF7=back   PF8=more        PF9=save criteria        PF10=left       PF11=right
```

Figure 5-19. Select Criteria Screen for the Reduced Frequency Distribution Report

Online Help is available for all of the selection criteria fields except BEGIN-DATE and END-DATE. The Help facility allows you to browse through tables of values, with descriptions, for the codes you need to enter, and then to select the value that you wish to use. The Help facility is described in detail in Section 3.6.4.

Instructions

Enter selection criteria into the available fields on the select criteria screen, or alter the previously saved criteria displayed on the screen if you wish. You must specify criteria in at least one line on the screen. Press the ENTER key when you have finished entering or altering the criteria.

Read Section 3.6.3 if you are not familiar with how to use the select criteria screen. Refer to Volume GC2 of the AIRS User's Guide for lists of valid codes to use for selection criteria.

Press PF1=help for general information about the select criteria process. For Field-specific Help, enter a "?" in the first position of any field (except BEGIN-DATE or END-DATE).

Error Messages

The error messages listed below (in alphabetical order) are displayed at the top of the select criteria screen if you make a mistake in specifying selection criteria. See Volume GC4 of the AIRS User's Guide for explanations of the error messages that you may encounter while using Field-specific Help.

A PARAMETER IS REQUIRED FOR STATUS-AREA CODE
If status area is entered, parameter must be entered.

A STATE IS REQUIRED FOR CITY
If city is entered, state must be entered.

A STATE IS REQUIRED FOR COUNTY
If county is specified, state must be specified.

A STATE IS REQUIRED FOR REPORT-ORG
If reporting organization is entered, state must be entered.

BEGIN-QUARTER IS < 1 OR > 4
Begin quarter must be in the range 1 through 4.

BEGIN-YEAR IS < 57 OR > CURRENT YEAR
Begin year must be in the range 57 through current year.

END-QUARTER IS < 1 OR > 4
End quarter must be in the range 1 through 4.

END-QUARTER MUST BE GREATER THAN OR EQUAL TO THE BEGIN-QUARTER
If begin and end years are equal, end quarter must be equal to or greater than begin quarter.

ENTER SELECTION CRITERIA OR USE A PF-KEY TO ESCAPE
ENTER was pressed without any selection criteria specified. Either specify criteria and press ENTER or use one of the valid PF keys to transfer to another screen or terminate the AIRS session.

PF2 INVALID - MAXIMUM NUMBER OF SELECTION CRITERIA HAS BEEN SPECIFIED
Do not press PF2 when the last select criteria screen is full.

PF2 INVALID - THERE ARE NO SELECTION CRITERIA TO DUPLICATE
Do not press PF2 without entering at least one selection criterion.

PF7 INVALID - THIS IS THE FIRST SELECT CRITERIA SCREEN
Do not press PF7 from the first select criteria screen; it is used to page backward.

PF8 INVALID - THIS IS THE FINAL SELECT CRITERIA SCREEN
Do not press PF8 from the last select criteria screen; it is used to page forward.

PF10 INVALID - THIS IS THE LEFT-MOST SELECT CRITERIA SCREEN
Do not press PF10 while the leftmost select criteria screen is displayed.

PF11 INVALID - THIS IS THE RIGHT-MOST SELECT CRITERIA SCREEN
Do not press PF11 while the rightmost select criteria screen is displayed.

PLEASE DO NOT ENTER BOTH STATE AND CMSA CODE
Do not enter both state and CMSA code.

PLEASE DO NOT ENTER BOTH STATE AND CMSA-REP CODE
Do not enter both state and CMSA-rep code.

PLEASE DO NOT ENTER BOTH STATE AND MSA CODE
Do not enter both state and MSA code.

PLEASE DO NOT ENTER BOTH STATE AND MSA-REP CODE
Do not enter both state and MSA-rep code.

PLEASE DO NOT ENTER BOTH STATE AND STATUS-AREA CODE
Do not enter both state and status area code.

PLEASE DO NOT ENTER BOTH STATE AND URBAN-AREA CODE
Do not enter both state and urban area as select criteria.

PLEASE ENTER A NUMERIC BEGIN-QUARTER
The begin quarter entered must be numeric.

PLEASE ENTER A NUMERIC BEGIN-YEAR
The begin year entered must be numeric.

PLEASE ENTER A NUMERIC END-QUARTER
The end quarter entered must be numeric.

PLEASE ENTER A NUMERIC END-YEAR
The end year entered must be numeric.

PLEASE ENTER A PARAMETER CODE WITH THE METHOD CODE
If method is entered, parameter must be entered.

PLEASE ENTER A VALID AQCR CODE
The AQCR code is not valid.

PLEASE ENTER A VALID CITY CODE
The combination of city and state codes is not valid.

PLEASE ENTER A VALID CMSA CODE
The CMSA code entered must be in the AIRS GEO-COMMON File.

PLEASE ENTER A VALID CMSA-REP CODE
The CMSA-rep code entered must be in the AIRS GEO-COMMON File.

PLEASE ENTER A VALID COUNTY CODE
The combination of county and state codes is not valid.

PLEASE ENTER A VALID INTERVAL CODE
The interval code is not valid.

PLEASE ENTER A VALID METHOD CODE
The combination of method and parameter codes is not valid.

PLEASE ENTER A VALID MONITOR-TYPE CODE
The monitor type code is not valid. Use a code listed in Volume GC2, or use "B" to select both NAMS and SLAMS monitor types or "P" to select PAMS monitor types.

PLEASE ENTER A VALID MSA CODE
The MSA code entered must be in the AIRS GEO-COMMON File.

PLEASE ENTER A VALID MSA-REP CODE
The MSA-rep code entered must be in the AIRS GEO-COMMON File.

PLEASE ENTER A VALID PARAMETER CODE
The parameter code is not valid.

PLEASE ENTER A VALID REPORT-ORG
The combination of reporting organization and state is not valid.

PLEASE ENTER A VALID SITE CODE
The combination of state, county, and site does not match any existing site-ID in the Site file.

PLEASE ENTER A VALID STATE ABBREVIATION
The state abbreviation is not valid.

PLEASE ENTER A VALID STATE CODE
The state code is not valid.

PLEASE ENTER A VALID STATUS-AREA CODE FOR PARAMETER
The combination of status area and parameter entered must be in the AIRS GEO-COMMON File.

PLEASE ENTER A VALID URBAN-AREA CODE
The urban area code is not valid.

PLEASE ENTER A VALID 1-DIGIT BEGIN-QUARTER
If begin year equals the current year, begin quarter cannot exceed the current quarter.

PLEASE ENTER A VALID 1-DIGIT END-QUARTER
If end year equals the current year, end quarter cannot exceed the current quarter.

PLEASE ENTER AN END-YEAR THAT IS GREATER THAN OR EQUAL TO THE BEGIN-YEAR
The end year must be greater than or equal to the begin year.

PLEASE ENTER ONE: STATE, PARAMETER, AQCR, URBAN-AREA, MSA, CMSA, MSA-REP, CMSA-REP, OR STATUS AREA
One of the geographic criteria or parameter must be used in each line of select criteria.

PLEASE ENTER ONLY ONE: AQCR, URBAN-AREA, CITY, REPORT-ORG, COUNTY, MSA, CMSA, MSA-REP, CMSA-REP, OR STATUS-AREA
Only the combinations of geographic selection criteria listed at the beginning of this section are valid.

PLEASE FILL ALL LINES BEFORE GOING ON TO THE NEXT SCREEN
PF8 is valid only when the current screen is full or when there are more criteria on a subsequent screen.

PLEASE USE A VALID PF-KEY
A PF key not defined for this screen was used.

REPORT BEGINNING QUARTER IS REQUIRED FOR THIS REPORT
Begin quarter must be entered.

REPORT BEGINNING YEAR REQUIRED FOR THIS REPORT
Begin year must be entered.

REPORT ENDING QUARTER IS REQUIRED FOR THIS REPORT
End quarter must be entered.

REPORT ENDING YEAR IS REQUIRED FOR THIS REPORT
End year must be entered.

STATUS-AREA CODE NOT ALLOWED WITH THIS PARAMETER
A status area was entered for a parameter that does not allow entry of a status area.

THE COUNTY CODE IS REQUIRED WITH THE SITE CODE
If site is specified, county must be specified.

5.6.4 Data Sorting Options

The sort sequence you specify determines the order of monitoring site entries in the Reduced Frequency Distribution Report and work file. The sort criteria screen, shown in Figure 5-20, allows you to establish the sort sequence. The default sort sequence is by parameter, state, method, interval, county, site, POC, date, and reporting organization.

You may alter or delete the existing sort sequence and enter new sort criteria, using any of the numbered fields shown on the screen. Sort fields listed with their respective numbers, 1 through 6 and 11 through 14, are allowed for this report (see below).

If you use report criteria that were saved previously for a different report, the sort criteria program may alter the saved sort specifications to conform with the requirements for this report. Otherwise, the saved sort sequence is not altered.

The parameter, state, method, interval, county, site, POC, date, and reporting organization fields are added to your sort sequence automatically if you do not specify them. This is done to ensure that the sorting process will eliminate any duplicate records from the report. (Duplicates could occur if a monitoring site was selected by more than one of your selection "cards".) The fields are inserted at the end of the sequence you specified.

```
09/30/92                    AIRS Air Quality Subsystem                    AMP260C
                                 Sort Criteria

Report Name:  REDUCED FREQUENCY DISTRIBUTION          Criteria Name:

    1.  State                6.  Reporting Org        11.  Method
    2.  County               7.  Urban Area           12.  Interval
    3.  Site                 8.  EPA Region           13.  Monitor Type
    4.  Parameter            9.  City                 14.  Date
    5.  POC                 10.  AQCR

 Enter the numbers of the Sort Elements above in the desired Sort Sequence:

                  _1  _2  _3  _4  _5  12  14  __  __  __  __  __  __  __

 PF3=end    PF4=main menu    PF5=terminate    PF6=select criteria    PF9=save criteria
```

Figure 5-20. Sort Criteria Screen for the Reduced Frequency Distribution Report

Instructions

Read Section 3.6.4 of this manual if you are not familiar with how to use the sort criteria screen.

Error Messages

The error messages listed below (in alphabetical order) are displayed at the top of the sort criteria screen if you make a mistake in specifying sort criteria.

ERROR - REPEATED SORT CRITERIA
Each sort criterion may be entered only once.

PARAMETER CODE REQUIRED BEFORE METHOD
Method was specified without parameter or they were specified in the wrong order. Add parameter to the sort sequence, eliminate method, or change the order so method follows parameter.

PARAMETER CODE REQUIRED BEFORE POC
POC was specified without parameter or they were specified in the wrong order. Add parameter to the sort sequence, eliminate POC, or change the order so POC follows parameter.

PLEASE ENTER A NUMBER IN THE RANGE 1 THROUGH 14
The sort specification at the cursor is not valid, and you must change it. Valid entries are blank or one of the sort field numbers allowed for this report: 1 - 14. Remember that you must enter two digits for each sort specification.

PLEASE USE A VALID PF-KEY
A PF key not defined for this screen was used.

STATE CODE REQUIRED BEFORE COUNTY
Sorting by county without also specifying state was requested, or they were specified in the wrong order. Since county is meaningful only within state, state must be specified before county in the sort sequence. Add state to the sort sequence, eliminate county, or change the order so county follows state.

STATE CODE REQUIRED BEFORE REPORT-ORG
Sorting by reporting organization without also specifying state was requested, or reporting organization was specified before state. Since reporting organization is meaningful only within state, state must be specified before reporting organization in the sort sequence. Add state to the sort sequence, eliminate reporting organization, or change the order so reporting organization is after state.

5.7 SLAMS Data Generation Report (AMP275)

5.7.1 Description

The SLAMS Data Generation Report Program converts raw data values for criteria pollutants into a format compatible with the SLAMS File and produces a report listing the generated SLAMS summary values. Its purpose is to allow state and local agencies that have reported raw data to generate SLAMS summary data in the form of AIRS input transactions. Samples of the report formats are shown in Figure 5-21. Each pollutant has its own format. (The format of this report is identical to the SLAMS Data Retrieval Report, AMP280.) Each report format contains the AIRS monitor-ID, state, county, street address, year, reporting organization, method(s), units, and whether or not the data includes exceptional event data. All formats except the one for lead contain frequency information, listing the number of values that fall within eight pollutant-specific ranges (there are nine ranges for PM-10). Each page of the report lists the pollutant name, year, and state, and a new page is started when any of these changes. The information in the report body varies among the pollutants.

A one-page processing summary report lists the number of records processed and indicates that the report program terminated normally.

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AMP275 AIR QUALITY SUBSYSTEM
SLAMS DATA GENERATION REPORT

** SUSPENDED PARTICULATE UG/CU.METER 1990 IDAHO **

SITE-ID / STREET ADDRESS / CITY	PARAMETER	POC	EXCEPTIONAL EVENTS DATA	ANNUAL ARITH. MEAN	SAMPLING FREQS. 1 2 3 4	24-HOUR OBSERVATIONS: NUMBER OBSERVATIONS 1 2 3 4	24-HOUR OBSERVATIONS: # ADDITIONAL SAMP. DAYS 1 2 3 4	24-HOUR OBSERVATIONS: DATE SAMPLE FREQUENCY VALID 1 2 3 4	FREQUENCY OF 24-HOUR CONCENTRATIONS: VALUE RANGE	FREQUENCY OF 24-HOUR CONCENTRATIONS: NUMBER VALUES
********** ADA CO **********										
16-001-0001 WHITNEY FIRE STATION/9500 OVERLAND RD BOISE CITY	11101	1	NO	44	6	59	1	01/05	0-50 51-100 101-150 151-200 201-250 251-300 301-400 > 400	41 17 0 1 0 0 0 0

REPORT ORG: 001 - IDAHO DEPARTMENT OF HEALTH AND WELFARE-ENVIRONMENT DIVISI
METHOD(S): 091 - HI-VOL GRAVIMETRIC

EXCEEDANCES 166
DATES 08/09

Figure 5-21. SLAMS Data Generation Report - Suspended Particulate (1 of 7)

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AMP275 AIR QUALITY SUBSYSTEM
SLAMS DATA GENERATION REPORT

** LEAD UG/CU. METER 1990 MASSACHUSETTS **

SITE-ID PARAMETER POC STREET ADDRESS CITY	EXCEPTIONAL EVENTS DATA	SAMPLING INTERVAL	-- 1ST QUARTER-- NUMBER OBS	ARITH MEAN	--2ND QUARTER-- NUMBER OBS	ARITH MEAN	--3RD QUARTER-- NUMBER OBS	ARITH MEAN	--4TH QUARTER-- NUMBER OBS	ARITH MEAN
********** HAMPDEN CO **********										
25-013-0011 12128 2 59 HOWARD STREET SPRINGFIELD		7	15	.04	15	.04	15	.03	15	.02

REPORT ORG: 001 - MASS DEPT ENVIRONMENTAL PROTECTION-DIV AIR QUALITY CONTRO
METHOD(S): 092 - HI-VOL ATOMIC ABSORPTION

Figure 5-21. SLAMS Data Generation Report - Lead (2 of 7)

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AMP275 AIR QUALITY SUBSYSTEM
SLAMS DATA GENERATION REPORT

** CARBON MONOXIDE PPM 1990 MASSACHUSETTS **

SITE-ID PARAMETER POC STREET ADDRESS CITY	EXCEPTIONAL EVENTS DATA	1-HOUR OBSERVATIONS NUMBER OBS	1ST MAX DATE-HR	2ND MAX DATE-HR	# OBS > 35	8-HOUR AVERAGES 1ST MAX DATE-HR	2ND MAX DATE-HR	# AVG > 9	FREQUENCY OF 8-HOUR AVERAGE CONCENTRATIONS VALUE RANGE	NUMBER VALUES
********** HAMPDEN CO **********										
25-013-0016 42101 1 LIBERTY STREET PARKING LOT SPRINGFIELD	NO	8605	14.0 01/02-11	9.3 11/16-07	0	7.0 11/02-02	6.4 02/08-00	0	00-04 05-08 09-12 13-16 17-20 21-24 25-28 > 28	8553 70 0 0 0 0 0 0
REPORT ORG: 001 - MASS DEPT ENVIRONMENTAL PROTECTION-DIV AIR QUALITY CONTRO METHOD(S): 051 - INSTSRUMENTAL NON DISPERSIVE INFRA-RED										
25-013-2007 42101 1 EAST COLUMBUS AVENUE SPRINGFIELD	NO	8505	9.0 01/25-15	9.0 02/07-17	0	7.3 02/07-23	7.0 01/25-15	0	00-04 05-08 09-12 13-16 17-20 21-24 25-28 > 28	8378 131 0 0 0 0 0 0
REPORT ORG: 001 - MASS DEPT ENVIRONMENTAL PROTECTION-DIV AIR QUALITY CONTRO METHOD(S): 041 - INSTRUMENTAL NON DISPERSIVE INFRA-RED										
********** MIDDLESEX CO **********										
25-017-0007 42101 1 OLD CITY HALL, MERRIMACK STREET LOWELL	NO	8084	15.0 01/25-07	14.0 01/25-06	0	9.0 01/25-09	7.3 01/16-22	0	00-04 05-08 09-12 13-16 17-20 21-24 25-28 > 28	8026 77 2 0 0 0 0 0
REPORT ORG: 001 - MASS DEPT ENVIRONMENTAL PROTECTION-DIV AIR QUALITY CONTRO METHOD(S): 041 - INSTRUMENTAL NON DISPERSIVE INFRA-RED										
********** SUFFOLK CO **********										
25-025-0002 42101 1 KENMORE SQUARE, 590 COMMONWEALTH AVENUE BOSTON	NO	7842	11.0 01/16-19	11.0 01/16-20	0	7.4 01/16-23	6.1 01/25-18	0	00-04 05-08 09-12 13-16 17-20 21-24 25-28 > 28	7799 44 0 0 0 0 0 0
REPORT ORG: 001 - MASS DEPT ENVIRONMENTAL PROTECTION-DIV AIR QUALITY CONTRO METHOD(S): 041 - INSTRUMENTAL NON DISPERSIVE INFRA-RED										

Figure 5-21. SLAMS Data Generation Report - Carbon Monoxide (3 of 7)

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AMP275 AIR QUALITY SUBSYSTEM
SLAMS DATA GENERATION REPORT

** SULFUR DIOXIDE PPM 1990 MASSACHUSETTS **

SITE-ID PARAMETER POC / STREET ADDRESS / CITY	EXCEPT. EVENTS DATA	ANNUAL ARITH MEAN	NUMBER 1-HOUR OBS	NUMBER 24-HOUR OBS	24-HOUR VALUES 1ST MAX DATE	24-HOUR VALUES 2ND MAX DATE	24-HOUR VALUES NUMBER > .14	3-HOUR AVERAGES 1ST MAX DATE-HR	3-HOUR AVERAGES 2ND MAX DATE-HR	3-HOUR AVERAGES NUMBER > .50	FREQUENCY OF 24-HOUR CONCENTRATIONS VALUE RANGE	NUMBER VALUES
********** BRISTOL CO **********												
25-005-0010 42401 1 BETWEEN GLOBE AND WILCOX STS. PARKING LO FALL RIVER	NO	.007	8642		.054 11/08	.049 11/30	0	.134 10/29-17	.131 02/25-23	0	.00-.04 .05-.08 .09-.12 .13-.16 .17-.20 .21-.24 .25-.28 > .28	361 2 0 0 0 0 0 0
REPORT ORG: 017 - NEW ENGLAND POWER COMPANY METHOD(S): 020 - INSTRUMENTAL PULSED FLUORESCENT 009 - INSTRUMENTAL PULSED FLUORESCENT												
25-005-1004 42401 1 GLOBE STREET FALL RIVER	NO	.008	8512		.038 10/29	.033 11/08	0	.118 02/25-20	.108 10/29-17	0	.00-.04 .05-.08 .09-.12 .13-.16 .17-.20 .21-.24 .25-.28 > .28	355 0 0 0 0 0 0 0
REPORT ORG: 001 - MASS DEPT ENVIRONMENTAL PROTECTION-DIV AIR QUALITY CONTRO METHOD(S): 009 - INSTRUMENTAL PULSED FLUORESCENT												
25-005-6001 42401 1 SHARPS LOT ROAD SWANSEA	NO	.006	8468		.048 05/13	.037 10/18	0	.224 03/23-02	.204 01/26-02	0	.00-.04 .05-.08 .09-.12 .13-.16 .17-.20 .21-.24 .25-.28 > .28	352 1 0 0 0 0 0 0
REPORT ORG: 017 - NEW ENGLAND POWER COMPANY METHOD(S): 020 - INSTRUMENTAL PULSED FLUORESCENT 009 - INSTRUMENTAL PULSED FLUORESCENT												
********** ESSEX CO **********												
25-009-0005 42401 1 HIGH STREET, STORROW PARK LAWRENCE	NO	.009	8374		.038 01/02	.035 01/16	0	.077 01/23-08	.071 02/02-02	0	.00-.04 .05-.08 .09-.12 .13-.16 .17-.20 .21-.24 .25-.28 > .28	349 0 0 0 0 0 0 0
REPORT ORG: 001 - MASS DEPT ENVIRONMENTAL PROTECTION-DIV AIR QUALITY CONTRO METHOD(S): 009 - INSTRUMENTAL PULSED FLUORESCENT												

Figure 5-21. SLAMS Data Generation Report - Sulfur Dioxide (4 of 7)

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AMP275 AIR QUALITY SUBSYSTEM
SLAMS DATA GENERATION REPORT

** NITROGEN DIOXIDE PPM 1990 MASSACHUSETTS **

SITE-ID PARAMETER POC STREET ADDRESS CITY	EXCEPTIONAL EVENTS DATA	ANNUAL ARITH. MEAN	-- 24-HOUR OBSERVATIONS -- NUMBER OBS	1ST MAX DATE	2ND MAX DATE	--- 1-HOUR OBSERVATIONS -- NUMBER OBS	1ST MAX DATE-HR	2ND MAX DATE-HR	FREQUENCY OF 1-HOUR CONCENTRATIONS VALUE RANGE	NUMBER VALUES
********** HAMPDEN CO **********										
25-013-0016 42602 1 LIBERTY STREET PARKING LOT SPRINGFIELD	NO	.026				8616	.104 03/15-20	.100 05/09-18	.00-.04 .05-.08 .09-.12	7897 707 12
REPORT ORG: 001 - MASS DEPT ENVIRONMENTAL PROTECTION-DIV AIR QUALITY CONTRO									.13-.16	0
METHOD(S): 042 - INSTRUMENTAL CHEMILUMINESCENCE									.17-.20	0
									.21-.24	0
									.25-.28	0
									> .28	0
********** HAMPSHIRE CO **********										
25-015-4002 42602 1 QUABBIN SUMMIT WARE	NO	.009				7848	.086 11/02-19	.082 11/01-22	.00-.04 .05-.08 .09-.12	7730 117 1
REPORT ORG: 001 - MASS DEPT ENVIRONMENTAL PROTECTION-DIV AIR QUALITY CONTRO									.13-.16	0
METHOD(S): 035 - INSTRUMENTAL CHEMILUMINESCENCE									.17-.20	0
									.21-.24	0
									.25-.28	0
									> .28	0
********** NORFOLK CO **********										
25-021-0008 42602 1 FISHER RESERVOIR, FISHER AVE BROOKLINE	NO	.017				8202	.096 01/17-11	.090 03/15-15	.00-.04 .05-.08 .09-.12	8008 192 2
REPORT ORG: 030 - MEDICAL AREA TOTAL ENERGY PLANT (MATEP)									.13-.16	0
METHOD(S): 014 - INSTRUMENTAL CHEMILUMINESCENCE									.17-.20	0
									.21-.24	0
									.25-.28	0
									> .28	0
25-021-0009 42602 1 RTE 9 AND CHESTNUT HILL AVE BROOKLINE	NO	.025				8719	.102 03/15-14	.096 03/15-15	.00-.04 .05-.08 .09-.12	8269 447 3
REPORT ORG: 030 - MEDICAL AREA TOTAL ENERGY PLANT (MATEP)									.13-.16	0
METHOD(S): 014 - INSTRUMENTAL CHEMILUMINESCENCE									.17-.20	0
									.21-.24	0
									.25-.28	0
									> .28	0

Figure 5-21. SLAMS Data Generation Report - Nitrogen Dioxide (5 of 7)

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AMP275 AIR QUALITY SUBSYSTEM
SLAMS DATA GENERATION REPORT

** OZONE PPM 1990 MASSACHUSETTS **

SITE-ID / STREET ADDRESS / CITY	PARAMETER	POC	EXCEPTIONAL EVENTS DATA	NUMBER 1-HOUR OBS	DAILY MAXIMUM OF 1-HOUR OBSERVATIONS: NUMBER OF EXCURSIONS	1ST MAX DATE-HR	2ND MAX DATE-HR	3RD MAX DATE-HR	4TH MAX DATE-HR	FREQUENCY OF DAILY MAXIMUM CONCENTRATIONS: VALUE RANGE	NUMBER VALUES
********** BARNSTABLE CO **********											
25-001-0002 FOX BOTTOM AREA-CAPE COD NA''L SEASHORE TRURO	44201	1	NO	5038	1	.132 07/19-18	.119 07/18-15	.113 07/17-18	.112 07/20-12	.00-.04 .05-.08 .09-.12	93 97 18
REPORT ORG: 001 - MASS DEPT ENVIRONMENTAL PROTECTION-DIV AIR QUALITY CONTRO METHOD(S): 047 - INSTRUMENTAL ULTRA VIOLET										.13-.16 .17-.20 .21-.24 .25-.28 > .28	1 0 0 0 0
********** BERKSHIRE CO **********											
25-003-4002 MT. GREYLOCK SUMMIT ADAMS	44201	1	NO	3429	1	.155 07/19-20	.105 06/17-03	.101 07/18-20	.097 06/15-20	.00-.04 .05-.08 .09-.12	48 82 10
REPORT ORG: 001 - MASS DEPT ENVIRONMENTAL PROTECTION-DIV AIR QUALITY CONTRO METHOD(S): 019 - INSTRUMENTAL ULTRA VIOLET 053 - INSTRUMENTAL ULTRA VIOLET										.13-.16 .17-.20 .21-.24 .25-.28 > .28	1 0 0 0 0
********** BRISTOL CO **********											
25-005-1001 NORTH EASTON POST OFFICE, 300 MAIN STREE EASTON	44201	1	NO	4914	0	.117 07/20-15	.115 07/04-17	.115 08/17-11	.105 07/18-19	.00-.04 .05-.08 .09-.12	95 95 14
REPORT ORG: 001 - MASS DEPT ENVIRONMENTAL PROTECTION-DIV AIR QUALITY CONTRO METHOD(S): 053 - INSTRUMENTAL ULTRA VIOLET										.13-.16 .17-.20 .21-.24 .25-.28 > .28	0 0 0 0 0
25-005-1002 LEROY WOOD SCHOOL FAIRHAVEN	44201	1	NO	5057	2	.132 07/19-17	.126 08/04-14	.117 07/17-16	.114 09/02-16	.00-.04 .05-.08 .09-.12	86 102 19
REPORT ORG: 001 - MASS DEPT ENVIRONMENTAL PROTECTION-DIV AIR QUALITY CONTRO METHOD(S): 047 - INSTRUMENTAL ULTRA VIOLET										.13-.16 .17-.20 .21-.24 .25-.28 > .28	2 0 0 0 0

Figure 5-21. SLAMS Data Generation Report - Ozone (6 of 7)

93-09-09 EPA AEROMETRIC INFORMATION RETRIEVAL SYSTEM (AIRS) PAGE 1
AMP275 AIR QUALITY SUBSYSTEM
SLAMS DATA GENERATION REPORT

** PM10 UG/CU.METER 1990 IDAHO **

SITE-ID PARAMETER POC / STREET ADDRESS / CITY	EXCEPTIONAL EVENTS DATA	ANNUAL ARITH. MEAN	24-HOUR OBSERVATIONS: SAMPLING FREQS. 1 2 3 4	NUMBER OBSERVATIONS 1 2 3 4	# ADDITIONAL SAMP. DAYS 1 2 3 4	DATE SAMPLE FREQUENCY VALID 1 2 3 4	FREQUENCY OF 24-HOUR CONCENTRATIONS: VALUE RANGE	NUMBER VALUES
********** ADA CO **********								
16-001-0003 81102 1 FIRE STATION - FAIRVIEW @ LIBERTY BOISE CITY	NO	31	6	61	1	01/05	0-25 26-50 51-75 76-100 101-125 126-150 151-175 176-200 > 200	27 25 8 1 0 0 0 0 0
REPORT ORG: 001 - IDAHO DEPARTMENT OF HEALTH AND WELFARE-ENVIRONMENT DIVISI METHOD(S): 063 - HI-VOL-SA/GMW-1200 GRAVIMETRIC EXCEEDANCES DATES								
16-001-0009 81102 1 FIRE STATION #5/16TH & FRONT BOISE CITY	NO	35	6 2	84 30	38	01/01 10/26	0-25 26-50 51-75 76-100 101-125 126-150 151-175 176-200 > 200	38 49 25 2 0 0 0 0 0
REPORT ORG: 001 - IDAHO DEPARTMENT OF HEALTH AND WELFARE-ENVIRONMENT DIVISI METHOD(S): 063 - HI-VOL-SA/GMW-1200 GRAVIMETRIC 064 - HI-VOL-SA/GMW-321-B GRAVIMETRIC EXCEEDANCES DATES								
16-001-0011 81102 1 MTN VIEW SCHOOL/3500 CARBARTON LANE BOISE CITY	NO	22?	6	51	30	01/01	0-25 26-50 51-75 76-100 101-125 126-150 151-175 176-200 > 200	33 16 2 0 0 0 0 0 0
REPORT ORG: 001 - IDAHO DEPARTMENT OF HEALTH AND WELFARE-ENVIRONMENT DIVISI METHOD(S): 063 - HI-VOL-SA/GMW-1200 GRAVIMETRIC EXCEEDANCES DATES								

NOTE: A MEAN VALUE FOLLOWED BY '?' WAS COMPUTED FROM OBSERVATIONS THAT DID NOT MEET SUMMARY CRITERIA

Figure 5-21. SLAMS Data Generation Report - PM-10 (7 of 7)

5.7.2 Report Generation Options

The options available for the SLAMS Data Generation Report have to do with the output medium: printed report, work file, or a file of AIRS input transactions. The report options screen, shown in Figure 5-22, allows you to select the type(s) of output you want.

The default option is to generate only a printed report. If you are using report criteria for the SLAMS Data Generation Report that you saved previously, your saved specifications for report options are displayed instead of the default.

The work file format for this report is given in Volume AQ1. AIRS input transactions are described in Volume AQ2.

```
11/19/90                AIRS Air Quality Subsystem                AMP275A
                            Report Options

Report Name:  SLAMS DATA GENERATION                 Criteria Name:

                        Enter X for desired Option(s)

              Choose at least one output

              X 1.  Generate a printed report
              _ 2.  Generate a workfile (Enter name below):
                    KUFASWD . _______ . _______ . _______ . _______
              _ 3.  Generate AIRS input transactions (Enter name & action code)
                    Name : BTWASWD . _______ . _______ . _______ . _______
                    Action code (D,I,M): _




   PF3=end      PF4=main menu      PF5=terminate      PF9=save criteria
```

Figure 5-22. Report Options Screen for the SLAMS Data Generation Report

Instructions

You must choose at least one of the following report options or you may choose all of them:

option 1 generate a printed report
option 2 generate a work file
option 3 generate a file of AIRS input transactions

If you choose a work file, you must specify a dataset name for it; otherwise, you may not specify a dataset name.

If you choose a transaction file, you must specify a dataset name for it and an action code; otherwise, you may not specify a dataset name or an action code. Valid action codes are D (delete), I (insert), and M (modify).

Read Section 3.6.1 if you are not familiar with how to use the report options screen. Section 3.6.2 describes the characteristics of valid dataset names.

Error Messages

The error messages listed below (in alphabetical order) are displayed at the top of the report options screen if you make a mistake in specifying report options.

ACTION CODE IS INVALID
Valid codes are D (delete), I (insert), and M (modify).

ACTION CODE IS NOT ALLOWED
If transaction file output is not selected, action code may not be entered.

ACTION CODE IS REQUIRED
If transaction file output is selected, action code must be specified.

DATASET NAME IS INVALID
The dataset name entered for the work file or transaction file is not valid. Refer to Section 3.6.2 of this volume for a description of dataset naming conventions.

DATASET NAME NOT ALLOWED WITHOUT SPECIFYING OPTION 2
If work file output is not selected, a dataset name must not be entered.

DATASET NAME NOT ALLOWED WITHOUT SPECIFYING OPTION 3
If transaction file output is not selected, a dataset name must not be entered.

DUPLICATE DATASET NAMES NOT ALLOWED
Unique dataset names must be provided for the transaction file output and work file output.

PLEASE CHOOSE AT LEAST ONE OUTPUT (OPTION 1, 2, OR 3)

At least one of the three possible types of output must be selected.

PLEASE ENTER A VALID DATASET NAME

If a work file or transaction file is selected, a dataset name must be specified for it.

PLEASE ENTER BLANK OR 'X'

Only blank and X are valid entries for specifying report options.

PLEASE USE A VALID PF-KEY

A PF key not defined for this screen was used.

5.7.3 Data Selection Options

You may select which monitors are included in the SLAMS Data Generation Report using the select criteria screen. A sample screen is shown in Figure 5-23. The leftmost portion of the screen is shown at the top of the figure and the rightmost portion is shown at the bottom.

There are three groups of selection criteria. The first group consists of "geographic" criteria. Only certain combinations of these fields are allowed. You may use any one of the following combinations of geographic selection fields:

state (code or abbreviation)
state + county
state + county + site
state + reporting organization
state + city
state + AQCR
AQCR
urban area
MSA
CMSA
MSA-rep
CMSA-rep
status area

The second group of selection criteria consists of the following optional fields:

interval (1, 7, and C only)
monitor type (all valid types)

The third group of selection criteria consists of the following required fields:

parameter (criteria pollutants only)
begin year
end year

In addition to the monitor type codes listed in Volume GC2 of the AIRS User's Guide, you may use the code "B" to select both NAMS and SLAMS monitors and code "P" to select PAMS monitors.

In a given line on the select criteria screen, you must specify all the fields in the third group of selection criteria. In addition, you may specify one of the geographic criteria in the first group and/or interval. Specify begin and end years as two digits (YY). Valid years are 1981 through any valid year. Only criteria pollutants may be specified in the parameter field, and only certain interval codes are allowed for each pollutant, as follows:

```
09/30/92                    AIRS Air Quality Subsystem                    AMP275B
                                 Select Criteria                          Page 1/2

Report Name:  SLAMS DATA GENERATION                          Criteria Name:

                        PARA-                  BEGIN  END   MON                  REP  URBAN
  ST  CNTY  SITE        METER    METH INT      YEAR   YEAR  TYPE  CITY    AQCR   ORG  AREA
  __  ___   ____        _____    ____ _        ____   ____  ____  ____    ____   ____ ____
  __  ___   ____        _____    ____ _        ____   ____  ____  ____    ____   ____ ____
  __  ___   ____        _____    ____ _        ____   ____  ____  ____    ____   ____ ____
  __  ___   ____        _____    ____ _        ____   ____  ____  ____    ____   ____ ____
  __  ___   ____        _____    ____ _        ____   ____  ____  ____    ____   ____ ____
  __  ___   ____        _____    ____ _        ____   ____  ____  ____    ____   ____ ____
  __  ___   ____        _____    ____ _        ____   ____  ____  ____    ____   ____ ____
  __  ___   ____        _____    ____ _        ____   ____  ____  ____    ____   ____ ____
  __  ___   ____        _____    ____ _        ____   ____  ____  ____    ____   ____ ____
  __  ___   ____        _____    ____ _        ____   ____  ____  ____    ____   ____ ____

PF1=help    PF2=duplicate   PF3=end  PF4=main menu   PF5=terminate   PF6=rpt options
PF7=back    PF8=more        PF9=save criteria       PF10=left       PF11=right
```

```
09/30/92                    AIRS Air Quality Subsystem                    AMP275B
                                 Select Criteria                          Page 2/2

Report Name:  SLAMS DATA GENERATION                          Criteria Name:

                        MSA    CMSA   STATUS
  MSA   CMSA            REP    REP    AREA
  ____  ____            ____   ____   ____
  ____  ____            ____   ____   ____
  ____  ____            ____   ____   ____
  ____  ____            ____   ____   ____
  ____  ____            ____   ____   ____
  ____  ____            ____   ____   ____
  ____  ____            ____   ____   ____
  ____  ____            ____   ____   ____
  ____  ____            ____   ____   ____
  ____  ____            ____   ____   ____

PF1=help    PF2=duplicate   PF3=end  PF4=main menu   PF5=terminate   PF6=rpt options
PF7=back    PF8=more        PF9=save criteria       PF10=left       PF11=right
```

Figure 5-23. Select Criteria Screen for the SLAMS Data Generation Report

Pollutant	Parameter	Allowed Intervals
TSP	11101	7
Pb	12128	7, C
CO	42101	1
SO_2	42401	1, 7
NO_2	42602	1, 7
O_3	44201	1
PM-10	81102	1, 7

You may not specify selection based on method or on any time period less than a year. Although you may select on AQCR and monitor-type, they do not appear in the report. Both NAMS and SLAMS monitors (types 1 and 2) are selected automatically for this report if a 'B' is entered for monitor type. If monitor-type is left blank, records with monitor types 1, 2, and 3 are selected.

Online Help is available for all of the selection criteria fields except BEGIN-DATE and END-DATE. The Help facility allows you to browse through tables of values, with descriptions, for the codes you need to enter, and then to select the value that you wish to use. The Help facility is described in detail in Section 3.6.4.

Instructions

Enter selection criteria into the available fields on the select criteria screen, or alter the previously saved criteria displayed on the screen if you wish. You must specify criteria in at least one line on the screen. Press the ENTER key when you have finished entering or altering the criteria.

Read Section 3.6.3 if you are not familiar with how to use the select criteria screen. Refer to VOlume GC2 of the AIRS User's Guide for lists of valid codes to use for selection criteria.

Press PF1=help for general information about the select criteria process. For Field-specific Help, enter a "?" in the first position of any field (except BEGIN-DATE or END-DATE).

Error Messages

The error messages listed below (in alphabetical order) are displayed at the top of the select criteria screen if you make a mistake in specifying selection criteria. See Volume GC4 of the AIRS User's Guide for explanations of the error messages that you may encounter while using Field-specific Help.

A PARAMETER IS REQUIRED FOR STATUS-AREA CODE
If status area is entered, parameter must be entered.

A STATE IS REQUIRED FOR CITY
If city is entered, state must be entered.

A STATE IS REQUIRED FOR COUNTY
If county is entered, state must be entered.

A STATE IS REQUIRED FOR REPORT-ORG
If reporting organization is entered, state must be entered.

BEGIN-END YEAR RANGE INCLUDES ARCHIVED YEAR(S)
The requested years must not include any years for which data has been archived (removed from raw data files).

BEGIN-YEAR IS ARCHIVED
Begin year must not be a year for which data has been archived (removed from raw data files).

BEGIN-YEAR IS < 81 OR > CURRENT YEAR
Begin year must be in the range 81 through current year.

END-YEAR IS ARCHIVED
End year must not be a year for which data has been archived (removed from raw data files).

ENTER SELECTION CRITERIA OR USE A PF-KEY TO ESCAPE
ENTER was pressed without any selection criteria specified. Either specify criteria and press ENTER or use a valid PF key to transfer to another screen or terminate the AIRS session.

PARAMETER CODE IS REQUIRED FOR THIS REPORT
Parameter must be entered as a select criterion.

PF2 INVALID - MAXIMUM NUMBER OF SELECTION CRITERIA HAS BEEN SPECIFIED
Do not press PF2 when the last select criteria screen is full.

PF2 INVALID - THERE ARE NO SELECTION CRITERIA TO DUPLICATE
Do not press PF2 without entering at least one selection criterion.

PF7 INVALID - THIS IS THE FIRST SELECT CRITERIA SCREEN
Do not press PF7 from the first select criteria screen; it is used to page backward.

PF8 INVALID - THIS IS THE FINAL SELECT CRITERIA SCREEN
Do not press PF8 from the last select criteria screen; it is used to page forward.

PF10 INVALID - THIS IS THE LEFT-MOST SELECT CRITERIA SCREEN
Do not press PF10 while the leftmost select criteria screen is displayed.

PF11 INVALID - THIS IS THE RIGHT-MOST SELECT CRITERIA SCREEN
Do not press PF11 while the rightmost select criteria screen is displayed.

PLEASE DO NOT ENTER BOTH STATE AND CMSA CODE
Do not enter both state and CMSA code.

PLEASE DO NOT ENTER BOTH STATE AND CMSA-REP CODE
Do not enter both state and CMSA-rep code.

PLEASE DO NOT ENTER BOTH STATE AND MSA CODE
Do not enter both state and MSA code.

PLEASE DO NOT ENTER BOTH STATE AND MSA-REP CODE
Do not enter both state and MSA-rep code.

PLEASE DO NOT ENTER BOTH STATE AND STATUS-AREA CODE
Do not enter both state and status area code.

PLEASE DO NOT ENTER BOTH STATE AND URBAN-AREA CODE
Do not enter both state and urban area as select criteria.

PLEASE ENTER A NUMERIC BEGIN-YEAR
The begin year entered must be numeric.

PLEASE ENTER A NUMERIC END-YEAR
The end year entered must be numeric.

PLEASE ENTER A VALID AQCR CODE
The AQCR code is not valid.

PLEASE ENTER A VALID CITY CODE
The combination of city and state codes is not valid.

PLEASE ENTER A VALID COUNTY CODE
The combination of county and state codes is not valid.

PLEASE ENTER A VALID CMSA CODE
The CMSA code entered must be in the AIRS GEO-COMMON File.

PLEASE ENTER A VALID CMSA-REP CODE
The CMSA-rep code entered must be in the AIRS GEO-COMMON File.

PLEASE ENTER A VALID INTERVAL CODE (1, 7, OR C)
The interval entered must be 1, 7, or C.

PLEASE ENTER A VALID INTERVAL FOR THE PARAMETER CODE
The combination of interval and parameter codes is not valid.

PLEASE ENTER A VALID MONITOR-TYPE CODE
The monitor type code is not valid. Use a code listed in Volume GC2, or use "B" to select both NAMS and SLAMS monitor types or "P" to select PAMS monitor types.

PLEASE ENTER A VALID MSA CODE
The MSA code entered must be in the AIRS GEO-COMMON File.

PLEASE ENTER A VALID MSA-REP CODE

The MSA-rep code entered must be in the AIRS GEO-COMMON File.

PLEASE ENTER A VALID PARAMETER CODE (CRITERIA POLLUTANTS ONLY)

The parameter code must specify one of the criteria pollutants: 11101 (TSP), 12128 (Pb), 42101 (CO), 42401 (SO_2), 42602 (NO_2), 44201 (O_3), or 81102 (PM-10).

PLEASE ENTER A VALID REPORT-ORG

The combination of reporting organization and state is not valid.

PLEASE ENTER A VALID SITE CODE

The combination of state, county, and site does not match any existing site-ID in the Site file.

PLEASE ENTER A VALID STATE ABBREVIATION

The state abbreviation is not valid.

PLEASE ENTER A VALID STATE CODE

The state code is not valid.

PLEASE ENTER A VALID STATUS-AREA CODE FOR PARAMETER

The combination of status area and parameter entered must be in the AIRS GEO-COMMON File.

PLEASE ENTER A VALID URBAN-AREA CODE

The urban area code is not valid.

PLEASE ENTER AN END-YEAR THAT IS GREATER THAN OR EQUAL TO THE BEGIN-YEAR

The end year must be greater than or equal to the begin year.

PLEASE ENTER ONLY ONE: AQCR, URBAN-AREA, CITY, REPORT-ORG, COUNTY, MSA, CMSA, MSA-REP, CMSA-REP, OR STATUS-AREA

Only the combinations of geographic selection criteria listed at the beginning of this section are valid.

PLEASE FILL ALL LINES BEFORE GOING ON TO THE NEXT SCREEN

PF8 is valid only when the current screen is full or there are more criteria on a subsequent screen.

PLEASE USE A VALID PF-KEY

A PF key not defined for this screen was used.

REPORT BEGINNING YEAR IS REQUIRED FOR THIS REPORT

Begin year must be entered.

REPORT ENDING YEAR IS REQUIRED FOR THIS REPORT
End year must be entered.

STATUS-AREA CODE NOT ALLOWED WITH THIS PARAMETER
A status area was entered for a parameter that does not allow entry of a status area.

THE COUNTY CODE IS REQUIRED WITH THE SITE CODE
If site is entered, county must be entered.

5.7.4 Data Sorting Options

The SLAMS Data Generation Report has a fixed sort order that cannot be changed. Therefore, there is no sort criteria screen for this report. The sort order is:

parameter
year
state
county
site
POC

Instructions

None

5.8 SLAMS Data Retrieval Report (AMP280)

5.8.1 Description

The SLAMS Data Retrieval Report presents data selected from the AQ SLAMS file. The format of this report is identical to the SLAMS Data Generation Report (AMP275). While the Generation Report shows SLAMS summary values computed from raw data, this Retrieval Report shows values in the SLAMS file. Samples of the report formats are shown in Figure 5-24; each pollutant has its own format. Each report format contains the AIRS monitor-ID, state, county, street address, year, reporting organization, method(s), units, and whether or not the data includes exceptional event data. All formats except the one for lead contain frequency information, listing the number of values that fall within eight pollutant-specific ranges (there are nine ranges for PM-10). Each page of the report lists the pollutant name, year, and state, and a new page is started when any of these changes. The information in the report body varies among the pollutants.

A one-page processing summary report lists the number of records processed and indicates that the report program finished normally.

A Precision-Accuracy Report may be generated in conjunction with this report. (See Section 5.3.) It includes data for all the reporting organizations and years in the SLAMS Data Retrieval Report.

93-09-09 EPA AEROMETRIC INFORMATION RETRIEVAL SYSTEM (AIRS) PAGE 1
AMP280 AIR QUALITY SUBSYSTEM
SLAMS DATA RETRIEVAL REPORT

** SUSPENDED PARTICULATE UG/CU.METER 1990 NEW YORK **

SITE-ID PARAMETER POC / STREET ADDRESS / CITY	EXCEPTIONAL EVENTS DATA	ANNUAL ARITH. MEAN	SAMPLING FREQS. 1 2 3 4	24-HOUR OBSERVATIONS: NUMBER OBSERVATIONS 1 2 3 4	# ADDITIONAL SAMP. DAYS 1 2 3 4	DATE SAMPLE FREQUENCY VALID 1 2 3 4	FREQUENCY OF 24-HOUR CONCENTRATIONS: VALUE RANGE	NUMBER VALUES
********** ALBANY CO **********								
36-001-0003 11101 1 PORT OF ALBANY, GOODYEAR WAREHOUSE ALBANY	NO	537	6	27		01/05	0-50 51-100 101-150	16 10 1
REPORT ORG: 001 - NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION METHOD(S): 091 - HI-VOL GRAVIMETRIC							151-200 201-250 251-300 301-400 > 400	0 0 0 0 0
EXCEEDANCES DATES								
36-001-3002 11101 1 26 REMSEN STREET COHOES	NO	37?	6	26		01/05	0-50 51-100 101-150	20 6 0
REPORT ORG: 001 - NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION METHOD(S): 091 - HI-VOL GRAVIMETRIC							151-200 201-250 251-300 301-400 > 400	0 0 0 0 0
EXCEEDANCES DATES								
********** BROOME CO **********								
36-007-0004 11101 1 1001 PARK ST.JOHNSON MEMORIAL LIBRARY ENDICOTT	NO	39?	6	26		01/05	0-50 51-100 101-150	19 7 0
REPORT ORG: 001 - NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION METHOD(S): 091 - HI-VOL GRAVIMETRIC							151-200 201-250 251-300 301-400 > 400	0 0 0 0 0
EXCEEDANCES DATES								

NOTE: A MEAN VALUE FOLLOWED BY '?' WAS COMPUTED FROM OBSERVATIONS THAT DID NOT MEET SUMMARY CRITERIA

Figure 5-24. SLAMS Data Retrieval Report - Suspended Particulate (1 of 7)

93-09-09 EPA AEROMETRIC INFORMATION RETRIEVAL SYSTEM (AIRS) PAGE 1
AMP280 AIR QUALITY SUBSYSTEM
SLAMS DATA RETRIEVAL REPORT

** LEAD UG/CU. METER 1990 MASSACHUSETTS **

SITE-ID / STREET ADDRESS / CITY	PARAMETER	POC	EXCEPTIONAL EVENTS DATA	SAMPLING INTERVAL	1ST QUARTER NUMBER OBS	1ST QUARTER ARITH MEAN	2ND QUARTER NUMBER OBS	2ND QUARTER ARITH MEAN	3RD QUARTER NUMBER OBS	3RD QUARTER ARITH MEAN	4TH QUARTER NUMBER OBS	4TH QUARTER ARITH MEAN
********** HAMPDEN CO **********												
25-013-0011 59 HOWARD STREET SPRINGFIELD	12128	2		7	15	.04	15	.04	15	.03	15	.02
REPORT ORG: 001 - MASS DEPT ENVIRONMENTAL PROTECTION-DIV AIR QUALITY CONTRO METHOD(S): 092 - HI-VOL ATOMIC ABSORPTION												
25-013-2007 EAST COLUMBUS AVENUE SPRINGFIELD	12128	1		7	15	.04	15	.03	14	.03	16	.06
REPORT ORG: 001 - MASS DEPT ENVIRONMENTAL PROTECTION-DIV AIR QUALITY CONTRO METHOD(S): 092 - HI-VOL ATOMIC ABSORPTION												
********** SUFFOLK CO **********												
25-025-0002 KENMORE SQUARE, 590 COMMONWEALTH AVENUE BOSTON	12128	1		7	13	.04	14	.04	14	.05	16	.05
REPORT ORG: 001 - MASS DEPT ENVIRONMENTAL PROTECTION-DIV AIR QUALITY CONTRO METHOD(S): 092 - HI-VOL ATOMIC ABSORPTION												
25-025-0027 ONE CITY SQUARE, CHARLESTOWN BOSTON	12128	2		7	15	.04	15	.03	15	.03	16	.02
REPORT ORG: 001 - MASS DEPT ENVIRONMENTAL PROTECTION-DIV AIR QUALITY CONTRO METHOD(S): 092 - HI-VOL ATOMIC ABSORPTION												

Figure 5-24. SLAMS Data Retrieval Report - Lead (2 of 7)

93-09-09 EPA AEROMETRIC INFORMATION RETRIEVAL SYSTEM (AIRS) PAGE 1
AMP280 AIR QUALITY SUBSYSTEM
SLAMS DATA RETRIEVAL REPORT

** CARBON MONOXIDE PPM 1990 MASSACHUSETTS **

SITE-ID PARAMETER POC STREET ADDRESS CITY	EXCEPTIONAL EVENTS DATA	1-HOUR OBSERVATIONS NUMBER OBS	1ST MAX DATE-HR	2ND MAX DATE-HR	# OBS > 35	8-HOUR AVERAGES 1ST MAX DATE-HR	2ND MAX DATE-HR	# AVG > 9	FREQUENCY OF 8-HOUR AVERAGE CONCENTRATIONS VALUE RANGE	NUMBER VALUES
********** HAMPDEN CO **********										
25-013-0016 42101 1 LIBERTY STREET PARKING LOT SPRINGFIELD	NO	8605	14.0 01/02-11	9.3 11/16-07	0	7.0 11/02-02	6.4 02/08-00	0	00-04 05-08 09-12 13-16 17-20 21-24 25-28 > 28	8553 70 0 0 0 0 0 0
REPORT ORG: 001 - MASS DEPT ENVIRONMENTAL PROTECTION-DIV AIR QUALITY CONTRO METHOD(S): 051 - INSTSRUMENTAL NON DISPERSIVE INFRA-RED										
25-013-2007 42101 1 EAST COLUMBUS AVENUE SPRINGFIELD	NO	8505	9.0 01/25-15	9.0 02/07-17	0	7.3 02/07-23	7.0 01/25-15	0	00-04 05-08 09-12 13-16 17-20 21-24 25-28 > 28	8378 131 0 0 0 0 0 0
REPORT ORG: 001 - MASS DEPT ENVIRONMENTAL PROTECTION-DIV AIR QUALITY CONTRO METHOD(S): 041 - INSTRUMENTAL NON DISPERSIVE INFRA-RED										
********** MIDDLESEX CO **********										
25-017-0007 42101 1 OLD CITY HALL, MERRIMACK STREET LOWELL	NO	8084	15.0 01/25-07	14.0 01/25-06	0	9.0 01/25-09	7.3 01/16-22	0	00-04 05-08 09-12 13-16 17-20 21-24 25-28 > 28	8026 77 2 0 0 0 0 0
REPORT ORG: 001 - MASS DEPT ENVIRONMENTAL PROTECTION-DIV AIR QUALITY CONTRO METHOD(S): 041 - INSTRUMENTAL NON DISPERSIVE INFRA-RED										
********** SUFFOLK CO **********										
25-025-0002 42101 1 KENMORE SQUARE, 590 COMMONWEALTH AVENUE BOSTON	NO	7842	11.0 01/16-19	11.0 01/16-20	0	7.4 01/16-23	6.1 01/25-18	0	00-04 05-08 09-12 13-16 17-20 21-24 25-28 > 28	7799 44 0 0 0 0 0 0
REPORT ORG: 001 - MASS DEPT ENVIRONMENTAL PROTECTION-DIV AIR QUALITY CONTRO METHOD(S): 041 - INSTRUMENTAL NON DISPERSIVE INFRA-RED										

Figure 5-24. SLAMS Data Retrieval Report - Carbon Monoxide (3 of 7)

93-09-09 EPA AEROMETRIC INFORMATION RETRIEVAL SYSTEM (AIRS) PAGE 1
AMP280 AIR QUALITY SUBSYSTEM
SLAMS DATA RETRIEVAL REPORT

** SULFUR DIOXIDE PPM 1990 MASSACHUSETTS **

SITE-ID / STREET ADDRESS / CITY	PARAMETER	POC	EXCEPT. EVENTS DATA	ANNUAL ARITH MEAN	NUMBER 1-HOUR OBS	NUMBER 24-HOUR OBS	24-HOUR VALUES 1ST MAX DATE	24-HOUR VALUES 2ND MAX DATE	24-HOUR VALUES NUMBER > .14	3-HOUR AVERAGES 1ST MAX DATE-HR	3-HOUR AVERAGES 2ND MAX DATE-HR	3-HOUR AVERAGES NUMBER > .50	FREQUENCY OF 24-HOUR CONCENTRATIONS VALUE RANGE	FREQUENCY OF 24-HOUR CONCENTRATIONS NUMBER VALUES
********** BRISTOL CO **********														
25-005-1004 GLOBE STREET FALL RIVER	42401	1	NO	.008	8512		.038 10/29	.033 11/08	0	.118 02/25-20	.108 10/29-17	0	.00-.04 .05-.08 .09-.12 .13-.16 .17-.20 .21-.24 .25-.28 > .28	355 0 0 0 0 0 0 0
REPORT ORG: 001 - MASS DEPT ENVIRONMENTAL PROTECTION-DIV AIR QUALITY CONTRO METHOD(S): 009 - INSTRUMENTAL PULSED FLUORESCENT														
********** ESSEX CO **********														
25-009-0005 HIGH STREET, STORROW PARK LAWRENCE	42401	1	NO	.009	8374		.038 01/02	.035 01/16	0	.077 01/23-08	.071 02/02-02	0	.00-.04 .05-.08 .09-.12 .13-.16 .17-.20 .21-.24 .25-.28 > .28	349 0 0 0 0 0 0 0
REPORT ORG: 001 - MASS DEPT ENVIRONMENTAL PROTECTION-DIV AIR QUALITY CONTRO METHOD(S): 009 - INSTRUMENTAL PULSED FLUORESCENT														
********** HAMPDEN CO **********														
25-013-0016 LIBERTY STREET PARKING LOT SPRINGFIELD	42401	1	NO	.010	8684		.045 01/08	.044 01/03	0	.076 01/04-08	.063 01/03-08	0	.00-.04 .05-.08 .09-.12 .13-.16 .17-.20 .21-.24 .25-.28 > .28	364 1 0 0 0 0 0 0
REPORT ORG: 001 - MASS DEPT ENVIRONMENTAL PROTECTION-DIV AIR QUALITY CONTRO METHOD(S): 009 - INSTRUMENTAL PULSED FLUORESCENT														
25-013-1009 LONGHILL STREET SUBSTATION SPRINGFIELD	42401	1	NO	.009	7626		.032 01/25	.027 03/09	0	.045 01/09-17	.044 03/09-08	0	.00-.04 .05-.08 .09-.12 .13-.16 .17-.20 .21-.24 .25-.28 > .28	313 0 0 0 0 0 0 0
REPORT ORG: 001 - MASS DEPT ENVIRONMENTAL PROTECTION-DIV AIR QUALITY CONTRO METHOD(S): 009 - INSTRUMENTAL PULSED FLUORESCENT 060 - INSTRUMENTAL PULSED FLUORESCENT														

Figure 5-24. SLAMS Data Retrieval Repor - Sulfur Dioxide (4 of 7)

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AMP280 AIR QUALITY SUBSYSTEM
SLAMS DATA RETRIEVAL REPORT

** NITROGEN DIOXIDE PPM 1990 MASSACHUSETTS **

SITE-ID PARAMETER POC STREET ADDRESS CITY	EXCEPTIONAL EVENTS DATA	ANNUAL ARITH. MEAN	-- 24-HOUR OBSERVATIONS -- NUMBER OBS	1ST MAX DATE	2ND MAX DATE	--- 1-HOUR OBSERVATIONS -- NUMBER OBS	1ST MAX DATE-HR	2ND MAX DATE-HR	FREQUENCY OF 1-HOUR CONCENTRATIONS VALUE RANGE	NUMBER VALUES
********** HAMPDEN CO **********										
25-013-0016 42602 1 LIBERTY STREET PARKING LOT SPRINGFIELD	NO	.026				8616	.104 03/15-20	.100 05/09-18	.00-.04 .05-.08 .09-.12	7897 707 12
REPORT ORG: 001 - MASS DEPT ENVIRONMENTAL PROTECTION-DIV AIR QUALITY CONTRO METHOD(S): 042 - INSTRUMENTAL CHEMILUMINESCENCE									.13-.16 .17-.20 .21-.24 .25-.28 > .28	0 0 0 0 0
********** SUFFOLK CO **********										
25-025-0021 42602 1 340 BREMAN STREET, EAST BOSTON BOSTON	NO	.032				8568	.250 02/27-11	.110 09/28-08	.00-.04 .05-.08 .09-.12	7194 1362 11
REPORT ORG: 001 - MASS DEPT ENVIRONMENTAL PROTECTION-DIV AIR QUALITY CONTRO METHOD(S): 042 - INSTRUMENTAL CHEMILUMINESCENCE									.13-.16 .17-.20 .21-.24 .25-.28 > .28	0 0 0 1 0
25-025-1003 42602 1 POWDER HORN HILL CHELSEA	NO	.026				8583	.099 01/17-12	.096 11/02-12	.00-.04 .05-.08 .09-.12	7700 877 6
REPORT ORG: 001 - MASS DEPT ENVIRONMENTAL PROTECTION-DIV AIR QUALITY CONTRO METHOD(S): 042 - INSTRUMENTAL CHEMILUMINESCENCE									.13-.16 .17-.20 .21-.24 .25-.28 > .28	0 0 0 0 0
********** WORCESTER CO **********										
25-027-0020 42602 1 CENTRAL STREET FIRE STATION, CENTRAL ST. WORCESTER	NO	.022				8227	.088 09/11-06	.078 11/02-19	.00-.04 .05-.08 .09-.12	7913 313 1
REPORT ORG: 001 - MASS DEPT ENVIRONMENTAL PROTECTION-DIV AIR QUALITY CONTRO METHOD(S): 042 - INSTRUMENTAL CHEMILUMINESCENCE 014 - INSTRUMENTAL CHEMILUMINESCENCE									.13-.16 .17-.20 .21-.24 .25-.28 > .28	0 0 0 0 0

Figure 5-24. SLAMS Data Retrieval Report - Nitrogen Dioxide (5 of 7)

93-09-09 EPA AEROMETRIC INFORMATION RETRIEVAL SYSTEM (AIRS) PAGE 1
AMP280 AIR QUALITY SUBSYSTEM
SLAMS DATA RETRIEVAL REPORT

** OZONE PPM 1990 MASSACHUSETTS **

SITE-ID PARAMETER POC STREET ADDRESS CITY	EXCEPTIONAL EVENTS DATA	NUMBER 1-HOUR OBS	DAILY MAXIMUM OF 1-HOUR OBSERVATIONS NUMBER OF EXCURSIONS	1ST MAX DATE-HR	2ND MAX DATE-HR	3RD MAX DATE-HR	4TH MAX DATE-HR	FREQUENCY OF DAILY MAXIMUM CONCENTRATIONS VALUE RANGE	NUMBER VALUES
********** BERKSHIRE CO **********									
25-003-4002 44201 1 MT. GREYLOCK SUMMIT ADAMS	NO	3429	1	.155 07/19-20	.105 06/17-03	.101 07/18-20	.097 06/15-20	.00-.04 .05-.08 .09-.12 .13-.16 .17-.20 .21-.24 .25-.28 > .28	48 82 10 1 0 0 0 0
REPORT ORG: 001 - MASS DEPT ENVIRONMENTAL PROTECTION-DIV AIR QUALITY CONTRO METHOD(S): 019 - INSTRUMENTAL ULTRA VIOLET 053 - INSTRUMENTAL ULTRA VIOLET									
********** BRISTOL CO **********									
25-005-1001 44201 1 NORTH EASTON POST OFFICE, 300 MAIN STREE EASTON	NO	4914	0	.117 07/20-15	.115 07/04-17	.115 08/17-11	.105 07/18-19	.00-.04 .05-.08 .09-.12 .13-.16 .17-.20 .21-.24 .25-.28 > .28	95 95 14 0 0 0 0 0
REPORT ORG: 001 - MASS DEPT ENVIRONMENTAL PROTECTION-DIV AIR QUALITY CONTRO METHOD(S): 053 - INSTRUMENTAL ULTRA VIOLET									
25-005-1002 44201 1 LEROY WOOD SCHOOL FAIRHAVEN	NO	5057	2	.132 07/19-17	.126 08/04-14	.117 07/17-16	.114 09/02-16	.00-.04 .05-.08 .09-.12 .13-.16 .17-.20 .21-.24 .25-.28 > .28	86 102 19 2 0 0 0 0
REPORT ORG: 001 - MASS DEPT ENVIRONMENTAL PROTECTION-DIV AIR QUALITY CONTRO METHOD(S): 047 - INSTRUMENTAL ULTRA VIOLET									
********** ESSEX CO **********									
25-009-0005 44201 1 HIGH STREET, STORROW PARK LAWRENCE	NO	4697	0	.104 08/18-21	.091 08/13-12	.084 07/18-23	.084 08/04-15	.00-.04 .05-.08 .09-.12 .13-.16 .17-.20 .21-.24 .25-.28 > .28	119 75 2 0 0 0 0 0
REPORT ORG: 001 - MASS DEPT ENVIRONMENTAL PROTECTION-DIV AIR QUALITY CONTRO METHOD(S): 053 - INSTRUMENTAL ULTRA VIOLET									

Figure 5-24. SLAMS Data Retrieval Report - Ozone (6 of 7)

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AMP280 AIR QUALITY SUBSYSTEM
SLAMS DATA RETRIEVAL REPORT

** PM10 UG/CU.METER 1990 MASSACHUSETTS **

SITE-ID / STREET ADDRESS / CITY	PARAMETER	POC	EXCEPTIONAL EVENTS DATA	ANNUAL ARITH. MEAN	SAMPLING FREQS. 1 2 3 4	NUMBER OBSERVATIONS 1 2 3 4	# ADDITIONAL SAMP. DAYS 1 2 3 4	DATE SAMPLE FREQUENCY VALID 1 2 3 4	FREQUENCY OF 24-HOUR CONCENTRATIONS VALUE RANGE	NUMBER VALUES
********** BRISTOL CO **********										
25-005-3001 CENTRAL FIRE STATION, 165 BEDFORD STREET FALL RIVER	81102	1	NO	20	6	58		01/05	0-25 26-50 51-75 76-100 101-125 126-150 151-175 176-200 > 200	44 13 1 0 0 0 0 0 0
				REPORT ORG: 001 - MASS DEPT ENVIRONMENTAL PROTECTION-DIV AIR QUALITY CONTRO METHOD(S): 063 - HI-VOL-SA/GMW-1200 GRAVIMETRIC					
				EXCEEDANCES DATES						
********** HAMPDEN CO **********										
25-013-0011 59 HOWARD STREET SPRINGFIELD	81102	2	NO	24	6	59	1	01/17	0-25 26-50 51-75 76-100 101-125 126-150 151-175 176-200 > 200	39 19 0 1 0 0 0 0 0
				REPORT ORG: 001 - MASS DEPT ENVIRONMENTAL PROTECTION-DIV AIR QUALITY CONTRO METHOD(S): 064 - HI-VOL-SA/GM-W-321-B GRAVIMETRIC					
				EXCEEDANCES DATES						
25-013-2007 EAST COLUMBUS AVENUE SPRINGFIELD	81102	1	NO	29	6	60	2	01/05	0-25 26-50 51-75 76-100 101-125 126-150 151-175 176-200 > 200	30 26 3 1 0 0 0 0 0
				REPORT ORG: 001 - MASS DEPT ENVIRONMENTAL PROTECTION-DIV AIR QUALITY CONTRO METHOD(S): 063 - HI-VOL-SA/GMW-1200 GRAVIMETRIC					
				EXCEEDANCES DATES						

Figure 5-24. SLAMS Data Retrieval Report - PM-10 (7 of 7)

5.8.2 Report Generation Options

The options available for the SLAMS Data Retrieval Report have to do with the output medium: printed report, work file, or a file of AIRS transactions. The report options screen, shown in Figure 5-25, allows you to select the type(s) of output you want.

The default option is to generate only a printed report. If you are using report criteria for the SLAMS Data Retrieval Report that you saved previously, your saved specifications for report options are displayed instead of the default.

The work file format for this report is given in Volume AQ1, and the formats of AIRS input transactions for SLAMS data are described in Volume AQ2 of the AIRS User's Guide.

```
11/19/90                AIRS Air Quality Subsystem                AMP280A
                              Report Options

Report Name:  SLAMS DATA RETRIEVAL                  Criteria Name:

                        Enter X for desired Option(s)

              Choose at least one output

              X 1.  Generate a printed report
              _ 2.  Generate a workfile (Enter name below):
                    KUFASUD . _______ . _______ . _______ . _______

              Choose one report type
              _ 3.  Yearly data                   _ 4.  Quarterly data

              Choose one retrieval option
              _ 5.  Include all data & flag data that fails Summary Criteria
              _ 6.  Include only data that meets Summary Criteria

              Choose desired report option
              _ 7.  Generate the Precision-Accuracy Report

  PF3=end      PF4=main menu      PF5=terminate      PF9=save criteria
```

Figure 5-25. Report Options Screen for the SLAMS Data Retrieval Report

Instructions

You may choose any or all of the following report options:

option 1	generate a printed report
option 2	generate a work file
option 3	generate a file of AIRS input transactions
option 4	generate a printed Precision-Accuracy Report

You must choose at least one of the first three options.

If you choose a work file or AIRS input transactions file, you must specify a dataset name for the file; otherwise, you may not specify a dataset name. If you choose AIRS transactions, you must specify an action code. Valid action codes are D (delete), I (insert), and M (modify).

Read Section 3.6.1 if you are not familiar with how to use the report options screen. Section 3.6.2 describes the characteristics of valid dataset names.

Error Messages

The error messages listed below (in alphabetical order) are displayed at the top of the report options screen if you make a mistake in specifying report options.

ACTION CODE IS INVALID
Valid codes are D (delete), I (insert), and M (modify).

ACTION CODE IS NOT ALLOWED
If transaction file output is not selected, action code must not be entered.

ACTION CODE IS REQUIRED
If transaction file output is selected, action code must be provided. Valid codes are D (delete), I (insert), and M (modify).

DATASET NAME IS INVALID
The dataset name entered for the work file or transaction file is not valid. Refer to Section 3.6.2 of this volume for a description of dataset naming conventions.

DATASET NAME NOT ALLOWED WITHOUT SPECIFYING OPTION 2
If a work file is not selected as an output, a dataset name must not be entered.

DATASET NAME NOT ALLOWED WITHOUT SPECIFYING OPTION 3
If a transaction file is not selected as an output, a dataset name must not be entered.

DUPLICATE DATASET NAMES NOT ALLOWED
Unique dataset names must be provided for the transaction file output and work file output.

PLEASE CHOOSE AT LEAST ONE OUTPUT (OPTION 1, 2, OR 3)

At least one of the three possible types of output must be selected.

PLEASE ENTER A VALID DATASET NAME

If a work file or transaction file is selected, a dataset name must be specified for it.

PLEASE ENTER BLANK OR 'X'

Only blank and X are valid entries for selecting report options.

PLEASE USE A VALID PF-KEY

A PF key not defined for this screen was used.

5.8.3 Data Selection Options

You may select which monitors are included in the SLAMS Data Retrieval Report using the select criteria screen. A sample screen is shown in Figure 5-26. The leftmost portion of the screen is shown at the top of the figure and the rightmost portion is shown at the bottom.

There are three groups of selection criteria. The first group consists of "geographic" criteria. Only certain combinations of these fields are allowed. You may use any one of the following combinations of geographic selection fields:

state (code or abbreviation)
state + county
state + county + site
state + reporting organization
state + city
state + AQCR
AQCR
urban area
MSA
CMSA
MSA-rep
CMSA-rep
status area

The second group of selection criteria consists of the following optional fields:

parameter (criteria pollutants only)
method
interval (1, 7, and C only)

The third group of selection criteria consists of the following required fields:

begin year
end year

In a given line on the select criteria screen, you must specify both fields in the third group and either parameter or one of the geographic criteria in the first group. You may use any of the criteria in the second group in addition to other criteria. If you specify method, you must also specify parameter.

In addition to the monitor type codes listed in Volume GC2 of the AIRS User's Guide, you may use the code "B" to select both NAMS and SLAMS monitors and code "P" to select PAMS monitors.

Specify begin and end years as two digits (YY format). Valid years are 1981 through any valid year.

```
09/30/92                    AIRS Air Quality Subsystem                    AMP280B
                                Select Criteria                           Page 1/2

Report Name:  SLAMS DATA RETRIEVAL                          Criteria Name:

                                PARA-                  BEGIN   END   MON                REP  URBAN
  ST  CNTY  SITE                METER  METH INT        YEAR    YEAR  TYPE  CITY   AQCR  ORG  AREA
  __  ___   ____                _____  ____ _          ____    ____  ____  _____  ___   ___  ____
  __  ___   ____                _____  ____ _          ____    ____  ____  _____  ___   ___  ____
  __  ___   ____                _____  ____ _          ____    ____  ____  _____  ___   ___  ____
  __  ___   ____                _____  ____ _          ____    ____  ____  _____  ___   ___  ____
  __  ___   ____                _____  ____ _          ____    ____  ____  _____  ___   ___  ____
  __  ___   ____                _____  ____ _          ____    ____  ____  _____  ___   ___  ____
  __  ___   ____                _____  ____ _          ____    ____  ____  _____  ___   ___  ____
  __  ___   ____                _____  ____ _          ____    ____  ____  _____  ___   ___  ____
  __  ___   ____                _____  ____ _          ____    ____  ____  _____  ___   ___  ____
  __  ___   ____                _____  ____ _          ____    ____  ____  _____  ___   ___  ____

PF1=help   PF2=duplicate   PF3=end  PF4=main menu   PF5=terminate   PF6=rpt options
PF7=back   PF8=more        PF9=save criteria        PF10=left       PF11=right
```

```
09/30/92                    AIRS Air Quality Subsystem                    AMP280B
                                Select Criteria                           Page 2/2

Report Name:  SLAMS DATA RETRIEVAL                          Criteria Name:

                          MSA    CMSA   STATUS
  MSA   CMSA              REP    REP    AREA
  ____  ____              ____   ____   ____
  ____  ____              ____   ____   ____
  ____  ____              ____   ____   ____
  ____  ____              ____   ____   ____
  ____  ____              ____   ____   ____
  ____  ____              ____   ____   ____
  ____  ____              ____   ____   ____
  ____  ____              ____   ____   ____
  ____  ____              ____   ____   ____
  ____  ____              ____   ____   ____

PF1=help   PF2=duplicate   PF3=end  PF4=main menu   PF5=terminate   PF6=rpt options
PF7=back   PF8=more        PF9=save criteria        PF10=left       PF11=right
```

Figure 5-26. Select Criteria Screen for the SLAMS Data Retrieval Report

Only criteria pollutants may be specified in the parameter field, and only certain interval codes are allowed for each pollutant, as follows:

Pollutant	Parameter	Allowed Intervals
TSP	11101	7
Pb	12128	7, C
CO	42101	1
SO_2	42401	1, 7
NO_2	42602	1, 7
O_3	44201	1
PM-10	81102	1, 7

You may specify interval without specifying parameter. In that case, you may use any one of the allowed interval codes (1, 7, or C).

You may not specify selection based on monitor type or any time period shorter than a year. Although you may select on AQCR, it does not appear in the report.

Online Help is available for all of the selection criteria fields except BEGIN-DATE and END-DATE. The Help facility allows you to browse through tables of values, with descriptions, for the codes you need to enter, and then to select the value that you wish to use. The Help facility is described in detail in Section 3.6.4.

Instructions

Enter selection criteria into the available fields on the select criteria screen, or alter the previously saved criteria displayed on the screen if you wish. You must specify criteria in at least one line on the screen. Press the ENTER key when you have finished entering or altering the criteria.

Read Section 3.6.3 if you are not familiar with how to use the select criteria screen. Refer to Volume GC2 of the AIRS User's Guide for lists of valid codes to use for selection criteria.

Press PF1=help for general information about the select criteria process. For Field-specific Help, enter a "?" in the first position of any field (except BEGIN-DATE or END-DATE).

Error Messages

The error messages listed below (in alphabetical order) are displayed at the top of the select criteria screen if you make a mistake in specifying selection criteria. See AIRS Users Guide Volume GC4 for explanations of the error messages that you may encounter while using Field-specific Help.

A PARAMETER IS REQUIRED FOR STATUS-AREA CODE

If status area is entered, parameter must be entered.

A STATE IS REQUIRED FOR CITY
If city is entered, state must be entered.

A STATE IS REQUIRED FOR COUNTY
If county is entered, state must be entered.

A STATE IS REQUIRED FOR REPORT-ORG
If reporting organization is entered, state must be entered.

BEGIN-YEAR IS < 81 OR > CURRENT YEAR
Begin year must be in the range 81 through current year.

ENTER SELECTION CRITERIA OR USE A PF-KEY TO ESCAPE
ENTER was pressed without any selection criteria specified. Either specify criteria and press ENTER or use one of the valid PF keys to transfer to another screen or terminate the AIRS session.

PF2 INVALID - MAXIMUM NUMBER OF SELECTION CRITERIA HAS BEEN SPECIFIED
Do not press PF2 when the last select criteria screen is full.

PF2 INVALID - THERE ARE NO SELECTION CRITERIA TO DUPLICATE
Do not press PF2 without entering at least one selection criterion.

PF7 INVALID - THIS IS THE FIRST SELECT CRITERIA SCREEN
Do not press PF7 from the first select criteria screen; it is used to page backward.

PF8 INVALID - THIS IS THE FINAL SELECT CRITERIA SCREEN
Do not press PF8 from the last select criteria screen; it is used to page forward.

PF10 INVALID - THIS IS THE LEFT-MOST SELECT CRITERIA SCREEN
Do not press PF10 while the leftmost select criteria screen is displayed.

PF11 INVALID - THIS IS THE RIGHT-MOST SELECT CRITERIA SCREEN
Do not press PF11 while the rightmost select criteria screen is displayed.

PLEASE DO NOT ENTER BOTH STATE AND CMSA CODE
Do not enter both state and CMSA code.

PLEASE DO NOT ENTER BOTH STATE AND CMSA-REP CODE
Do not enter both state and CMSA-rep code.

PLEASE DO NOT ENTER BOTH STATE AND MSA CODE
Do not enter both state and MSA code.

PLEASE DO NOT ENTER BOTH STATE AND MSA-REP CODE
Do not enter both state and MSA-rep code.

PLEASE DO NOT ENTER BOTH STATE AND STATUS-AREA CODE
Do not enter both state and status area code.

PLEASE DO NOT ENTER BOTH STATE AND URBAN-AREA CODE
Do not enter both state and urban area as select criteria.

PLEASE ENTER A NUMERIC BEGIN-YEAR
The begin year entered must be numeric.

PLEASE ENTER A NUMERIC END-YEAR
The end year entered must be numeric.

PLEASE ENTER A PARAMETER CODE WITH THE METHOD CODE
If method is entered, parameter must be entered.

PLEASE ENTER A VALID AQCR CODE
The AQCR code is not valid.

PLEASE ENTER A VALID CITY CODE
The combination of city and state codes is not valid.

PLEASE ENTER A VALID CMSA CODE
The CMSA code entered must be in the AIRS GEO-COMMON File.

PLEASE ENTER A VALID CMSA-REP CODE
The CMSA-rep code entered must be in the AIRS GEO-COMMON File.

PLEASE ENTER A VALID COUNTY CODE
The combination of county and state codes is not valid.

PLEASE ENTER A VALID INTERVAL CODE (1, 7, OR C)
The interval entered must be 1, 7, or C.

PLEASE ENTER A VALID INTERVAL FOR THE PARAMETER CODE
The combination of interval and parameter codes is not valid.

PLEASE ENTER A VALID METHOD CODE
The combination of method and parameter codes is not valid.

PLEASE ENTER A VALID MSA CODE
The MSA code entered must be in the AIRS GEO-COMMON File.

PLEASE ENTER A VALID MSA-REP CODE
The MSA-rep code entered must be in the AIRS GEO-COMMON File.

PLEASE ENTER A VALID PARAMETER CODE (CRITERIA POLLUTANTS ONLY)

The parameter code must specify one of the criteria pollutants: 11101 (TSP), 12128 (Pb), 42101 (CO), 42401 (SO_2), 42602 (NO_2), 44201 (O_3), or 81102 (PM-10).

PLEASE ENTER A VALID REPORT-ORG

The combination of reporting organization and state is not valid.

PLEASE ENTER A VALID SITE CODE

The combination of state, county, and site does not match any existing site-ID in the Site file.

PLEASE ENTER A VALID STATE ABBREVIATION

The state abbreviation is not valid.

PLEASE ENTER A VALID STATE CODE

The state code is not valid.

PLEASE ENTER A VALID STATUS-AREA CODE FOR PARAMETER

The combination of status area and parameter entered must be in the AIRS GEO-COMMON File.

PLEASE ENTER A VALID URBAN-AREA CODE

The urban area code is not valid.

PLEASE ENTER AN END-YEAR THAT IS GREATER THAN OR EQUAL TO THE BEGIN-YEAR

The end year must be greater than or equal to the begin year.

PLEASE ENTER ONE: STATE, PARAMETER, AQCR, URBAN-AREA, MSA, CMSA, MSA-REP, CMSA-REP, OR STATUS AREA

One of the geographic criteria or parameter must be used in each line of select criteria.

PLEASE ENTER ONLY ONE: AQCR, URBAN-AREA, CITY, REPORT-ORG, COUNTY, MSA, CMSA, MSA-REP, CMSA-REP, OR STATUS-AREA

Only the combinations of geographic selection criteria listed at the beginning of this section are valid.

PLEASE FILL ALL LINES BEFORE GOING ON TO THE NEXT SCREEN

PF8 is valid only when the current screen is full or when there are more criteria on a subsequent screen.

PLEASE USE A VALID PF-KEY

A PF key not defined for this screen was used.

REPORT BEGINNING YEAR IS REQUIRED FOR THIS REPORT

Begin year must be entered.

REPORT ENDING YEAR IS REQUIRED FOR THIS REPORT

End year must be entered.

STATUS-AREA CODE NOT ALLOWED WITH THIS PARAMETER

A status area was entered for a parameter that does not allow entry of a status area.

THE COUNTY CODE IS REQUIRED WITH THE SITE CODE

If the site is entered, county must be entered.

5.8.4 Data Sorting Options

The SLAMS Data Retrieval Report has a fixed sort order that cannot be changed. Therefore, there is no sort criteria screen for this report. The sort order is:

parameter
year
state
county
site
POC

Instructions

None

5.9 Summary Data Extraction Report (AMP282)

5.9.1 Description

The Summary Data Extraction Program creates a work file containing yearly or quarterly data extracted from the Summary File and sorted according to your specifications. Report options allow inclusion or exclusion of exceptional event data, selection of data based on continuity or completeness requirements, selection of quarterly or yearly summary statistics, and generation of an output file containing one or more types of statistics. The generated work file contains statistics from the Summary File as well as descriptive information from the Site and Geo-Common files.

The organization of the Summary Data Extraction work file is unusual. Rather than having one record for each selected monitor and time period (year or quarter), the work file has one record for each selected monitor that includes the data for all selected time periods. Each record has a "slot" for every year or quarter within the time span defined by begin and end dates. Each slot contains the summary statistics you choose from a menu. The number and type(s) of statistics you choose determine the size of a slot and, therefore, the record size. If data for a particular year or quarter meet selection criteria, the statistics are stored in the appropriate slot in the record; otherwise the slot has values that signal "no data" ("AAA" in the method field, blanks in text fields, and negative nines in numeric fields). There is no indication in the record why a slot is empty: because no data were reported for that time period, because they did not pass selection criteria, or because they failed completeness or continuity requirements.

The only report produced by this program is a processing summary. It lists the report options in effect for the report and the number of records read from the sorted Expanded Monitor File and written to the Summary Data Extraction work file. Figure 5-27 shows a sample of the report.

```
DATE 93/09/09                EPA AEROMETRIC INFORMATION RETRIEVAL SYSTEM (AIRS)                PAGE:     1
                                        AIR QUALITY SUBSYSTEM
                             SUMMARY DATA EXTRACTION PROCESSING SUMMARY REPORT


PARAMETER                  = 11101
BEGIN-DATE                 = 901                  END-DATE                   = 914
YEARLY                     = X                    QUARTERLY                  =
EXCEPTIONAL EVENT INCLUDE  = X                    MINIMUM NUMBER OF OBSERVATIONS= 00001
BREAK-DATE                 = 901
MINIMUM OBS BEFORE BREAK   = 01                   CONSECUTIVE BEFORE BREAK   = C
MINIMUM OBS AFTER BREAK    = 01                   CONSECUTIVE AFTER BREAK    = C

                                  STATISTICAL SELECTIONS
OBSERVATION COUNT          = X                    TIME OF MAXIMUM            = X
NUMBER OF FLAGGED VALUES   =                      TIME OF SECOND MAXIMUN     = X
10TH PERCENTILE            =                      ARITHMETIC MEAN            =
30TH PERCENTILE            =                      GEOMETRIC MEAN             =
50TH PERCENTILE            =                      ARITHMETIC STANDARD DEV    =
70TH PERCENTILE            =                      GEOMETIC STANDARD DEV      =
90TH PERCENTILE            =                      MISSING DAILY MAX ASSUMED  =
95TH PERCENTILE            =                      REQUIRED MONITOR TIME      =
99TH PERCENTILE            =                      NUMBER OF VALID DAYS       =
MAXIMUM                    = X                    PERCENT OBSERVATIONS       =
SECOND MAXIMUM             = X                    NUMBER OF SUBS OF 1/2 MIN DET =
THIRD MAXIMUM              =                      NADB CRITERIA FLAG         =
FOURTH MAXIMUM             =                      NON OVERLAP AVG            =
FIFTH MAXIMUM              =                      EST NUMBER OF EXCEEDANCES  =
DAYS EXCEEDED ALERT LEVEL  =                      MIN SAMPLING FREQUENCY     =
PRIMARY VIOLATION COUNT    = X                    ANNUAL WTD ARITHMETIC MEAN =
SECONDARY VIOLATION COUNT  =                      CRITERIA FLAG EPA          =
MINIMUM                    =                      EST DAYS GR STANDARD EPA   =
                                                  SELECT ALL OUTPUT STATISTICS =


      11 RECORDS WERE READ FROM THE EXPANDED MONITOR FILE
       3 RECORDS WERE WRITTEN TO THE SUMMARY DATA EXTRACTION WORK FILE


* * * PROGRAM AMP282EX TERMINATED SUCCESSFULLY ON 93/09 /09 AT 12:43:36 * * *
```

Figure 5-27. Summary Data Extraction Report

5.9.2 Report Generation Options

The options available for the Summary Data Extraction Report have to do with the type of data to be extracted and the items to be included in the generated work file. The report options for the Summary Data Extraction Report are unusual in several ways:

1. Two screens are required because there are so many options. The screen formats are shown in Figure 5-28.

2. The selection criteria for date and parameter are specified on the report options screen rather than on the selection criteria screen. Therefore, all the data extracted in one run of this report have the same parameter code and the same date range.

3. Report options determine the format of work file records by specifying which fields are included in the records.

The first report options screen has the following items:

Yearly data/Quarterly data
determines whether yearly or quarterly statistics are extracted from the Summary file and written in the work file.

Include exceptional event data
specifies whether the extracted data will include or exclude values associated with an exceptional event (a forest fire or a volcanic eruption, for example).

Work file name
is the dataset name for the Summary Data Extraction work file. This is a standard AIRS dataset name, as described in Section 3.6.2 of this volume. You must specify a dataset name, since the work file is the primary output of the report; it is not optional.

Begin date/End date
define the inclusive date range of the data to be selected. The dates consist of year and quarter (YY/Q). If you select yearly data type (above), you still must enter a valid quarter, even though the quarter is not used in selecting data. The earliest valid date is the first quarter of 1957 (57/1); the latest valid date is any valid year and quarter. The date range can span no more than 40 years (if you select yearly data) or no more than 40 quarters (if you select quarterly data). This limitation is imposed by the unusual record format of the work file; more than 40 occurrences of summary statistics would exceed the maximum record size allowed by the IBM computer system.

Parameter
is the parameter code of the data to be selected. Any valid parameter code is acceptable. (See Volume GC2 of the AIRS User's Guide.)

Historical Continuity Selection Criteria
are additional conditions used to select data based on its completeness and continuity. You must specify these criteria even if you do not care about data continuity.

Minimum number of observations
specifies the data completeness selection criterion. If at least this number of values were reported by a monitor during a particular year or quarter (depending on the type of data specified above), the summary data are extracted and included in the work file. Otherwise, the summary data are not extracted for that year or quarter. If you specify an unreasonable minimum number (more than the possible number of observations), nothing will be selected. Allowable values are 0 through 8784.

Break year/Break quarter
define the date used as the basis for data continuity criteria (below). Break date must be within the inclusive range of begin and end dates inclusive (above). You must specify a valid break quarter even if you chose to extract yearly data; the break quarter has no effect on the selection of yearly data, however.

Minimum number of quarters/years before-thru Break date and
Minimum number of quarters/years after Break date
specify how long a monitor must have reported data before and after the break date in order to be selected for this report. The fields are interpreted as either a number of years or a number of quarters, depending on the yearly/quarterly data option (above). Data are extracted for a monitor only if it reported the minimum number of observations (defined above) in each of the specified number of quarters or years before and after the break date. The break year/quarter is included in the "before" count but not in the "after" count. Acceptable values are zero through the number of quarters or years between break date and begin or end date. Specifying zero eliminates continuity requirements from the selection criteria.

Enter C for Consecutive or O for Not Consecutive
specifies whether the minimum number of quarters/years before and after break date must be consecutive. The consecutive quarters or years do not have to end or start with the break date; they can occur at any time from the begin date through break date and after break date through the end date. This consecutiveness option can be different for the time span before and after break date. You must specify "C" or "O" for both of the consecutiveness options, even if you entered zero for the minimum number of quarters/years.

The second report options screen displays a list of items that can be included in the Summary Data Extraction work file. Each item with an "X" entered beside it is included in the generated work file. A special option is available that selects all the listed items.

```
11/19/90                AIRS Air Quality Subsystem                AMP282A
                            Report Options

Report Name:  SUMMARY DATA EXTRACTION                Criteria Name:

                        Enter X for desired Option(s)

Choose at least one output

X 1.  Generate a printed report
_ 2.  Generate a workfile (Enter name below):
      KUFASWD . _______ . _______ . _______ . _______

Choose one report type
_ 3.  Yearly data                        _ 4.  Quarterly data

Choose one retrieval option
_ 5.  Include all data & flag data that fails Summary Criteria
_ 6.  Include only data that meets Summary Criteria

Choose desired report option
_ 7.  Generate the Precision-Accuracy Report

  PF3=end      PF4=main menu      PF5=terminate      PF9=save criteria
```

```
07/11/88                AIRS Air Quality Subsystem                AMP282A
                            Output Statistics

Report Name:  SUMMARY DATA EXTRACT                   Criteria Name:
                  Enter X for desired Output Statistic(s)

_ 1.  Num. Obs.            _ 14. Fifth Maximum        _ 26. Req. Monitor Time
_ 2.  Num. Flagged Val.    _ 15. Days Exc Alert Lev   _ 27. Num. Valid Days
_ 3.  10th Percentile      _ 16. Pri. Vio. Count      _ 28. % Observations
_ 4.  30th Percentile      _ 17. Sec. Vio. Count      _ 29. Num. Subs 1/2 Min Dat
_ 5.  50th Percentile      _ 18. Minimum              _ 30. NADB Criteria Flag
_ 6.  70th Percentile      _ 19. Time Maximum         _ 31. Non-overlap Vio.
_ 7.  90th Percentile      _ 20. Time 2nd Max.        _ 32. Est Number Exc
_ 8.  95th Percentile      _ 21. Arith. Mean          _ 33. Min Sampling Freq
_ 9.  99th Percentile      _ 22. Geom. Mean           _ 34. Annual WTD Arith Mean
_ 10. Maximum              _ 23. Arith. Std. Dev.     _ 35. Criteria Flag-EPA
_ 11. Second Maximum       _ 24. Geom. Std. Dev.      _ 36. Est Days > Std-EPA
_ 12. Third Maximum        _ 25. Missing Daily        _ 37. All Statistics
_ 13. Fourth Maximum             Maxima Assumed

PF3=end  PF4=main menu  PF5=terminate  PF6=report options  PF9=save criteria
```

Figure 5-28. Report Options Screens for the Summary Data Extraction Report

Instructions (first screen)

Enter an "X" preceding either option 1 (yearly) or option 2 (quarterly) to specify the type of data to be selected.

The default option for option 3 is to include exceptional event data in the workfile.

Enter a dataset name for the Summary Data Extraction work file that follows the dataset naming conventions given in Section 3.6.2.

Enter a begin date and an end date using year/quarter (YY/Q) format. Enter a quarter number (1-4) even if you selected yearly data (option 1).

Enter the AIRS parameter code of the data to be selected.

Specify the minimum number of years or quarters in which data must be present before (and including) the break date. Specify years if you chose option 1; specify quarters if you chose option 2. Enter zero or any number that does not exceed the number of years or quarters in the time span defined by begin date through break date.

Enter "C" (consecutive) or "O" (not consecutive) for the number of years or quarters before the break date.

Specify the minimum number of years or quarters in which data must be present after the break date. Specify years if you chose option 1; specify quarters if you chose option 2. Enter zero or any number that does not exceed the number of years or quarters in the time span after break date through end date.

Enter "C" (consecutive) or "O" (not consecutive) for the number of years or quarters after the break date.

Press ENTER to validate the first screen of report options and to display the second screen.

Instructions (second screen)

Enter an "X" beside each item you want to be included in the Summary Data Extraction work file. You must select at least one item. You may enter an "X" beside the last item to select all the other items listed on the screen.

After selecting the items you want included in the work file, press ENTER. The selection criteria screen will appear.

If you want to go back to the first report options screen, press the PF6 key.

Error Messages

The error messages listed below (in alphabetical order) are displayed at the top of the report options screen if you make a mistake in specifying information.

BEGIN-QUARTER IS < 1 OR > 4
Begin quarter must be in the range 1 through 4.

BEGIN-YEAR IS < 57 OR > CURRENT YEAR
Begin year must be in the range 57 through current year.

DATASET NAME IS INVALID
The work file dataset name is not valid. Refer to Section 3.6.2 of this volume for a description of dataset naming conventions.

END-QUARTER IS < 1 OR > 4
End quarter must be in the range 1 through 4.

END-QUARTER MUST BE GREATER THAN OR EQUAL TO THE BEGIN-QUARTER
If begin and end years are equal, end quarter must be equal to or greater than begin quarter.

NUMBER OF YEARS OR QUARTERS SELECTED MUST BE LESS THAN OR EQUAL TO 40
There can be no more than 40 years (for yearly data, option 1) or 40 quarters (option 2) in the begin date - end date range.

PLEASE CHOOSE ONLY ONE OPTION (OPTION 1 OR 2)
Select only one of options 1 and 2.

PLEASE CHOOSE OPTION 1 OR 2
Either option 1 (yearly) or option 2 (quarterly) must be selected for extraction of data from the Summary files.

PLEASE ENTER A BREAK DATE WITHIN THE BEGIN AND END DATE RANGE INCLUSIVE
The break year/quarter must be in the range of begin date through end date inclusive.

PLEASE ENTER A NUMERIC BEGIN-QUARTER
Begin quarter must be numeric.

PLEASE ENTER A NUMERIC BEGIN-YEAR
Begin year must be numeric.

PLEASE ENTER A NUMERIC END-QUARTER
End quarter must be numeric.

PLEASE ENTER A NUMERIC END-YEAR
End year must be numeric.

PLEASE ENTER A VALID DATASET NAME
A dataset name must be specified for the work file.

PLEASE ENTER A VALID MINIMUM NUMBER OF QUARTERS/YEARS
For option 7, minimum number of quarters/years before the break date must not exceed the number of quarters/years from begin date through break date, inclusive. For option 8, minimum quarters/years after the break date must not exceed the number of quarters/years after break date through end date, not including the break date.

PLEASE ENTER A VALID PARAMETER CODE
The parameter code is not valid.

PLEASE ENTER A VALUE BETWEEN 0 AND 8784
The minimum number of observations required for data selection must be in this range. (Zero means that summary criteria must be met.)

PLEASE ENTER AN END-YEAR THAT IS GREATER THAN OR EQUAL TO THE BEGIN-YEAR
The end year must be greater than or equal to the begin year.

PLEASE ENTER BLANK OR 'X'
The only valid entries for report options 1-3 are blank and X.

PLEASE ENTER EITHER 'C' OR 'O'
For option 7, the continuity criteria before the break date are C (consecutive) and O (present but not consecutive). For option 8, the continuity criteria after the break date are C (consecutive) and O (present but not consecutive).

PLEASE SELECT AT LEAST ONE OUTPUT STATISTIC
At least one statistic must be selected for output to the work file.

PLEASE USE A VALID PF-KEY
A PF key not defined for this screen was used.

REPORT BEGINNING QUARTER IS REQUIRED FOR THIS REPORT
Begin quarter must be entered.

REPORT BEGINNING YEAR IS REQUIRED FOR THIS REPORT
Begin year must be entered.

REPORT ENDING QUARTER IS REQUIRED FOR THIS REPORT
End quarter must be entered.

REPORT ENDING YEAR IS REQUIRED FOR THIS REPORT

End year must be entered.

5.9.3 Data Selection Options

You may select which monitors are included in the summary data extraction using the select criteria screen. A sample screen is shown in Figure 5-29. The leftmost portion of the screen is shown at the top of the figure and the rightmost portion is shown at the bottom

There are two groups of selection criteria. The first group consists of "geographic" criteria. Only certain combinations of these fields are allowed. You may use any one of the following combination of geographic selection fields:

state (code or abbreviation)
state + county
state + county + site
state + reporting organization
state + city
state + AQCR
AQCR
urban area
MSA
CMSA
MSA-rep
CMSA-rep
status area

The second group of selection criteria consists of the following optional fields:

method
interval
monitor type

In a given line on the select criteria screen, you must specify one of the geographic criteria in the first group or any of the criteria in the second group. You may use any (or all) of the criteria in the second group in addition to a geographic criterion.

In addition to the monitor type codes listed in Volume GC2 of the AIRS User's Guide, you may use the code "B" to select both NAMS and SLAMS monitors and code "P" to select PAMS monitors.

Parameter, begin date, and end date, which you specified on the report options screen, cannot be entered on the select criteria screen. However, they are included implicitly in each line of selection criteria you enter. The values you specify for method and interval must be compatible with the parameter you entered on the report options screen, therefore.

To remind you what values you specified for parameter, begin date, and end date, the select criteria screen shows those values in the first line of criteria when it displays any selection criteria you have entered. (The dates are shown as year, month, and day, rather than year and quarter as you entered them.) The fields are not shown when the select criteria screen is "empty". If you forget what values

```
09/30/92                    AIRS Air Quality Subsystem                    AMP282B
                                 Select Criteria                          Page 1/2

Report Name:  SUMMARY DATA EXTRACT                          Criteria Name:

                                PARA-                  BEGIN   END   MON                  REP  URBAN
  ST  CNTY  SITE                METER   METH  INT      DATE    DATE  TYPE  CITY     AQCR  ORG  AREA
  __  ___   ____                ____    ____  _       ____    ____  ____  _____    ____  ___  ____
  __  ___   ____                ____    ____  _       ____    ____  ____  _____    ____  ___  ____
  __  ___   ____                ____    ____  _       ____    ____  ____  _____    ____  ___  ____
  __  ___   ____                ____    ____  _       ____    ____  ____  _____    ____  ___  ____
  __  ___   ____                ____    ____  _       ____    ____  ____  _____    ____  ___  ____
  __  ___   ____                ____    ____  _       ____    ____  ____  _____    ____  ___  ____
  __  ___   ____                ____    ____  _       ____    ____  ____  _____    ____  ___  ____
  __  ___   ____                ____    ____  _       ____    ____  ____  _____    ____  ___  ____
  __  ___   ____                ____    ____  _       ____    ____  ____  _____    ____  ___  ____
  __  ___   ____                ____    ____  _       ____    ____  ____  _____    ____  ___  ____

PF1=help    PF2=duplicate   PF3=end   PF4=main menu   PF5=terminate   PF6=rpt options
PF7=back    PF8=more        PF9=save criteria        PF10=left       PF11=right
```

```
09/30/92                    AIRS Air Quality Subsystem                    AMP282B
                                 Select Criteria                          Page 2/2

Report Name:  SUMMARY DATA EXTRACT                          Criteria Name:

                          MSA    CMSA   STATUS
  MSA     CMSA            REP    REP    AREA
  ____    ____            ____   ____   ____
  ____    ____            ____   ____   ____
  ____    ____            ____   ____   ____
  ____    ____            ____   ____   ____
  ____    ____            ____   ____   ____
  ____    ____            ____   ____   ____
  ____    ____            ____   ____   ____
  ____    ____            ____   ____   ____
  ____    ____            ____   ____   ____
  ____    ____            ____   ____   ____

PF1=help    PF2=duplicate   PF3=end   PF4=main menu   PF5=terminate   PF6=rpt options
PF7=back    PF8=more        PF9=save criteria        PF10=left       PF11=right
```

Figure 5-29. Select Criteria Screen for the Summary Data Extraction Report

you specified, use PF6 to return to the report options screen, or enter an invalid value in one of the selectcriteria fields. (If you entered a valid value, the select criteria would be accepted and the sort criteria screen would appear. Then you could use PF6 to return to the select criteria screen and see the parameter and date fields displayed.)

Online Help is available for all of the selection criteria fields except BEGIN-DATE and END-DATE. The Help facility allows you to browse through tables of values, with descriptions, for the codes you need to enter, and then to select the value that you wish to use. The Help facility is described in detail in Section 3.6.4.

Warning

The way this report selects data based on monitor type is different from other standard reports. The other reports select just the type of monitor you specify or, if you do not specify monitor type, they select all types except secured. This report selects secured monitors the same way: you must specify the code "9" to select them. However, if you leave the monitor type selection field blank or enter one of the valid codes other than "9", the result is the same: all non-secured monitor types are selected. Thus, you really have two choices with this report. You can select non-secured monitors by leaving the monitor type field blank, or you can select secured monitors by entering the code "9". Entering any other valid code has the same effect as leaving the field blank. (Note: The monitor type stored in the generated work file is the type in effect during the first year or quarter selected for a given monitor. If monitor type changed during the time span of the report, that is not indicated in the work file.)

Instructions

Enter selection criteria into the available fields on the select criteria screen, or alter the previously saved criteria if you wish. You must specify criteria in at least one line on the screen. Press the ENTER key when you have finished entering or altering the criteria.

Read Section 3.6.3 if you are not familiar with how to use the select criteria screen. Refer to Volume GC2 of the AIRS User's Guide for lists of valid codes to use for selection criteria.

Press PF1=help for general information about the select criteria process. For Field-specific Help, enter a "?" in the first position of any field (except BEGIN-DATE or END-DATE).

Error Messages

The error messages listed below (in alphabetical order) are displayed at the top of the select criteria screen if you make a mistake in specifying information. See Volume GC4 of the AIRS User's Guide for explanations of the error messages that you may encounter while using Field-specific Help.

A PARAMETER IS REQUIRED FOR STATUS-AREA CODE
If status area is entered, parameter must be entered.

A STATE IS REQUIRED FOR CITY
If city is entered, state must be entered.

A STATE IS REQUIRED FOR COUNTY
If county is entered, state must be entered.

A STATE IS REQUIRED FOR REPORT-ORG
If reporting organization is entered, state must be entered.

ENTER SELECTION CRITERIA OR USE A PF-KEY TO ESCAPE
ENTER was pressed without any selection criteria specified. Either specify criteria and press ENTER or use one of the valid PF keys to transfer to another screen or terminate the AIRS session.

INTERVAL CODE IS REQUIRED FOR THIS REPORT
An interval code has not been entered.

PF2 INVALID - MAXIMUM NUMBER OF SELECTION CRITERIA HAS BEEN SPECIFIED
Do not press PF2 when the last select criteria screen is full.

PF2 INVALID - THERE ARE NO SELECTION CRITERIA TO DUPLICATE
Do not press PF2 without entering at least one selection criterion.

PF7 INVALID - THIS IS THE FIRST SELECT CRITERIA SCREEN
Do not press PF7 from the first select criterion screen; it is used to page backward.

PF8 INVALID - THIS IS THE FINAL SELECT CRITERIA SCREEN
Do not press PF8 from the last select criteria screen; it is used to page forward.

PF10 INVALID - THIS IS THE LEFT-MOST SELECT CRITERIA SCREEN
Do not press PF10 while the leftmost select criteria screen is displayed.

PF11 INVALID - THIS IS THE RIGHT-MOST SELECT CRITERIA SCREEN
Do not press PF11 while the rightmost select criteria screen is displayed.

PLEASE DO NOT ENTER BOTH STATE AND CMSA CODE
Do not enter both state and CMSA code.

PLEASE DO NOT ENTER BOTH STATE AND CMSA-REP CODE
Do not enter both state and CMSA-rep code.

PLEASE DO NOT ENTER BOTH STATE AND MSA CODE
Do not enter both state and MSA code.

PLEASE DO NOT ENTER BOTH STATE AND MSA-REP CODE
Do not enter both state and MSA-rep code.

PLEASE DO NOT ENTER BOTH STATE AND STATUS-AREA CODE
Do not enter both state and status area code.

PLEASE DO NOT ENTER BOTH STATE AND URBAN-AREA CODE
Do not enter both state and urban area as select criteria.

PLEASE ENTER A VALID AQCR CODE
The AQCR code is not valid.

PLEASE ENTER A VALID CITY CODE
The combination of city and state codes is not valid.

PLEASE ENTER A VALID COUNTY CODE
The combination of county and state codes is not valid.

PLEASE ENTER A VALID CMSA CODE
The CMSA code entered must be in the AIRS GEO-COMMON File.

PLEASE ENTER A VALID CMSA-REP CODE
The CMSA-rep code entered must be in the AIRS GEO-COMMON File.

PLEASE ENTER A VALID INTERVAL CODE
The interval code is not valid.

PLEASE ENTER A VALID METHOD CODE
The combination of method and parameter codes is not valid.

PLEASE ENTER A VALID MONITOR-TYPE CODE
The monitor type code is not valid. Use a code listed in Volume GC2, or use "B" to select both NAMS and SLAMS monitor types or "P" to select PAMS monitor types.

PLEASE ENTER A VALID MSA CODE
The MSA code entered must be in the AIRS GEO-COMMON File.

PLEASE ENTER A VALID MSA-REP CODE
The MSA-rep code entered must be in the AIRS GEO-COMMON File.

PLEASE ENTER A VALID REPORT-ORG
The combination of reporting organization and state is not valid.

PLEASE ENTER A VALID SITE CODE
The combination of state, county, and site does not match any existing site-ID in the Site file.

PLEASE ENTER A VALID STATE ABBREVIATION
The state abbreviation is not valid.

PLEASE ENTER A VALID STATE CODE
The state code is not valid.

PLEASE ENTER A VALID STATUS-AREA CODE FOR PARAMETER

The combination of status area and parameter entered must be in the AIRS GEO-COMMON File.

PLEASE ENTER A VALID URBAN-AREA CODE

The urban area code is not valid.

PLEASE ENTER ONLY ONE: AQCR, URBAN-AREA, CITY, REPORT-ORG, COUNTY, MSA, CMSA, MSA-REP, CMSA-REP, OR STATUS-AREA

Only the combinations of geographic selection criteria listed at the beginning of this section are valid.

PLEASE FILL ALL LINES BEFORE GOING ON TO THE NEXT SCREEN

PF8 is valid only when the current screen is full or when there are more criteria on a subsequent screen.

PLEASE USE A VALID PF-KEY

A PF key not defined for this screen was used.

STATUS-AREA CODE NOT ALLOWED WITH THIS PARAMETER

A status area was entered for a parameter that does not allow entry of a status area.

THE COUNTY CODE IS REQUIRED WITH THE SITE CODE

If site is entered, county must be entered.

5.9.4 Data Sorting Options

The sort sequence you specify determines the order of yearly or quarterly data in the Summary Data Extraction work file. The sort criteria screen, shown in Figure 5-30, allows you to establish the sort sequence. The default sort sequence is by state, county, site, POC, monitor type, and interval. Within each record, the data are ordered by date.

```
09/30/92                    AIRS Air Quality Subsystem                    AMP282C
                                  Sort Criteria

Report Name:  SUMMARY DATA EXTRACTION                  Criteria Name:

    1.  State                6.  Reporting Org       11.  Method
    2.  County               7.  Urban Area          12.  Interval
    3.  Site                 8.  EPA Region          13.  Monitor Type
    4.  Parameter            9.  City                14.  Date
    5.  POC                 10.  AQCR

 Enter the numbers of the Sort Elements above in the desired Sort Sequence:

                  _1  _2  _3  _4  _5  12  14  __  __  __  __  __  __  __

 PF3=end    PF4=main menu    PF5=terminate    PF6=select criteria    PF9=save criteria
```

Figure 5-30. Sort Criteria Screen for the Summary Data Extraction Report

You may specify a sort sequence that uses the numbered fields shown on the sort criteria screen. The allowed sort fields are:

Selection No.	Field Name
1	state
2	county
3	site
5	POC
6	reporting organization
7	urban area
8	EPA region
9	city
10	AQCR
12	interval
13	monitor type

Parameter, method, and date may not be used as sort criteria.

If you use report criteria that were saved previously for a different report, the sort criteria program may alter the saved sort specifications to conform with the requirements for this report. Sort fields not allowed for this report are dropped from the saved sort sequence before it is displayed on the sort criteria screen. Otherwise, the saved sort sequence is not altered.

The state, county, site, POC, monitor type, and interval fields are added at the end of your sort sequence if you do not specify them. This is done to ensure that the sorting process will eliminate any duplicate records from the report. (Duplicates could occur if a monitoring site were selected by more than one of your selection "cards".)

Instructions

Read Section 3.6.4 of this manual if you are not familiar with how to use the sort criteria screen.

Choose any or all of the allowed sort fields listed above, subject to the following rules:

1. If you use EPA region, it must be the first sort field.
2. State must precede county, city, and reporting organization.
3. City or county must precede site.

Error Messages

The error messages listed below (in alphabetical order) are displayed at the top of the select criteria screen if you make a mistake in specifying information.

CITY OR COUNTY REQUIRED BEFORE SITE

Sorting by site without also specifying county or city was requested, or site was specified before city or county. Since site is meaningful only within county, state and county or state and city must be specified before site in the sort sequence. (If city is specified, county is inserted automatically in the sort sequence just before site.) Add the necessary field(s) to the sort sequence or change the order so site is after city and county.

ERROR - REPEATED SORT CRITERIA

Each sort criterion may be entered only once.

PLEASE ENTER A VALID SORT CRITERIA NUMBER

The sort specification at the cursor is not valid, and must be changed. Valid entries are blank or one of the sort field numbers allowed for this report (all except 4, 11, and 14). Two digits must be entered for each sort specification.

PLEASE USE A VALID PF-KEY

A PF key not defined for this screen was used.

REGION CAN ONLY BE THE FIRST SORT CRITERION

If EPA region is used, it must be first in the sort sequence. Either move region to the first position or eliminate it from the sort specification.

STATE CODE REQUIRED BEFORE CITY

Sorting by city without also specifying state was requested, or city was specified before state. Since city is meaningful only within state, state must be specified before city in the sort sequence. Add state to the sort sequence, eliminate city, or change the order so city is after state.

STATE CODE REQUIRED BEFORE COUNTY

Sorting by county without also specifying state was requested, or they were specified in the wrong order. Since county is meaningful only within state, state must be specified before county in the sort sequence. Add state to the sort sequence, eliminate county, or change the order so county follows state.

STATE CODE REQUIRED BEFORE REPORT-ORG

Sorting by reporting organization without also specifying state was requested, or reporting organization was specified before state. Since reporting organization is meaningful only within state, state must be specified before reporting organization in the sort sequence. Add state to the sort sequence, eliminate reporting organization, or change the order so reporting organization is after state.

5.10 Violation Day Count Report (AMP300)

5.10.1 Description

The Violation Day Count Report Program displays raw data values that exceed the standard for criteria pollutants extracted from air quality raw data files. A site summary is generated for each site and a yearly summary is generated for each pollutant-interval. The yearly summary displays the days that a violation occurred and the highest violation of the day.

There are two report formats that present one year's data.

Figure 5-31 shows a sample Violation Day Count Report.

A Precision-Accuracy Report may be generated in conjunction with this report. (See Section 5.3.) It includes data for all the reporting organizations and years in the Violation Day Count Report.

08/26/93 EPA AEROMETRIC INFORMATION RETRIEVAL SYSTEM (AIRS) PAGE 1
AMP300RP AIR QUALITY SUBSYSTEM
VIOLATION DAY COUNT
CARBON MONOXIDE (42101)
PPM (007)
8-HOUR RUNNING AVERAGE (Z)

MSA: (5760) NORWALK, CT

SITE-ID	POC	COUNTY NAME	METHOD	MONITOR TYPE DESCRIPTION	DATE OF VIOLATION	MAXIMUM VIOLATION VALUE	VALIDITY FLAG	HOUR OF MAXIMUM VIOLATION	NON-OVERLAPPING VIOLATIONS
09-001-3005	1	FAIRFIELD CO	011	UNKNOWN	90/10/11	10.4	V	13	1
					90/10/12	11.8	V	19	2
					90/10/13	10.4	V	21	1
					90/10/14	11.2	V	20	2
					90/10/23	10.8	V	13	1
					90/10/28	9.7	V	02	1
					90/11/10	16.9	V	22	1
					90/11/11	14.9	V	06	1
					90/12/20	11.3	V	12	1

SUMMARY FOR SITE 09-001-3005 POC 1 YEAR 90 MAXIMUM VIOLATION VALUE 16.9

VIOLATION DAYS	9
NON-OVERLAPPING VIOLATION S	11
VALID DAYS MONITORED	63

<THIS REPORT INCLUDES EXCEPTIONAL EVENT DATA>

Figure 5-31. Violation Day Count Report (1 of 4)
Detail Report (Carbon Monoxide 8-Hour Running Average)

08/26/93
AMP300RP

EPA AEROMETRIC INFORMATION RETRIEVAL SYSTEM (AIRS)
AIR QUALITY SUBSYSTEM
VIOLATION DAY COUNT
CARBON MONOXIDE (42101)
PPM (007)
8-HOUR RUNNING AVERAGE (Z)
YEARLY SUMMARY

MSA: (5760) NORWALK, CT

DATE OF VIOLATION	HIGHEST VIOLATION SITE	COUNTY NAME	NUMBER OF VIOLATION SITES	MAXIMUM VIOLATION VALUE	VALIDITY FLAG	MAXIMUM VIOLATION HOUR
90/10/11	09-001-3005	FAIRFIELD CO	1	10.4	V	13
90/10/12	09-001-3005	FAIRFIELD CO	1	11.8	V	19
90/10/13	09-001-3005	FAIRFIELD CO	1	10.4	V	21
90/10/14	09-001-3005	FAIRFIELD CO	1	11.2	V	20
90/10/23	09-001-3005	FAIRFIELD CO	1	10.8	V	13
90/10/28	09-001-3005	FAIRFIELD CO	1	9.7	V	02
90/11/10	09-001-3005	FAIRFIELD CO	1	16.9	V	22
90/11/11	09-001-3005	FAIRFIELD CO	1	14.9	V	06
90/12/20	09-001-3005	FAIRFIELD CO	1	11.3	V	12
VIOLATION DAYS	9					

<THIS REPORT INCLUDES EXCEPTIONAL EVENT DATA>

Figure 5-31. Violation Day Count Report (2 of 4)
Yearly Summary Report (Carbon Monoxide 8-Hour Running Average)

08/26/93 EPA AEROMETRIC INFORMATION RETRIEVAL SYSTEM (AIRS) PAGE 1
AMP300RP AIR QUALITY SUBSYSTEM
VIOLATION DAY COUNT
PM10 (81102)
UG/CU M (001)
24-HOUR (7)

MSA: (5480) NEW HAVEN-MERIDEN, CT

SITE-ID	POC	COUNTY NAME	METHOD	MONITOR TYPE DESCRIPTION	DATE OF VIOLATION	MAXIMUM VIOLATION VALUE	VALIDITY FLAG	NUMBER OF PRIMARY VIOLATIONS	NUMBER OF SECONDARY VIOLATIONS
09-009-0018	2	NEW HAVEN CO	052	OTHER	87/02/18	274	V	1	1
					87/02/24	202	V	1	1
					87/03/04	168	V	1	1

SUMMARY FOR SITE 09-009-0018 POC 2 YEAR 87 MAXIMUM VIOLATION VALUE 274

VIOLATION DAYS	3
PRIMARY VIOLATIONS	3
SECONDARY VIOLATIONS	3
VALID DAYS MONITORED	49

<THIS REPORT INCLUDES EXCEPTIONAL EVENT DATA>

Figure 5-31. Violation Day Count Report (3 of 4)
Detail Report

08/26/93 EPA AEROMETRIC INFORMATION RETRIEVAL SYSTEM (AIRS) PAGE 2
AMP300RP
AIR QUALITY SUBSYSTEM
VIOLATION DAY COUNT
PM10 (81102)
UG/CU M (001)
24-HOUR (7)
YEARLY SUMMARY

MSA: (5480) NEW HAVEN-MERIDEN, CT

DATE OF VIOLATION	HIGHEST VIOLATION SITE	COUNTY NAME	NUMBER OF VIOLATION SITES	MAXIMUM VIOLATION VALUE	VALIDITY FLAG
87/02/18	09-009-0018	NEW HAVEN CO	1	274	V
87/02/24	09-009-0018	NEW HAVEN CO	1	202	V
87/03/04	09-009-0018	NEW HAVEN CO	1	168	V
VIOLATION DAYS	3				

<THIS REPORT INCLUDES EXCEPTIONAL EVENT DATA>

Figure 5-31. Violation Day Count Report (4 of 4)
Yearly Summary Report

5.10.2 Report Generation Options

The options available for the Violation Day Count Report have to do with the output medium (printed report or work file),the report content (include exceptional event data), and generation of the Precision-Accuracy Report. The Report Options Screen, shown in Figure 5-32, allows you to select the type(s) of output and content you want.

The default option is to generate only a printed report. If you are using report criteria for the Violation Day Count Report that you saved previously, your saved specifications for report options are displayed instead of the default.

The work file format for this report is given in Volume AQ1.

```
08/13/91                AIRS Air Quality Subsystem                AMP300A
                            Report Options

Report Name:  VIOLATION DAY COUNT                  Criteria Name:

                        Enter X for desired Option(s)

            Choose at least one output

            X 1.  Generate a printed report
            _ 2.  Generate a workfile (Enter name below):
                  iiiaaaa . ________ . ________ . ________ . ________

            Choose desired Report Option(s)

            _ 3.  Generate the Precision and Accuracy Report
            _ 4.  Include exceptional event data


  PF3=end      PF4=main menu      PF5=terminate      PF9=save criteria
```

Figure 5-32. Report Options Screen for the Violation Day Count Report

Instructions

You must choose one of the following output options or you may choose both:

option 1	generate a printed report
option 2	generate a work file

You may choose any or all of the following report options:

option 3	generate a Precision-Accuracy Report
option 4	include exceptional event data

If you choose a work file, you must specify a dataset name for it; otherwise, you may not specify a dataset name.

Read Section 3.6.1 if you are not familiar with how to use the report options screen. Section 3.6.2 describes the characteristics of valid dataset names.

5.10.3 Data Selection Options

You may select which monitors are included in the report using the select criteria screen. A sample screen is shown in Figure 5-33. The leftmost portion of the screen is shown at the top of the figure and the rightmost portion is shown at the bottom.

There are three groups of selection criteria. The first group consists of "geographic" criteria. Only certain combinations of these fields are allowed. You may use any one of the following combinations of geographic selection fields:

state (code or abbreviation)
state + county
state + county + site
state + reporting organization
state + city
state + AQCR
AQCR
urban area
MSA
CMSA
MSA-rep
CMSA-rep
status area

The second group of selection criteria consists of the following optional fields:

method
monitor type

The third group of selection criteria consists of the following required fields:

parameter (CO, SO_2, O_3, or PM-10)
interval (1, 7, X, Y, and Z only)
begin year
end year

In a given line on the select criteria screen, you must specify all the fields in the third group of selection criteria. In addition, you may use one of the geographic criteria in the first group and/or any of the criteria in the second group.

Valid years are 1957 through any valid year.

In addition to the monitor type codes listed in Volume GC2 of the AIRS User's Guide, you may use the code "B" to select both NAMS and SLAMS monitors and code "P" to select PAMS monitors.

```
09/30/92                    AIRS Air Quality Subsystem                    AMP300B
                                 Select Criteria                          Page 1/2

Report Name:  VIOLATION DAY COUNT                          Criteria Name:

                                PARA-                    BEGIN   END   MON                    REP  URBAN
  ST  CNTY  SITE                METER   METH  INT        YEAR    YEAR  TYPE  CITY       AQCR  ORG  AREA
  __  ___   ____                _____   ____  _         ____    ____  ____  _____      ____  ___  ____
  __  ___   ____                _____   ____  _         ____    ____  ____  _____      ____  ___  ____
  __  ___   ____                _____   ____  _         ____    ____  ____  _____      ____  ___  ____
  __  ___   ____                _____   ____  _         ____    ____  ____  _____      ____  ___  ____
  __  ___   ____                _____   ____  _         ____    ____  ____  _____      ____  ___  ____
  __  ___   ____                _____   ____  _         ____    ____  ____  _____      ____  ___  ____
  __  ___   ____                _____   ____  _         ____    ____  ____  _____      ____  ___  ____
  __  ___   ____                _____   ____  _         ____    ____  ____  _____      ____  ___  ____
  __  ___   ____                _____   ____  _         ____    ____  ____  _____      ____  ___  ____
  __  ___   ____                _____   ____  _         ____    ____  ____  _____      ____  ___  ____

PF1=help    PF2=duplicate   PF3=end   PF4=main menu   PF5=terminate   PF6=rpt options
PF7=back    PF8=more        PF9=save criteria        PF10=left       PF11=right
```

```
09/30/92                    AIRS Air Quality Subsystem                    AMP300B
                                 Select Criteria                          Page 2/2

Report Name:  VIOLATION DAY COUNT                          Criteria Name:

                          MSA     CMSA    STATUS
  MSA   CMSA              REP     REP     AREA
  ____  ____              ____    ____    ____
  ____  ____              ____    ____    ____
  ____  ____              ____    ____    ____
  ____  ____              ____    ____    ____
  ____  ____              ____    ____    ____
  ____  ____              ____    ____    ____
  ____  ____              ____    ____    ____
  ____  ____              ____    ____    ____
  ____  ____              ____    ____    ____
  ____  ____              ____    ____    ____

PF1=help    PF2=duplicate   PF3=end   PF4=main menu   PF5=terminate   PF6=rpt options
PF7=back    PF8=more        PF9=save criteria        PF10=left       PF11=right
```

Figure 5-33. Select Criteria Screen for the Violation Day Count Report

Only criteria pollutants may be specified, and only certain interval codes are allowed for each pollutant, as follows:

Pollutant	Parameter	Allowed Intervals
CO	42101	1, Z
SO_2	42401	7, X, Y
O_3	44201	1
PM-10	81102	7,X

Online Help is available for all of the selection criteria fields except BEGIN-DATE and END-DATE. The Help facility allows you to browse through tables of values, with descriptions, for the codes you need to enter, and then to select the value that you wish to use. The Help facility is described in detail in Section 3.6.4.

Instructions

Enter selection criteria into the available fields on the select criteria screen, or alter the previously saved criteria displayed on the screen if you wish. You must specify criteria in at least one line on the screen. Press the ENTER key when you have finished entering or altering the criteria.

Read Section 3.6.3 if you are not familiar with how to use the select criteria screen. Refer to Volume GC2 of the AIRS User's Guide for lists of valid codes to use for selection criteria.

Press PF1=help for general information about the select criteria process. For Field-specific Help, enter a "?" in the first position of any field (except BEGIN-DATE or END-DATE).

Error Messages

The error messages listed below (in alphabetical order) are displayed at the top of the select criteria screen if you make a mistake in specifying select criteria. See Volume GC4 of the AIRS User's Guide for explanations of the error messages that you may encounter while using Field-specific Help.

A PARAMETER IS REQUIRED FOR STATUS-AREA CODE
If status area is entered, parameter must be entered.

A STATE IS REQUIRED FOR CITY
If city is entered, state must be entered.

A STATE IS REQUIRED FOR COUNTY
If county is entered, state must be entered.

A STATE IS REQUIRED FOR REPORT-ORG
If reporting organization is entered, state must be entered.

BEGIN-END YEAR RANGE INCLUDES ARCHIVED YEAR(S)
The requested years must not include any years for which data has been archived (removed from the raw data files).

BEGIN-YEAR IS ARCHIVED
Begin year must not be a year for which data has been archived (removed from the raw data files).

BEGIN-YEAR IS < 57 OR > CURRENT YEAR
The begin year must be in the range 1957 through current year.

END-YEAR IS ARCHIVED
End year must not be a year for which data has been archived (removed from the raw data files).

ENTER SELECTION CRITERIA OR USE A PF-KEY TO ESCAPE
ENTER was pressed without any selection criteria specified. Either specify criteria and press ENTER or use one of the valid PF keys to transfer to another screen or terminate the AIRS session.

INTERVAL CODE REQUIRED FOR THIS REPORT
Interval code must be entered.

PARAMETER CODE REQUIRED FOR THIS REPORT
Parameter must be entered as a select criteria.

PF2 INVALID - MAXIMUM NUMBER OF SELECTION CRITERIA HAS BEEN SPECIFIED
Do not press PF2 when the last select criteria screen is full.

PF2 INVALID - THERE ARE NO SELECTION CRITERIA TO DUPLICATE
Do not press PF2 without entering at least one selection criterion.

PF7 INVALID - THIS IS THE FIRST SELECT CRITERIA SCREEN
Do not press PF7 from the first select criteria screen; it is used to page backward.

PF8 INVALID - THIS IS THE FINAL SELECT CRITERIA SCREEN
Do not press PF8 from the last select criteria screen; it is used to page forward.

PF10 INVALID - THIS IS THE LEFT-MOST SELECT CRITERIA SCREEN
Do not press PF10 while the leftmost select criteria screen is displayed.

PF11 INVALID - THIS IS THE RIGHT-MOST SELECT CRITERIA SCREEN
Do not press PF11 while the rightmost select criteria screen is displayed.

PLEASE DO NOT ENTER BOTH STATE AND CMSA CODE
Do not enter both state and CMSA code.

PLEASE DO NOT ENTER BOTH STATE AND CMSA-REP CODE
Do not enter both state and CMSA-rep code.

PLEASE DO NOT ENTER BOTH STATE AND MSA CODE
Do not enter both state and MSA code.

PLEASE DO NOT ENTER BOTH STATE AND MSA-REP CODE
Do not enter both state and MSA-rep code.

PLEASE DO NOT ENTER BOTH STATE AND STATUS-AREA CODE
Do not enter both state and status area code.

PLEASE DO NOT ENTER BOTH STATE AND URBAN-AREA CODE
Do not enter both state and urban area as select criteria.

PLEASE ENTER A NUMERIC BEGIN-YEAR
The begin year entered must be numeric.

PLEASE ENTER A NUMERIC END-YEAR
The end year entered must be numeric.

PLEASE ENTER A VALID AQCR CODE
The AQCR code is not valid.

PLEASE ENTER A VALID CITY CODE
The combination of city and state codes is not valid.

PLEASE ENTER A VALID CMSA CODE
The CMSA code entered must be in the AIRS GEO-COMMON File.

PLEASE ENTER A VALID CMSA-REP CODE
The CMSA-rep code entered must be in the AIRS GEO-COMMON File.

PLEASE ENTER A VALID COUNTY CODE
The combination of county and state codes is not valid.

PLEASE ENTER A VALID INTERVAL CODE
The interval entered must be 1, 7, X, Y, or Z.

PLEASE ENTER A VALID INTERVAL FOR THE PARAMETER CODE
The combination of interval and parameter codes is not valid, i.e., not one of the following: 42101 (CO) – 1,Z; 42401 (SO_2) – 7,X,4; 44201 (O_3) – 1; or 81102 (PM-10) – 7,X.

PLEASE ENTER A VALID METHOD CODE
The combination of method and parameter codes is not valid.

PLEASE ENTER A VALID MONITOR-TYPE CODE

The monitor type code is not valid. Use a code listed in Volume GC2, or use "B" to select both NAMS and SLAMS monitor types or "P" to select PAMS monitor types.

PLEASE ENTER A VALID MSA CODE

The MSA code entered must be in the AIRS GEO-COMMON File.

PLEASE ENTER A VALID MSA-REP CODE

The MSA-rep code entered must be in the AIRS GEO-COMMON File.

PLEASE ENTER A VALID PARAMETER CODE

The parameter code must specify one of the following pollutants: 42101 (CO), 42401 (SO_2), 44201 (O_3), or 81102 (PM-10).

PLEASE ENTER A VALID REPORT-ORG

The combination of reporting organization and state is not valid.

PLEASE ENTER A VALID SITE CODE

The combination of state, county, and site does not match any existing site-ID in the Site file.

PLEASE ENTER A VALID STATE ABBREVIATION

The state abbreviation is not valid.

PLEASE ENTER A VALID STATE CODE

The state code is not valid.

PLEASE ENTER A VALID STATUS-AREA CODE FOR PARAMETER

The combination of status area and parameter entered must be in the AIRS GEO-COMMON File.

PLEASE ENTER A VALID URBAN-AREA CODE

The urban area code is not valid.

PLEASE ENTER AN END-YEAR THAT IS GREATER THAN OR EQUAL TO THE BEGIN-YEAR

The end year must be greater than or equal to the begin year.

PLEASE ENTER ONLY ONE: AQCR, URBAN-AREA, CITY, REPORT-ORG, COUNTY, MSA, CMSA, MSA-REP, CMSA-REP, OR STATUS-AREA

Only the combinations of geographic selection criteria listed at the beginning of this section are valid.

PLEASE FILL ALL LINES BEFORE GOING ON TO THE NEXT SCREEN

PF8 is valid only when the current screen is full or when there are more criteria on a subsequent screen.

PLEASE USE A VALID PF-KEY
A PF key not defined for this screen was used.

REPORT BEGINNING YEAR IS REQUIRED FOR THIS REPORT
Report begin year must be entered.

REPORT ENDING YEAR IS REQUIRED FOR THIS REPORT
Report end year must be entered.

STATUS-AREA CODE NOT ALLOWED WITH THIS PARAMETER
A status area was entered for a parameter that does not allow entry of a status area.

THE COUNTY CODE IS REQUIRED WITH THE SITE CODE
If site is entered, county must be entered.

5.10.4 Data Sorting Options

The Violation Day Count Report has a fixed sort order that cannot be changed. Therefore, there is no sort criteria screen for this report.

The sort order is:

parameter
interval
year
state
county
site
POC

Instructions

None

5.11 Inventory Report (AMP310)

5.11.1 Description

The Inventory Report lists data from the AIRS Summary file. A sample of the report is shown in Figure 5-34. The printed data includes the site code, parameter code, parameter occurrence code (POC), parameter name, county name, monitor type, project class, method code, units code, year, reporting organization, the number of observations for the year, the maximum observation for the year, the arithmetic mean, and whether the arithmetic mean was computed from observations that met summary criteria. A new page begins with a new state's data, and the state name is printed near the top of each page.

A summary of each state's data is printed after its last entry. The summary includes the state name, the number of monitor/years reported, and the total number of observations for that state. A summary of the run, exactly like the summary for the state, except that the words "RUN TOTALS" appear in place of the state name, is printed at the end of the report.

In the body of a report, if there are multiple years for a particular monitor, the data that would be the same from year to year (i.e., site code, parameter code, POC, parameter name, and county name) are printed only on the monitor's first line and not repeated for subsequent lines. The rest of the data on the line are printed for each year of data. An asterisk after a mean value indicates that the mean was computed from observations that did not meet summary criteria. Any page that contains an asterisk also contains a footnote to that effect.

A one-page processing summary listing the number of records read from the Inventory Work File is printed after the run totals.

A Precision-Accuracy Report may be generated in conjunction with this report. (See Section 5.3.) It includes data for all the reporting organizations and years that appear in the Inventory Report.

93-09-13 EPA AEROMETRIC INFORMATION RETRIEVAL SYSTEM(AIRS) PAGE 1
AIR QUALITY SUBSYSTEM
AMP310 INVENTORY REPORT

IDAHO

SITE CODE	PARA. CODE	POC	PARAMETER NAME	COUNTY NAME	MON TYP	PRJ CLS	INT	METHOD CODE	UNIT CODE	YR	RPT ORG	NUM OBS	MAXIMUM OBS	ARITHMETIC MEAN	
160010001	11101	1	SUSPENDED PARTICULAT	ADA CO	2	03	7	091	001	90	001	59	166.0	43.7	
160010003	81102	1	PM10 TOTAL 0-10UM	ADA CO	2	01	7	063	001	90	001	61	86.0	31.0	
160010007	42101	1	CARBON MONOXIDE	ADA CO	2	01	1	011	007	90	001	3608	15.3	2.47	*
160010009	81102	1	PM10 TOTAL 0-10UM	ADA CO	1	01	7	000	001	90	001	114	78.0	35.9	
160010011	81102	1	PM10 TOTAL 0-10UM	ADA CO	1	01	7	063	001	90	001	51	57.0	24.0	*
160010012	81102	1	PM10 TOTAL 0-10UM	ADA CO	2		7	063	001	90	001	5	46.0	24.2	*
160050004	42401	2	SULFUR DIOXIDE	BANNOCK CO	2	02	1	020	001	90	001	8207	1514.0	23.8	
160050004	81102	1	PM10 TOTAL 0-10UM	BANNOCK CO	2	02	7	063	001	90	001	171	259.0	46.4	*
160050005	81102	1	PM10 TOTAL 0-10UM	BANNOCK CO	2	01	7	063	001	90	001	79	69.0	22.2	
160050006	81102	1	PM10 TOTAL 0-10UM	BANNOCK CO	2	02	7	063	001	90	001	63	145.0	32.7	
160050015	81102	1	PM10 TOTAL 0-10UM	BANNOCK CO	2		7	063	001	90	001	15	47.0	19.4	*
160130002	81102	1	PM10 TOTAL 0-10UM	BLAINE CO	2		7	063	001	90	001	14	46.0	17.0	*
160170001	81102	1	PM10 TOTAL 0-10UM	BONNER CO	2	01	7	063	001	90	001	109	218.0	38.4	*
160170002	81102	1	PM10 TOTAL 0-10UM	BONNER CO	2		7	063	001	90	001	37	91.0	23.1	*
160190005	81102	1	PM10 TOTAL 0-10UM	BONNEVILLE CO	2		7	063	001	90	001	56	68.0	25.4	*
160230001	11101	2	SUSPENDED PARTICULAT	BUTTE CO	2	03	7	091	001	90	001	31	34.0	14.5	*
160290027	42401	1	SULFUR DIOXIDE	CARIBOU CO	2	02	1	020	001	90	001	4631	652.0	23.2	*
160290027	81102	1	PM10 TOTAL 0-10UM	CARIBOU CO	2	02	7	063	001	90	001	67	109.0	24.7	*
160290030	81102	1	PM10 TOTAL 0-10UM	CARIBOU CO	2		7	063	001	90	001	59	96.0	27.0	
160350001	81102	1	PM10 TOTAL 0-10UM	CLEARWATER CO	2		7	063	001	90	001	70	102.0	33.8	*
160550005	81102	1	PM10 TOTAL 0-10UM	KOOTENAI CO	2	01	7	063	001	90	001	43	137.0	30.8	*
160550006	81102	1	PM10 TOTAL 0-10UM	KOOTENAI CO	2	01	7	063	001	90	001	114	168.0	34.4	*
160550007	81102	1	PM10 TOTAL 0-10UM	KOOTENAI CO	2		7	063	001	90	001	30	144.0	36.2	*
160550008	44201	1	OZONE	KOOTENAI CO	3	01	1	014	007	90	001	1667	0.058	0.0335	*
160550009	81102	1	PM10 TOTAL 0-10UM	KOOTENAI CO	2		7	063	001	90	001	4	32.0	28.3	*
160590001	81102	1	PM10 TOTAL 0-10UM	LEMHI CO	2		7	063	001	90	001	9	137.0	67.8	*
160690009	81102	1	PM10 TOTAL 0-10UM	NEZ PERCE CO	2	01	7	063	001	90	001	47	140.0	34.2	*
160690010	81102	1	PM10 TOTAL 0-10UM	NEZ PERCE CO	2		7	063	001	90	001	48	125.0	31.5	*
160790006	11101	1	SUSPENDED PARTICULAT	SHOSHONE CO	2	02	7	091	001	90	001	60	151.0	49.5	
160790006	12128	1	LEAD (TSP)	SHOSHONE CO	2	02	7	092	001	90	001	55	0.45	0.13	*
160790017	81102	1	PM10 TOTAL 0-10UM	SHOSHONE CO	2	02	7	063	001	90	001	120	142.0	37.9	*
160830004	11101	1	SUSPENDED PARTICULAT	TWIN FALLS CO	0		7	091	001	90	001	59	197.0	53.0	
160830004	81102	1	PM10 TOTAL 0-10UM	TWIN FALLS CO	2		7	063	001	90	001	54	90.0	28.8	*

IDAHO
TOTAL NUMBER OF MONITOR/YEARS PRINTED 33
TOTAL NUMBER OF OBSERVATIONS REPORTED 19,817

NOTE: A MEAN VALUE FOLLOWED BY '*' WAS COMPUTED FROM OBSERVATIONS THAT DID NOT MEET SUMMARY CRITERIA

Figure 5-34. Inventory Report

5.11.2 Report Generation Options

The options available for the Inventory Report have to do with the output medium (printed report and/or work file) and the generation of the Precision-Accuracy Report. The report options screen, shown in Figure 5-35, allows you to select the type of output you want.

The default option is to generate only a printed report. If you are using report criteria for the Inventory Report that you have saved before, your saved specifications for report options are displayed instead of the default.

The work file format for this report is given in Volume AQ1 of the AIRS User's Guide.

```
11/19/90                AIRS Air Quality Subsystem                AMP310A
                            Report Options

Report Name:  INVENTORY REPORT                      Criteria Name:

                        Enter X for desired Option(s)

            Choose at least one output

            X 1.  Generate a printed report
            _ 2.  Generate a workfile (Enter name below):
                  KUFASWD . ________ . ________ . ________ . ________

            Choose one report type
            _ 3.  Yearly data                   _ 4.  Quarterly data

            Choose one retrieval option
            _ 5.  Include all data & flag data that fails Summary Criteria
            _ 6.  Include only data that meets Summary Criteria

            Choose desired report option
            _ 7.  Generate the Precision-Accuracy Report

  PF3=end      PF4=main menu      PF5=terminate      PF9=save criteria
```

Figure 5-35. Report Options Screen for the Inventory Report

Instructions

You may choose either or both of the following report options:

option 1	generate a printed report
option 2	generate a work file (disk).

If you choose a work file, you must specify a dataset name for it; otherwise, you may not specify a dataset name.

You may choose the following additional report option:

option 3	generate the Precision-Accuracy report.

Read Section 3.6.1 if you are not familiar with how to use the report options screen. Section 3.6.2 describes the characteristics of valid dataset names.

Error Messages

The error messages listed below (in alphabetical order) are displayed at the top of the report options screen if you make a mistake in specifying report options.

DATASET NAME IS INVALID
The work file dataset name is not valid. Refer to Section 3.6.2 of this volume for a description of dataset naming conventions.

DATASET NAME NOT ALLOWED WITHOUT SPECIFYING OPTION 2
If a work file is not selected as an output (option 2), the dataset name must be blank.

OPTION 3 IS NOT ALLOWED WITHOUT SPECIFYING OPTION 1 OR 2
If option 3 is selected, either option 1 or 2 must have been selected.

PLEASE CHOOSE OPTION 1 OR 2 FOR OUTPUT
Either a printed report (option 1) or a work file (option 2) must be selected as a report output.

PLEASE ENTER A VALID DATASET NAME
If a work file is selected, a dataset name must be specified.

PLEASE ENTER BLANK OR 'X'
Only blank and "X" are valid entries for selecting report options. To select an option, type "X" beside it.

PLEASE USE A VALID PF-KEY
A PF key not defined for this screen was used.

5.11.3 Data Selection Options

You may select which sites are included in the Inventory Report using the select criteria screen. A sample screen is shown in Figure 5-36. The leftmost portion of the screen is shown at the top of the figure and the rightmost portion is shown at the bottom.

There are three groups of selection criteria. The first group consists of "geographic" criteria. Only certain combinations of these fields are allowed. You may use any one of the following combinations of geographic selection fields:

state (code or abbreviation)
state + county
state + county + site
state + reporting organization
state + city
state + AQCR
AQCR
urban area
MSA
CMSA
MSA-rep
CMSA-rep
status area

The second group of selection criteria consists of the following optional fields:

parameter
method
interval
monitor type

The third group of selection criteria consists of the following required fields:

begin year
end year

In a given line on the select criteria screen, you must specify all the fields in the third group of selection criteria and either parameter or one of the geographic criteria in the first group. You may use any of the criteria in the second group in addition to other criteria. If you specify method, you must also specify parameter.

In addition to the monitor type codes listed in Volume GC2 of the AIRS User's Guide, you may use the code "B" to select both NAMS and SLAMS monitors and code "P" to select PAMS monitors.

```
09/30/92                    AIRS Air Quality Subsystem                    AMP310B
                                 Select Criteria                          Page 1/2

Report Name:  INVENTORY REPORT                                Criteria Name:

                                PARA-                    BEGIN  END   MON
  ST  CNTY  SITE  METER  METH  INT                       YEAR   YEAR  TYPE  CITY  AQCR  REP ORG  URBAN AREA
  __  ___   ____  _____  ____  _                         ____   ____  ____  ____  ____  _______  _____
  __  ___   ____  _____  ____  _                         ____   ____  ____  ____  ____  _______  _____
  __  ___   ____  _____  ____  _                         ____   ____  ____  ____  ____  _______  _____
  __  ___   ____  _____  ____  _                         ____   ____  ____  ____  ____  _______  _____
  __  ___   ____  _____  ____  _                         ____   ____  ____  ____  ____  _______  _____
  __  ___   ____  _____  ____  _                         ____   ____  ____  ____  ____  _______  _____
  __  ___   ____  _____  ____  _                         ____   ____  ____  ____  ____  _______  _____
  __  ___   ____  _____  ____  _                         ____   ____  ____  ____  ____  _______  _____
  __  ___   ____  _____  ____  _                         ____   ____  ____  ____  ____  _______  _____
  __  ___   ____  _____  ____  _                         ____   ____  ____  ____  ____  _______  _____

PF1=help    PF2=duplicate   PF3=end  PF4=main menu   PF5=terminate   PF6=rpt options
PF7=back    PF8=more        PF9=save criteria        PF10=left      PF11=right
```

```
09/30/92                    AIRS Air Quality Subsystem                    AMP310B
                                 Select Criteria                          Page 2/2

Report Name:  INVENTORY REPORT                                Criteria Name:

                                MSA    CMSA   STATUS
  MSA   CMSA  MSA REP  CMSA REP  AREA
  ____  ____  _______  ________  ____
  ____  ____  _______  ________  ____
  ____  ____  _______  ________  ____
  ____  ____  _______  ________  ____
  ____  ____  _______  ________  ____
  ____  ____  _______  ________  ____
  ____  ____  _______  ________  ____
  ____  ____  _______  ________  ____
  ____  ____  _______  ________  ____
  ____  ____  _______  ________  ____

PF1=help    PF2=duplicate   PF3=end  PF4=main menu   PF5=terminate   PF6=rpt options
PF7=back    PF8=more        PF9=save criteria        PF10=left      PF11=right
```

Figure 5-36. Select Criteria Screen for the Inventory Report

Online Help is available for all of the selection criteria fields except BEGIN-DATE and END-DATE. The Help facility allows you to browse through tables of values, with descriptions, for the codes you need to enter, and then to select the value that you wish to use. The Help facility is described in detail in Section 3.6.4.

Instructions

Enter selection criteria into the available fields on the select criteria screen, or alter the previously saved criteria displayed on the screen if you wish. You must specify criteria in at least one line on the screen. Press the ENTER key when you have finished entering or altering the criteria.

Read Section 3.6.3 if you are not familiar with how to use the select criteria screen. Refer to Volume GC2 of the AIRS User's Guide for lists of valid codes to use for selection criteria.

Press PF1=help for general information about the select criteria process. For Field-specific Help, enter a "?" in the first position of any field (except BEGIN-DATE or END-DATE).

Error Messages

The error messages listed below (in alphabetical order) are displayed at the top of the select criteria screen if you make a mistake in specifying selection criteria. See Volume GC4 of the AIRS User's Guide for explanations of the error messages that you may encounter while using Field-specific Help.

A PARAMETER IS REQUIRED FOR STATUS-AREA CODE
If status area is entered, parameter must be entered.

A STATE IS REQUIRED FOR CITY
If city is entered, state must be entered.

A STATE IS REQUIRED FOR COUNTY
If county is specified, state must be specified.

A STATE IS REQUIRED FOR REPORT-ORG
If reporting organization is entered, state must be entered.

ENTER SELECTION CRITERIA OR USE A PF-KEY TO ESCAPE
ENTER was pressed without any selection criteria specified. Either specify criteria and press ENTER or use one of the valid PF keys to transfer to another screen or terminate the AIRS session.

PF2 INVALID - MAXIMUM NUMBER OF SELECTION CRITERIA HAS BEEN SPECIFIED
Do not press PF2 when the last select criteria screen is full.

PF2 INVALID - THERE ARE NO SELECTION CRITERIA TO DUPLICATE
Do not press PF2 without entering at least one selection criterion.

PF7 INVALID - THIS IS THE FIRST SELECT CRITERIA SCREEN
Do not press PF7 from the first select criteria screen; it is used to page backward.

PF8 INVALID - THIS IS THE FINAL SELECT CRITERIA SCREEN
Do not press PF8 from the last select criteria screen; it is used to page forward.

PF10 INVALID - THIS IS THE LEFT-MOST SELECT CRITERIA SCREEN
Do not press PF10 while the leftmost select criteria screen is displayed.

PF11 INVALID - THIS IS THE RIGHT-MOST SELECT CRITERIA SCREEN
Do not press PF11 while the rightmost select criteria screen is displayed.

PLEASE DO NOT ENTER BOTH STATE AND CMSA CODE
Do not enter both state and CMSA code.

PLEASE DO NOT ENTER BOTH STATE AND CMSA-REP CODE
Do not enter both state and CMSA-rep code.

PLEASE DO NOT ENTER BOTH STATE AND MSA CODE
Do not enter both state and MSA code.

PLEASE DO NOT ENTER BOTH STATE AND MSA-REP CODE
Do not enter both state and MSA-rep code.

PLEASE DO NOT ENTER BOTH STATE AND STATUS-AREA CODE
Do not enter both state and status area code.

PLEASE DO NOT ENTER BOTH STATE AND URBAN-AREA CODE
Do not enter both state and urban area as select criteria.

PLEASE ENTER A NUMERIC BEGIN-YEAR
The begin year entered must be numeric.

PLEASE ENTER A NUMERIC END-YEAR
The end year entered must be numeric.

PLEASE ENTER A PARAMETER CODE WITH THE METHOD CODE
If method is entered, parameter must be entered.

PLEASE ENTER A VALID AQCR CODE
The AQCR code is not valid.

PLEASE ENTER A VALID CITY CODE
The combination of city and state codes is not valid.

PLEASE ENTER A VALID CMSA CODE
The CMSA code entered must be in the AIRS GEO-COMMON File.

PLEASE ENTER A VALID CMSA-REP CODE
The CMSA-rep code entered must be in the AIRS GEO-COMMON File.

PLEASE ENTER A VALID COUNTY CODE
The combination of county and state codes is not valid.

PLEASE ENTER A VALID INTERVAL CODE
The interval code is not valid.

PLEASE ENTER A VALID METHOD CODE
The combination of method and parameter codes is not valid.

PLEASE ENTER A VALID MONITOR-TYPE CODE
The monitor type code is not valid. Use a code listed in Volume GC2, or use "B" to select both NAMS and SLAMS monitor types or "P" to select PAMS monitor types.

PLEASE ENTER A VALID MSA CODE
The MSA code entered must be in the AIRS GEO-COMMON File.

PLEASE ENTER A VALID MSA-REP CODE
The MSA-rep code entered must be in the AIRS GEO-COMMON File.

PLEASE ENTER A VALID PARAMETER CODE
The parameter code is not valid.

PLEASE ENTER A VALID REPORT-ORG
The combination of reporting organization and state is not valid.

PLEASE ENTER A VALID SITE CODE
The combination of state, county, and site does not match any existing site-ID in the Site file.

PLEASE ENTER A VALID STATE ABBREVIATION
The state abbreviation is not valid.

PLEASE ENTER A VALID STATE CODE
The state code is not valid.

PLEASE ENTER A VALID STATUS-AREA CODE FOR PARAMETER
The combination of status area and parameter entered must be in the AIRS GEO-COMMON File.

PLEASE ENTER A VALID URBAN-AREA CODE

The urban area code is not valid.

PLEASE ENTER AN END-YEAR THAT IS GREATER THAN OR EQUAL TO THE BEGIN-YEAR

The end year must be greater than or equal to the begin year.

PLEASE ENTER ONE: STATE, PARAMETER, AQCR, URBAN-AREA, MSA, CMSA, MSA-REP, CMSA-REP, OR STATUS AREA

One of the geographic criteria or parameter must be used in each line of select criteria.

PLEASE ENTER ONLY ONE: AQCR, URBAN-AREA, CITY, REPORT-ORG, COUNTY, MSA, CMSA, MSA-REP, CMSA-REP, OR STATUS-AREA

Only the combinations of geographic selection criteria listed at the beginning of this section are valid.

PLEASE FILL ALL LINES BEFORE GOING ON TO THE NEXT SCREEN

PF8 is valid only when the current screen is full or when there are more criteria on a subsequent screen.

PLEASE USE A VALID PF-KEY

A PF key not defined for this screen was used.

REPORT BEGINNING YEAR REQUIRED FOR THIS REPORT

Begin year must be entered.

REPORT ENDING YEAR IS REQUIRED FOR THIS REPORT

End year must be entered.

STATUS-AREA CODE NOT ALLOWED WITH THIS PARAMETER

A status area was entered for a parameter that does not allow entry of a status area.

THE COUNTY CODE IS REQUIRED WITH THE SITE CODE

If site is specified, county must be specified.

5.11.4 Data Sorting Options

The sort sequence you specify determines the order of entries in the Inventory Report and work file. The sort criteria screen, shown in Figure 5-37, allows you to establish the sort sequence. The default sort sequence is by state, county, site, parameter, POC, method, interval, monitor type, and date.

You may alter or delete the existing sort sequence and enter new sort criteria, using any of the numbered fields shown on the screen. All of the sort fields are allowed for this report.

If you use report criteria that were saved previously for a different report, the sort criteria program may alter the saved sort specifications to conform with the requirements for this report. Otherwise, the saved sort sequence is not altered.

The state, county, site, parameter, POC, interval, monitor type, and date fields are added to your sort sequence automatically if you do not specify them. This is done to ensure that the sorting process will eliminate any duplicate records from the report. (Duplicates could occur if a monitoring site were selected by more than one of your selection "cards".) The fields are inserted at the end of the sequence you specified.

```
09/30/92                AIRS Air Quality Subsystem                AMP310C
                            Sort Criteria

Report Name:  INVENTORY REPORT                    Criteria Name:

   1.  State              6.  Reporting Org        11.  Method
   2.  County             7.  Urban Area           12.  Interval
   3.  Site               8.  EPA Region           13.  Monitor Type
   4.  Parameter          9.  City                 14.  Date
   5.  POC               10.  AQCR

 Enter the numbers of the Sort Elements above in the desired Sort Sequence:

              _1  _2  _3  _4  _5  12  14  __  __  __  __  __  __  __

 PF3=end    PF4=main menu    PF5=terminate    PF6=select criteria    PF9=save criteria
```

Figure 5-37. Sort Criteria Screen for the Inventory Report

Instructions

Read Section 3.6.4 of this manual if you are not familiar with how to use the sort criteria screen.

Choose any or all of the allowed sort fields listed above, subject to the following rules:

1. If you use EPA region, it must be the first sort field.
2. State must precede county and city.
3. City or county must precede site.
4. Parameter must precede method and POC.

Error Messages

The error messages listed below (in alphabetical order) are displayed at the top of the sort criteria screen if you make a mistake in specifying sort criteria.

CITY OR COUNTY REQUIRED BEFORE SITE

Sorting by site without also specifying county or city was requested, or site was specified before city or county. Since site is meaningful only within county, state and county or state and city must be specified before site in the sort sequence. (If city is specified, county is inserted automatically in the sort sequence just before site.) Add the necessary field(s) to the sort sequence or change the order so site is after city and county.

ERROR - REPEATED SORT CRITERIA

Each sort criterion may be entered only once.

PARAMETER CODE REQUIRED BEFORE METHOD

Method was specified without parameter or they were specified in the wrong order. Add parameter to the sort sequence, eliminate method, or change the order so method follows parameter.

PARAMETER CODE REQUIRED BEFORE POC

POC was specified without parameter or they were specified in the wrong order. Add parameter to the sort sequence, eliminate POC, or change the order so POC follows parameter.

PLEASE ENTER A NUMBER IN THE RANGE 1 THROUGH 14

The sort specification at the cursor is not valid, and you must change it. Valid entries are blank or one of the sort field numbers allowed for this report: 1 - 14. Remember that you must enter two digits for each sort specification.

PLEASE USE A VALID PF-KEY

A PF key not defined for this screen was used.

REGION CAN ONLY BE THE FIRST SORT CRITERION

If EPA region is used, it must be first in the sort sequence. Either move region to the first position or eliminate it from the sort specification.

STATE CODE REQUIRED BEFORE CITY

Sorting by city without also specifying state was requested, or city was specified before state. Since city is meaningful only within state, state must be specified before city in the sort sequence. Add state to the sort sequence, eliminate city, or change the order so city is after state.

STATE CODE REQUIRED BEFORE COUNTY

Sorting by county without also specifying state was requested, or they were specified in the wrong order. Since county is meaningful only within state, state must be specified before county in the sort sequence. Add state to the sort sequence, eliminate county, or change the order so county follows state.

STATE CODE REQUIRED BEFORE REPORT-ORG

Sorting by reporting organization without also specifying state was requested, or reporting organization was specified before state. Since reporting organization is meaningful only within state, state must be specified before reporting organization in the sort sequence. Add state to the sort sequence, eliminate reporting organization, or change the order so reporting organization is after state.

5.12 Raw Data Listing (AMP350)

5.12.1 Description

The Raw Data Listing Report is a group of five report formats that display raw data values, calculate arithmetic and geometric means, and list maxima for pollutants extracted from the Air Quality Raw Data files. A sample of each report format is shown in Figure 5-38. The sampling interval of the record being displayed determines which of the five formats is used. If sampling interval is 1 through 6, B, X, Y, or Z, one of the two hourly report formats will be used. If the record being displayed contains exceptional event data, the hourly format consisting of two pages is generated; otherwise, the hourly format consisting of a single page is produced. Besides displaying the samples values, validity flags, and the day and hour of the sampling, arithmetic means and maxima are displayed whenever the interval is 1 through 6 or B. For intervals X, Y, and Z, the arithmetic mean is not displayed. Both hourly report formats list the total observations for each day, and the total observations for the month by a hourly basis (for 12:00 p.m., there could be 31 observations). Also, 75 percent of the values must be present for a given day before the arithmetic mean is displayed. When the single-page hourly format is produced, a monthly total line is produced displaying the total observations, monthly mean, and maximum sample value.

If the sampling interval is 7, the report format entitled "24 hour" will be produced. This report format displays a full year of daily sample values and validity flags, and identifies the month and day of the sampling. This format also displays the total observations, maxima, and arithmetic mean for the month and year.

If the sampling interval is 8, 9, or D, the monthly report format is produced. This is a single-page format that displays from 1 to 12 lines depending upon the interval in the record being reported. Each line in this report format will display the sample value, validity flag, and the month and year of the sampling. Maxima and means are not displayed on this report format.

If the sampling interval is A, the weekly report format is produced. This is a single-page format that displays a maximum of 26 lines. Each line describes two weeks of data by displaying the sample value, validity flag, and the month and day of the sampling.

If the sampling interval is C, the composite report format is produced. This is a single-page format when the composite-type is 1, 2, 3, or 5. When the composite-type is 4, two pages may be produced because up to 53 lines are needed to display the weekly samples. Besides identifying the sample value and the validity flag, each line displays the year of the sampling, the sample period, and the number of samples.

At the top of each report page, a brief description of the AIRS site and monitoring station is listed.

A Precision-Accuracy Report with the option of the P/A Monitor Summary Report, P/A RO Summary Report, or P/A Monitor Raw Data Report may be generated in conjunction with this report (see Section 5.3), which includes data for all the reporting organizations and years that appear in the Raw Data Listing Report.

DATE: 09/13/93 EPA AEROMETRIC INFORMATION RETRIEVAL SYSTEM (AIRS) PAGE 1
AMP350 AIR QUALITY SUBSYSTEM
RAW DATA REPORT 1-HOUR LISTING

(42401) SULFUR DIOXIDE CAS NUMBER: 7446095

STATE (42): PENNSYLVANIA
JAN 1990

SITE-ID: 42-007-0003 POC: 1 AQCR (197): SOUTHWEST PENNSYLVANIA LATITUDE: 40:41:04 N
COUNTY (007): BEAVER CO URBAN-AREA (6280):PITTSBURGH, PA LONGITUDE: 80:21:34 W
CITY (53288): NEW BRIGHTON LAND USE (4): AGRICULTURAL UTM ZONE: 17
SITE ADDRESS: SEBRING ROAD BRIGHTON TOWNSHI[P LOCATION SETTING (3): RURAL UTM-NORTHING: 4503714
SUPPORT AGENCY (001): PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL UTM-EASTING: 554129
SITE COMMENTS: BRIGHTON TOWNSHIP (SEBRING ROAD) PA SITE B24 ELEVATION-MSL: 1300 M
MONITOR COMMENTS: MANSFIELD POWER PLANT IS DOMINANT SOURCE PROBE HEIGHT: 4 M
MONITOR TYPE (2): SLAMS MINIMUM DETECTABLE: 2 INTERVAL: 1
UNITS (008): PARTS PER BILLION REPORTING ORGANIZATION (001): PENNSYLVANIA DEPARTMENT OF ENV
COLLECTION AND ANALYSIS METHOD (009): INSTRUMENTAL PULSED FLUORESCENT

DAY/HOUR	0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	OBS	MEAN
1	3	2	1	1	0	0	0	1	0	1	1	1	1	1	2	2	2	1	2	2	2	2	2	1	24	1
2	1	6	9	3	16	22	33	27	32	33	44	45	44	73	64	36	29	22	35	36	38	41	51	59	24	33
3	57	39	39	72	82	53	41	41	54	42	38	51	60	53	35	38	44	52	66	37	21	14	21	27	24	45
4	34	50	41	35	87	44	96	32	15	4		26	16	25	14	6	6	4	3	2	3	8	7	9	23	25
5	9	8	5	5	6	4	5	6	6	7	8	39	27	8	4	4	5	6	7	6	7	104	192	108	24	24
6	117	35	159	173	52	17	12	9	12	16	12	9	7	8	8	7	5	6	7	6	7	7	8	14	24	30
7	28	10	10	15	28	48	65	73	71	70	78	54	55	19	11	10	23	35	43	51	44	64	87	65	24	44
8	64	88	67	60	68	76	208	154	134	166	127	81	62	57	114	80	79	66	63	65	70	75	89	58	24	90
9	61	57	60	69	63	67	74	75	119	74	45	60	44	16	46	19	10	13	22	41	45	36	37	57	24	50
10	3	4	4	4	2	2	1	1	1	1	1	1			5	6	6	5	5	5	4	6	7	44	22	5
11	17	19	27	35	89	126	107	30	43	48	40	52	29	18	3	0	0	0	0	0	0	0	0	0	24	29
12	0	0	0	0	0	0	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	3	2	5	24	2
13	2	2	2	1	1	1	1	3	4	1	1	2	2	2	2	2	3	2	2	3	5	9	8	20	24	3
14	30	32	29	25	24	38	47	46	57	56	95	100	67	39	38	69	83	75	60	77	25	65	20	19	24	51
15	28	51	18	20	24	31	38	39	59	60	72	52	50	32	29	35	32	29	20	26	60	66	42	42	24	40
16	48	44	52	44	41	40	37	44	47	39	42	55	42	44	37	50	39	39	42	39	71	52	65	76	24	47
17	97	66	71	35	37	39	43	43	55	66	70	75	63	35	22	30	24	17	27	33	23	31	33	18	24	44
18	28	25	21	8	3	3	1	1	1	2	3	2	3	3	1	0	0	0	1	1	0	0	0	1	24	5
19	2	2	3	5	8	7	3	3	4	4	3	13	15	15	26	26	13	7	8	8	13	18	29	23	24	11
20	25	23	26	24	24	23	18	16	20	16	12	14	15	13	10	11	12	13	14	13	12	10	14	19	24	17
21	44	12	7	5	4	4	4	7	9	2	1	1	2	5	3	3	3	3	3	3	2	3	3	5	24	6
22	6	13	40	69	27	16	17	31	46	24	47														11	
23																	33	46	93	84	24	20	27	117	8	
24	111	24	21	15	12	23	29	32	30	21	14	15	17	18	19	7	4	10	23	19	33	40	157	121	24	34
25	149	98	61	74	70	28	21	16	74	94	30	19	10	34	82	7	1	1	0	2	2	5	7	8	24	37
26	3	3	6	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	13	20	40	24	4
27	111	103	56	63	55	71	103	66	91	215	201	70	53	71	33	40	4	0	7	23	29	22	33	27	24	65
28	12	44	5	0	0	0	0	0	0	0	0	0	0	2	5	8	17	12	0	8	5	6	8	6	24	6
29	6	9	10	8	33	77	96	30	20	29	7	6	8	9	5	10	15	11	11	9	11	6	12	12	24	19
30	17	4	5	6	5	5	6	7	8	31	96	75	51	50	90	59	56	44	46	125	69	55	40	45	24	41
31	68	99	201	112	279	95	79	82	82	59	34	42	45	93	62	67	75	61	21	22	118	108	219	206	24	97
NO.	30	30	30	30	30	30	30	30	30	30	29	29	28	28	29	29	30	30	30	30	30	30	30	30		
MAX	149	103	201	173	279	126	208	154	134	215	201	100	67	93	114	80	83	75	93	125	118	108	219	206		
MEAN	39	32	35	33	38	32	40	31	37	40	39	33	28	27	27	22	21	20	21	25	25	30	41	42		

MONTHLY OBSERVATIONS 712 MONTHLY MEAN 32 MONTHLY MAXIMUM 279

Figure 5-38. Raw Data Listing Report (1 of 7)
"Hourly" Format (< 24 hours), Intervals 1, 2, 3, 4, 5, 6, B
This format is used when there are no exceptional events in the data.

DATE: 09/13/93 EPA AEROMETRIC INFORMATION RETRIEVAL SYSTEM (AIRS) PAGE 19
AMP350 AIR QUALITY SUBSYSTEM
RAW DATA REPORT 1-HOUR LISTING

(44201) OZONE CAS NUMBER: 10028156

STATE (42): PENNSYLVANIA
JUL 1987

SITE-ID: 42-007-0003 POC: 1 AQCR (197): SOUTHWEST PENNSYLVANIA LATITUDE: 40:41:04 N
COUNTY (007): BEAVER CO URBAN-AREA (6280):PITTSBURGH, PA LONGITUDE: 80:21:34 W
CITY (53288): NEW BRIGHTON LAND USE (4): AGRICULTURAL UTM ZONE: 17
SITE ADDRESS: SEBRING ROAD BRIGHTON TOWNSHI[P LOCATION SETTING (3): RURAL UTM-NORTHING: 4503714
SUPPORT AGENCY (001): PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL UTM-EASTING: 554129
SITE COMMENTS: BRIGHTON TOWNSHIP (SEBRING ROAD) PA SITE 824 ELEVATION-MSL: 1300 M
MONITOR COMMENTS: PROBE HEIGHT: M
MONITOR TYPE (2): SLAMS MINIMUM DETECTABLE: .005 INTERVAL: 1
UNITS (007): PPM REPORTING ORGANIZATION (001): PENNSYLVANIA DEPARTMENT OF ENV
COLLECTION AND ANALYSIS METHOD (014): INSTRUMENTAL ULTRA VIOLET

	0000 1200	0100 1300	0200 1400	0300 1500	0400 1600	0500 1700	0600 1800	0700 1900	0800 2000	0900 2100	1000 2200	1100 2300	# OBS/ MEAN
1 W	.016	.008	.001	.008	.004	.006	.002	.003	.003	.005	.005	.008	24
	.015	.026	.034	.037	.044	.040	.037	.042	.036	.026	.028	.027	.019
2 T	.025	.019	.019	.020	.020	.012	.004	.001	.001	.009	.009	.014	24
	.016	.017	.021	.022	.024	.046	.049	.048	.039	.034	.034	.031	.022
3 F	.029	.031	.035	.033	.032	.032	.034	.031		.029	.022	.029	23
	.043	.043	.040	.049	.043	.056	.055	.053	.053	.050	.045	.030	.039
4 S	.046	.035	.038	.038	.036	.041	.040	.035	.032	.036	.044	.049	24
	.050	.052	.052	.048	.048	.052	.055	.052	.051	.048	.035	.026	.043
5 S	.024	.024	.030	.030	.025	.019	.011	.016	.020	.031	.026	.057	24
	.062	.055	.060	.062	.067	.077	.070	.070	.059	.059	.042	.037	.043
6 M	.028	.017	.018	.013	.006	.002	.003	.008	.015	.021	.030	.016	24
	.017	.024	.025	.034	.048	.050	.042	.035	.031	.031	.010	.013	.022
7 T	.023	.014	.005	.006	.002	.012	.014	.008	.009	.013	.025	.037	24
	.045	.039	.027	.032	.031	.042	.031	.020	.018	.034	.032	.033	.023
8 W	.024	.019	.013	.010	.001	.003	.006	.006	.015	.026	.039	.044	24
	.039	.042	.034	.044	.047	.041	.038	.048	.045	.032	.026	.020	.028
9 T	.027	.021	.033	.034	.031	.027	.026	.026	.029	.034	.042	.045	24
	.047	.041	.044	.048	.045	.048	.046	.043	.044	.040	.019	.012	.036
10 F	.015	.024	.022	.003	.005	.006	.006	.016	.019	.023	.028	.037	24
	.044	.045	.046	.046	.044	.048	.046	.046	.043	.042	.038	.031	.030
11 S	.021	.013	.004	.006	.006	.004	.001	.011	.025	.031	.044	.050	24
	.048	.043	.034	.031	.048	.045	.045	.049	.045	.044	.041	.033	.030
12 S	.030	.025	.022	.020	.018	.016	.017	.015	.015	.021	.006	.005	24
	.024	.043	.048	.044	.047	.045	.049	.043	.043	.044	.046	.041	.030
13 M	.027	.034	.030	.024	.013	.007	.009	.004	.002	.010	.035	.030	24
	.049	.043	.038	.041	.039	.038	.049	.058	.055	.048	.021	.037	.031
14 T	.027	.018	.020	.017	.024	.021	.021	.015	.017	.015	.013	.014	24
	.020	.024	.026	.040	.044	.039	.038	.038	.031	.022	.021	.031	.025
15 W	.032	.031	.030	.028	.023	.018	.013	.014	.013	.029	.032	.037	24
	.038	.042	.043	.047	.048	.042	.042	.030	.035	.031	.033	.020	.031
16 T	.014	.028	.037	.035	.017	.013	.015	.003	.008	.025	.031	.038	24
	.044	.053	.058	.066	.068	.072	.071	.063	.063	.048	.033	.039	.039
17 F	.030	.021	.006	.006	.003	.000	.002	.005	.011	.015	.038	.061	24
	.070	.074	.075	.101	.104	.090	.082	.081	.074	.072	.074	.051	.048
18 S	.015	.033	.034	.006	.018	.023	.010	.053	.040	.032	.049	.058	24
	.077	.083	.077	.079	.082	.080	.078	.074	.071	.064	.061	.058	.052
19 S	.053	.046	.052	.054	.051	.044	.042	.038	.036	.052	.062	.067	24
	.068	.066	.069	.069	.068	.065	.062	.065	.068	.060	.056	.050	.057

Figure 5-38. Raw Data Listing Report (2 of 7)
"Hourly" Format (< 24 hours), Intervals 1, 2, 3, 4, 5, 6, B
This format is used when there are exceptional events in the data (Part 1).

DATE: 09/13/93 EPA AEROMETRIC INFORMATION RETRIEVAL SYSTEM (AIRS) PAGE 20
AMP350 AIR QUALITY SUBSYSTEM
RAW DATA REPORT 1-HOUR LISTING

(44201) OZONE CAS NUMBER: 10028156

STATE (42): PENNSYLVANIA
JUL 1987

SITE-ID: 42-007-0003 POC: 1 AQCR (197): SOUTHWEST PENNSYLVANIA LATITUDE: 40:41:04 N
COUNTY (007): BEAVER CO URBAN-AREA (6280):PITTSBURGH, PA LONGITUDE: 80:21:34 W
CITY (53288): NEW BRIGHTON LAND USE (4): AGRICULTURAL UTM ZONE: 17
SITE ADDRESS: SEBRING ROAD BRIGHTON TOWNSHI[P LOCATION SETTING (3): RURAL UTM-NORTHING: 4503714
SUPPORT AGENCY (001): PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL UTM-EASTING: 554129
SITE COMMENTS: BRIGHTON TOWNSHIP (SEBRING ROAD) PA SITE B24 ELEVATION-MSL: 1300 M
MONITOR COMMENTS: PROBE HEIGHT: M
MONITOR TYPE (2): SLAMS MINIMUM DETECTABLE: .005 INTERVAL: 1
UNITS (007): PPM REPORTING ORGANIZATION (001): PENNSYLVANIA DEPARTMENT OF ENV
COLLECTION AND ANALYSIS METHOD (014): INSTRUMENTAL ULTRA VIOLET

	0000 1200	0100 1300	0200 1400	0300 1500	0400 1600	0500 1700	0600 1800	0700 1900	0800 2000	0900 2100	1000 2200	1100 2300	# OBS/ MEAN
20 M	.055	.050	.038	.036	.037	.041	.041	.042	.045	.048	.056	.062	24
	.063	.061	.061	.061	.061	.060	.059	.057	.056	.052	.047	.050	.052
21 T	.050	.048	.045	.044	.041	.038	.038	.034	.035	.039	.046	.058	24
	.061	.065	.063	.071	.077	.078	.086	.083	.084	.079	.071	.066	.058
22 W	.061	.059	.062	.057	.058	.053	.047	.038	.035	.047	.069	.077	24
	.071	.068	.070	.069	.072	.076	.078	.081	.075	.065	.062	.060	.063
23 T	.059	.062	.059	.046	.014	.028	.035	.031	.019	.041	.075	.077	24
	.077	.073	.069	.070	.070	.071	.067	.069	.063	.061	.061	.057	.056
24 F	.063	.062	.070	.076	.068	.055	.022	.017	.028	.035	.060	.073	24
	.074	.072	.069	.072	.084	.090	.087	.093	.091	.088	.081	.066	.067
25 S	.072	.075	.051	.037	.040	.027	.028	.032	.037	.044	.045	.049	24
	.054	.060	.058	.057	.055	.053	.053	.048	.039	.028	.038	.034	.046
26 S	.039	.039	.030	.034	.036	.035	.036	.036	.039	.039	.043	.044	24
	.045	.047	.051	.054	.056	.058	.057	.054	.056	.053	.053	.050	.045
27 M	.048	.046	.041	.039	.034	.031	.026	.024	.023	.025	.034		11
28 T			.035	.035	.025	.018	.018	.014	.010	.022	.028	.034	22
	.044	.050	.054	.052	.054	.053	.053	.047	.050	.047	.045	.044	.038
29 W	.032	.036	.061	.026	.017	.028	.010	.006	.009	.021	.030	.063	24
	.071	.073	.075	.078	.081	.079	.077	.073	.068	.056	.037	.053	.048
30 T	.146 B	.255 B	.092 B	.054	.065	.003	.012	.046	.036	.029	.062	.042	24
	.036	.068	.084	.079	.076	.063	.060	.025	.032	.044	.052	.059	.063
31 F	.056	.054	.045	.046	.037	.026	.018	.013	.029	.040	.046	.064	24
	.069	.049	.038	.059	.060	.054	.051	.044	.039	.032	.029	.029	.043
AM:													
	2400	0100	0200	0200	0400	0500	0600	0700	0800	0900	1000	1100	
NO.	30	30	31	31	31	31	31	31	30	31	31	30	
MAX	.146	.255	.092	.076	.068	.055	.047	.053	.045	.052	.075	.077	
MEAN	.040	.042	.035	.030	.026	.022	.020	.021	.022	.029	.038	.045	
PM:													
	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	
NO.	30	30	30	30	30	30	30	30	30	30	30	30	
MAX	.077	.083	.084	.101	.104	.090	.087	.093	.091	.088	.081	.066	
MEAN	.049	.051	.051	.055	.058	.059	.057	.054	.052	.048	.042	.040	

MONTHLY OBSERVATIONS 728 MONTHLY MEAN .041 MONTHLY MAXIMUM .255

Figure 5-38. Raw Data Listing Report (3 of 7)
"Hourly" Format (< 24 hours), Intervals 1, 2, 3, 4, 5, 6, B
This format is used when there are exceptional events in the data (Part 2).

DATE: 09/14/93 EPA AEROMETRIC INFORMATION RETRIEVAL SYSTEM (AIRS) PAGE 1
AMP350 AIR QUALITY SUBSYSTEM
RAW DATA REPORT - 24 HOUR

(11101) SUSPENDED PARTICULATE (TSP) CAS NUMBER:

STATE (01): ALABAMA
YEAR: 1990

SITE-ID: 01-089-0014 POC: 1 AQCR (007): TENNESSEE RIVER VALLEY-CUMBERLAND MOUNTAI LATITUDE: 34:41:27 N
COUNTY (089): MADISON CO URBAN-AREA (3440):HUNTSVILLE, AL LONGITUDE: 86:34:59 W
CITY (37000): HUNTSVILLE LAND USE (2): COMMERCIAL UTM ZONE: 16
SITE ADDRESS: HUNTSVILLE OLD AIRPORT ROAD. LOCATION SETTING (2): SUBURBAN UTM-NORTHING: 3838641
SUPPORT AGENCY (014): DEPT. OF NAT. RES. AND ENV. MANAGEMENT UTM-EASTING: 538190
SITE COMMENTS: NAMS TSP. SLAMS, SPM, PM10S. SLAMS 03, SLAMS CO. ELEVATION-MSL: 183 M
MONITOR COMMENTS: 91 PROBE HEIGHT: 4 M
MONITOR TYPE (3): OTHER MINIMUM DETECTABLE: 1 INTERVAL: 7
UNITS (001): UG/CU METER (25 C) REPORTING ORGANIZATION (014): DEPT. OF NAT. RES. AND ENV. MA
COLLECTION AND ANALYSIS METHOD (091): HI-VOL GRAVIMETRIC

DAY	JAN	EX	FEB	EX	MAR	EX	APR	EX	MAY	EX	JUN	EX	JUL	EX	AUG	EX	SEP	EX	OCT	EX	NOV	EX	DEC	EX
1	-		-		-		-		-		-		-		-		-		-		-		-	
2	-		-		-		-		-		-		-		-		-		-		-		-	
3	-		-		-		-		-		-		-		-		-		-		-		-	
4	-		15		-		-		-		-		-		-		-		-		-		-	
5	44		-		-		84		29		-		-		-		-		-		-		-	
6	-		-		84		-		-		-		-		-		-		-		-		-	
7	-		-		-		-		-		-		-		-		-		-		-		-	
8	-		-		-		-		-		-		-		-		-		-		-		-	
9	-		-		-		-		-		-		-		-		-		-		-		-	
10	-		29		-		-		-		-		-		-		-		-		-		-	
11	75		-		-		52		48		-		-		-		-		-		-		-	
12	-		-		9988		-		-		-		-		-		-		-		-		-	
13	-		-		-		-		-		-		-		-		-		-		-		-	
14	-		-		-		-		-		-		-		-		-		-		-		-	
15	-		-		-		-		-		-		-		-		-		-		-		-	
16	-		29		-		-		-		-		-		-		-		-		-		-	
17	34		-		-		72		35		-		-		-		-		-		-		-	
18	-		-		9988		-		-		-		-		-		-		-		-		-	
19	-		-		-		-		-		-		-		-		-		-		-		-	
20	-		-		-		-		-		-		-		-		-		-		-		-	
21	-		-		-		-		-		-		-		-		-		-		-		-	
22	-		20		-		-		-		-		-		-		-		-		-		-	
23	53		-		-		110		65		-		-		-		-		-		-		-	
24	-		-		90		-		-		-		-		-		-		-		-		-	
25	-		-		-		-		-		-		-		-		-		-		-		-	
26	-		-		-		-		-		-		-		-		-		-		-		-	
27	-		-		-		-		-		-		-		-		-		-		-		-	
28	-		85		-		-		-		-		-		-		-		-		-		-	
29	29		-		-		9976		61		-		-		-		-		-		-		-	
30	-		-		31		-		-		-		-		-		-		-		-		-	
31	-		-		-		-		-		-		-		-		-		-		-		-	
NBR OBS:	5		5		3		4		5															
MAX VALUE:	75		85		90		110		65															
ARITH MEAN:	47		36		68		80		48															

NBR OBS: 22 MAX VALUE 110 ARITH MEAN: 53

Figure 5-38. Raw Data Listing Report (4 of 7)
"Daily" Format, Interval 7 (24 hours)

DATE: 09/23/93 EPA AEROMETRIC INFORMATION RETRIEVAL SYSTEM (AIRS) PAGE 1
AMP350 AIR QUALITY SUBSYSTEM
RAW DATA REPORT - 1 WEEK

(65102) RAIN/MELT PRECIP CAS NUMBER:

STATE (01): ALABAMA
YEAR: 1990

SITE-ID: 01-051-0002 POC: 1
COUNTY (051): ELMORE CO
CITY (74688): TALLASSEE
SITE ADDRESS: 164 MCNEAL ST., TALLASSEE, AL 36078
SUPPORT AGENCY (011): AL DEPT. OF ENV. MGT.
SITE COMMENTS:
MONITOR COMMENTS:
MONITOR TYPE (3): OTHER
UNITS (021): INCHES (RAINFALL)
COLLECTION AND ANALYSIS METHOD (011): BUCKET CONTINUOUS OR INCREMENTAL

AQCR (002): COLUMBUS-PHENIX CITY
URBAN-AREA (5240):MONTGOMERY, AL
LAND USE (1): RESIDENTIAL
LOCATION SETTING (2): SUBURBAN

MINIMUM DETECTABLE: .01
REPORTING ORGANIZATION (011): AL DEPT. OF ENV. MGT.

LATITUDE: 32:34:60 N
LONGITUDE: 85:55:57 W
UTM ZONE: 16
UTM-NORTHING: 3605410
UTM-EASTING: 600192
ELEVATION-MSL: 400 M
PROBE HEIGHT: 2 M
INTERVAL: A

MONTH/ DAY	VALUE	EXCEPTIONAL DATA	MONTH/ DAY	VALUE	EXCEPTIONAL DATA
01/09	3.55		01/23	1.56	
02/06	.27		02/13	1.26	
02/22	3.54		02/28	.54	
03/06	.62		03/20	8.22	
04/03	.89		04/10	.53	
04/17	1.67		05/01	.66	
05/17	2.17		05/23	1.44	
06/05	.06		06/12	.25	
06/19	.26		06/26	1.02	
07/07	.25		07/10	.79	
07/17	.30		07/24	.37	
08/21	.08		09/04	.30	
09/18	.35		10/23	1.59	
11/06	.15		11/13	1.47	
11/27	.15				

Figure 5-38. Raw Data Listing Report (5 of 7)
"Daily" Format, Interval A (1 week)

```
DATE: 09/23/93                    EPA AEROMETRIC INFORMATION RETRIEVAL SYSTEM (AIRS)                    PAGE     1
AMP350                                        AIR QUALITY SUBSYSTEM
                                          RAW DATA REPORT - 1 MONTH
            (21101) TOTAL DUSTFALL                                                    CAS NUMBER:
                                              STATE (01): ALABAMA

SITE-ID: 01-077-1004    POC: 1                AQCR (007): TENNESSEE RIVER VALLEY-CUMBERLAND MOUNTAI LATITUDE:  34:48:28 N
COUNTY (077):   LAUDERDALE CO                 URBAN-AREA (0000):NOT IN AN URBAN AREA                LONGITUDE: 87:37:47 W
CITY (00000):   NOT IN A CITY                 LAND USE (3): INDUSTRIAL                              UTM ZONE: 16
SITE ADDRESS:   2.3 MI NNE OF OACD            LOCATION SETTING (3): RURAL                           UTM-NORTHING: 3851740
SUPPORT AGENCY (000): ***000 NOT FOUND ***                                                          UTM-EASTING:   442400
SITE COMMENTS:  NW OF WILSON DAM                                                                  ELEVATION-MSL:   177 M
MONITOR COMMENTS: 81                                                                               PROBE HEIGHT:     3 M
MONITOR TYPE (0): UNKNOWN                     MINIMUM DETECTABLE:       1.4                       INTERVAL: 8
UNITS (090): TONS/SQ. MI./MONTH               REPORTING ORGANIZATION (000): ***000 NOT FOUND ***
COLLECTION AND ANALYSIS METHOD (081): BUCKET GRAVIMETRIC (ASTM)
```

MONTH/YEAR	VALUE	EXCEPTIONAL DATA
JAN 1975	14.4	
FEB 1975	11.0	
MAR 1975	23.9	
APR 1975	6.4	
MAY 1975	12.5	
JUN 1975	8.5	
JUL 1975	5.5	
AUG 1975	6.1	
SEP 1975	6.6	
OCT 1975	8.9	
NOV 1975	4.2	
DEC 1975	9.4	

Figure 5-38. Raw Data Listing Report (6 of 7)
"Daily" Format, Interval 8 (1 month)

```
DATE: 09/23/93                          EPA AEROMETRIC INFORMATION RETRIEVAL SYSTEM (AIRS)                          PAGE     1
AMP350                                                AIR QUALITY SUBSYSTEM
                                                   RAW DATA REPORT - COMPOSITE
                (17242) BENZO(A)PYRENE/TSP                                                    CAS NUMBER: 50328
                                                      STATE (01): ALABAMA

SITE-ID: 01-101-0001    POC: 1                    AQCR (002): COLUMBUS-PHENIX CITY                    LATITUDE:  32:21:55 N
COUNTY (101):   MONTGOMERY CO                     URBAN-AREA (0000):NOT IN AN URBAN AREA              LONGITUDE: 86:18:57 W
CITY (51000):   MONTGOMERY                        LAND USE (2): COMMERCIAL                            UTM ZONE: 16
SITE ADDRESS:   COUNTY HLTH CTR 515 W JEFF DAVIS AVE  LOCATION SETTING (1): URBAN AND CENTER CIT      UTM-NORTHING: 3580972
SUPPORT AGENCY (011): AL DEPT. OF ENV. MGT.                                                           UTM-EASTING:   564367
SITE COMMENTS:  FORMERLY NASN SITE 01-2460-001 A-01                                                 ELEVATION-MSL:    73 M
MONITOR COMMENTS: 91                                                                                 PROBE HEIGHT:    12 M
MONITOR TYPE (0): UNKNOWN                         MINIMUM DETECTABLE:       .20                     INTERVAL: C
UNITS (003): NG/CU METER (25 C)                   REPORTING ORGANIZATION (800): USEPA ATMOSPHERIC RESEARCH AND
COLLECTION AND ANALYSIS METHOD (091): HI-VOL THIN LAYER CHROMATOGRAPHY

                                        QUARTERLY COMPOSITE OF 24-HOUR SAMPLES
                                  SAMPLE                          EXCEPTIONAL   NUMBER
                             YEAR PERIOD        VALUE               DATA       SAMPLES
                             --   ------        ------              --
                             77       1           .21                            1
                             77       2           .03                            1
                             77       4           .08                            1
```

Figure 5-38. Raw Data Listing Report (7 of 7)
"Composite" Format, Interval C

5.12.2 Report Generation Options

The options available for the Raw Data Listing Report have to do with the output medium (printed report or work file), the report content (include exceptional event data, or report only flagged values, and/or display null data as blanks, and/or replace daily mean with daily maximum), and generation of the Precision-Accuracy Report with the option of the P/A Monitor Summary Report, P/A RO Summary Report, or P/A Monitor Raw Data Report. The report options screen, shown in Figure 5-39, allows you to select the type(s) of output and content you want.

The default option is to generate a printed report only and to include exceptional data. If you are using report criteria for the Raw Data Listing Report that you saved previously, your saved specifications for report options are displayed instead of the default.

The work file format for this report is given in Volume AQ1.

```
08/13/91                AIRS Air Quality Subsystem                AMP350A
                            Report Options

Report Name:  RAW DATA LISTING                    Criteria Name:

                      Enter X for desired Option(s)

          Choose at least one output

          X 1.  Generate a printed report
          _ 2.  Generate a workfile (Enter name below):
                KUFASWD . _______ . _______ . _______ . _______

          Choose desired Report Option(s)

          _ 3.  Generate a Precision-Accuracy Report
                _ Monitor Summary  _ RO Summary  _ Monitor Data
          X 4.  Include exceptional event data
          _ 5.  Display null data as blanks
          _ 6.  Report only exceptional event data
          _ 7.  Replace daily mean with daily maximum value

  PF3=end      PF4=main menu      PF5=terminate      PF9=save criteria
```

Figure 5-39. Report Options Screen for the Raw Data Listing Report

Instructions

You must choose one of the following report options, and you may choose both:

option 1	generate a printed report
option 2	generate a work file

You may choose any of the following retrieval options:

option 3	generate a Precision-Accuracy Report with the option of the P/A Monitor Summary Report, P/A RO Summary Report, or P/A Monitor Raw Data Report
option 4	include exceptional event data
option 5	display null data as blanks
option 6	report only flagged values
option 7	replace daily mean with daily maximum

If you choose a work file, you must specify a dataset name for it; otherwise you may not specify a dataset name.

Read Section 3.6.1 if you are not familiar with how to use the report options screen. Section 3.6.2 describes the characteristics of valid dataset names.

Error Messages

The error messages listed below (in alphabetical order) are displayed at the top of the report options screen if you make a mistake in specifying report options.

DATASET NAME IS INVALID
The work file dataset name is not valid. Refer to Section 3.6.2 of this volume for a description of dataset naming conventions.

DATASET NAME NOT ALLOWED WITHOUT SPECIFYING OPTION 2
If a work file is not selected as an output, a dataset name must not be entered.

PLEASE CHOOSE EITHER OPTION 4 OR 6
Either option 4, to include exceptional event data, or option 6, to report only flagged values, may be selected. Both options cannot be requested for the same report.

PLEASE CHOOSE OPTION 1 OR 2 FOR OUTPUT
Either a printed report (option 1) or a work file (option 2) must be selected as a report output.

PLEASE ENTER A VALID DATASET NAME
If a work file is selected, a dataset name must be specified.

PLEASE ENTER BLANK OR 'X'

Only blank and X are valid entries for specifying report options.

PLEASE USE A VALID PF-KEY

A PF key not defined for this screen was used.

5.12.3 Data Selection Options

You may select which monitors and data values are included in the report using the select criteria screen. A sample screen is shown in Figure 5-40. The leftmost portion of the screen is shown at the top of the figure and the rightmost portion is shown at the bottom.

There are three groups of selection criteria. The first group consists of "geographic" criteria. Only certain combinations of these fields are allowed. You may use any one of the following combinations of geographic selection fields:

state (code or abbreviation)
state + county
state + county + site
state + reporting organization
state + city
state + AQCR
AQCR
urban area
MSA
CMSA
MSA-rep
CMSA-rep
status area

The second group of selection criteria consists of the following optional fields:

parameter
method
monitor type

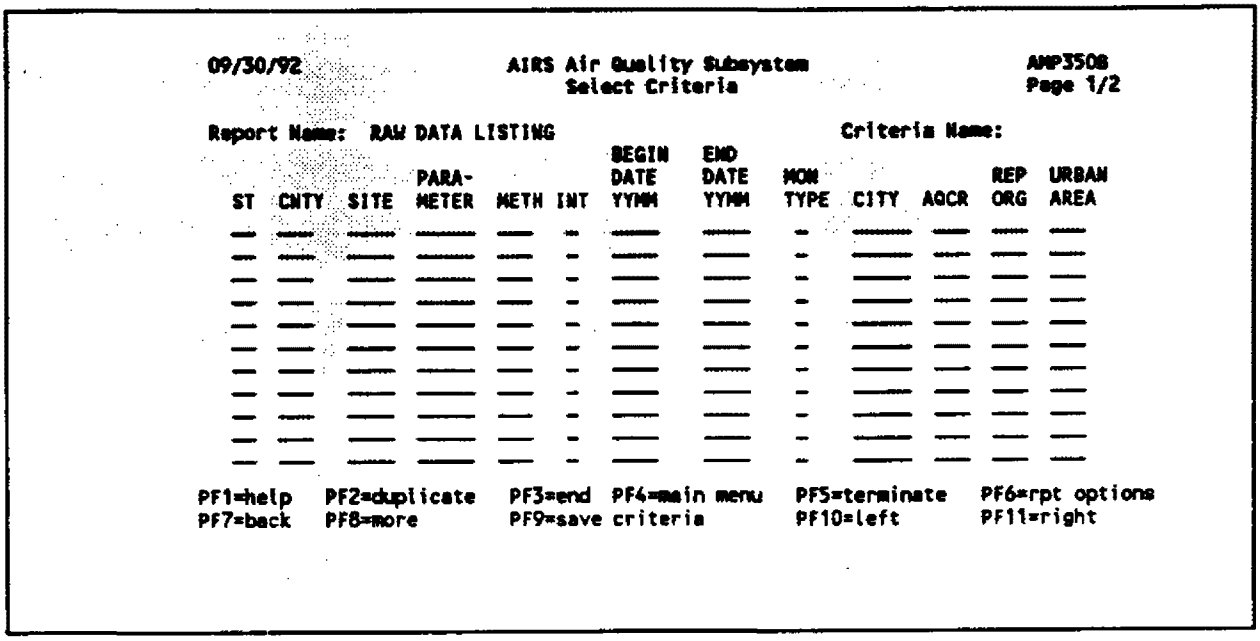
The third group of selection criteria consists of the following required fields:

interval
begin date (year and month)
end date (year and month)

In a given line on the select criteria screen, you must specify all the fields in the third group of selection criteria and either parameter or one of the geographic criteria in the first group. You may use any of the criteria in the second group in addition to other criteria.

Specify dates as year and month (YYMM format). Valid dates are January 1957 (5701) through any valid year and month.

In addition to the monitor type codes listed in Volume GC2 of the AIRS User's Guide, you may use the code "B" to select both NAMS and SLAMS monitors and code "P" to select PAMS monitors.

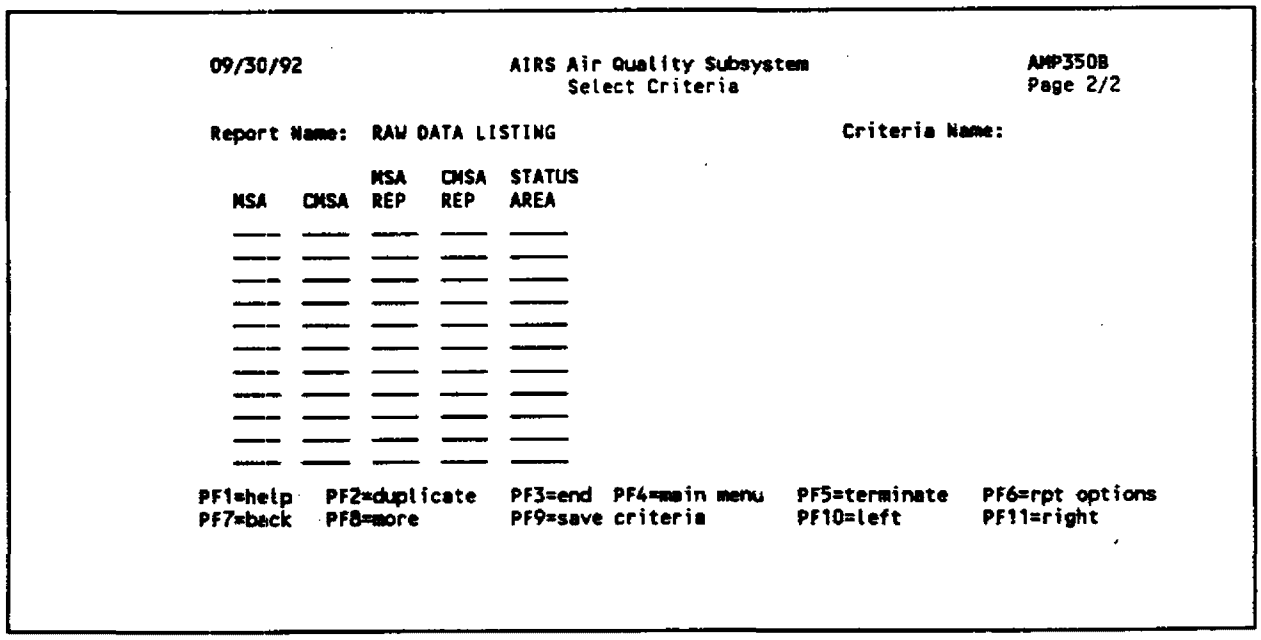


```
09/30/92                    AIRS Air Quality Subsystem                    AMP350B
                                Select Criteria                           Page 1/2

Report Name:  RAW DATA LISTING                          Criteria Name:

                                                BEGIN    END
                                                DATE     DATE   MON                 REP  URBAN
  ST  CNTY  SITE  PARA-METER  METH  INT         YYMM     YYMM   TYPE  CITY   AQCR   ORG  AREA
  __  ___   ____  _________   ____  __          ____     ____   ____  _____  ____   ____ ____
  __  ___   ____  _________   ____  __          ____     ____   ____  _____  ____   ____ ____
  __  ___   ____  _________   ____  __          ____     ____   ____  _____  ____   ____ ____
  __  ___   ____  _________   ____  __          ____     ____   ____  _____  ____   ____ ____
  __  ___   ____  _________   ____  __          ____     ____   ____  _____  ____   ____ ____
  __  ___   ____  _________   ____  __          ____     ____   ____  _____  ____   ____ ____
  __  ___   ____  _________   ____  __          ____     ____   ____  _____  ____   ____ ____
  __  ___   ____  _________   ____  __          ____     ____   ____  _____  ____   ____ ____
  __  ___   ____  _________   ____  __          ____     ____   ____  _____  ____   ____ ____
  __  ___   ____  _________   ____  __          ____     ____   ____  _____  ____   ____ ____

PF1=help   PF2=duplicate   PF3=end  PF4=main menu   PF5=terminate   PF6=rpt options
PF7=back   PF8=more        PF9=save criteria       PF10=left       PF11=right
```



```
09/30/92                    AIRS Air Quality Subsystem                    AMP350B
                                Select Criteria                           Page 2/2

Report Name:  RAW DATA LISTING                          Criteria Name:

                          MSA    CMSA   STATUS
  MSA   CMSA              REP    REP    AREA
  ____  ____              ____   ____   ____
  ____  ____              ____   ____   ____
  ____  ____              ____   ____   ____
  ____  ____              ____   ____   ____
  ____  ____              ____   ____   ____
  ____  ____              ____   ____   ____
  ____  ____              ____   ____   ____
  ____  ____              ____   ____   ____
  ____  ____              ____   ____   ____
  ____  ____              ____   ____   ____

PF1=help   PF2=duplicate   PF3=end  PF4=main menu   PF5=terminate   PF6=rpt options
PF7=back   PF8=more        PF9=save criteria       PF10=left       PF11=right
```

Figure 5-40. Select Criteria Screen for the Raw Data Listing Report

Similarly, you may use the special codes "L" and "G" for interval code to select groups of sampling intervals. The code "L" selects sampling intervals less than 24 hours (interval codes 1, 2, 3, 4, 5, 6, B, X, Y, and Z). The code "G" selects sampling intervals greater than or equal to 24 hours (interval codes 7, 8, 9, A, and D).

Online Help is available for all of the selection criteria fields except BEGIN-DATE and END-DATE. The Help facility allows you to browse through tables of values, with descriptions, for the codes you need to enter, and then to select the value that you wish to use. The Help facility is described in detail in Section 3.6.4.

Warning

It is possible that in certain unusual circumstances, data that should appear in the report and work file will erroneously be omitted from them. This is due to flaws in the data extraction and sorting procedures, which cause some records to be deleted from the work file as it is sorted because they appear to be duplicates, when in fact they are not. (Since the printed report is generated from the sorted work file, the data erroneously deleted from the work file do not appear in the report either.) This situation arises only if all of these conditions exist: (1) at least two lines of criteria entered on the select criteria screen select data for the same monitor, year, and month; (2) the pertinent lines of selection criteria have different begin or end dates; (3) the monitor changes from one sampling method to another and then back to the original method within the month; and (4) the monitor uses a sampling interval of 24 hours or greater. You can avoid this problem by using the same begin and end dates in each line of selection criteria that could select the same monitor.

Instructions

Enter selection criteria into the available fields on the select criteria screen, or alter the previously saved criteria displayed on the screen if you wish. You must specify criteria in at least one line on the screen. Press the ENTER key when you have finished entering or altering the criteria.

Read Section 3.6.3 if you are not familiar with how to use the select criteria screen. Refer to Volume GC2 of the AIRS User's Guide for lists of valid codes to use for selection criteria.

Press PF1=help for general information about the select criteria process. For Field-specific Help, enter a "?" in the first position of any field (except BEGIN-DATE or END-DATE).

Error Messages

The error messages listed below (in alphabetical order) are displayed at the top of the select criteria screen if you make a mistake in specifying information. See Volume GC4 of the AIRS User's Guide for explanations of the error messages that you may encounter while using Field-specific Help.

A PARAMETER IS REQUIRED FOR STATUS-AREA CODE
If status area is entered, parameter must be entered.

A STATE IS REQUIRED FOR CITY
If city is entered, state must be entered.

A STATE IS REQUIRED FOR COUNTY
If county is entered, state must be entered.

A STATE IS REQUIRED FOR REPORT-ORG
If reporting organization is entered, state must be entered.

BEGIN-DATE IS < 5701 OR > CURRENT DATE
The begin date must be in the range January 1957 (5701) through current year and month.

BEGIN-END YEAR RANGE INCLUDES ARCHIVED YEAR(S)
The requested years must not include any years for which data has been archived (removed from the raw data files).

BEGIN-YEAR IS ARCHIVED
Begin year must not be a year for which data has been archived (removed from the raw data files).

END-YEAR IS ARCHIVED
End year must not be a year for which data has been archived (removed from the raw data files).

ENTER SELECTION CRITERIA OR USE A PF-KEY TO ESCAPE
ENTER was pressed without any selection criteria specified. Either specify criteria and press ENTER or use one of the valid PF keys to transfer to another screen or terminate the AIRS session.

INTERVAL CODE IS REQUIRED FOR THIS REPORT
Interval code must be entered.

PF2 INVALID - MAXIMUM NUMBER OF SELECTION CRITERIA HAS BEEN SPECIFIED
Do not press PF2 when the last select criteria screen is full.

PF2 INVALID - THERE ARE NO SELECTION CRITERIA TO DUPLICATE
Do not press PF2 without entering at least one selection criterion.

PF7 INVALID - THIS IS THE FIRST SELECT CRITERIA SCREEN
Do not press PF7 from the first select criteria screen; it is used to page backward.

PF8 INVALID - THIS IS THE FINAL SELECT CRITERIA SCREEN
Do not press PF8 from the last select criteria screen; it is used to page forward.

PF10 INVALID - THIS IS THE LEFT-MOST SELECT CRITERIA SCREEN
Do not press PF10 while the leftmost select criteria screen is displayed.

PF11 INVALID - THIS IS THE RIGHT-MOST SELECT CRITERIA SCREEN
Do not press PF11 while the rightmost select criteria screen is displayed.

PLEASE DO NOT ENTER BOTH STATE AND CMSA CODE
Do not enter both state and CMSA code.

PLEASE DO NOT ENTER BOTH STATE AND CMSA-REP CODE
Do not enter both state and CMSA-rep code.

PLEASE DO NOT ENTER BOTH STATE AND MSA CODE
Do not enter both state and MSA code.

PLEASE DO NOT ENTER BOTH STATE AND MSA-REP CODE
Do not enter both state and MSA-rep code.

PLEASE DO NOT ENTER BOTH STATE AND STATUS-AREA CODE
Do not enter both state and status area code.

PLEASE DO NOT ENTER BOTH STATE AND URBAN-AREA CODE
Do not enter both state and urban area as select criteria.

PLEASE ENTER A NUMERIC BEGIN-DATE
The begin date entered must be numeric.

PLEASE ENTER A NUMERIC END-DATE
The end date entered must be numeric.

PLEASE ENTER A PARAMETER CODE WITH THE METHOD CODE
If method is entered, parameter must be entered.

PLEASE ENTER A VALID AQCR CODE
The AQCR code is not valid.

PLEASE ENTER A VALID CITY CODE
The combination of city and state codes is not valid.

PLEASE ENTER A VALID CMSA CODE
The CMSA code entered must be in the AIRS GEO-COMMON File.

PLEASE ENTER A VALID CMSA-REP CODE
The CMSA-rep code entered must be in the AIRS GEO-COMMON File.

PLEASE ENTER A VALID COUNTY CODE
The combination of county and state codes is not valid.

PLEASE ENTER A VALID INTERVAL CODE
The interval is not valid.

PLEASE ENTER A VALID METHOD CODE
The combination of method and parameter codes is not valid.

PLEASE ENTER A VALID MONITOR-TYPE CODE
The monitor type code is not valid. Use a code listed in Volume GC2, or use "B" to select both NAMS and SLAMS monitor types or "P" to select PAMS monitor types.

PLEASE ENTER A VALID MSA CODE
The MSA code entered must be in the AIRS GEO-COMMON File.

PLEASE ENTER A VALID MSA-REP CODE
The MSA-rep code entered must be in the AIRS GEO-COMMON File.

PLEASE ENTER A VALID PARAMETER CODE
The parameter code is not valid.

PLEASE ENTER A VALID REPORT-ORG
The combination of reporting organization and state is not valid.

PLEASE ENTER A VALID SITE CODE
The combination of state, county, and site does not match any existing site-ID in the Site file.

PLEASE ENTER A VALID STATE ABBREVIATION
The state abbreviation is not valid.

PLEASE ENTER A VALID STATE CODE
The state code is not valid.

PLEASE ENTER A VALID STATUS-AREA CODE FOR PARAMETER
The combination of status area and parameter entered must be in the AIRS GEO-COMMON File.

PLEASE ENTER A VALID URBAN-AREA CODE
The urban area code is not valid.

PLEASE ENTER A VALID 4-DIGIT BEGIN-DATE
The begin date entered must be a valid date in YYMM format. The date must be within the range January 1957 through the current year and month.

PLEASE ENTER AN END-DATE THAT IS GREATER THAN OR EQUAL TO THE BEGIN-DATE

The end date must be greater than or equal to the begin date.

PLEASE ENTER ONE: STATE, PARAMETER, AQCR, URBAN-AREA, MSA, CMSA, MSA-REP, CMSA-REP, OR STATUS AREA

One of the geographic criteria or parameter must be used in each line of select criteria.

PLEASE ENTER ONLY ONE: AQCR, URBAN-AREA, CITY, REPORT-ORG, COUNTY, MSA, CMSA, MSA-REP, CMSA-REP, OR STATUS-AREA

Only the combinations of geographic selection criteria listed at the beginning of this section are valid.

PLEASE FILL ALL LINES BEFORE GOING ON TO THE NEXT SCREEN

PF8 is valid only when the current screen is full or when there are more criteria on a subsequent screen.

PLEASE USE A VALID PF-KEY

A PF key not defined for this screen was used.

REPORT BEGINNING DATE IS REQUIRED FOR THIS REPORT

Report begin date must be entered.

REPORT ENDING DATE IS REQUIRED FOR THIS REPORT

Report end date must be entered.

STATUS-AREA CODE NOT ALLOWED WITH THIS PARAMETER

A status area was entered for a parameter that does not allow entry of a status area.

THE COUNTY CODE IS REQUIRED WITH THE SITE CODE

If site is entered, county must be entered.

5.12.4 Data Sorting Options

The Sort Criteria Screen (see Figure 5-41) allows you to specify the sort sequence for the Raw Data Listing. If sort options for this report have previously been stored, they will be displayed. Otherwise, the default sort order will be displayed: state, county, site, parameter, POC, method, interval, date, monitor type, and reporting organization.

You may alter or delete the existing sort sequence and enter new sort criteria, using any of the numbered fields shown on the screen. All of the sort fields are allowed for this report.

```
09/30/92                    AIRS Air Quality Subsystem                    AMP350C
                                 Sort Criteria

Report Name:  RAW DATA LISTING                          Criteria Name:

    1.  State                  6.  Reporting Org          11.  Method
    2.  County                 7.  Urban Area             12.  Interval
    3.  Site                   8.  EPA Region             13.  Monitor Type
    4.  Parameter              9.  City                   14.  Date
    5.  POC                   10.  AQCR

Enter the numbers of the Sort Elements above in the desired Sort Sequence:

                  _1  _2  _3  _4  _5  12  14  __  __  __  __  __  __  __

PF3=end    PF4=main menu    PF5=terminate    PF6=select criteria    PF9=save criteria
```

Figure 5-41. Sort Criteria Screen for the Raw Data Listing Report

Instructions

Read Section 3.6.4 of this manual if you are not familiar with how to use the sort criteria screen.

Choose any or all of the allowed sort fields displayed on the screen, subject to the following rules:

1. If you are use EPA region, it must be the first sort field.
2. State must precede county and city.
3. City or county must precede site.
4. Parameter must precede method and POC.

Error Messages

The error messages listed below (in alphabetical order) are displayed at the top of the sort criteria screen if you make a mistake in specifying sort criteria.

CITY OR COUNTY REQUIRED BEFORE SITE

Sorting by site without also specifying county or city was requested, or site was specified before city or county. Since site is meaningful only within county, state and county or state and city must be specified before site in the sort sequence. (If city is specified, county is inserted automatically in the sort sequence just before site.) Add the necessary field(s) to the sort sequence or change the order so site is after city and county.

ERROR - REPEATED SORT CRITERIA

Each sort criterion may be entered only once.

PARAMETER CODE REQUIRED BEFORE METHOD

Method was specified without parameter or they were specified in the wrong order. Add parameter to the sort sequence, eliminate method, or change the order so method follows parameter.

PARAMETER CODE REQUIRED BEFORE POC

POC was specified without parameter or they were specified in the wrong order. Add parameter to the sort sequence, eliminate POC, or change the order so POC follows parameter.

PLEASE ENTER A NUMBER IN THE RANGE 1 THROUGH 14

Valid sort criteria are in the range 1 through 14.

PLEASE USE A VALID PF-KEY

A PF key not defined for this screen was used.

REGION CAN ONLY BE THE FIRST SORT CRITERION

If EPA region is used, it must be first in the sort sequence. Either move region to the first position or eliminate it from the sort specification.

STATE CODE REQUIRED BEFORE CITY

Sorting by city without also specifying state was requested, or city was specified before state. Since city is meaningful only within state, state must be specified before city in the sort sequence. Add state to the sort sequence, eliminate city, or change the order so city is after state.

STATE CODE REQUIRED BEFORE COUNTY

Sorting by county without also specifying state was requested, or they were specified in the wrong order. Since county is meaningful only within state, state must be specified before county in the sort sequence. Add state to the sort sequence, eliminate county, or change the order so county follows state.

STATE CODE REQUIRED BEFORE REPORT-ORG

Sorting by reporting organization without also specifying state was requested, or reporting organization was specified before state. Since reporting organization is meaningful only within state, state must be specified before reporting organization in the sort sequence. Add state to the sort sequence, eliminate reporting organization, or change the order so reporting organization is after state.

5.13 Standards Report (AMP355)

5.13.1 Description

The Standards Report Program displays raw data values for criteria pollutants extracted from air quality raw data files. The report flags each value exceeding an air quality standard and lists the number of values that exceeded the standard during the time period shown on the page. You may specify alternative standards to be used instead of the defaults, alternative output units for the raw data values, and inclusion or exclusion of exceptional events data.

There are several report formats that present one month's or one year's data per page, depending on the sampling interval of the data being reported. Hourly reports specify year, month, day, and time. Daily reports specify year, month, and day. All formats identify the date and time and/or day each value was sampled and include a brief description of the reporting site and monitor on each page. Some formats include calculated means and maxima. You may request that only monitors with standards violations be printed and that only summary pages be printed. When there is a change in monitor-id, interval, or year, the appropriate summary is generated on a separate page. If a monitor uses more than one sampling method during a month, the data for all methods are presented on the same page of the report, and none of the methods used are identified.

Figure 5-42 shows a sample Standards Report.

A Precision-Accuracy Report with the option of the P/A Monitor Summary Report, P/A RO Summary Report, or P/A Monitor Raw Data Report may be generated in conjunction with this report. (See Section 5.3.) It includes data for all the reporting organizations and years in the Standards Report.

09/14/93 EPA AEROMETRIC INFORMATION RETRI EVAL SYSTEM (AIRS) PAGE 1
AMP355RP AIR QUALITY SUBSYSTEM 12:12:18
STANDARDS REPORT - CARBON MONOXIDE (42101)
1-HOUR VALUES - JAN/90
STATE 39 OHIO

SITE-ID: 39-035-0043 POC: 1 AQCR (174): GREATER METROPOLITAN CLEVELAND LATITUDE: 41:28:54 N
COUNTY (035): CUYAHOGA CO URBAN AREA (1680): CLEVELAND, OH LONGITUDE: 081:42:37 W
CITY (16000): CLEVELAND LAND USE (1): RESIDENTIAL UTM ZONE: 17
SITE ADDRESS: 3500 E. 147ST. RICKOFF SCHOOL LOCATION-SETTING (2): SUBURBAN UTM-NORTHING: 4592260
SUPPORT AGENCY (009): CLEVELAND AIR POLLUTION CONTROL AGENCY UTM-EASTING: 00440700
SITE COMMENTS: PROBE IS 3 METERS UP AND 1 METER OUT FROM WALL OF 1 STORY SCH. BD. ELEVATION-MSL: 00287 M
MONITOR COMMENTS: 11 UNITS (007): PPM
REPORTING ORGANIZATION (009): CLEVELAND AIR POLLUTION CONTROL AGENC PROBE HEIGHT: 00004 M
MONITOR TYPE (1): NAMS MONITORING OBJECTIVE (2): POPULATION EXPOSURE
COLLECTION AND ANALYSIS METHOD (011): INSTRUMENTAL NONDISPERSIVE INFRA-RED

DAY/HOUR	0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	#	MEAN
1 M	1.0	1.3	1.3	1.3	1.5	1.3	1.3	1.0	1.0	1.0	1.0	.5	.8	1.0	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	24	1.2
2 T	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.5	1.3		.5	.5	.8	.5	.8	.8	.8	1.0	1.0	1.0	1.0	1.0	1.0	1.0	23	1.0
3 W	1.3	1.0	1.0	1.0	1.0	1.3	1.3	1.5	1.0	1.0	.8	.8	.8	.8	.8	.8	.8	1.0	1.0	1.0	1.0	1.0	1.0	1.0	24	1.0
4 T	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	.8	.5	.5	.5	.5	.5	.5	.5	.5	.8	1.0	1.0	1.0	1.0	1.0	1.0	24	.8
5 F	1.0	1.0	1.0	1.0	1.0	1.0	1.3	1.3	.8			.8	.8	.8	.8	1.3	1.0	1.5	3.0	4.0	5.0	3.8	2.8	3.3	22	1.7
6 S	3.3	2.8	2.0	1.5	1.3	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.3	1.0	1.0	1.3	1.3	1.3	1.3	1.0	1.0	1.0	24	1.3
7 S	1.0	1.0	1.3	1.0	1.0	1.0	1.3	1.3	1.5	1.5	1.0	.5	.5	.8	.8	.8	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.3	24	1.0
8 M	1.3	1.8	1.5	1.3	1.3	1.5	2.0	2.8	2.8		1.5	1.0	1.0	1.0	.8	.8	1.0	1.5	1.3	1.8	1.3	1.0	1.0	1.0	23	1.4
9 T	1.0	1.0	1.0	1.0	1.0	1.3	1.3	1.3			.8	.8	.8	.5	.5	.8	1.0	1.0	.8	.8	.8	.5	.5	.5	22	.9
0 W	.8	.8	.8	.5	.8	.8	1.0	1.0	.8		.5	.5	.5	.8	.8	.8	1.0	1.0	1.0	.5	.5	.5	.5	.5	23	.7
1 T	.5	.5	1.0	.5	.5	.8	.8	1.0	.8		.5	.5		.5	.8	.5	.5	.8	.8	.8	.8	.8	.5	.5	22	.7
2 F	.8	.8	.8	.8	.8	1.0	1.0	.8	1.0		.5	.5	.5	.8	.8	.8	.8	.8	.8	1.0	1.0	1.0	1.0	1.0	23	.8
3 S	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	.8	1.0	.8	.8	.8	1.0	1.0	1.0	1.3	1.3	1.3	1.3	1.5	2.3	24	1.1
4 S	1.5	1.8	1.5	1.5	1.3	1.3	1.3	1.8	1.5	1.5	1.5	1.5	1.5	1.3	1.0	1.0	1.0	1.3	1.3	1.3	1.3	1.3	1.0	1.0	24	1.3
5 M	1.0	1.0	1.0	1.0	1.0	1.3	1.5	1.5	1.0	1.0	1.0	1.0	.8	.8	.8	.8	.8	1.0	1.0	.8	.8	.8	.8	1.3	24	1.0
6 T	1.3	1.0	1.0	1.0	.8	.8	1.3	1.3	1.3			.8	.5	.3	.5	.8	.8	1.3	1.0	.8	.5	.5	.5	.3	22	.8
7 W	.5	.5	.3	.5	.5	.8	1.0	1.0		.8	.8	.5	.5	.5	.5	.5	.5	.5	.5	.3	.3	.5	.5	.3	23	.5
8 T	.3	.3	.8	.5	.5	.5	.8	.8	.8	.5		.8	.8	.8	.8	.8	.8	.8	.8	.8	.8	.8	.8	.8	23	.7
9 F	.8	.8	.8	.8	1.0	1.0	1.3	1.5	1.0		.8	.8	.8	1.0	.8	1.0	1.3	1.5	1.5	1.5	1.5	1.5	1.3	1.5	23	1.1
0 S	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.8	1.8	1.5	1.5	1.8	1.8	1.5	1.5	1.5	1.5	1.5	1.3	1.5	1.5	1.5	1.5	24	1.5
1 S	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	.8	.8	.8	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.0	1.0	1.0	24	1.2
2 M	1.0	1.0	1.0	1.0	1.0	1.3	1.3	1.0	.8			.8	.8	.8	.8	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	22	1.0
3 T	.8	.8	.8	.8	1.0	1.5	2.3	2.3	1.5		1.0	1.0	1.0	.8	.8	1.0	.8	1.0	1.0	.8	.8	.8	.8	.8	23	1.1
4 W	.8	.5	.8	.5	.5	.5	.8	.5	.3		.3	.3	.3	.5	.5	.5	.5	.8	1.0	2.8	2.8	2.0	2.0	1.5	23	.9
5 T	1.3	1.0	.8	.8	.8	1.0	1.0	1.0	.8	.5		.5	.5	.3	.3	.3	.5	.5	.5	.5	.5	.5	.5	.5	23	.6
6 F	.5	.5	.5	.8	.8	.8	1.0	.8	.5		.8	.8	.8	.8	.8	.8	.8	1.0	1.3	2.5	2.0	1.8	1.8	1.5	22	1.0
7 S	1.3	1.3	1.0	1.0	1.0	1.0	1.3	1.3	1.3	.8	.8	.8	.8	.8	.8	.8	.8	.8	.8	.8	.8	.8	.8	.8	24	.9
8 S	1.0	1.0	1.3	1.3	.8	.8	.8	.8	.8	.8	.8	.8	.8	1.0	1.0	1.3	1.3	1.5	1.8	1.8	1.8	1.8	1.5	1.3	24	1.2
9 M	1.3	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		.8	.8	1.0	1.5	1.5	1.5	1.3	1.3	1.0	.8	1.0	1.0	1.0	1.0	23	1.1
0 T	1.0	1.0	1.0	1.3	1.3	1.3	1.8	2.0	1.5		1.0	1.0	.8	.8	.8	1.0	1.3	1.5	1.5	1.5	1.5	1.5	1.5	1.5	23	1.3
1 W	1.8	1.3	1.3	1.3	1.5	2.0	4.0	4.0	2.5		1.3	1.3	1.8	1.5	1.3	1.0	1.0	1.8	2.8	2.0	1.8	1.5	1.5	1.3	23	1.8
NO.	31	31	31	31	31	31	31	31	29	15	26	31	30	31	31	31	31	31	31	31	31	31	31	31		
MAX	3.3	2.8	2.0	1.5	1.5	2.0	4.0	4.0	2.8	1.8	1.5	1.5	1.8	1.8	1.5	1.5	1.5	1.8	3.0	4.0	5.0	3.8	2.8	3.3		
MEAN	1.1	1.1	1.1	1.0	1.0	1.1	1.3	1.4	1.2		.9	.8	.6	.8	.9	.9	.9	1.1	1.2	1.3	1.3	1.2	1.1	1.1		

TOTAL SAMPLES = 720 0 STARRED (*) ITEMS EXCEEDED THE PRIMARY STANDARD OF 35.5PPM
% OF POSSIBLE OBSERVATIONS = 96.8 0 PLUSSED (+) ITEMS EXCEEDED THE SECONDARY STANDARD OF 35.5PPM
ARITHMETIC MEAN = 1.1
ARITHMETIC STANDARD DEVIATION = .5

Figure 5-42. Standards Report (1 of 22)
Carbon Monoxide 1-Hour Values

09/14/93
AMP355RP

EPA AEROMETRIC INFORMATION RETRIEVAL SYSTEM (AIRS)
AIR QUALITY SUBSYSTEM
STANDARDS REPORT - CARBON MONOXIDE (42101)
1-HOUR MAXIMUM
STATE 39 OHIO

PAGE 13
12:12:18

SITE-ID: 39-035-0043 POC: 1
COUNTY (035): CUYAHOGA CO
CITY (16000): CLEVELAND
SITE ADDRESS: 3500 E. 147ST. RICKOFF SCHOOL
SUPPORT AGENCY (009): CLEVELAND AIR POLLUTION CONTROL AGENCY
SITE COMMENTS: PROBE IS 3 METERS UP AND 1 METER OUT FROM WALL OF 1 STORY SCH. BD.
MONITOR COMMENTS: 11
REPORTING ORGANIZATION (009): CLEVELAND AIR POLLUTION CONTROL AGENC
MONITOR TYPE (1): NAMS
COLLECTION AND ANALYSIS METHOD (011): INSTRUMENTAL NONDISPERSIVE INFRA-RED

AQCR (174): GREATER METROPOLITAN CLEVELAND
URBAN AREA (1680): CLEVELAND, OH
LAND USE (1): RESIDENTIAL
LOCATION-SETTING (2): SUBURBAN
MONITORING OBJECTIVE (2): POPULATION EXPOSURE

LATITUDE: 41:28:54 N
LONGITUDE: 081:42:37 W
UTM ZONE: 17
UTM-NORTHING: 4592260
UTM-EASTING: 00440700
ELEVATION-MSL: 00287 M
UNITS (007): PPM
PROBE HEIGHT: 00004 M

		JAN 1990		FEB 1990		MAR 1990		APR 1990		MAY 1990		JUN 1990		JUL 1990		AUG 1990		SEP 1990		OCT 1990		NOV 1990		DEC 1990	
	1	1.5	M	1.3	T	2.0	T	2.3	S	1.0	T	1.8	F	1.3	S	3.5	W	3.3	S	2.3	M	4.8	T	1.3	S
	2	1.5	T	1.8	F	1.0	F	1.0	M	2.5	W	.3	S	2.5	M	1.8	T	2.0	S	2.8	T	2.0	F	1.3	S
	3	1.5	W	2.0	S	1.8	S	1.3	T	1.0	T	.3	S	1.3	T	2.5	F	.5	M	1.5	W	2.5	S	1.0	M
	4	1.0	T	1.3	S	1.5	S	1.0	W	1.3	F	2.3	M	.5	W	1.5	S	1.5	T	1.0	T	1.8	S	.8	T
D	5	5.0	F	1.3	M	1.5	M	1.3	T	1.8	S	1.8	T	3.0	T	.8	S	3.3	W	.5	F	2.3	M	1.5	W
	6	3.3	S	1.8	T	1.0	T	2.0	F	2.8	S	.5	W	1.5	F	.8	M	2.0	T	1.5	S	1.5	T	1.5	T
A	7	1.5	S	2.3	W	1.5	W	1.8	S	1.8	M	1.5	T	1.8	S	2.5	T	1.3	F	1.3	S	1.0	W	2.0	F
	8	2.8	M	1.8	T	1.8	T	2.3	S	1.0	T	1.8	F	1.0	S	1.8	W	.8	S	1.0	M	2.3	T	4.5	S
Y	9	1.3	T	2.3	F	1.5	F	1.3	M	1.3	W	.8	S	1.8	M	2.3	T	2.8	S	1.3	T	2.3	F	2.8	S
	10	1.0	W	1.8	S	1.5	S	1.0	T	.8	T	.8	S	1.0	T	2.5	F	2.8	M	1.3	W	2.0	S	1.8	M
	11	1.0	T	1.3	S	1.3	S	1.0	W	2.3	F	1.5	M	1.0	W	3.0	S	1.0	T	1.5	T	1.0	S	1.8	T
O	12	1.0	F	1.3	M	1.0	M	1.8	T	1.8	S	1.6	T	.8	T	1.5	S	2.8	W	2.5	F	1.0	M	2.3	W
	13	2.3	S	.8	T	3.5	T	2.3	F	3.5	S	1.3	W	.8	F	1.0	M	2.3	T	2.3	S	2.5	T	1.3	T
F	14	1.8	S	1.0	W	2.5	W	1.3	S	3.5	M	2.5	T	1.3	S	2.5	T	1.0	F	2.0	S	3.3	W	2.0	F
	15	1.5	M	6.5	T	1.3	T	1.3	S	2.0	T	4.8	F	1.0	S	2.0	W	2.5	S	1.5	M	2.8	T		S
	16	1.3	T	6.0	F	1.8	F	6.3	M	1.5	W	3.3	S	1.0	M	3.0	T	1.5	S	3.5	T	1.0	F	1.3	S
M	17	1.0	W	1.8	S	.5	S	1.3	T	.8	T	1.3	S	1.0	T	2.3	F	1.8	M	2.5	W	1.3	S	2.3	M
	18	.8	T	1.8	S	1.0	S	3.0	W	1.0	F	.8	M	1.3	W	2.3	S	3.0	T	1.0	T	2.8	S	1.5	T
O	19	1.5	F	1.3	M	1.3	M	1.8	T	1.3	S	2.3	T	1.8	T	.8	S	1.0	W	3.5	F	6.0	M	2.3	W
	20	1.8	S	2.5	T	2.0	T	1.5	F	1.5	S	1.8	W	1.3	F	1.0	M	3.0	T	2.5	S	8.5	T	1.5	T
N	21	1.3	S	2.0	W	1.8	W	2.5	S	1.3	M	3.3	T	1.3	S	.8	T	1.8	F	2.0	S	2.0	W	1.8	F
	22	1.3	M	1.0	T	1.3	T	3.5	S	2.0	T	1.3	F	1.5	S	.8	W	1.0	S	2.0	M	2.0	T	1.0	S
T	23	2.3	T	2.0	F	1.3	F	3.5	M	3.3	W	.8	S	2.8	M	.8	T	.5	S	2.8	T	2.3	F	1.3	S
	24	2.8	W	1.3	S	2.3	S	1.8	T	4.0	T	2.8	S	3.0	T	2.3	F	1.0	M	7.8	W	1.5	S	1.3	M
H	25	1.3	T	1.5	S	2.0	S	1.5	W	1.3	F	2.3	M	2.5	W	3.3	S	1.0	T	1.5	T	5.8	S	1.5	T
	26	2.5	F	2.3	M	1.8	M	3.0	T	1.3	S	1.3	T	2.3	T	3.0	S	3.5	W	2.5	F	1.5	M	1.8	W
	27	1.3	S	1.3	T	2.3	T	1.8	F	1.3	S	1.5	W	1.0	F	3.0	M	2.0	T	2.0	S	2.5	T	1.8	T
	28	1.8	S	1.5	W	2.8	W	.5	S	.5	M	1.8	T	1.3	S	.8	T	2.0	F	1.0	S	1.3	W	2.0	F
	29	1.5	M			.8	T	.8	S	.8	T	1.0	F	1.3	S	1.8	W	2.0	S	3.3	M	.8	T	1.3	S
	30	2.0	T			2.0	F	1.3	M	3.0	W	1.5	S	1.3	M	1.5	T	2.3	S	4.5	T	1.8	F	1.0	S
	31	4.0	W			2.5	S			3.0	T			1.3	T	1.8	F			5.8	W			1.0	M
NUMBER		720		646		718		695		716		683		735		738		709		737		678		712	
MAXIMUM		5.0		6.5		3.5		6.3		4.0		4.8		3.0		3.5		3.5		7.8		8.5		4.5	
ARITH-MEAN		1.1		1.1		.9		1.0		.9		.7		.7		.8		.8		1.1		1.1		1.0	

TOTAL SAMPLES = 8487
% OF POSSIBLE OBSERVATIONS = 96.9
ARITHMETIC MEAN = .9
ARITHMETIC STANDARD DEVIATION = .6

0 STARRED (*) ITEMS EXCEEDED THE PRIMARY STANDARD OF 35.5PPM
0 PLUSSED (+) ITEMS EXCEEDED THE SECONDARY STANDARD OF 35.5 PPM
MEETS SUMMARY CRITERIA

Figure 5-42. Standards Report (2 of 22)
Carbon Monoxide 1-Hour Maximum

09/23/93 EPA AEROMETRIC INFORMATION RETRIEVAL SYSTEM (AIRS) PAGE 1
AMP355RP AIR QUALITY SUBSYSTEM 11:09:01
STANDARDS REPORT - CARBON MONOXIDE (42101)
8-HOUR RUNNING AVERAGE - JAN/90
STATE 39 OHIO

SITE-ID: 39-035-0043 POC: 1 AQCR (174): GREATER METROPOLITAN CLEVELAND LATITUDE: 41:28:54 N
COUNTY (035): CUYAHOGA CO URBAN AREA (1680): CLEVELAND, OH LONGITUDE: 081:42:37 W
CITY (16000): CLEVELAND LAND USE (1): RESIDENTIAL UTM ZONE: 17
SITE ADDRESS: 3500 E. 147ST. RICKOFF SCHOOL LOCATION-SETTING (2): SUBURBAN UTM-NORTHING: 4592260
SUPPORT AGENCY (009): CLEVELAND AIR POLLUTION CONTROL AGENCY UTM-EASTING: 00440700
SITE COMMENTS: PROBE IS 3 METERS UP AND 1 METER OUT FROM WALL OF 1 STORY SCH. BD. ELEVATION-MSL: 00287 M
MONITOR COMMENTS: 11 UNITS (007): PPM
REPORTING ORGANIZATION (009): CLEVELAND AIR POLLUTION CONTROL AGENC PROBE HEIGHT: 00004 M
MONITOR TYPE (1): NAMS MONITORING OBJECTIVE (2): POPULATION EXPOSURE
COLLECTION AND ANALYSIS METHOD (011): INSTRUMENTAL NONDISPERSIVE INFRA-RED

DAY/HOUR	0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	#	MAX
1 M								1.3	1.3	1.2	1.2	1.1	1.0	1.0	1.0	1.0	1.0	1.1	1.1	1.2	1.3	1.3	1.3	1.3	17	1.3
2 T	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.2	1.1	1.0	.9	.8	.7	.7	.7	.8	.8	.9	.9	1.0	1.0	24	1.3
3 W	1.0	1.0	1.0	1.0	1.0	1.1	1.1	1.2	1.1	1.1	1.1	1.1	1.1	1.0	.9	.9	.8	.8	.9	.9	.9	.9	1.0	1.0	24	1.2
4 T	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	.9	.9	.8	.7	.7	.6	.5	.5	.5	.6	.7	.7	.8	.9	.9	24	1.0
5 F	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.1	1.1	1.1	1.1	1.0	1.0	1.0	.9	.9	.9	1.0	1.3	1.7	2.2	2.6	2.8	3.1	24	3.1
6 S	3.3	3.5	3.4	3.1	2.6	2.3	2.0	1.7	1.5	1.2	1.1	1.0	1.0	1.0	1.0	1.0	1.0	1.1	1.1	1.2	1.2	1.2	1.2	1.2	24	3.5
7 S	1.2	1.1	1.1	1.1	1.0	1.0	1.1	1.1	1.2	1.2	1.2	1.1	1.1	1.1	1.0	.9	.9	.8	.8	.9	.9	1.0	1.0	1.0	24	1.2
8 M	1.1	1.2	1.2	1.3	1.3	1.4	1.5	1.7	1.9	1.9	1.9	1.8	1.8	1.7	1.6	1.3	1.0	1.1	1.1	1.2	1.2	1.2	1.2	1.2	24	1.9
9 T	1.2	1.2	1.1	1.0	1.0	1.0	1.1	1.1	1.1	1.2	1.1	1.1	1.1	.9	.8	.7	.7	.8	.8	.8	.8	.8	.8	.7	24	1.2
10 W	.7	.7	.7	.7	.7	.7	.8	.8	.8	.8	.8	.8	.7	.7	.7	.7	.7	.7	.8	.8	.8	.8	.7	.7	24	.8
11 T	.6	.6	.6	.6	.6	.6	.6	.7	.7	.8	.7	.7	.7	.7	.7	.6	.6	.6	.6	.7	.7	.7	.7	.7	24	.8
12 F	.7	.7	.7	.7	.7	.8	.8	.9	.9	.9	.8	.8	.8	.7	.7	.7	.7	.7	.7	.8	.9	.9	.9	.9	24	.9
13 S	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	.9	.9	.9	.9	.9	1.0	1.0	1.1	1.1	1.2	1.4	24	1.4
14 S	1.4	1.5	1.6	1.6	1.6	1.6	1.6	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.4	1.3	1.3	1.2	1.2	1.2	1.2	1.2	1.2	24	1.6
15 M	1.2	1.2	1.1	1.1	1.0	1.0	1.1	1.2	1.2	1.2	1.2	1.2	1.1	1.1	1.0	.9	.9	.9	.9	.9	.9	.9	.9	.9	24	1.2
16 T	1.0	1.0	1.0	1.0	1.0	1.0	1.1	1.1	1.1	1.1	1.1	1.1	1.0	.9	.8	.7	.6	.7	.7	.7	.7	.8	.8	.7	24	1.1
17 W	.7	.6	.5	.4	.4	.5	.5	.6	.7	.7	.8	.6	.8	.7	.7	.6	.6	.5	.5	.5	.4	.4	.4	.4	24	.8
18 T	.4	.3	.4	.4	.4	.4	.5	.6	.6	.7	.6	.7	.7	.8	.8	.8	.8	.8	.8	.8	.8	.8	.8	.8	24	.8
19 F	.8	.8	.8	.8	.8	.9	.9	1.0	1.0	1.1	1.1	1.1	1.0	1.0	1.0	.9	.9	1.0	1.1	1.2	1.3	1.3	1.4	1.5	24	1.5
20 S	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.6	1.6	1.6	1.6	1.7	1.7	1.7	1.6	1.6	1.6	1.6	1.5	1.5	1.5	1.5	24	1.7
21 S	1.5	1.4	1.4	1.4	1.4	1.4	1.3	1.3	1.3	1.3	1.3	1.2	1.2	1.1	1.1	1.1	1.1	1.1	1.1	1.2	1.2	1.3	1.2	1.2	24	1.5
22 M	1.2	1.1	1.1	1.0	1.0	1.0	1.1	1.1	1.1	1.1	1.1	1.0	1.0	.9	.8	.8	.9	.9	.9	.9	1.0	1.0	1.0	1.0	24	1.2
23 T	1.0	1.0	.9	.9	.9	1.0	1.1	1.3	1.4	1.5	1.5	1.5	1.5	1.4	1.2	1.0	.9	.9	.9	.9	.9	.9	.9	.9	24	1.5
24 W	.9	.8	.8	.7	.7	.7	.7	.6	.5	.6	.5	.4	.4	.4	.4	.4	.4	.4	.5	.9	1.2	1.4	1.6	1.7	24	1.7
25 T	1.8	1.8	1.8	1.5	1.3	1.2	1.0	1.0	.9	.8	.8	.8	.8	.7	.5	.4	.4	.4	.4	.4	.4	.4	.5	.5	24	1.8
26 F	.5	.5	.5	.5	.6	.6	.7	.7	.7	.7	.8	.8	.8	.8	.8	.8	.8	.8	.9	1.1	1.3	1.4	1.5	1.6	24	1.6
27 S	1.7	1.7	1.7	1.5	1.3	1.2	1.2	1.2	1.2	1.1	1.1	1.0	1.0	1.0	.9	.9	.8	.6	.6	.6	.6	.6	.8	.8	24	1.7
28 S	.8	.9	.9	1.0	1.0	1.0	1.0	1.0	1.0	.9	.9	.6	.8	.8	.9	.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.6	24	1.6
29 M	1.6	1.5	1.4	1.3	1.2	1.1	1.1	1.0	1.0	1.0	1.0	.9	.9	1.0	1.1	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.1	1.1	24	1.6
30 T	1.0	1.0	1.0	1.0	1.1	1.1	1.2	1.3	1.4	1.5	1.5	1.4	1.3	1.3	1.1	1.0	1.0	1.0	1.1	1.2	1.2	1.3	1.4	1.5	24	1.5
31 W	1.5	1.5	1.5	1.5	1.5	1.5	1.8	2.2	2.2	2.4	2.4	2.4	2.4	2.3	2.0	1.5	1.3	1.4	1.6	1.7	1.7	1.7	1.7	1.7	24	2.4
NO.	30	30	30	30	30	30	30	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31		
MAX	3.3	3.5	3.4	3.1	2.6	2.3	2.0	2.2	2.2	2.4	2.4	2.4	2.4	2.3	2.0	1.7	1.6	1.6	1.6	1.7	2.2	2.6	2.8	3.1		

TOTAL SAMPLES * 737 0 STARRED (*) ITEMS EXCEEDED THE PRIMARY STANDARD OF 9.5 PPM
% OF POSSIBLE OBSERVATIONS * 99.1 0 PLUSSED (+) ITEMS EXCEEDED THE SECONDARY STANDARD OF 9.5 PPM
0 PRIMARY NON-OVERLAPPING VIOLATIONS
0 SECONDARY NON-OVERLAPPING VIOLATIONS

Figure 5-42. Standards Report (3 of 22)
Carbon Monoxide 8-Hour Running Average

09/23/93
AMP355RP

EPA AEROMETRIC INFORMATION RETRIEVAL SYSTEM (AIRS)
AIR QUALITY SUBSYSTEM
STANDARDS REPORT - CARBON MONOXIDE (42101)
MAXIMUM OF 8-HOUR RUNNING AVERAGE
STATE 39 OHIO

PAGE 13
11:09:01

SITE-ID: 39-035-0043 POC: 1
COUNTY (035): CUYAHOGA CO
CITY (16000): CLEVELAND
SITE ADDRESS: 3500 E. 147ST. RICKOFF SCHOOL
SUPPORT AGENCY (009): CLEVELAND AIR POLLUTION CONTROL AGENCY
SITE COMMENTS: PROBE IS 3 METERS UP AND 1 METER OUT FROM WALL OF 1 STORY SCH. BD.
MONITOR COMMENTS: 11
REPORTING ORGANIZATION (009): CLEVELAND AIR POLLUTION CONTROL AGENC
MONITOR TYPE (1): NAMS
COLLECTION AND ANALYSIS METHOD (011): INSTRUMENTAL NONDISPERSIVE INFRA-RED

AQCR (174): GREATER METROPOLITAN CLEVELAND
URBAN AREA (1680): CLEVELAND, OH
LAND USE (1): RESIDENTIAL
LOCATION-SETTING (2): SUBURBAN
MONITORING OBJECTIVE (2): POPULATION EXPOSURE

LATITUDE: 41:28:54 N
LONGITUDE: 081:42:37 W
UTM ZONE: 17
UTM-NORTHING: 4592260
UTM-EASTING: 00460700
ELEVATION-MSL: 00287 M
UNITS (007): PPM
PROBE HEIGHT: 00004 M

		JAN 1990		FEB 1990		MAR 1990		APR 1990		MAY 1990		JUN 1990		JUL 1990		AUG 1990		SEP 1990		OCT 1990		NOV 1990		DEC 1990	
	1	1.3	M	1.8	T	1.5	T	2.2	S	.9	T	1.6	F	.9	S	1.5	W	1.8	S	1.4	M	3.7	T	1.0	S
	2	1.3	T	1.3	F	.9	F	1.1	M	1.2	W	.6	S	1.5	M	1.4	T	2.0	S	1.6	T	2.5	F	.8	S
	3	1.2	W	1.8	S	1.2	S	1.0	T	.8	T	.3	S	1.6	T	1.2	F	.3	M	1.5	W	1.5	S	.8	M
	4	1.0	T	1.7	S	1.5	S	1.0	W	1.0	F	1.2	M	.7	W	1.4	S	.9	T	.9	T	1.6	S	.7	T
D	5	3.1	F	1.2	M	1.4	M	1.0	T	1.4	S	1.6	T	1.6	T	.7	S	1.8	W	.8	F	1.4	M	1.0	W
	6	3.5	S	1.5	T	.9	T	1.3	F	1.7	S	.5	W	1.6	F	.6	M	2.0	T	.9	S	1.1	T	1.2	T
A	7	1.2	S	1.9	W	1.4	W	1.5	S	1.8	M	1.1	T	1.7	S	1.3	T	.6	F	.9	S	.9	W	1.7	F
	8	1.9	M	1.6	T	1.4	T	1.4	S	.6	T	1.1	F	1.3	S	1.6	W	.6	S	.9	M	1.5	T	2.7	S
Y	9	1.2	T	1.6	F	1.4	F	1.4	M	.7	W	1.1	S	.8	M	1.1	T	1.6	S	.8	T	1.8	F	2.8	S
	10	.8	W	1.6	S	1.0	S	.9	T	.6	T	.7	S	.8	T	1.7	F	1.7	M	.9	W	1.8	S	1.2	M
	11	.8	T	1.3	S	1.1	S	1.0	W	1.5	F	1.0	M	.9	W	2.1	S	1.7	T	1.3	T	1.1	S	1.5	T
O	12	.9	F	1.1	M	.9	M	1.5	T	1.6	S	1.0	T	.7	T	2.0	S	1.7	W	2.0	F	1.0	M	1.4	W
	13	1.4	S	.9	T	1.6	T	1.6	F	2.3	S	1.0	W	.6	F	.7	M	1.7	T	1.4	S	1.8	T	1.0	T
F	14	1.6	S	.9	W	1.7	W	1.6	S	2.8	M	1.3	T	1.0	S	1.3	T	1.2	F	1.6	S	2.1	W	1.6	F
	15	1.2	M	4.1	T	1.4	T	1.0	S	1.4	T	1.8	F	1.1	S	1.1	W	1.5	S	1.1	M	1.6	T	1.7	S
	16	1.1	T	4.4	F	1.1	F	2.7	M	.8	W	2.9	S	.6	M	1.6	T	1.6	S	2.2	T	.6	F	1.3	S
M	17	.8	W	1.6	S	.5	S	1.2	T	.8	T	1.3	S	.7	T	1.8	F	1.1	M	1.8	W	.7	S	1.4	M
	18	.8	T	1.7	S	.9	S	1.9	W	.9	F	.7	M	.8	W	1.4	S	1.8	T	1.1	T	1.4	S	1.3	T
O	19	1.5	F	1.0	M	1.2	M	2.1	T	1.1	S	1.2	T	1.2	T	1.2	S	1.4	W	2.4	F	3.7	M	1.4	W
	20	1.7	S	1.8	T	1.6	T	1.0	F	1.1	S	1.5	W	1.2	F	.6	M	1.5	T	2.4	S	4.1	T	1.5	T
N	21	1.5	S	2.0	W	1.7	W	1.2	S	1.1	M	1.6	T	1.1	S	.8	T	1.6	F	2.0	S	3.3	W	1.3	F
	22	1.2	M	1.1	T	1.0	T	2.8	S	1.4	T	1.6	F	1.0	S	.7	W	.9	S	1.6	M	1.3	T	.8	S
T	23	1.5	T	1.1	F	1.2	F	2.0	M	2.2	W	.6	S	1.4	M	.6	T	.5	S	1.7	T	1.6	F	1.1	S
	24	1.7	W	1.1	S	1.7	S	1.2	T	2.2	T	1.7	S	1.7	T	1.4	F	.6	M	2.7	W	1.1	S	1.0	M
H	25	1.8	T	1.4	S	1.9	S	.9	W	.9	F	1.7	M	2.0	W	2.2	S	.9	T	2.1	T	2.8	S	1.3	T
	26	1.6	F	1.8	M	1.2	M	1.5	T	.7	S	1.3	T	1.2	T	1.5	S	2.4	W	1.6	F	2.6	M	1.4	W
	27	1.7	S	1.3	T	1.6	T	1.5	F	.9	S	1.0	W	.7	F	1.5	M	2.6	T	1.8	S	2.1	T	1.6	T
	28	1.6	S	1.3	W	1.5	W	.6	S	.6	M	1.4	T	.9	S	1.1	T	1.4	F	1.0	S	1.7	W	1.5	F
	29	1.6	M			.8	T	.8	S	.7	T	1.1	F	.9	S	1.2	W	1.5	S	2.0	M	.8	T	1.4	S
	30	1.5	T			1.7	F	.9	M	1.6	W	.9	S	1.0	M	1.2	T	1.4	S	2.7	T	1.0	F	.8	S
	31	2.4	W			2.0	S			2.2	T			.6	T	.9	F			3.9	W			.9	M
NUMBER		737		665		738		720		732		695		744		744		720		744		675		711	
MAXIMUM		3.5		4.4		2.0		2.8		2.8		2.9		2.0		2.2		2.6		3.9		4.1		2.8	

TOTAL SAMPLES = 8625
% OF POSSIBLE OBSERVATIONS = 98.5

0 STARRED (*) ITEMS EXCEEDED THE PRIMARY STANDARD OF 9.5 PPM
0 PLUSSED (+) ITEMS EXCEEDED THE SECONDARY STANDARD OF 9.5 PPM
0 DAILY MAXIMUMS EXCEED THE ALERT LEVEL OF 17 PPM
0 PRIMARY NON-OVERLAPPING VIOLATIONS
0 SECONDARY NON-OVERLAPPING VIOLATIONS

Figure 5-42. Standards Report (4 of 22)
Carbon Monoxide Maximum of 8-Hour Running Average

09/14/93 EPA AEROMETRIC INFORMATION RETRIEVAL SYSTEM (AIRS) PAGE 1
AMP355RP AIR QUALITY SUBSYSTEM 13:02:46
STANDARDS REPORT - NITROGEN DIOXIDE (42602)
DAILY VALUES
STATE 39 OHIO

SITE-ID: 39-003-0003 POC: 1 AQCR (177): NORTHWEST OHIO LATITUDE: 40:43:13 N
COUNTY (003): ALLEN CO URBAN AREA (0000): NOT IN AN URBAN AREA LONGITUDE: 084:05:59 W
CITY (43554): LIMA LAND USE (3): INDUSTRIAL UTM ZONE: 16
SITE ADDRESS: 4YO EAST HOLMES, WHITTIER ELEM. SCHOOL LOCATION-SETTING (2): SUBURBAN UTM-NORTHING: 4511520
SUPPORT AGENCY (003): OHIO EPA, NORTHWEST DISTRICT OFFICE UTM-EASTING: 00744960
SITE COMMENTS: CLARK EQUIPMENT .8KM - 270 DEG.,STANDARD OIL - 1.6 KM - 283 DEG ELEVATION-MSL: 00306 M
MONITOR COMMENTS: 84 UNITS (007): PPM
REPORTING ORGANIZATION (OCO): *** NOT FOUND *** PROBE HEIGHT: 00005 M
MONITOR TYPE (0): UNKNOWN MONITORING OBJECTIVE ( ): *** NOT FOUND ***
COLLECTION AND ANALYSIS METHOD (084): GAS-BUBBLER NASN SODIUM ARSENITE - ORIFICE

		JAN 1978	FEB 1978	MAR 1978	APR 1978	MAY 1978	JUN 1978	JUL 1978	AUG 1978	SEP 1978	OCT 1978	NOV 1978	DEC 1978
	1		S W		W S		M .035 T	.017 S	T	F	S	W	F
	2	.021	M T		T .017	S .025	T F	S	W	S	M	T	S
	3		T F	.025	F M		W S	M	T	S	T	F	S
	4		W S		S T		T S	T	F	M	W .046	S .015	M
D	5		T S		S W		F M	W	S .031	T .019	T	S	T
	6		F M		M T		S T	T .014	S	W	F	M	W
A	7		S .026	T	T F		S .015	W .019	F	M T	S	T	T
	8	.020	S W		W .019	S .017	M T	S	T	F	S	W	F
Y	9		M T	.054	T S		T F	S	W	S	M	T	S
	10		T F		F M		W S	M	T	S .020	F .021	S	M
	11		W S		S T		T S	T	F .020	M .020	W	S	M
O	12		T S		S W		F M	W .019	S	T	T	S	T
	13		F .029	M	M T		S .012	T .014	T	S W	F	M	W
F	14	.016	S T		T .030	F .013	S W	F	M	T	S	T	T
	15		S W	.022	W S		M T	S	T	F	S	W	F
	16		M T		T S		T F	S	W	S	M .036	T .024	S
M	17		T F		F M		W S	M	T .012	S .028	T	F	S
	18		W S		S T		T S	T .015	F	M	W	S	M
O	19		T S		S W		F .019	M .030	W	S T	T	S	T
	20	.019	F M		M .005	T .027	S T	T	S	W	F	M	W
N	21		S T	.024	T F		S W	F	M	T	S	T	T
	22		S W		W S		M T	S	T	F	S .030	W .019	F
T	23		M T		T S		T F	S	W .021	S .020	M	T	S
	24		T F		F M		W S	M .022	T	S	T	F	S
H	25		W .003	S	S T		T .010	S .018	T	F	M	S	M
	26	.013	T S		S .018	W .033	F M	W	S	T	T	S	T
	27		F M	.022	M T		S T	T	S	W	F	M	W
	28		S T		T F		S W	F	M	T	S .028	T .026	T
	29		S		W S		M T	S	T .021	F .024	S	W	F
	30		M		T S		T F	S .028	W	S	M	T	S
	31		T		F		W	.021 M	T		T		S
NUMBER		5	3	5	5	5	5	6	5	5	5	5	5
MAXIMUM		.021	.029	.054	.030	.033	.035	.030	.026	.031	.028	.046	.026
ARITH-MEAN		.018	.019	.029	.018	.023	.016	.020	.020	.021	.022	.032	.021

TOTAL SAMPLES = 59
ARITHMETIC MEAN = .022 MEETS SUMMARY CRITERIA
ARITHMETIC STANDARD DEVIATION = .008 PRIMARY STANDARD OF .050PPM WAS MET
SECONDARY STANDARD OF .050PPM WAS MET

Figure 5-42. Standards Report (5 of 22)
Nitrogen Dioxide Daily Values

09/14/93 EPA AEROMETRIC INFORMATION RETRIEVAL SYSTEM (AIRS) PAGE 1
AMP355RP AIR QUALITY SUBSYSTEM 14:17:44
STANDARDS REPORT - NITROGEN DIOXIDE (42602)
1-HOUR VALUES - JAN/90
STATE 39 OHIO

SITE-ID: 39-035-0033 POC: 1 AQCR (174): GREATER METROPOLITAN CLEVELAND LATITUDE: 41:29:36 N
COUNTY (035): CUYAHOGA CO URBAN AREA (1680): CLEVELAND, OH LONGITUDE: 081:40:37 W
CITY (16000): CLEVELAND LAND USE (2): COMMERCIAL UTM ZONE: 17
SITE ADDRESS: E. 22ND & WOODLAND LOCATION-SETTING (1): URBAN AND CENTER CIT UTM-NORTHING: 4593538
SUPPORT AGENCY (009): CLEVELAND AIR POLLUTION CONTROL AGENCY UTM-EASTING: 00443494
SITE COMMENTS: ST VINCENT MUNY LOT TRAILER-REAR OF PARKING LOT ACTIVATED 1970 ELEVATION-MSL: 00211 M
MONITOR COMMENTS: 14 UNITS (007): PPM
REPORTING ORGANIZATION (009): CLEVELAND AIR POLLUTION CONTROL AGENC PROBE HEIGHT: 00004 M
MONITOR TYPE (1): NAMS MONITORING OBJECTIVE (1): MAXIMUM CONCENTRATION
COLLECTION AND ANALYSIS METHOD (014): INSTRUMENTAL CHEMILUMINESCENCE

DAY/HOUR	0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	#	MAX
1 M	.013	.015	.013	.010	.013	.013	.013	.008	.008	.008	.010	.010	.008	.010	.013	.013	.015	.010	.018	.015	.025	.028	.015	.013	24	.028
2 T	.010	.010	.008	.008	.010	.015	.025	.030				.025		.025	.025	.028	.030	.035	.035	.033	.030	.025	.025	.035	20	.035
3 W	.030	.025	.025	.023	.028	.038	.038	.038								.028	.030	.033	.030	.030	.028	.023	.020	.020	17	.038
4 T	.020	.020	.028	.030	.030	.033	.035									.030	.030	.030	.025	.018	.018	.020	.025	.030	16	.035
5 F	.018	.013	.015	.010	.013	.018	.030	.038	.035	.033	.030		.025	.028	.025	.028	.035	.038	.033	.033	.038	.043	.048	.045	23	.048
6 S	.043	.040	.043	.040	.030	.025	.023	.025	.023	.023	.023	.023	.023	.023	.025	.023	.028	.030	.030	.030	.028	.028	.023	.018	24	.043
7 S	.023	.025	.025	.028	.023	.023	.023	.023	.023	.020	.018	.018	.018	.018	.018	.020	.025	.038	.033	.025	.035	.035	.040	.040	24	.040
8 M	.038	.038	.040	.038	.038	.038	.038	.040	.045	.048		.038	.035	.030	.038	.035	.045	.043	.050	.048	.040	.035	.033	.035	23	.050
9 T	.028	.025	.028	.025	.028	.035	.035	.035	.035	.033		.033	.033	.030	.023	.035	.038	.040	.035	.033	.033	.025	.020	.020	23	.040
0 W	.025	.025	.020	.018	.013	.015	.020	.020	.020						.023	.023	.025	.028	.028	.025	.025	.015	.015	.013	19	.028
1 T	.013	.015	.023	.018	.020	.025	.025	.028	.025	.023		.020	.020	.025	.025	.028	.025	.023	.018	.018	.018	.018	.013	.010	23	.028
2 F	.010	.008	.015	.018	.015	.018	.018	.020	.025	.010	.010		.020	.020	.023	.018	.023	.023	.015	.015	.013	.005	.005	.005	23	.025
3 S	.005	.005	.005	.005	.005	.005	.008	.010	.010	.013	.015	.023	.023	.020	.020	.020	.025	.025	.030	.035	.035	.035	.035	.038	24	.038
4 S	.033	.033	.033	.033	.033	.030	.030	.030	.030	.023	.023	.023	.023	.028	.030	.025	.025	.030	.035	.038	.033	.035	.018	.020	24	.038
5 M	.023	.023	.018	.018	.023	.025	.033	.040	.033	.033	.033	.038	.038	.035	.033	.035	.035	.040	.040	.038	.038	.040	.043	.038	24	.043
6 T	.038	.038	.038	.038	.035	.038	.038	.038	.038	.033		.028	.033	.030	.030	.033	.030	.030	.033	.033	.030	.030	.030	.030	23	.038
7 W	.030	.013	.013	.013	.018	.018	.033	.038	.038					.028	.028	.030	.030	.033	.033	.025	.023	.023	.023	.020	20	.038
8 T	.015	.018	.020	.020	.015	.020	.025	.028	.033	.028	.028	.028	.028	.023	.025	.025	.025	.025	.020	.020	.018	.023	.020	.020	24	.033
9 F	.013	.013	.010	.008	.010	.020	.025	.033	.025	.010	.028	.028	.028	.028	.030	.033	.038	.040	.043	.035	.033	.035	.035	.035	24	.043
0 S	.035	.035	.035	.035	.035	.036	.035	.033	.035	.035	.038	.038	.038	.035	.030	.033	.030	.028	.028	.028	.028	.023	.023	.023	24	.038
1 S	.023	.025	.023	.023	.023	.023	.023	.025	.023	.015	.013	.013	.015	.015	.018	.020	.023	.025	.023	.023	.020	.015	.013	.013	24	.025
2 M	.010	.010	.010	.010	.010	.015	.023	.025	.028	.028	.023	.023	.020	.023	.030	.033	.030	.030	.025	.020	.025	.025	.030	.028	24	.033
3 T	.028	.033	.033	.033	.033	.033	.038	.040	.038	.038	.033	.035	.035	.030	.033	.033	.033	.035	.033	.033	.033	.030	.033	.023	24	.040
4 W	.015	.015	.013	.010	.010	.010	.023	.030							.020	.020	.025	.025	.043	.043	.045	.043	.043	.045	18	.045
5 T	.043	.045	.043	.043	.038	.038	.038	.040	.038	.035		.038	.035	.033	.038	.023	.023	.023	.018	.013	.013	.013	.013	.013	23	.045
6 F	.013	.010	.010	.010	.008	.013	.018	.025	.025	.028	.028	.028	.025	.028	.025	.028	.030	.035	.036	.038	.038	.038	.038	.035	24	.036
7 S	.033	.030	.030	.025	.025	.025	.030	.025	.026	.028	.025	.025	.025	.015	.015	.013	.013	.015	.015	.018	.018	.015	.015	.013	24	.033
8 S	.013	.015	.013	.015	.008	.010	.010	.013	.016	.018	.018	.015	.015	.015	.015	.023	.025	.035	.035	.040	.045	.046	.045	.045	24	.046
9 M	.038	.028	.023	.015	.013	.018	.035	.033	.038	.035		.043	.043	.038	.035	.035	.036	.030	.023	.018	.020	.020	.020	.018	23	.043
0 T	.018	.018	.023	.030	.035	.035	.035	.038	.043		.038	.040	.028	.030	.033	.035	.038	.045	.045	.040	.030	.030	.030	.033	23	.045
1 W	.038	.035	.035	.035	.035	.038	.040	.043	.045	.040	.030	.028	.038	.045	.038	.038	.040	.045	.050	.058	.055	.055	.053	.050	24	.058

NO.	31	31	31	31	31	31	31	30	27	24	19	24	25	27	29	31	31	31	31	31	31	31	31	31	
MAX	.043	.045	.043	.043	.038	.038	.040	.043	.045	.048	.038	.043	.043	.045	.038	.038	.045	.045	.050	.058	.055	.055	.053	.050	
MEAN	.024	.023	.023	.022	.022	.024	.028	.030	.030	.027		.028	.027	.026	.026	.027	.029	.031	.031	.030	.029	.028	.027	.027	

TOTAL SAMPLES = 701
% OF POSSIBLE OBSERVATIONS = 94.2
ARITHMETIC MEAN = .027 MEETS SUMMARY CRITERIA
ARITHMETIC STANDARD DEVIATION = .010 PRIMARY STANDARD OF .050PPM WAS MET
SECONDARY STANDARD OF .050PPM WAS MET

Figure 5-42. Standards Report (6 of 22)
Nitrogen Dioxide 1-Hour Values

09/14/93 EPA AEROMETRIC INFORMATION RETRIEVAL SYSTEM (AIRS) PAGE 13
AMP355RP AIR QUALITY SUBSYSTEM
STANDARDS REPORT - NITROGEN DIOXIDE (42602)
1-HOUR MAXIMUM
STATE 39 OHIO

SITE-ID: 39-035-0033 POC: 1 AQCR (174): GREATER METROPOLITAN CLEVELAND LATITUDE: 41:29:36 N
COUNTY (035): CUYAHOGA CO URBAN AREA (1680): CLEVELAND, OH LONGITUDE: 081:40:37 W
CITY (16000): CLEVELAND LAND USE (2): COMMERCIAL UTM ZONE: 17
SITE ADDRESS: E. 22ND & WOODLAND LOCATION-SETTING (1): URBAN AND CENTER CIT UTM-NORTHING: 4593538
SUPPORT AGENCY (009): CLEVELAND AIR POLLUTION CONTROL AGENCY UTM-EASTING: 00443494
SITE COMMENTS: ST VINCENT MUNY LOT TRAILER-REAR OF PARKING LOT ACTIVATED 1970 ELEVATION-MSL: 00211 M
MONITOR COMMENTS: 14 UNITS (007): PPM
REPORTING ORGANIZATION (009): CLEVELAND AIR POLLUTION CONTROL AGENC PROBE HEIGHT: 4 M
MONITOR TYPE (1): NAMS MONITORING OBJECTIVE (1): MAXIMUM CONCENTRATION
COLLECTION AND ANALYSIS METHOD (014): INSTRUMENTAL CHEMILUMINESCENCE

		JAN 1990		FEB 1990		MAR 1990		APR 1990		MAY 1990		JUN 1990		JUL 1990		AUG 1990		SEP 1990		OCT 1990		NOV 1990		DEC 1990	
	1	.028	M	.048	T	.050	T	.040	S	.045	T	.070	F	.028	S	.048	W	.086	S	.035	M	.071	T	.038	S
	2	.035	T	.033	F	.053	F	.040	M	.055	W	.043	S	.048	M	.058	T	.043	S	.043	T	.063	F	.038	S
	3	.038	W	.033	S	.033	S	.030	T	.058	T	.015	S	.043	T	.093	F	.027	M	.050	W	.056	S	.038	M
	4	.035	T	.025	S	.035	S	.038	W	.048	F	.048	M	.018	W	.070	S	.079	T	.038	T	.024	S	.030	T
D	5	.048	F	.033	M	.048	M	.035	T	.056	S	.045	T	.045	T	.033	S	.056	W	.036	F	.060	M	.040	W
	6	.043	S	.048	T	.028	T	.050	F	.060	S	.043	W	.033	F	.025	M	.057	T	.038	S	.041	T	.035	T
A	7	.040	S	.050	W	.053	W	.048	S	.048	M	.045	T	.044	S	.065	T	.059	F	.048	S	.036	W	.040	F
	8	.050	M	.048	T	.055	T	.053	S	.043	T	.043	F	.040	S	.063	W	.027	S	.025	M	.040	T	.035	S
Y	9	.040	T	.053	F	.050	F	.058	M	.063	W	.035	S	.070	M	.080	T	.054	S	.025	T	.039	F	.033	S
	10	.028	W	.048	S	.040	S	.050	T	.033	T	.020	S	.043	T	.090	F	.063	M	.031	W	.043	S	.033	M
	11	.028	T	.045	S	.035	S	.035	W	.068	F	.060	M	.033	W	.078	S	.045	T	.041	T	.019	S	.050	T
O	12	.025	F	.038	M	.035	M	.035	T	.053	S	.063	T	.043	T	.070	S	.065	W	.033	F	.023	M	.055	W
	13	.038	S	.045	T	.053	T	.063	F	.053	S	.048	W	.028	F	.055	M	.055	T	.054	S	.053	T	.030	T
F	14	.038	S	.035	W	.065	W	.040	S	.073	M	.063	T	.030	S	.058	T	.048	F	.043	S	.053	W	.048	F
	15	.043	M	.045	T	.055	T	.038	S	.070	T	.060	F	.030	S	.058	W	.034	S	.044	M	.055	T	.040	S
	16	.038	T	.045	F	.050	F	.053	M	.040	W	.075	S	.045	M	.070	T	.028	S	.046	T	.045	F	.038	S
M	17	.038	W	.045	S	.033	S	.025	T	.035	T	.063	S	.065	T	.065	F	.039	M	.053	W	.020	S	.038	M
	18	.033	T	.038	S	.035	S	.065	W	.040	F	.043	M	.073	W	.068	S	.054	T	.029	T	.048	S	.030	T
O	19	.043	F	.038	M	.035	M	.065	T	.040	S	.050	T	.073	T	.043	S	.043	W	.042	F	.055	M	.043	W
	20	.038	S	.058	T	.050	T	.045	F	.030	S	.060	W	.055	F	.033	M	.042	T	.043	S	.057	T	.040	T
N	21	.025	S	.053	W	.043	W	.053	S	.035	M	.078	T	.040	S	.028	T	.052	F	.037	S	.051	W	.035	F
	22	.033	M	.050	T	.048	T	.075	S	.043	T	.055	F	.040	S	.024	W	.029	S	.035	M	.029	T	.033	S
T	23	.040	T	.038	F	.033	F	.098	M	.060	W	.023	S	.058	M	.040	T	.020	S	.049	T	.030	F	.030	S
	24	.045	W	.038	S	.050	S	.088	T	.070	T	.040	S	.075	T	.048	F	.042	M	.055	W	.036	S	.023	M
H	25	.045	T	.038	S	.045	S	.070	W	.055	F	.088	M	.068	W	.070	S	.036	T	.026	T	.044	S	.025	T
	26	.038	F	.048	M	.028	M	.080	T	.048	S	.068	T	.060	T	.073	S	.081	W	.025	F	.090	M	.045	W
	27	.033	S	.036	T	.060	T	.085	F	.045	S	.075	W	.065	F	.083	M	.065	T	.014	S	.036	T	.050	T
	28	.048	S	.048	W	.065	W	.050	S	.058	M	.070	T	.065	S	.045	T	.064	F	.010	S	.026	W	.043	F
	29	.043	M			.043	T	.058	S	.045	T	.058	F	.063	S	.045	W	.048	S	.046	M	.032	T	.025	S
	30	.045	T			.060	F	.075	M	.050	W	.055	S	.068	M	.053	T	.042	S	.068	T	.033	F	.020	S
	31	.058	W			.035	S			.073	T			.023	T	.073	F			.070	W			.033	M
NUMBER		701		627		703		685		703		674		700		701		686		689		681		703	
MAXIMUM		.058		.058		.065		.098		.073		.088		.075		.093		.086		.070		.090		.055	
ARITH-MEAN		.027		.027		.030		.033		.031		.031		.029		.034		.030		.026		.026		.025	

TOTAL SAMPLES = 8253
% OF POSSIBLE OBSERVATIONS = 94.2
ARITHMETIC MEAN = .029
ARITHMETIC STANDARD DEVIATION = .014

MEETS SUMMARY CRITERIA
PRIMARY STANDARD OF .050PPM WAS MET
SECONDARY STANDARD OF .050PPM WAS MET

Figure 5-42. Standards Report (7 of 22)
Nitrogen Dioxide 1-Hour Maximum

09/14/93 EPA AEROMETRIC INFORMATION RETRIEVAL SYSTEM (AIRS) PAGE 1
AMP355RP AIR QUALITY SUBSYSTEM
STANDARDS REPORT - OZONE (44201)
1-HOUR VALUES - APR/90
STATE 39 OHIO

SITE-ID: 39-003-0002 POC: 1 AQCR (177): NORTHWEST OHIO LATITUDE: 40:45:20 N
COUNTY (003): ALLEN CO URBAN AREA (0000): NOT IN AN URBAN AREA LONGITUDE: 084:03:07 W
CITY (00000): NOT IN A CITY LAND USE ( ): *** NOT FOUND *** UTM ZONE: 16
SITE ADDRESS: 2650 BIBLE ROAD LOCATION-SETTING ( ): *** NOT FOUND *** UTM-NORTHING: 4517450
SUPPORT AGENCY (003): OHIO EPA, NORTHWEST DISTRICT OFFICE UTM-EASTING: 0074800
SITE COMMENTS: BATH HIGH SCHOOL ELEVATION-MSL: 00268 M
MONITOR COMMENTS: 11 UNITS (007): PPM
REPORTING ORGANIZATION (003): OHIO EPA, NORTHWEST DISTRICT OFFICE PROBE HEIGHT: 6 M
MONITOR TYPE (2): SLAMS MONITORING OBJECTIVE ( ): *** NOT FOUND ***
COLLECTION AND ANALYSIS METHOD (014): INSTRUMENTAL ULTRA VIOLET

DAY/HOUR	0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	#	MAX
1 S	.000		.000	.000	.000	.003	.009	.017	.025	.028	.031	.034	.028	.030	.032	.033	.034	.032	.024	.013	.016	.022	.026	23	.034
2 M	.028		.028	.028	.029	.031	.028	.026	.024	.023	.021	.022	.019	.018	.016	.014	.021	.022	.022	.023	.021	.022	.025	.024	23	.031
3 T	.022		.023	.025	.025	.025	.022	.022	.021	.023	.026	.027	.027	.025	.024	.025	.022	.020	.021	.015	.016	.016	.014	.011	23	.027
4 W	.011		.020	.018	.012	.012	.013	.015	.022	.029	.033	.037	.037	.038	.042	.041	.036	.030	.020	.017	.020	.021	.020	.017	23	.042
5 T	.015		.013	.010	.005	.002	.001	.004	.012	.024		.032	.034	.026	.028	.034	.030	.031	.030	.028	.028	.017	.003	.002	22	.034
6 F	.011		.006	.001	.010	.016	.013	.022	.029	.032	.035	.034	.040	.041	.044	.044	.044	.042	.040	.038	.032	.026	.032	.030	23	.044
7 S	.026		.029	.029	.028	.021	.017	.022	.026	.030	.034	.035	.038	.040	.042	.040	.039	.039	.039	.033	.014	.005	.002	.002	23	.042
8 S	.003		.012	.013	.015	.011	.008	.024	.032	.038	.043	.045	.046	.049	.047	.048	.052	.052	.048	.035	.038	.038	.037	.029	23	.052
9 M	.024		.022	.024	.025	.022	.021	.028	.035	.042			.050	.050	.051	.050	.049	.042	.030	.030	.034	.022	.016	.014	21	.051
0 T	.024		.025	.025	.029	.036	.040	.039	.033	.027	.024	.020	.017	.024	.028	.032	.030	.026	.026	.028	.031	.031	.031	.034	23	.040
1 W	.033		.028	.025	.024	.022	.015	.020	.027	.031	.035	.037	.039	.039	.034	.037	.039	.037	.037	.035	.035	.034	.030	.030	23	.039
2 T	.030		.028	.019	.013	.009	.007	.020	.029		.033	.033	.033	.032	.036	.034	.038	.036	.035	.033	.031	.026	.030	.019	22	.038
3 F	.017		.022	.022	.026	.024	.024	.022	.023	.028	.034	.038	.040	.042	.044	.046	.046	.045	.041	.035	.032	.026	.045	.044	23	.046
4 S	.042		.040	.039	.041	.039	.035	.033	.033	.032	.034	.030	.035	.035	.032	.031	.022	.026	.028	.027	.023	.013	.014	.018	23	.042
5 S	.021		.019	.023	.028	.026	.024	.025	.031	.039	.045	.049	.051	.050	.049	.049	.048	.045	.039	.029	.009	.007	.009	.008	23	.051
6 M	.004		.001	.002	.002	.001	.002	.014	.020	.030	.040	.047	.048	.049	.050	.051	.048	.040	.042	.044	.036	.036	.033	.033	23	.051
7 T	.040		.036	.037	.037	.033	.027	.031	.032		.037	.038	.038	.040	.039	.041	.042	.041	.039	.034	.030	.026	.014	.017	22	.042
8 W	.012		.001	.002	.001	.001	.001	.006	.018	.036	.044	.047	.049	.049	.048	.049	.050	.050	.048	.038	.031	.035	.033	.033	23	.050
9 T	.033		.033	.031	.023	.020	.020	.028	.029	.032	.034	.038	.046	.043	.044	.043	.040	.039	.034	.028	.036	.039	.030	.033	23	.046
0 F	.035		.028	.023	.024	.020	.015	.014	.021	.026	.030	.036	.038	.042	.035	.030	.030	.028	.025	.024	.024	.022	.021	.023	23	.042
1 S	.024		.021	.017	.018	.019	.010	.010	.023	.025	.030	.039	.045	.045	.049	.045	.050	.051	.047	.039	.047	.045	.041	.034	23	.051
2 S	.032		.027	.027	.021	.011	.019	.026	.035	.046	.052	.054	.058	.059	.061	.062	.063	.064	.062	.054	.053	.044	.037	.030	23	.064
3 M	.029		.035	.034	.031	.026	.026	.030	.043	.056	.065	.072	.073	.073	.073	.072	.074	.082	.077	.054	.048	.053	.045	.046	23	.082
4 T	.053	.055	.058	.053	.045	.035	.025	.030	.038	.045	.055	.063	.065	.068	.063	.060	.060	.060	.055	.040	.030	.040	.035	.035	24	.068
5 W	.035	.033	.028	.028	.025	.015	.013		.041	.048		.056	.058	.058	.058	.066	.069	.071	.069	.054	.024	.026	.026	.025	22	.071
6 T	.033		.015	.014	.018	.020	.019	.021		.044	.054	.057	.060	.061	.063	.066	.065	.070	.063	.045	.039	.049	.045	.039	22	.070
7 F	.033		.028	.028	.026	.023	.017	.026	.034	.043	.056	.067	.070	.080	.082	.077	.077	.078	.069	.060	.045	.042	.023	.031	23	.082
8 S	.037		.048	.056	.053	.050	.045	.042	.045	.048	.050	.055	.054	.055	.052	.054	.055	.057	.054	.050	.046	.043	.043	.037	23	.057
9 S	.035		.028	.025	.021	.020	.018	.023	.032	.034	.035	.036	.039	.041	.043	.046	.048	.049	.046	.041	.034	.023	.024	.025	23	.049
0 M	.023		.016	.015	.016	.012	.012	.021	.031	.041	.048	.053	.054	.060	.064	.068	.066	.063	.047	.015	.008	.008	.012	.012	23	.068
NO.	30	2	30	30	30	30	30	29	29	28	27	29	30	30	30	30	30	30	30	30	30	30	30	30		
MAX	.053	.055	.058	.056	.053	.050	.045	.042	.045	.056	.065	.072	.073	.080	.082	.077	.077	.082	.077	.060	.053	.053	.049	.046		

TOTAL SAMPLES = 684 0 STARRED (*) ITEMS EXCEEDED THE PRIMARY STANDARD OF .125PPM
% OF POSSIBLE OBSERVATIONS = 95.0 0 PLUSSED (+) ITEMS EXCEEDED THE SECONDARY STANDARD OF .125PPM

Figure 5-42. Standards Report (8 of 22)
Ozone 1-Hour Values

09/14/93 EPA AEROMETRIC INFORMATION RETRIEVAL SYSTEM (AIRS) PAGE 8
AMP355RP AIR QUALITY SUBSYSTEM
STANDARDS REPORT - OZONE (44201)
1-HOUR MAXIMUM
STATE 39 OHIO

SITE-ID: 39-003-0002 POC: 1 AQCR (177): NORTHWEST OHIO LATITUDE: 40:46:20 N
COUNTY (003): ALLEN CO URBAN AREA (0000): NOT IN AN URBAN AREA LONGITUDE: 084:03:07 W
CITY (00000): NOT IN A CITY LAND USE ( ): *** NOT FOUND *** UTM ZONE: 16
SITE ADDRESS: 2650 BIBLE ROAD LOCATION-SETTING ( ): *** NOT FOUND *** UTM-NORTHING: 4517450
SUPPORT AGENCY (003): OHIO EPA, NORTHWEST DISTRICT OFFICE UTM-EASTING: 00748800
SITE COMMENTS: BATH HIGH SCHOOL ELEVATION-MSL: 00268 M
MONITOR COMMENTS: 11 UNITS (007): PPM
REPORTING ORGANIZATION (003): OHIO EPA, NORTHWEST DISTRICT OFFICE PROBE HEIGHT: 6 M
MONITOR TYPE (2): SLAMS MONITORING OBJECTIVE ( ): *** NOT FOUND ***
COLLECTION AND ANALYSIS METHOD (014): INSTRUMENTAL ULTRA VIOLET

		JAN 1990	FEB 1990	MAR 1990	APR 1990	MAY 1990	JUN 1990	JUL 1990	AUG 1990	SEP 1990	OCT 1990	NOV 1990	DEC 1990
	1	M	T	T	.034 S	.044 T	.095 F	.045 S	W	.061 S	.045 M	T	S
	2	T	F	F	.031 M	.055 W	.048 S	.052 M	.072 T	.049 S	.049 T	F	S
	3	W	S	S	.027 T	.049 T	.049 S	.096 T	.098 F	.024 M	.062 W	S	M
	4	T	S	S	.042 W	.048 F	.029 M	.090 W	.059 S	T	.038 T	S	T
D	5	F	M	M	.034 T	.057 S	.048 T	.063 T	.047 S	.060 W	.043 F	M	W
	6	S	T	T	.044 F	.050 S	.061 W	.038 F	.030 M	.091 T	.056 S	T	T
A	7	S	W	W	.042 S	.065 M	.072 T	.057 S	.039 T	.059 F	.047 S	W	F
	8	M	T	T	.052 S	T	.056 F	.095 S	.088 W	.043 S	.016 M	T	S
Y	9	T	F	F	.051 M	.068 W	.070 S	.069 M	.072 T	S	.009 T	F	S
	10	W	S	S	.040 T	.036 T	.045 S	.061 T	.078 F	.052 M	.022 W	S	M
	11	T	S	S	.039 W	.055 F	.053 M	.030 W	.069 S	.049 T	.034 T	S	T
O	12	F	M	M	.038 T	.043 S	.066 T	.048 T	.064 S	.059 W	.011 F	M	W
	13	S	T	T	.046 F	.042 S	.089 W	.028 F	.041 M	.055 T	.039 S	T	T
F	14	S	W	W	.042 S	.057 M	.068 T	.040 S	.049 T	.039 F	.045 S	W	F
	15	M	T	T	.051 S	.039 T	.060 F	.047 S	.058 W	.033 S	M	T	S
	16	T	F	F	.051 M	.046 W	.079 S	.063 M	.059 T	.028 S	.039 T	F	S
M	17	W	S	S	.042 T	.045 T	.080 S	.075 T	.083 F	.038 M	.064 W	S	M
	18	T	S	S	.050 W	.052 F	.074 M	.070 W	.050 S	.038 T	.046 T	S	T
O	19	F	M	M	.046 T	.060 S	.045 T	.073 T	.051 S	.019 W	.032 F	M	W
	20	S	T	T	.042 F	.050 S	.054 W	.040 F	.034 M	.039 T	.028 S	T	T
N	21	S	W	W	.051 S	.031 M	.059 T	.055 S	.038 T	.046 F	.060 S	W	F
	22	M	T	T	.064 S	.038 T	.053 F	.028 S	.025 W	.033 S	.008 M	T	S
T	23	T	F	F	.082 M	.055 W	.034 S	.047 M	.020 T	.025 S	.033 T	F	S
	24	W	S	S	.068 T	.065 T	.041 S	.052 T	.052 F	M	.039 W	S	M
H	25	T	S	S	.071 W	.049 F	.071 M	.076 W	.051 S	.054 T	.028 T	S	T
	26	F	M	M	.070 T	.054 S	.063 T	.061 T	.083 S	.042 W	.034 F	M	W
	27	S	T	T	.082 F	.075 S	.080 W	.085 F	.064 M	.061 T	.026 S	T	T
	28	S	W	W	.057 S	.055 M	.069 T	.089 S	.044 T	.078 F	.032 S	W	F
	29	M		T	.049 S	.057 T	.066 F	.095 S	.023 W	.021 S	.028 M	T	S
	30	T		F	.068 M	.048 W	.072 S	.058 M	.022 T	.039 S	.056 T	F	S
	31	W		S		.055 T		.038 T	F		.052 W		M
VALID DAYS					30	30	30	31	29	27	30		
MAXIMUM					.082	.075	.095	.096	.098	.091	.064		
VIOLATIONS													

TOTAL SAMPLES = 4851 207 VALID DAILY MAXIMA
% OF POSSIBLE OBSERVATIONS = 55.4 0 STARRED (*) DAILY-MAXIMA EXCEEDING THE STANDARD OF .125PPM
7 MISSING DAYS ASSUMED TO BE LESS THAN THE STANDARD
0 DAILY MAXIMUMS EXCEED THE ALERT LEVEL OF .200 PPM

Figure 5-42. Standards Report (9 of 22)
Ozone 1-Hour Maxima

09/22/93
AMP355RP

EPA AEROMETRIC INFORMATION RETRIEVAL SYSTEM (AIRS)
AIR QUALITY SUBSYSTEM
STANDARDS REPORT - LEAD (12128)
DAILY VALUES
STATE 39 OHIO

PAGE 1

SITE-ID: 39-035-0049 POC: 1
COUNTY (035): CUYAHOGA CO
CITY (16000): CLEVELAND
SITE ADDRESS: E. 56TH ST., FERRO CORP., CLEVELAND
SUPPORT AGENCY (009): CLEVELAND AIR POLLUTION CONTROL AGENCY
SITE COMMENTS:
MONITOR COMMENTS:
REPORTING ORGANIZATION (009): CLEVELAND AIR POLLUTION CONTROL AGENC
MONITOR TYPE (3): OTHER
COLLECTION AND ANALYSIS METHOD (090): HI-VOL EMISSION SPECTRA ICAP

AQCR (174): GREATER METROPOLITAN CLEVELAND
URBAN AREA (1680): CLEVELAND, OH
LAND USE (1): RESIDENTIAL
LOCATION-SETTING (2): SUBURBAN
MONITORING OBJECTIVE (1): MAXIMUM CONCENTRATION

LATITUDE: 41:26:56 N
LONGITUDE: 081:39:00 W
UTM ZONE: 17
UTM-NORTHING: 4588600
UTM-EASTING: 00445700
ELEVATION-MSL: 00213 M
UNITS (001): UG/CU MET
PROBE HEIGHT: 9 M

		JAN 1988	FEB 1988	MAR 1988	APR 1988	MAY 1988	JUN 1988	JUL 1988	AUG 1988	SEP 1988	OCT 1988	NOV 1988	DEC 1988
	1	F	M	T	F	S	W	F	.10 M	T	S	T	T
	2	S	T	W	S	M	.04 T	.15 S	T	F	S	W	F
	3	S .15	W	T	S .11	T	F	S	W	S	M	T	S
	4 .11	M	T .06	F	M	W	S	M	T	S	T	F	S
D	5	T	F	S	T	T	S	T	F	M	W	S	M
	6	W	S	S	W	F	M	W	S .69	T	T	S	T
A	7	T	S	M	T	S	T	T .31	S	W	F	M	W
	8	F	M	T	F	S .06	W .36	F	M	T	S	T	T
Y	9	S .13	T	W	S .11	M	T	S	T	F	S	W	F
	10 .05	S	W .42	T	S	T	F	S	W	S	M	T	S
	11	M	T	F	M	W	S	M	T .23	S	T	F	S
O	12	T	F	S	T	T	S	T	F .23	M	W	S	M
	13	W	S	S	W	F	M	W .53	S	T	T	S	T
F	14	T	S	M	T	S .21	T .04	T	S	W	F	M	W
	15	F .04	M	T	F .12	S	W	F	M	T	S	T	T
	16 .06	S	T	W	S	M	T	S	T	F	S	W	F
M	17	S	W	T	S	T	F	S	W	S	M	T	S
	18	M	T	F	M	W	S	M	T .07	S	T	F	S
O	19	T	F	S	T	T	S	T .48	F	M	W	S	M
	20	W	S	S	W	F .10	M .06	W	S	T	T	S	T
N	21	T	S	M	T .41	S	T	T	S	W	F	M	W
	22 .11	F	M .15	T	F	S	W	F	M	T	S	T	T
T	23	S	T	W	S	M	T	S	T	F	S	W	F
	24	S	W	T	S	T	F	S	W .08	S	M	T	S
H	25	M	T	F	M	W	S	M .42	T	S	T	F	S
	26	T	F	S	T	T .05	S .14	T	F	M	W	S	M
	27	W .14	S	S	W .13	F	M	W	S	T	T	S	T
	28 .19	T	S .11	M	T	S	T	T	S	W	F	M	W
	29	F	M	T	F	S	W	F	M	T	S	T	T
	30	S		W	S	M	T	S	T .33	F	S	W	F
	31	S		T		T		S .11	W		M		S
NUMBER				13			10			17			
MAXIMUM				.42			.41			.69			
ARITHMETIC MEAN				.13			.13			.25			

TOTAL SAMPLES = 40

Figure 5-42. Standards Report (10 of 22)
Lead Daily Values

09/14/93
AMP355RP

EPA AEROMETRIC INFORMATION RETRIEVAL SYSTEM (AIRS)
AIR QUALITY SUBSYSTEM
STANDARDS REPORT - LEAD (12128)
COMPOSITE VALUES
STATE 39 OHIO

PAGE 1

SITE-ID: 39-035-0042 POC: 1
COUNTY (035): CUYAHOGA CO
CITY (16000): CLEVELAND
SITE ADDRESS: FIRE STATION 6, 3136 LORAIN
SUPPORT AGENCY (009): CLEVELAND AIR POLLUTION CONTROL AGENCY
SITE COMMENTS: HIVOL JULYY 77 BUBBLER - MAY 77
MONITOR COMMENTS: 92
REPORTING ORGANIZATION (009): CLEVELAND AIR POLLUTION CONTROL AGENC
MONITOR TYPE (1): NAMS
COLLECTION AND ANALYSIS METHOD (092): HI-VOL ATOMIC ABSORPTION

AQCR (174): GREATER METROPOLITAN CLEVELAND
URBAN AREA (1680): CLEVELAND, OH
LAND USE (2): COMMERCIAL
LOCATION-SETTING (1): URBAN AND CENTER CIT
MONITORING OBJECTIVE (1): MAXIMUM CONCENTRATION

LATITUDE: 41:22:16 N
LONGITUDE: 081:42:27 W
UTM ZONE: 17
UTM-NORTHING: 4579984
UTM-EASTING: 0440831
ELEVATION-MSL: 00213 M
UNITS (001): UG/CU MET
PROBE HEIGHT: 4 M

MONTHLY COMPOSITE OF 24-HOUR SAMPLES

YEAR	SAMPLE PERIOD	VALUE	QUARTER	QUARTERLY MEAN	NUMBER SAMPLES
90	1	.07			5
	2	.03			5
	3	.04	1	.05	4
	4	.11			4
	5	.07			5
	6	.07	2	.08	4
	7	.07			5
	8	.17			5
	9	.05	3	.10	4
	10	.07			5
	11	.05			5
	12	.04	4	.05	6

Figure 5-42. Standards Report (11 of 22)
Lead Composite Values

09/14/93 EPA AEROMETRIC INFORMATION RETRIEVAL SYSTEM (AIRS) PAGE 1
AMP355RP AIR QUALITY SUBSYSTEM
STANDARDS REPORT - SULFUR DIOXIDE (42401)
DAILY VALUES
STATE 39 OHIO

SITE-ID: 39-001-0002 POC: 2 AQCR (103): HUNTINGTON-ASHLAND-PORTSMOUTH-IRONTON LATITUDE: 38:41:18 N
COUNTY (001): ADAMS CO URBAN AREA (0000): NOT IN AN URBAN AREA LONGITUDE: 083:36:43 W
CITY (00000): NOT IN A CITY LAND USE (1): RESIDENTIAL UTM ZONE: 17
SITE ADDRESS: VILLAGE HALL (MANCHESTER) LOCATION-SETTING (2): SUBURBAN UTM-NORTHING: 4285200
SUPPORT AGENCY (013): PORTSMOUTH CITY HEALTH DEPT DIVISION AIR UTM-EASTING: 00272820
SITE COMMENTS: VILLAGE HALL SECOND FLOOR ELEVATION-MSL: 00160 M
MONITOR COMMENTS: 91 UNITS (001): UG/CU MET
REPORTING ORGANIZATION (000): *** NOT FOUND *** PROBE HEIGHT: 4 M
MONITOR TYPE (0): UNKNOWN MONITORING OBJECTIVE ( ): *** NOT FOUND ***
COLLECTION AND ANALYSIS METHOD (091): GAS-BUBBLER PARAROSANILINE-SULFAMIC ACID

		JAN 1978		FEB 1978		MAR 1978		APR 1978		MAY 1978		JUN 1978		JUL 1978		AUG 1978		SEP 1978		OCT 1978		NOV 1978		DEC 1978	
	1		S	74	W		W		S		M	17	T		S		T		F		S		W		F
	2	52	M		T		T	18	S	9	T		F		S		W		S		M		T		S
	3		T		F	69	F		M		W		S		M		T		S		T		F		S
	4		W		S		S		T		T		S		T		F		M		W		S		M
D	5		T		S		S		W		F		M		W		S		T		T		S		T
	6		F		M		M		T		S		T		T		S		W		F		M		W
A	7		S	22	T		T		F		S	2	W		F		M		T		S		T		T
	8	2	S		W		W	9	S	2	M		T		S		T		F		S		W		F
Y	9		M		T	169	T		S		T		F		S		W		S		M		T		S
	10		T		F		F		M		W		S		M		T		S		T		F		S
	11		W		S		S		T		T		S		T		F		M		W		S		M
O	12		T		S		S		W		F		M		W		S		T		T		S		T
	13		F	56	M		M		T		S	2	T		T		S		W		F		M		W
F	14	35	S		T		T	17	F	2	S		W		F		M		T		S		T		T
	15		S		W	26	W		S		M		T		S		T		F		S		W		F
	16		M		T		T		S		T		F		S		W		S		M		T		S
M	17		T		F		F		M		W		S		M		T		S		T		F		S
	18		W		S		S		T		T		S		T		F		M		W		S		M
O	19		T	74	S		S		W		F	9	M		W		S		T		T		S		T
	20	39	F		M		M	26	T	2	S		T		T		S		W		F		M		W
N	21		S		T	22	T		F		S		W		F		M		T		S		T		T
	22		S		W		W		S		M		T		S		T		F		S		W		F
T	23		M		T		T		S		T		F		S		W		S		M		T		S
	24		T		F		F		M		W		S		M		T		S		T		F		S
H	25		W	35	S		S		T		T	2	S		T		F		M		W		S		M
	26	135	T		S		S	35	W	13	F		M		W		S		T		T		S		T
	27		F		M	46	M		T		S		T		T		S		W		F		M		W
	28		S		T		T		F		S		W		F		M		T		S		T		T
	29		S				W		S		M		T		S		T		F		S		W		F
	30		M				T		S		T		F		S		W		S		M		T		S
	31		T				F				W				M		T				T				S

NUMBER	5	5	5	5	5	5
MAXIMUM	135	74	169	35	13	17
ARITH-MEAN	53	52	67	21	6	7

TOTAL SAMPLES = 30 0
ARITHMETIC MEAN = 34 DOES NOT MEET SUMMARY CRITERIA
ARITHMETIC STANDARD DEVIATION = 39 STARRED (*) ITEMS EXCEEDED THE PRIMARY STANDARD OF 365UG/CU METER (25 C)
PRIMARY STANDARD OF 80UG/CU METER (25 C) WAS MET

Figure 5-42. Standards Report (12 of 22)
Sulfur Dioxide Daily Values

09/14/93 EPA AEROMETRIC INFORMATION RETRIEVAL SYSTEM (AIRS) PAGE 1
AMP355RP AIR QUALITY SUBSYSTEM
STANDARDS REPORT - SULFUR DIOXIDE (42401)
1-HOUR VALUES - JAN/80
STATE 37 NORTH CAROLINA

SITE-ID: 37-183-0008 POC: 1 AQCR (166): EASTERN PIEDMONT LATITUDE: 35:47:33 N
COUNTY (183): WAKE CO URBAN AREA (0000): NOT IN AN URBAN AREA LONGITUDE: 078:37:55 W
CITY (55000): RALEIGH LAND USE ( ): *** NOT FOUND *** UTM ZONE: 17
SITE ADDRESS: HALIFAX ST. CP&L POWER SUBSTATION LOCATION-SETTING ( ): *** NOT FOUND *** UTM-NORTHING: 3963321
SUPPORT AGENCY (001): NORTH CAROLINA DEPT NATURAL RESOURCES&CO UTM-EASTING: 00714009
SITE COMMENTS: CP&L POWER SUBSTATION ELEVATION-MSL: 00098 M
MONITOR COMMENTS: 14 UNITS (001): UG/CU MET
REPORTING ORGANIZATION (000): *** NOT FOUND *** PROBE HEIGHT: 4 M
MONITOR TYPE (0): UNKNOWN MONITORING OBJECTIVE ( ): *** NOT FOUND ***
COLLECTION AND ANALYSIS METHOD (020): INSTRUMENTAL PULSED FLUORESCENT

DAY/HOUR	0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	#	MEAN
1 T	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7		23	7
2 W	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	19	26	26	33	19		23	11
3 T	19	7	7	33	39	39	53	46	39	26	26	26	7	7	19	19	19	19	19	26	26	19	7		23	24
4 F	7	19	19	19	19	26	33	33	7	7	19	19	19	7	7	7	7	7	7	7	7	7	7		23	14
5 S	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	33	33	33	33	26	26	26	7		23	14
6 S	26	26	33	33	26	19	19	26	19	19	26	19	19	7	7	7	7	19	19	7	7	7	7		23	18
7 M	7	7	7	7	26	26	26	33	39	66	39	19	19	19	7	26	7	7	19	19	7	7	7		23	19
8 T	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7		23	7
9 W	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7		23	7
0 T	7	7	7	7	7	7	26	33	33	26	19	7	7	7	7	7	19	19	19	19	19	19	7		23	15
1 F	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7		23	7
2 S	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7		23	7
3 S	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7		23	7
4 M	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7		23	7
5 T	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7		23	7
6 W	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	19	26	33	33	33	7		23	12
7 T	19	19	19	19	7	7	7	19	19	26	7	7	7	7	7	7	7	7	7	7	7	7	7		23	11
8 F	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7		23	7
9 S	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7		23	7
0 S	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7		23	7
1 M	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7		23	7
2 T	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7		23	7
3 W	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7		23	7
4 T	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7		23	7
5 F	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7		23	7
6 S	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7		23	7
7 S	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7		23	7
8 M	7	7	7	19	26	46	33	19	26	7	19	19	7	7	7	7	7	7	19	19	26	33	26		23	17
9 T	19	19	26	26	33	26	33	39	39	33	26	39	46	39	39	46	26	26	26	7	19	7	7		23	28
0 W	26	7	7	7	7	7	7	7	26	26	33	33	33	33	26	7	7	7	7	7	7	7	7		23	15
1 T	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7		23	7
NO.	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31			
MAX	26	26	33	33	39	46	53	46	39	66	39	39	46	39	39	46	33	33	33	33	33	33	26			
MEAN	9	9	9	10	11	12	13	13	13	13	12	11	10	9	9	10	9	10	11	11	11	11	8			

TOTAL SAMPLES = 713
% OF POSSIBLE OBSERVATIONS = 95.8
ARITHMETIC MEAN = 11 MEETS SUMMARY CRITERIA
ARITHMETIC STANDARD DEVIATION = 8 PRIMARY STANDARD OF 80UG/CU METER (25 C) WAS MET

Figure 5-42. Standards Report (13 of 22)
Sulfur Dioxide 1-Hour Values

09/14/93
AMP355RP

EPA AEROMETRIC INFORMATION RETRIEVAL SYSTEM (AIRS)
AIR QUALITY SUBSYSTEM
STANDARDS REPORT - SULFUR DIOXIDE (42401)
1-HOUR MAXIMUM
STATE 37 NORTH CAROLINA

PAGE 4

SITE-ID: 37-183-0008 POC: 1
COUNTY (183): WAKE CO
CITY (55000): RALEIGH
SITE ADDRESS: HALIFAX ST. CP&L POWER SUBSTATION
SUPPORT AGENCY (001): NORTH CAROLINA DEPT NATURAL RESOURCES&CO
SITE COMMENTS: CP&L POWER SUBSTATION
MONITOR COMMENTS: 14
REPORTING ORGANIZATION (000): *** NOT FOUND ***
MONITOR TYPE (0): UNKNOWN
COLLECTION AND ANALYSIS METHOD (020): INSTRUMENTAL PULSED FLUORESCENT

AQCR (166): EASTERN PIEDMONT
URBAN AREA (0000): NOT IN AN URBAN AREA
LAND USE ( ): *** NOT FOUND ***
LOCATION-SETTING ( ): *** NOT FOUND ***
MONITORING OBJECTIVE ( ): *** NOT FOUND ***

LATITUDE: 35:47:33 N
LONGITUDE: 078:37:55 W
UTM ZONE: 17
UTM-NORTHING: 3963321
UTM-EASTING: 0074009
ELEVATION-MSL: 00098 M
UNITS (001): UG/CU MET
PROBE HEIGHT: 4 M

	JAN 1980		FEB 1980		MAR 1980		APR 1980	MAY 1980	JUN 1980	JUL 1980	AUG 1980	SEP 1980	OCT 1980	NOV 1980	DEC 1980
1	7	T	7	F	39	S	T	T	S	T	F	M	W	S	M
2	33	W	7	S	26	S	W	F	M	W	S	T	T	S	T
3	53	T	19	S	86	M	T	S	T	T	S	W	F	M	W
4	33	F	26	M	73	T	F	S	W	F	M	T	S	T	T
D 5	33	S	19	T	26	W	S	M	T	S	T	F	S	W	F
6	33	S	7	W	19	T	S	T	F	S	W	S	M	T	S
A 7	66	M	86	T	33	F	M	W	S	M	T	S	T	F	S
8	7	T	80	F	7	S	T	T	S	T	F	M	W	S	M
Y 9	7	W	39	S	19	S	W	F	M	W	S	T	T	S	T
10	33	T	26	S	19	M	T	S	T	T	S	W	F	M	W
11	7	F	53	M	7	T	F	S	W	F	M	T	S	T	T
Q 12	7	S	39	T	7	W	S	M	T	S	T	F	S	W	F
13	7	S	39	W	7	T	S	T	F	S	W	S*	M	T	S
F 14	7	M	60	T	19	F	M	W	S	M	T	S	T	F	S
15	7	T	93	F	39	S	T	T	S	T	F	M	W	S	M
16	33	W	53	S	39	S	W	F	M	W	S	T	T	S	T
M 17	26	T	33	S	7	M	T	S	T	T	S	W	F	M	W
18	7	F	19	M	26	T	F	S	W	F	M	T	S	T	T
O 19	7	S	73	T	19	W	S	M	T	S	T	F	S	W	F
20	7	S	19	W	7	T	S	T	F	S	W	S	M	T	S
N 21	7	M	26	T		F	M	W	S	M	T	S	T	F	S
22	7	T	7	F		S	T	T	S	T	F	M	W	S	M
T 23	7	W	7	S		S	W	F	M	W	S	T	T	S	T
24	7	T	19	S		M	T	S	T	T	S	W	F	M	W
H 25	7	F	19	M		T	F	S	W	F	M	T	S	T	T
26	7	S	19	T		W	S	M	T	S	T	F	S	W	F
27	7	S	53	W		T	S	T	F	S	W	S	M	T	S
28	46	M	53	T		F	M	W	S	M	T	S	T	F	S
29	46	T	60	F		S	T	T	S	T	F	M	W	S	M
30	33	W				S	W	F	M	W	S	T	T	S	T
31	7	T				M		S		T	S		F		W

NUMBER	713	666	458
MAXIMUM	66	93	86
ARITH-MEAN	11	14	12

TOTAL SAMPLES = 1837
% OF POSSIBLE OBSERVATIONS = 20.9
ARITHMETIC MEAN = 12
ARITHMETIC STANDARD DEVIATION = 11

DOES NOT MEET SUMMARY CRITERIA
PRIMARY STANDARD OF 80UG/CU METER (25 C) WAS MET

Figure 5-42. Standards Report (14 of 22)
Sulfur Dioxide 1-Hour Maximum

09/15/93 EPA AEROMETRIC INFORMATION RETRIEVAL SYSTEM (AIRS) PAGE 1
AMP355RP AIR QUALITY SUBSYSTEM
STANDARDS REPORT - SULFUR DIOXIDE (42401)
24-HOUR BLOCK AVERAGE
STATE 37 NORTH CAROLINA

SITE-ID: 37-003-0003 POC: 1 AQCR (165): EASTERN MOUNTAIN LATITUDE: 35:54:14 N
COUNTY (003): ALEXANDER CO URBAN AREA (0000): NOT IN AN URBAN AREA LONGITUDE: 081:11:02 W
CITY (00000): NOT IN A CITY LAND USE (4): AGRICULTURAL UTM ZONE: 17
SITE ADDRESS: STATE ROAD 1177 LOCATION-SETTING (3): RURAL UTM-NORTHING: 3973100
SUPPORT AGENCY (001): NORTH CAROLINA DEPT NATURAL RESOURCES&CO UTM-EASTING: 00483400
SITE COMMENTS: NEIGHBORHOOD SCALE ELEVATION-MSL: 00367 M
MONITOR COMMENTS: UNITS (001): UG/CU MET
REPORTING ORGANIZATION (001): NORTH CAROLINA DEPT NATURAL RESOURCES PROBE HEIGHT: 0 M
MONITOR TYPE (3): OTHER MONITORING OBJECTIVE (2): POPULATION EXPOSURE
COLLECTION AND ANALYSIS METHOD (020): INSTRUMENTAL PULSED FLUORESCENT

		JAN 1990		FEB 1990		MAR 1990		APR 1990		MAY 1990		JUN 1990		JUL 1990		AUG 1990		SEP 1990		OCT 1990		NOV 1990		DEC 1990	
	1	8	M	9	T	11	T	5	S	3	T	6	F	5	S	4	W	3	S	4	M	7	T	4	S
	2	13	T	7	F	6	F	5	M	6	W	7	S	6	M	6	T	4	S	7	T	5	F	8	S
	3	10	W	3	S	6	S	5	T	9	T	7	S	11	T	9	F	10	M	11	W	6	S	7	M
	4	6	T	7	S	10	S	5	W	5	F	7	M	4	W	5	S	8	T	5	T	6	S	6	T
D	5	3	F		M	9	M	6	T	4	S	5	T	7	T	4	S	5	W	4	F	7	M	6	W
	6	3	S		T	7	T	7	F	5	S	6	W	7	F	5	M	7	T	5	S	7	T	5	T
A	7	6	S		W	27	W	4	S	4	M	6	T	9	S	5	T	12	F	5	S	10	W	8	F
	8	3	M		T	6	T	5	S	5	T	7	F	8	S	7	W	17	S	4	M	13	T	7	S
Y	9	8	T	6	F	7	F	9	M	4	W	7	S	6	M	4	T	9	S	4	T	10	F	13	S
	10	8	W	5	S	6	S	6	T	3	T	6	S	5	T	5	F	4	M	4	W	9	S	9	M
	11	17	T	4	S	4	S	5	W	5	F	5	M	7	W	4	S	6	T	3	T	11	S	26	T
O	12	8	F	5	M	4	M	5	T	9	S	7	T	6	T	5	S	10	W	3	F	14	M	18	W
	13	9	S	7	T	5	T	7	F	3	S	6	W	10	F	5	M	5	T	3	S	19	T	10	T
F	14	8	S	7	W	5	W	5	S	6	M	3	T	8	S	4	T	5	F	4	S	21	W	30	F
	15	13	M	4	T	7	T	6	S	9	T	4	F	5	S	4	W	5	S	5	M	12	T	12	S
	16	15	T	6	F	5	F	5	M	9	W	7	S	4	M	4	T	7	S	8	T	8	F	7	S
M	17	10	W	5	S	7	S	5	T	4	T	4	S	6	T	4	F	5	M	12	W	9	S	17	M
	18	6	T	13	S	4	S	8	W	5	F	3	M	3	W	4	S	9	T	4	T	6	S	6	T
O	19	14	F	7	M	7	M	7	T	4	S	4	T	5	T	4	S	4	W	6	F	10	M	4	W
	20	7	S	7	T	10	T	6	F	4	S	8	W	4	F	6	M	4	T	7	S	10	T	22	T
N	21	6	S	6	W	8	W	7	S	3	M	3	T	5	S	7	T	7	F	6	S	14	W	7	F
	22	4	M	7	T	12	T	5	S	5	T	5	F	4	S	4	W	6	S	3	M	7	T	4	S
T	23	11	T	5	F	10	F	4	M	5	W	3	S	3	M	4	T	7	S	6	T	4	F	3	S
	24	6	W	5	S	17	S	5	T	5	T	3	S	3	T	9	F	5	M	4	W	4	S	9	M
H	25	3	T	5	S	6	S	5	W	3	F	4	M	7	W	6	S	4	T	14	T	6	S	10	T
	26	6	F	13	M	11	M	15	T	6	S	8	T	7	T	7	S	4	W	6	F	11	M	8	W
	27	14	S	7	T	13	T	4	F	6	S	4	W	5	F	5	M	8	T	9	S	7	T	18	T
	28	10	S	5	W	18	W	6	S	5	M	5	T	5	S	6	T	7	F	6	S	6	W	5	F
	29	8	M			4	T	6	S	5	T	7	F	4	S	6	W	8	S	5	M	5	T	3	S
	30	22	T			6	F	4	M	4	W	6	S	5	M	14	T	7	S	10	T	8	F	3	S
	31	11	W			6	S			5	T			4	T	18	F			3	W			7	M
NUMBER		31		24		31		30		31		30		31		31		30		31		30		31	
MAXIMUM		22		13		27		15		9		8		11		18		17		14		21		30	

TOTAL SAMPLES = 361 0 STARRED (*) ITEMS EXCEEDED THE PRIMARY STANDARD OF 365UG/CU METER (25 C)
% OF POSSIBLE OBSERVATIONS = 98.9

Figure 5-42. Standards Report (15 of 22)
Sulfur Dioxide 24-Hour Block Average

09/15/93 EPA AEROMETRIC INFORMATION RETRIEVAL SYSTEM (AIRS) PAGE 1
AMP355RP AIR QUALITY SUBSYSTEM
STANDARDS REPORT - SULFUR DIOXIDE (42401)
3-HOUR BLOCK AVERAGE - JAN/90
STATE 37 NORTH CAROLINA

SITE-ID: 37-003-0003 POC: 1
COUNTY (003): ALEXANDER CO
CITY (00000): NOT IN A CITY
SITE ADDRESS: STATE ROAD 1177
SUPPORT AGENCY (001): NORTH CAROLINA DEPT NATURAL RESOURCES&CO
SITE COMMENTS: NEIGHBORHOOD SCALE
MONITOR COMMENTS:
REPORTING ORGANIZATION (001): NORTH CAROLINA DEPT NATURAL RESOURCES
MONITOR TYPE (3): OTHER
COLLECTION AND ANALYSIS METHOD (020): INSTRUMENTAL PULSED FLUORESCENT
AQCR (165): EASTERN MOUNTAIN
URBAN AREA (0000): NOT IN AN URBAN AREA
LAND USE (4): AGRICULTURAL
LOCATION-SETTING (3): RURAL
MONITORING OBJECTIVE (2): POPULATION EXPOSURE
LATITUDE: 35:54:14 N
LONGITUDE: 081:11:02 W
UTM ZONE: 17
UTM-NORTHING: 3973100
UTM-EASTING: 00483400
ELEVATION-MSL: 00367 M
UNITS (001): UG/CU MET
PROBE HEIGHT: 0 M

DAY/HOUR	0200	0500	0800	1100	1400	1700	2000	2300	NO.	MAX
1 M		9	9	10	11	8	3	6	7	11
2 T		7	7	22	26	16	8	9	7	26
3 W		7	4	13	13	12	9	7	7	13
4 T		5	5	7	8	6	4	3	7	8
5 F		3	3			3	3	3	5	3
6 S		3	3	3	3	3	3	3	7	3
7 S		3	4	10	13	6	3	3	7	13
8 M		3	3	3	3	3	3	3	7	3
9 T		3	6	9	15	12	7	9	7	15
0 W		5	7	11	10	8	8	10	7	11
1 T		11	10	7	7	28	30	30	7	30
2 F		3	3			12	11	11	5	12
3 S		7	9	9	9	8	14	10	7	14
4 S		5	5	8	9	15	7	7	7	15
5 M		9	13	7	14	13	15	21	7	21
6 T		11	17	16	19	11	19	10	7	19
7 W		9	9	10	14	11	8	7	7	14
8 T		7	7			4	4	7	5	7
9 F		6	3	9		18	31	24	6	31
0 S		8	6	8	6	3	4	7	7	8
1 S		7	7	4	7	7	4	3	7	7
2 M		3	6	6	3	6	3	3	7	6
3 T		12	6	26	22	7	3	6	7	26
4 W		5	8	12	7	3	3	3	7	12
5 T		3	3	4		3	3	3	6	4
6 F		5	9	8	6	7	4	3	7	9
7 S		12	11	9	8	24	21	17	7	24
8 S		7	10	20	11	7	6	10	7	20
9 M		13	13	12	9	4	3	3	7	13
0 T		5	5	17	13	43	65	21	7	65
1 W		10	15	15	13	5	10	8	7	15
NUMBER		31	31	28	26	31	31	31		
MAXIMUM		13	17	26	26	43	65	30		

TOTAL SAMPLES = 209
% OF POSSIBLE OBSERVATIONS = 84.3
0 PLUSSES (+) ITEMS EXCEEDED THE SECONDARY STANDARD OF 1300UG/CU METER (25 C)

Figure 5-42. Standards Report (16 of 22)
Sulfur Dioxide 3-Hour Block Average

09/29/93 EPA AEROMETRIC INFORMATION RETRIEVAL SYSTEM (AIRS) PAGE 13
AMP355RP AIR QUALITY SUBSYSTEM
STANDARDS REPORT - SULFUR DIOXIDE (42401)
MAXIMUM OF 3-HOUR BLOCK AVERAGE
STATE 37 NORTH CAROLINA

SITE-ID: 37-003-0003 POC: 1 AQCR (165): EASTERN MOUNTAIN LATITUDE: 35:54:14 N
COUNTY (003): ALEXANDER CO URBAN AREA (0000): NOT IN AN URBAN AREA LONGITUDE: 081:11:02 W
CITY (00000): NOT IN A CITY LAND USE (4): AGRICULTURAL UTM ZONE: 17
SITE ADDRESS: STATE ROAD 1177 LOCATION-SETTING (3): RURAL UTM-NORTHING: 3973100
SUPPORT AGENCY (001): NORTH CAROLINA DEPT NATURAL RESOURCES&CO UTM-EASTING: 00483400
SITE COMMENTS: NEIGHBORHOOD SCALE ELEVATION-MSL: 00367 M
MONITOR COMMENTS: UNITS (001): UG/CU MET
REPORTING ORGANIZATION (001): NORTH CAROLINA DEPT NATURAL RESOURCES PROBE HEIGHT: 0 M
MONITOR TYPE (3): OTHER MONITORING OBJECTIVE (2): POPULATION EXPOSURE
COLLECTION AND ANALYSIS METHOD (020): INSTRUMENTAL PULSED FLUORESCENT

		JAN 1990		FEB 1990		MAR 1990		APR 1990		MAY 1990		JUN 1990		JUL 1990		AUG 1990		SEP 1990		OCT 1990		NOV 1990		DEC 1990	
	1	11	M	13	T	27	T	7	S	6	T	7	F	7	S	8	W	6	S	7	M	9	T	10	S
	2	26	T	12	F	7	F	7	M	20	W	7	S	9	M	14	T	8	S	16	T	9	F	19	S
	3	13	W	7	S	13	S	8	T	14	T	7	S	28	T	22	F	20	M	28	W	7	S	18	M
	4	8	T	15	S	26	S	7	W	8	F	7	M	5	W	11	S	15	T	7	T	7	S	9	T
D	5	3	F		M	18	M	11	T	7	S	7	T	9	T	7	S	9	W	5	F	10	M	10	W
	6	3	S		T	7	T	10	F	7	S	7	W	8	F	7	M	15	T	8	S	7	T	12	T
A	7	13	S		W	44	W	8	S	7	M	7	T	13	S	7	T	26	F	7	S	15	W	17	F
	8	3	M	7	T	10	T	10	S	13	T	7	F	11	S	15	W	36	S	6	M	20	T	16	S
Y	9	15	T	9	F	13	F	20	M	7	W	7	S	8	M	8	T	16	S	8	T	21	F	22	S
	10	11	W	7	S	7	S	7	T	3	T	7	S	10	T	7	F	7	M	5	W	20	S	17	M
	11	30	T	9	S	7	S	7	W	11	F	7	M	14	W	6	S	13	T	4	T	16	S	40	T
O	12	12	F	9	M	7	M	6	T	19	S	14	T	8	T	8	S	19	W	6	F	22	M	29	W
	13	14	S	10	T	9	T	9	F	4	S	9	W	38	F	7	M	8	T	7	S	31	T	15	T
F	14	15	S	13	W	7	W	7	S	10	M	5	T	23	S	6	T	13	F	8	S	42	W	55	F
	15	21	M	10	T	7	T	7	S	16	T	7	F	7	S	6	W	10	S	12	M	18	T	18	S
	16	19	T	7	F	7	F	9	M	12	W	16	S	7	M	8	T	13	S	10	T	13	F	11	S
M	17	14	W	7	S	7	S	7	T	9	T	13	S	19	T	11	F	7	M	34	W	11	S	32	M
	18	7	T	23	S	7	S	15	W	9	F	3	M	7	W	7	S	16	T	5	T	8	S	13	T
O	19	31	F	7	M	14	M	16	T	8	S	9	T	7	T	6	S	6	W	8	F	12	M	7	W
	20	8	S	9	T	18	T	7	F	6	S	18	W	7	F	9	M	5	T	13	S	24	T	39	T
N	21	7	S	7	W	20	W	7	S	4	M	4	T	7	S	15	T	17	F	11	S	22	W	7	F
	22	6	M	7	T	24	T	8	S	6	T	11	F	7	S	6	W	7	S	4	M	13	T	4	S
T	23	26	T	7	F	17	F	7	M	7	W	3	S	6	M	4	T	7	S	14	T	7	F	3	S
	24	12	W	7	S	25	S	7	T	7	T	3	S	3	T	17	F	8	M	7	W	5	S	13	M
H	25	4	T	7	S	9	S	7	W	5	F	9	M	21	W	11	S	8	T	20	T	10	S	24	T
	26	9	F	24	M	21	M	41	T	6	S	24	T	16	T	7	S	4	W	12	F	26	M	10	W
	27	24	S	11	T	17	T	5	F	7	S	7	W	9	F	7	M	17	T	27	S	9	T	33	T
	28	20	S	7	W	37	W	15	S	7	M	8	T	14	S	7	T	16	F	12	S	7	W	7	F
	29	13	M			7	T	7	S	7	T	12	F	7	S	11	W	14	S	8	M	7	T	3	S
	30	65	T			7	F	7	M	8	W	11	S	8	M	39	T	13	S	23	T	26	F	3	S
	31	15	W			7	S			6	T			7	T	28	F			5	W			8	M
NUMBER		209		163		210		206		210		202		206		207		201		211		201		210	
MAXIMUM		65		24		44		41		20		24		38		39		36		34		42		55	

TOTAL SAMPLES = 2436 0 PLUSSED (+) ITEMS EXCEEDED THE SECONDARY STANDARD OF 1300 UG/CU METER (25 C)
% OF POSSIBLE OBSERVATIONS = 83.4

Figure 5-42. Standards Report (17 of 22)
Sulfur Dioxide Maximum of 3-Hour Block Average

09/15/93 EPA AEROMETRIC INFORMATION RETRIEVAL SYSTEM (AIRS) PAGE 1
AMP355RP AIR QUALITY SUBSYSTEM
STANDARDS REPORT - PM10 TOTAL 0-10UM (81102)
DAILY VALUES
STATE 37 NORTH CAROLINA

SITE-ID: 37-183-0003 POC: 1 AQCR (166): EASTERN PIEDMONT LATITUDE: 35:50:27 N
COUNTY (183): WAKE CO URBAN AREA (6639): RALEIGH, NC LONGITUDE: 078:38:38 W
CITY (55000): RALEIGH LAND USE (2): COMMERCIAL UTM ZONE: 17
SITE ADDRESS: FIRE STATION #9 SIX FORKS RD NORTH HIL LOCATION-SETTING (2): SUBURBAN UTM-NORTHING: 3968658
SUPPORT AGENCY (001): NORTH CAROLINA DEPT NATURAL RESOURCES&CO UTM-EASTING: 00712801
SITE COMMENTS: FILTERS SENT TO EPA ON 12 DAY SCHEDULE ELEVATION-MSL: 0C125 M
MONITOR COMMENTS: 52 UNITS (001): UG/CU MET
REPORTING ORGANIZATION (001): NORTH CAROLINA DEPT NATURAL RESOURCES PROBE HEIGHT: 7 M
MONITOR TYPE (1): NAMS MONITORING OBJECTIVE (1): MAXIMUM CONCENTRATION
COLLECTION AND ANALYSIS METHOD (063): HI-VOL-SA/GMW-1200 GRAVIMETRIC

		JAN 1990	FEB 1990	MAR 1990	APR 1990	MAY 1990	JUN 1990	JUL 1990	AUG 1990	SEP 1990	OCT 1990	NOV 1990	DEC 1990
	1	M	T	T	S	T	F	S	W	S	M	39 T	26 S
	2	T	F	F	M	W	S	M	T	42 S	36 T	F	S
	3	W	S	S	T	T	S	T	47 F	M	W	S	M
	4	T	19 S	S	W	F	27 M	32 W	S	T	T	S	T
D	5	31 F	M	M	31 T	23 S	T	T	S	W	F	M	W
	6	S	T	26 T	F	S	W	F	M	T	S	T	T
A	7	S	W	W	S	M	T	S	T	F	S	25 W	37 F
	8	M	T	T	S	T	F	S	W	31 S	16 M	T	S
Y	9	T	F	F	M	W	S	M	19 T	S	T	F	S
	10	W	11 S	S	T	T	31 S	48 T	F	M	W	S	M
	11	21 T	S	S	18 W	17 F	M	W	S	T	T	S	T
O	12	F	M	29 M	T	S	T	T	S	W	F	M	W
	13	S	T	T	F	S	W	F	M	T	S	16 T	29 T
F	14	S	W	W	S	M	T	S	T	31 F	23 S	W	F
	15	M	T	T	S	T	F	S	47 W	S	M	T	S
	16	T	16 F	F	M	W	34 S	32 M	T	S	T	F	S
M	17	45 W	S	S	32 T	25 T	S	T	F	M	W	S	M
	18	T	S	31 S	W	F	M	W	S	T	T	S	T
O	19	F	M	M	T	S	T	T	S	W	F	25 M	8 W
	20	S	T	T	F	S	W	F	M	45 T	22 S	T	T
N	21	S	W	W	S	M	T	S	38 T	F	S	W	F
	22	M	14 T	T	S	T	40 F	24 S	W	S	M	T	S
T	23	24 T	F	F	34 M	19 W	S	M	T	S	T	F	S
	24	W	S	26 S	T	T	S	T	F	M	W	S	M
H	25	T	S	S	W	F	M	W	S	T	T	18 S	28 T
	26	F	M	M	T	S	T	T	S	35 W	15 F	M	W
	27	S	T	T	F	S	W	F	46 M	T	S	T	T
	28	S	35 W	W	S	M	39 T	16 S	T	F	S	W	F
	29	19 M		T	23 S	12 T	F	S	W	S	M	T	S
	30	T	16	F	M	W	S	M	T	S	T	F	S
	31	W		S		T		T	F		W	10	M
NUMBER		5	5	5	5	5	5	5	5	5	5	5	6
MAXIMUM		45	35	31	34	25	40	48	47	45	36	39	37
ARITH-MEAN		28	19	26	28	19	34	30	39	37	22	25	23
SAMPLE FREQS(QTRLY MIN)				(6)			(6)			(6)			(6)
QTRLY ARITH MEAN				24.2			27.0			35.5			23.3
QTRLY EXP NUM EXCEED				0.00			0.00			0.00			0.00

TOTAL SAMPLES = 61 0 STARRED (*) ITEMS EXCEEDED THE PRIMARY STANDARD OF 150UG/CU METER (25 C)
ARITHMETIC MEAN = 27.5 MEETS SUMMARY CRITERIA EXPECTED NUMBER OF EXCEEDANCES 0.0
ARITHMETIC STANDARD DEVIATION = 10 PRIMARY STANDARD OF 50UG/CU METER (25 C) WAS MET

Figure 5-42. Standards Report (18 of 22)
PM-10 Total 0-10 um Daily Values

09/15/93 EPA AEROMETRIC INFORMATION RETRIEVAL SYSTEM (AIRS) PAGE 1
AMP355RP AIR QUALITY SUBSYSTEM
STANDARDS REPORT - PM10 TOTAL 0-10UM (81102)
1-HOUR VALUES - DEC/90
STATE 48 TEXAS

SITE-ID: 48-141-0044 POC: 1 AQCR (153): EL PASO-LAS CRUCES-ALAMOGORDO LATITUDE: 31:46:05 N
COUNTY (141): EL PASO CO URBAN AREA (2320): EL PASO, TX LONGITUDE: 106:27:15 W
CITY (24000): EL PASO LAND USE (2): COMMERCIAL UTM ZONE: 13
SITE ADDRESS: CHAMIZAL NATIONAL MONUMENT LOCATION-SETTING (1): URBAN AND CENTER CIT UTM-NORTHING: 3515460
SUPPORT AGENCY (003): EL PASO CITY-COUNTY HEALTH DEPARTMENT UTM-EASTING: 00362292
SITE COMMENTS: CHAMIZAL NATIONAL MONUMENT ELEVATION-MSL: 01128 M
MONITOR COMMENTS: UNITS (001): UG/CU MET
REPORTING ORGANIZATION (003): EL PASO CITY-COUNTY HEALTH DEPARTMENT PROBE HEIGHT: 0 M
MONITOR TYPE (3): OTHER MONITORING OBJECTIVE ( ): *** NOT FOUND ***
COLLECTION AND ANALYSIS METHOD (081): INSTRUMENTAL-WEDDING-AUTOMATIC BETA-RAY-ATTENUATION

DAY/HOUR	0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	#	MEAN
1 S	241	167	121	49	74	45	69	61	34	28	73	87	104	126	121	61	44	46	88	134	131	79	78	76	24	89
2 S	63	150	182	147	81	60	29	17	11	13	41	71	119	44	34	11	10	10	30	25	19	38	31	22	24	52
3 M	25	10	10	10	13	10	17		10	10	14	10	18	10	35	19	10	14	43	22	10	10	13	10	23	15
4 T	18	10	10	10	10	10	44	31	10	20	11	10	10	14	30	10	12	14	43	21	17	10	36	18	24	18
5 W	53	10	12	10	14	10	24			11	30	22	44	53	110	58	28	21	34	22	17	10	10	10	22	28
6 T	10	10	11	10	11	13	18	34	40	38	21	10	19	26	20	12	18	11	23	10	10	10	10	23	24	17
7 F	22	24	46	35	25	24			84	32	28	43	47	30	10	23	40	16	128	223	232	100	87	70	22	62
8 S	31	18	38	79	46	14	16	28	72	51	23	78	36	33	75	145	108	92	281	166	92	114	111	53	24	75
9 S	47	26	43	38	50	16	86	79	73	62	90	86	69	39	39	27	27	48	137	404	380	151	74	47	24	89
0 M	87	79	28	44	50	10	26	87	122	151	114	56	67	55	38	10	23	25	64	82	207	210	165	493	24	96
1 T	116	52	63	50	69	30	29	10	14	18	10	16	26	22			17	46	28	14	20	42	78	11	22	36
2 W	10	10	16	10	10	10	12	10	10			10	30	47	24	20	30	10	83	102	63	11	16	10	22	25
3 T	84	11	27	10	12	22	67			10	24	39	17	38	65	11	24	19	58	71	59	29	32	13	22	34
4 F	12	10	11	10	10	10	10	10	10	10	11	10	13	10	23	11	10	10	17	20	10	10	39	55	24	15
5 S	34	48	54	34	24	34	51	62	61	45	11	46	96	66	53	21	26	19	24	11	10	10	11	10	24	36
6 S	10	10	10	10	10	12	10	10	10	10	14	10	10	10	10	10	10	10	16	10	10	10	10	10	24	11
7 M	10	10	10	10	10	10	67	12	10	10		10	18	11	14	16	19	10	17	10	10	10	10	10	23	14
8 T	10	10	10	10	10	10	25	11	10	10	10	10	10	10	10	10	10	11	27	10	10	10	12	10	24	12
9 W	10	10	12	10	10	10	10	43	80	106	68	14	22	10	10	22	30	16	80	21	10	10	10	10	24	26
0 T	29	10	10	10	10	10	10	13	11	29	33	29	18	18	37	35	59	70	84	27	16	10	18	10	24	25
1 F	10	11	12	10	10	13	13	10	14	10															10	
2 S										14	27	78	95	45	87	106	41	11	10	10	10	10	10	11	10	15
3 S	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	12	10	10	10	10	10	24	10
4 M	10	10	10	10	10	10	10	10	10	12	14	10	10	13	10	16	10	10	14	10	23	24	39	11	24	13
5 T	10	10	10	10	10	10	10	10	10	10	14	18	14	10	10	12	10	10	30	197	251	138	46	57	24	38
6 W	50	34	26	10	10	10	22	38	18	15	34	13	36	16	27	89	81	56	117	77	155	127	138	123	24	55
7 T	83	42	41	24	26	21	15	10	18	24	21	24	20	37	43	39	53	35	48	26	82	15	31	41	24	34
8 F	40	21	25	16	10	10	24	14	17	16	23	44	74	72	79	50	39	30	43	50	62	46	17	10	24	35
9 S	10	10	10	10	10	10	10	10	10	10	18	10	10	10	10	10	10	10	25	11	24	11	10	10	24	12
0 S	10	10	10	10	10	10	10	10	10	10	19	10	10	10	10	10	10	10	10	10	42	93	30	23	24	17
1 M	10	10	10	10	10	10	10	10	10	10	10	17	22	28	11	20	14	10	26	83	132	24	30	11	24	22
NO.	30	30	30	30	30	30	29	26	28	30	28	30	30	30	29	29	30	30	30	30	30	30	30	30		
MAX	241	167	182	147	81	60	86	87	122	151	114	87	119	126	121	145	108	92	281	404	380	210	165	493		
MEAN	39	28	30	24	22	16	26	25	29	27	29	30	36	31	36	31	28	24	55	63	71	46	40	43		

TOTAL SAMPLES = 709
% OF POSSIBLE OBSERVATIONS = 95.3
ARITHMETIC MEAN = 35 MEETS SUMMARY CRITERIA
ARITHMETIC STANDARD DEVIATION = 46 PRIMARY STANDARD OF 50UG/CU METER (25 C) WAS MET

Figure 5-42. Standards Report (19 of 22)
PM-10 Total 0-10 um 1-Hour Values

09/15/93 EPA AEROMETRIC INFORMATION RETRIEVAL SYSTEM (AIRS) PAGE 2
AMP355RP AIR QUALITY SUBSYSTEM
STANDARDS REPORT - PM10 TOTAL 0-10UM (81102)
1-HOUR MAXIMUM
STATE 48 TEXAS

SITE-ID: 48-141-0044 POC: 1 AQCR (153): EL PASO-LAS CRUCES-ALAMOGORDO LATITUDE: 31:46:05 N
COUNTY (141): EL PASO CO URBAN AREA (2320): EL PASO, TX LONGITUDE: 106:27:15 W
CITY (24000): EL PASO LAND USE (2): COMMERCIAL UTM ZONE: 13
SITE ADDRESS: CHAMIZAL NATIONAL MONUMENT LOCATION-SETTING (1): URBAN AND CENTER CIT UTM-NORTHING: 3515460
SUPPORT AGENCY (003): EL PASO CITY-COUNTY HEALTH DEPARTMENT UTM-EASTING: 00362292
SITE COMMENTS: CHAMIZAL NATIONAL MONUMENT ELEVATION-MSL: 01128 M
MONITOR COMMENTS: UNITS (001): UG/CU MET
REPORTING ORGANIZATION (003): EL PASO CITY-COUNTY HEALTH DEPARTMENT PROBE HEIGHT: 0 M
MONITOR TYPE (3): OTHER MONITORING OBJECTIVE ( ): *** NOT FOUND ***
COLLECTION AND ANALYSIS METHOD (081): INSTRUMENTAL-WEDDING-AUTOMATIC BETA-RAY-ATTENUATION

		JAN 1990	FEB 1990	MAR 1990	APR 1990	MAY 1990	JUN 1990	JUL 1990	AUG 1990	SEP 1990	OCT 1990	NOV 1990	DEC 1990	
	1	M	T	T	S	T	F	S	W	S	M	T	241	S
	2	T	F	F	M	W	S	M	T	S	T	F	182	S
	3	W	S	S	T	T	S	T	F	M	W	S	43	M
	4	T	S	S	W	F	M	W	S	T	T	S	44	T
D	5	F	M	M	T	S	T	T	S	W	F	M	110	W
	6	S	T	T	F	S	W	F	M	T	S	T	40	T
A	7	S	W	W	S	M	T	S	T	F	S	W	232	F
	8	M	T	T	S	T	F	S	W	S	M	T	281	S
Y	9	T	F	F	M	W	S	M	T	S	T	F	404	S
	10	W	S	S	T	T	S	T	F	M	W	S	493	M
	11	T	S	S	W	F	M	W	S	T	T	S	118	T
O	12	F	M	M	T	S	T	T	S	W	F	M	102	W
	13	S	T	T	F	S	W	F	M	T	S	T	84	T
F	14	S	W	W	S	M	T	S	T	F	S	W	55	F
	15	M	T	T	S	T	F	S	W	S	M	T	96	S
	16	T	F	F	M	W	S	M	T	S	T	F	16	S
M	17	W	S	S	T	T	S	T	F	M	W	S	67	M
	18	T	S	S	W	F	M	W	S	T	T	S	27	T
O	19	F	M	M	T	S	T	T	S	W	F	M	106	W
	20	S	T	T	F	S	W	F	M	T	S	T	84	T
N	21	S	W	W	S	M	T	S	T	F	S	W	14	F
	22	M	T	T	S	T	F	S	W	S	M	T	106	S
T	23	T	F	F	M	W	S	M	T	S	T	F	12	S
	24	W	S	S	T	T	S	T	F	M	W	S	39	M
H	25	T	S	S	W	F	M	W	S	T	T	S	251	T
	26	F	M	M	T	S	T	T	S	W	F	M	155	W
	27	S	T	T	F	S	W	F	M	T	S	T	83	T
	28	S	W	W	S	M	T	S	T	F	S	W	79	F
	29	M		T	S	T	F	S	W	S	M	T	25	S
	30	T		F	M	W	S	M	T	S	T	F	93	S
	31	W		S		T		T	F		W		132	M
NUMBER													709	
MAXIMUM													493	
ARITH-MEAN													35	

TOTAL SAMPLES = 709
% OF POSSIBLE OBSERVATIONS = 8.1
ARITHMETIC MEAN = 35 DOES NOT MEET SUMMARY CRITERIA
ARITHMETIC STANDARD DEVIATION = 46 PRIMARY STANDARD OF 50UG/CU METER (25 C) WAS MET

Figure 5-42. Standards Report (20 of 22)
PM-10 Total 0-10 um 1-Hour Maximum

09/15/93 EPA AEROMETRIC INFORMATION RETRIEVAL SYSTEM (AIRS) PAGE 1
AMP355RP AIR QUALITY SUBSYSTEM
STANDARDS REPORT - PM10 TOTAL 0-10UM (81102)
24-HOUR BLOCK AVERAGE
STATE 48 TEXAS

SITE-ID: 48-141-0044 POC: 1 AQCR (153): EL PASO-LAS CRUCES-ALAMOGORDO LATITUDE: 31:46:05 N
COUNTY (141): EL PASO CO URBAN AREA (2320): EL PASO, TX LONGITUDE: 106:27:15 W
CITY (24000): EL PASO LAND USE (2): COMMERCIAL UTM ZONE: 13
SITE ADDRESS: CHAMIZAL NATIONAL MONUMENT LOCATION-SETTING (1): URBAN AND CENTER CIT UTM-NORTHING: 3515460
SUPPORT AGENCY (003): EL PASO CITY-COUNTY HEALTH DEPARTMENT UTM-EASTING: 00362292
SITE COMMENTS: CHAMIZAL NATIONAL MONUMENT ELEVATION-MSL: 01128 M
MONITOR COMMENTS: UNITS (001): UG/CU MET
REPORTING ORGANIZATION (001): TEXAS AIR CONTROL BOARD PROBE HEIGHT: 0 M
MONITOR TYPE (3): OTHER MONITORING OBJECTIVE ( ): *** NOT FOUND ***
COLLECTION AND ANALYSIS METHOD (081): INSTRUMENTAL-WEDDING-AUTOMATED BETA-RAY-ATTENUATION

		JAN 1990	FEB 1990	MAR 1990	APR 1990	MAY 1990	JUN 1990	JUL 1990	AUG 1990	SEP 1990	OCT 1990	NOV 1990	DEC 1990	
	1	M	T	T	S	T	F	S	W	S	M	T	89	S
	2	T	F	F	M	W	S	M	T	S	T	F	52	S
	3	W	S	S	T	T	S	T	F	M	W	S	15	M
	4	T	S	S	W	F	M	W	S	T	T	S	18	T
D	5	F	M	M	T	S	T	T	S	W	F	M	28	W
	6	S	T	T	F	S	W	F	M	T	S	T	17	T
A	7	S	W	W	S	M	T	S	T	F	S	W	62	F
	8	M	T	T	S	T	F	S	W	S	M	T	75	S
Y	9	T	F	F	M	W	S	M	T	S	T	F	89	S
	10	W	S	S	T	T	S	T	F	M	W	S	96	M
	11	T	S	S	W	F	M	W	S	T	T	S	36	T
O	12	F	M	M	T	S	T	T	S	W	F	M	25	W
	13	S	T	T	F	S	W	F	M	T	S	T	34	T
F	14	S	W	W	S	M	T	S	T	F	S	W	15	F
	15	M	T	T	S	T	F	S	W	S	M	T	36	S
	16	T	F	F	M	W	S	M	T	S	T	F	11	S
M	17	W	S	S	T	T	S	T	F	M	W	S	14	M
	18	T	S	S	W	F	M	W	S	T	T	S	12	T
O	19	F	M	M	T	S	T	T	S	W	F	M	26	W
	20	S	T	T	F	S	W	F	M	T	S	T	25	T
N	21	S	W	W	S	M	T	S	T	F	S	W		F
	22	M	T	T	S	T	F	S	W	S	M	T		S
T	23	T	F	F	M	W	S	M	T	S	T	F	10	S
	24	W	S	S	T	T	S	T	F	M	W	S	13	M
H	25	T	S	S	W	F	M	W	S	T	T	S	38	T
	26	F	M	M	T	S	T	T	S	W	F	M	55	W
	27	S	T	T	F	S	W	F	M	T	S	T	34	T
	28	S	W	W	S	M	T	S	T	F	S	W	35	F
	29	M		T	S	T	F	S	W	S	M	T	12	S
	30	T		F	M	W	S	M	T	S	T	F	17	S
	31	W		S		T		T	F		W		22	M
NUMBER													29	
MAXIMUM													96	
QTRLY EXP NUM EXCEED				0.00			0.00			0.00			0.00	

TOTAL SAMPLES = 29 0 STARRED (*) ITEMS EXCEEDED THE PRIMARY STANDARD OF 150UG/CU METER (25 C)
% OF POSSIBLE OBSERVATIONS = 7.9 EXPECTED NUMBER OF EXCEEDANCES 0.0

Figure 5-42. Standards Report (21 of 22)
PM-10 Total 0-10 um 24-Hour Block Average

09/15/93 EPA AEROMETRIC INFORMATION RETRIEVAL SYSTEM (AIRS) PAGE 1
AMP355RP AIR QUALITY SUBSYSTEM
STANDARDS REPORT - TOTAL SUSPENDED PARTICULATE (11101)
DAILY VALUES
STATE 48 TEXAS

SITE-ID: 48-029-0034 POC: 1
COUNTY (029): BEXAR CO
CITY (65000): SAN ANTONIO
SITE ADDRESS: 900 BLK E DURANGO
SUPPORT AGENCY (001): TEXAS AIR CONTROL BOARD
SITE COMMENTS: TEXAS AIR CONTROL BOARD
MONITOR COMMENTS: 91
REPORTING ORGANIZATION (001): TEXAS AIR CONTROL BOARD
MONITOR TYPE (1): NAMS
COLLECTION AND ANALYSIS METHOD (091): HI-VOL GRAVIMETRIC

AQCR (217): METROPOLITAN SAN ANTONIO
URBAN AREA (7240): SAN ANTONIO, TX
LAND USE (3): INDUSTRIAL
LOCATION-SETTING (1): URBAN AND CENTER CIT
MONITORING OBJECTIVE (1): MAXIMUM CONCENTRATION

LATITUDE: 29:24:55 N
LONGITUDE: 098:28:52 W
UTM ZONE: 14
UTM-NORTHING: 3253931
UTM-EASTING: 00550338
ELEVATION-MSL: 00198 M
UNITS (001): UG/CU MET
PROBE HEIGHT: 15 M

	JAN 1988	FEB 1988	MAR 1988	APR 1988	MAY 1988	JUN 1988	JUL 1988	AUG 1988	SEP 1988	OCT 1988	NOV 1988	DEC 1988
1	F	M	T	F	S	W	F	M	T	S	T	T
2	S	T	W	S	M	42 T	S	T	F	S	W	F
3	S	53 W	T	57 S	T	F	S	W	S	M	T	S
4	37 M	T	40 F	M	W	S	M	T	S	T	F	S
D 5	T	F	S	T	T	S	T	F	M	W	S	M
6	W	S	S	W	F	M	W	S	T	T	S	T
A 7	T	S	M	T	S	T	T	S	W	F	M	W
8	F	M	T	F	S	52 W	F	M	T	S	T	T
Y 9	S	59 T	W	59 S	72 M	T	S	T	F	S	W	F
10	47 S	W	93 T	S	T	F	S	W	S	M	T	S
11	M	T	F	M	W	S	M	T	S	T	F	S
O 12	T	F	S	T	T	S	T	F	M	W	S	M
13	W	S	S	W	F	M	W	S	T	T	S	T
F 14	T	S	M	T	S	50 T	T	S	W	F	M	W
15	F	89 M	T	60 F	37 S	W	F	M	T	S	T	T
16	46 S	T	59 W	S	M	T	S	T	F	S	W	F
M 17	S	W	T	S	T	F	S	W	S	M	T	S
18	M	T	F	M	W	S	M	T	S	T	F	S
O 19	T	F	S	T	T	S	T	F	M	W	S	M
20	W	S	S	W	F	38 M	W	S	T	T	S	T
N 21	T	103 S	M	47 T	45 S	T	T	S	W	F	M	W
22	85 F	M	62 T	F	S	W	F	M	T	S	T	T
T 23	S	T	W	S	M	T	S	T	F	S	W	F
24	S	W	T	S	T	F	S	W	S	M	T	S
H 25	M	T	F	M	W	S	M	T	S	T	F	S
26	T	F	S	T	T	29 S	T	F	M	W	S	M
27	W	73 S	S	70 W	73 F	M	W	S	T	T	S	T
28	61 T	S	46 M	T	S	T	T	S	W	F	M	W
29	F	M	T	F	S	W	F	M	T	S	T	T
30	S		W	S	M	T	S	T	F	S	W	F
31	S		T		T		S	W		M		S
NUMBER	5	5	5	5	4	5						
MAXIMUM	85	103	93	70	73	52						
GEO-MEAN	53	73	57	58	54	41						

TOTAL SAMPLES = 29
GEOMETRIC MEAN OF 55
GEOMETRIC STANDARD DEVIATION = 1.36

0 STARRED (*) ITEMS EXCEEDED THE PRIMARY STANDARD OF 150 MICROGRAMS PER CUBIC METER
0 PLUSSED (+) ITEMS EXCEEDED THE SECONDARY STANDARD OF 150 MICROGRAMS PER CUBIC METER
DOES NOT MEET SUMMARY CRITERIA
PRIMARY STANDARD OF 75 MICROGRAMS PER CUBIC METER WAS MET
SECONDARY STANDARD OF 75 MICROGRAMS PER CUBIC METER WAS MET

Figure 5-42. Standards Report (22 of 22)
TSP Daily Values

5.13.2 Report Generation Options

The options available for the Standards Report have to do with the output medium (printed report or work file), the report content (include exceptional event data, use alternative standards, use alternative display units, print only summary pages, and print only monitors with violations), and generation of the Precision-Accuracy Report with the option of the P/A Monitor Summary Report, P/A RO Summary Report, or P/A Monitor Raw Data Report. The report options screen, shown in Figure 5-43, allows you to select the type(s) of output and content you want.

The default options are to generate a printed report and include exceptional event data. If you are using report criteria for the Standards Report that you saved previously, your saved specifications for report options are displayed instead of the default.

The work file format for this report is given in Volume AQ1.

Instructions

You must choose one of the following report options (you may choose both):

option 1	generate a printed report
option 2	generate a work file

You may choose any or all of the following retrieval and report options:

option 3	generate a Precision/Accuracy Report with the option of the P/A Monitor Summary Report, P/A RO Summary Report, or P/A Monitor Raw Data Report
option 4	include exceptional event data
option 5	use alternative standards and/or units
option 6	print summary pages only
option 7	print monitors with violations only

If you choose a work file, you must specify a dataset name for it; otherwise you may not specify a dataset name. The work file sample values will be in the reported units.

Read Section 3.6.1 if you are not familiar with how to use the report options screen. Section 3.6.2 describes the characteristics of valid dataset names.

If you specified option 5, an Alternative Standards and Units Screen (see Figure 5-44) is displayed. This screen allows you to specify a value to be used in lieu of the applicable ambient air quality standard for identifying exceedances in the report. You may enter a value for any of the pollutants and time intervals listed on the screen. If you do not enter a value, the normal ambient air quality standard is used. A valid value consists of one or more digits and an optional decimal point, and may have leading or trailing blanks. If an alternative standard is entered, it represents the magnitude of the standard in the default or existing units.

```
08/13/91                AIRS Air Quality Subsystem                AMP355A
                          Report Options

Report Name:  STANDARDS                          Criteria Name:

                      Enter X for desired Option(s)

          Choose at least one output

          X 1.  Generate a printed report
          _ 2.  Generate a workfile (Enter name below):
                KUFASWD . _______ . _______ . _______ . _______

          Choose desired Report Option(s)

          _ 3.  Generate a Precision-Accuracy Report
                _ Monitor Summary  _ RD Summary  _ Monitor Data
          X 4.  Include exceptional event data
          _ 5.  Use alternative standards and/or units
          _ 6.  Print only summary pages
          _ 7.  Print only monitors with violations

  PF3=end      PF4=main menu      PF5=terminate      PF9=save criteria
```

Figure 5-43. Report Options Screen for the Standards Report

```
mm/dd/yy                AIRS Air Quality Subsystem                AMP355A
                    Alternative Standards and Units

Report Name:  STANDARDS                          Criteria Name: <-name->

              Units                                        Standard
              -----      ------------------------------    --------
               999       CO     - 1-Hour                   999999.
                                - 8-Hour average           99999.9
               999       NO2    - Annual mean              9999.99
               999       O3     - 1-Hour daily maximum     999.999
               999       PB     - Quarterly mean           99.9999
               999       SO2    - Annual mean              9.99999
               999              - 24-Hour average          .999999
               999              - 3-Hour average           999999.
               999       PM10   - Annual mean              99999.9
               999              - 24-Hour average          9999.99
               999       TSP    - Annual geometric mean    999.999
               999              - 24-Hour average          99.9999

PF3=end  PF4=main menu  PF5=terminate  PF6=report options  PF9=save criteria
```

Figure 5-44. Alternative Standards and Units Screen for the Standards Report

The Alternative Standards and Units Screen also allows you to specify the output units desired for the raw data values. You may enter one value for each criteria pollutant. If you do not enter a value, the raw data values will be output in standard units for the pollutant. If alternative units are entered, they represent the units code to which data are to be converted and displayed on the report. The existing standard will be converted to the same units.

If both alternative units and an alternative standard are entered, they represent:

a. Units - the units code to which data are to be converted and displayed on the report.

b. Standard - the magnitude of the standard in standard units. This value will be converted to the alternative units and utilized for comparison and exceedance flagging.

Error Messages

The error messages listed below (in alphabetical order) are displayed at the top of the report options screen or alternative standards screen if you make a mistake in specifying report options or alternative standards and units.

ALTERNATIVE UNITS FOR <pollutant abbr> IS INVALID
The only valid entries on the Alternative Standards and Units Screen for alternative units are blanks and valid units codes.

DATASET NAME IS INVALID
The work file dataset name is not valid. Refer to Section 3.6.2 of this volume for a description of dataset naming conventions.

DATASET NAME NOT ALLOWED WITHOUT SPECIFYING OPTION 2
If a work file is not selected as an output, a dataset name must not be entered.

PLEASE CHOOSE OPTION 1 OR 2 FOR OUTPUT
Either a printed report (option 1) or a work file (option 2) must be selected as a report output.

PLEASE ENTER A VALID DATASET NAME
If a work file is selected, a dataset name must be specified.

PLEASE ENTER BLANK OR 'X'
Only blank and X are valid entries for specifying report options.

PLEASE ENTER A BLANK OR NUMBER GREATER THAN ZERO
The only valid entries on the Alternative Standards and Units Screen for alternative standards are blanks and numbers greater than zero. A numeric value may include a decimal point.

PLEASE USE A VALID PF-KEY
A PF key not defined for this screen was used.

5.13.3 Data Selection Options

You may select which monitors are included in the report using the select criteria screen. A sample screen is shown in Figure 5-45. The leftmost portion of the screen is shown at the top of the figure and the rightmost portion is shown at the bottom.

There are three groups of selection criteria. The first group consists of "geographic" criteria. Only certain combinations of these fields are allowed. You may use any one of the following combinations of geographic selection fields:

state (code or abbreviation)
state + county
state + county + site
state + reporting organization
state + city
state + AQCR
AQCR
urban area
MSA
CMSA
MSA-rep
CMSA-rep
status area

The second group of selection criteria consists of the following optional fields:

method
monitor type

The third group of selection criteria consists of the following required fields:

parameter (criteria pollutants only)
begin date (year and month)
end date (year and month)

In a given line on the select criteria screen, you must specify all the fields in the third group of selection criteria. In addition, you may use one of the geographic criteria in the first group and/or any of the criteria in the second group. Specify dates as year and month (YYMM format). Valid dates are January 1957 (5701) through any valid year and month.

In addition to the monitor type codes listed in Volume GC2 of the AIRS User's Guide, you may use the code "B" to select both NAMS and SLAMS monitors and code "P" to select PAMS monitors.

```
09/30/92                    AIRS Air Quality Subsystem                    AMP355B
                                 Select Criteria                          Page 1/2

Report Name:  STANDARDS                                   Criteria Name:

                                                BEGIN  END
                                                DATE   DATE  MON                REP  URBAN
ST  CNTY  SITE  PARA-METER  METH  INT           YYMM   YYMM  TYPE  CITY  AQCR   ORG  AREA
__  ___  ____  _________  ____  __            ____   ____  ____  ____  ____   ___  ____
__  ___  ____  _________  ____  __            ____   ____  ____  ____  ____   ___  ____
__  ___  ____  _________  ____  __            ____   ____  ____  ____  ____   ___  ____
__  ___  ____  _________  ____  __            ____   ____  ____  ____  ____   ___  ____
__  ___  ____  _________  ____  __            ____   ____  ____  ____  ____   ___  ____
__  ___  ____  _________  ____  __            ____   ____  ____  ____  ____   ___  ____
__  ___  ____  _________  ____  __            ____   ____  ____  ____  ____   ___  ____
__  ___  ____  _________  ____  __            ____   ____  ____  ____  ____   ___  ____
__  ___  ____  _________  ____  __            ____   ____  ____  ____  ____   ___  ____
__  ___  ____  _________  ____  __            ____   ____  ____  ____  ____   ___  ____
__  ___  ____  _________  ____  __            ____   ____  ____  ____  ____   ___  ____

PF1=help   PF2=duplicate   PF3=end  PF4=main menu   PF5=terminate   PF6=rpt options
PF7=back   PF8=more        PF9=save criteria       PF10=left       PF11=right
```

```
09/30/92                    AIRS Air Quality Subsystem                    AMP355B
                                 Select Criteria                          Page 2/2

Report Name:  STANDARDS                                   Criteria Name:

                MSA   CMSA   STATUS
MSA    CMSA     REP   REP    AREA
____   ____     ____  ____   ____
____   ____     ____  ____   ____
____   ____     ____  ____   ____
____   ____     ____  ____   ____
____   ____     ____  ____   ____
____   ____     ____  ____   ____
____   ____     ____  ____   ____
____   ____     ____  ____   ____
____   ____     ____  ____   ____
____   ____     ____  ____   ____
____   ____     ____  ____   ____

PF1=help   PF2=duplicate   PF3=end  PF4=main menu   PF5=terminate   PF6=rpt options
PF7=back   PF8=more        PF9=save criteria       PF10=left       PF11=right
```

Figure 5-45. Select Criteria Screen for the Standards Report

Only criteria pollutants may be specified, and only certain interval codes are allowed for each pollutant. To obtain all interval codes associated with the specified criteria pollutant, leave the interval code blank. The intervals allowed for each pollutant are as follows:

Pollutant	Parameter	Allowed Intervals
Pb	12128	7, C, or blank
CO	42101	1, Z, or blank
SO_2	42401	1, 7, X, Y, or blank
NO_2	42602	1, 7, or blank
O_3	44201	1 or blank
PM-10	81102	1, 7, X, or blank
TSP	11101	7 or blank

Online Help is available for all of the selection criteria fields except BEGIN-DATE and END-DATE. The Help facility allows you to browse through tables of values, with descriptions, for the codes you need to enter, and then to select the value that you wish to use. The Help facility is described in detail in Section 3.6.4.

Warning

It is possible that in certain unusual circumstances, data that should appear in the report and work file will erroneously be omitted from them. This is due to flaws in the data extraction and sorting procedures, which cause some records to be deleted from the work file as it is sorted because they appear to be duplicates, when in fact they are not. (Since the printed report is generated from the sorted work file, the data erroneously deleted from the work file do not appear in the report either.) This situation arises only if all of these conditions exist: (1) at least two lines of criteria entered on the select criteria screen select data for the same monitor, year, and month; (2) the pertinent lines of selection criteria have different begin or end dates; (3) the monitor changes from one sampling method to another and then back to the original method within the month; and (4) the monitor uses a sampling interval of 24 hours or greater. You can avoid this problem by using the same begin and end dates in each line of selection criteria that could select the same monitor.

Instructions

Enter selection criteria into the available fields on the select criteria screen, or alter the previously saved criteria displayed on the screen if you wish. You must specify criteria in at least one line on the screen. Press the ENTER key when you have finished entering or altering the criteria.

Read Section 3.6.3 if you are not familiar with how to use the select criteria screen. Refer to Volume AQ3 of the AIRS User's Guide for lists of valid codes to use for selection criteria.

Press PF1=help for general information about the select criteria process. For Field-specific Help, enter a "?" in the first position of any field (except BEGIN-DATE or END-DATE).

Error Messages

The error messages listed below (in alphabetical order) are displayed at the top of the select criteria screen if you make a mistake in specifying select criteria. See Volume GC4 of the AIRS User's Guide for explanations of the error messages that you may encounter while using Field-specific Help.

A PARAMETER IS REQUIRED FOR STATUS-AREA CODE
If status area is entered, parameter must be entered.

A STATE IS REQUIRED FOR CITY
If city is entered, state must be entered.

A STATE IS REQUIRED FOR COUNTY
If county is entered, state must be entered.

A STATE IS REQUIRED FOR REPORT-ORG
If reporting organization is entered, state must be entered.

BEGIN-DATE IS < 5701 OR > CURRENT DATE
The begin date must be in the range January 1957 (5701) through current year and month.

BEGIN-END YEAR RANGE INCLUDES ARCHIVED YEAR(S)
The requested years must not include any years for which data has been archived (removed from the raw data files).

BEGIN-YEAR IS ARCHIVED
Begin year must not be a year for which data has been archived (removed from the raw data files).

END-YEAR IS ARCHIVED
End year must not be a year for which data has been archived (removed from the raw data files).

ENTER SELECTION CRITERIA OR USE A PF-KEY TO ESCAPE
ENTER was pressed without any selection criteria specified. Either specify criteria and press ENTER or use one of the valid PF keys to transfer to another screen or terminate the AIRS session.

PARAMETER CODE IS REQUIRED FOR THIS REPORT
Parameter must be entered as a select criteria.

PF2 INVALID - MAXIMUM NUMBER OF SELECTION CRITERIA HAS BEEN SPECIFIED
Do not press PF2 when the last select criteria screen is full.

PF2 INVALID - THERE ARE NO SELECTION CRITERIA TO DUPLICATE
Do not press PF2 without entering at least one selection criterion.

PF7 INVALID - THIS IS THE FIRST SELECT CRITERIA SCREEN
Do not press PF7 from the first select criteria screen; it is used to page backward.

PF8 INVALID - THIS IS THE FINAL SELECT CRITERIA SCREEN
Do not press PF8 from the last select criteria screen; it is used to page forward.

PF10 INVALID - THIS IS THE LEFT-MOST SELECT CRITERIA SCREEN
Do not press PF10 while the leftmost select criteria screen is displayed.

PF11 INVALID - THIS IS THE RIGHT-MOST SELECT CRITERIA SCREEN
Do not press PF11 while the rightmost select criteria screen is displayed.

PLEASE DO NOT ENTER BOTH STATE AND CMSA CODE
Do not enter both state and CMSA code.

PLEASE DO NOT ENTER BOTH STATE AND MSA CODE
Do not enter both state and MSA code.

PLEASE DO NOT ENTER BOTH STATE AND CMSA-REP CODE
Do not enter both state and CMSA-rep code.

PLEASE DO NOT ENTER BOTH STATE AND MSA-REP CODE
Do not enter both state and MSA-rep code.

PLEASE DO NOT ENTER BOTH STATE AND STATUS-AREA CODE
Do not enter both state and urban area.

PLEASE DO NOT ENTER BOTH STATE AND URBAN-AREA CODE
Do not enter both state and urban area as select criteria.

PLEASE ENTER A NUMERIC BEGIN-DATE
The begin date entered must be numeric.

PLEASE ENTER A NUMERIC END-DATE
The end date entered must be numeric.

PLEASE ENTER A VALID AQCR CODE
The AQCR code is not valid.

PLEASE ENTER A VALID CITY CODE
The combination of city and state codes is not valid.

PLEASE ENTER A VALID CMSA CODE
The CMSA code entered must be in the AIRS GEO-COMMON File.

PLEASE ENTER A VALID CMSA-REP CODE
The CMSA-rep code entered must be in the AIRS GEO-COMMON File.

PLEASE ENTER A VALID COUNTY CODE
The combination of county and state codes is not valid.

PLEASE ENTER A VALID INTERVAL CODE (1, 7, C, X, Y OR Z)
The interval entered must be 1, 7, C, X, Y, or Z.

PLEASE ENTER A VALID INTERVAL FOR THE PARAMETER CODE
The combination of interval and parameter codes is not valid.

PLEASE ENTER A VALID METHOD CODE
The combination of method and parameter codes is not valid.

PLEASE ENTER A VALID MONITOR-TYPE CODE
The monitor type code is not valid. Use a code listed in Volume GC2, or use "B" to select both NAMS and SLAMS monitor types or "P" to select PAMS monitor types.

PLEASE ENTER A VALID MSA CODE
The MSA code entered must be in the AIRS GEO-COMMON File.

PLEASE ENTER A VALID MSA-REP CODE
The MSA-rep code entered must be in the AIRS GEO-COMMON File.

PLEASE ENTER A VALID PARAMETER CODE (CRITERIA POLLUTANTS ONLY)
The parameter code must specify one of the criteria pollutants: 12128 (Pb), 42101 (CO), 42401 (SO_2), 42602 (NO_2), 44201 (O_3), 81102 (PM-10), or 11101 (TSP).

PLEASE ENTER A VALID REPORT-ORG
The combination of reporting organization and state is not valid.

PLEASE ENTER A VALID SITE CODE
The combination of state, county, and site does not match any existing site-ID in the Site file.

PLEASE ENTER A VALID STATE ABBREVIATION
The state abbreviation is not valid.

PLEASE ENTER A VALID STATE CODE
The state code is not valid.

PLEASE ENTER A VALID STATUS-AREA CODE FOR PARAMETER
The combination of status area and parameter entered must be in the AIRS GEO-COMMON File.

PLEASE ENTER A VALID URBAN-AREA CODE
The urban area code is not valid.

PLEASE ENTER A VALID 4-DIGIT BEGIN-DATE
The begin date entered must be a valid date in YYMM format.

PLEASE ENTER A VALID 4-DIGIT END-DATE
The end date entered must be a valid date in YYMM format.

PLEASE ENTER AN END-DATE THAT IS GREATER THAN OR EQUAL TO THE BEGIN-DATE
The end date must be greater than or equal to the begin date.

PLEASE ENTER ONLY ONE: AQCR, URBAN-AREA, CITY, REPORT-ORG, COUNTY, MSA, CMSA, MSA-REP, CMSA-REP, OR STATUS-AREA
Only the combinations of geographic selection criteria listed at the beginning of this section are valid.

PLEASE FILL ALL LINES BEFORE GOING ON TO THE NEXT SCREEN
PF8 is valid only when the current screen is full or when there are more criteria on a subsequent screen.

PLEASE USE A VALID PF-KEY
A PF key not defined for this screen was used.

REPORT BEGINNING DATE IS REQUIRED FOR THIS REPORT
Report begin date must be entered.

REPORT ENDING DATE IS REQUIRED FOR THIS REPORT
Report end date must be entered.

STATUS-AREA CODE NOT ALLOWED WITH THIS PARAMETER
A status area was entered for a parameter that does not allow entry of a status area.

THE COUNTY CODE IS REQUIRED WITH THE SITE CODE
If site is entered, county must be entered.

5.13.4 Data Sorting Options

The Standards Report has a fixed sort order that cannot be changed. Therefore, there is no sort criteria screen for this report.

The sort order is:

monitor-id (state, county, site, parameter, POC)
interval
date (year,month)
method
monitor type
reporting organization

Instructions

None

5.14 Raw Data Conversion Report (AMP370)

5.14.1 Description

The Raw Data Conversion Report Program selects raw data values from the AIRS database, converts them to AIRS input transaction format, and creates a disk file containing the generated AIRS transactions. The generated file may include transaction types 1, 2, and 3 for hourly, daily, and composite data; and transaction type Z for non-default minimum detectable values. Data is extracted from the raw data files based on your selection criteria and report options. Optionally, you may choose to include exceptional event data and/or null data (codes that explain why actual data values were not reported) in the extracted data. The Raw Data Conversion Report Program always generates a card-image file of AIRS transactions and a printed report. You may also choose to have it generate a work file and a Precision-Accuracy Report.

The Raw Data Conversion Report lists the number of values extracted from the database and written as AIRS transactions for each selected monitor, sampling method and interval, and year. It also lists the total number of values extracted. A processing summary report lists the number of transactions of each type written to the card-image file.

Figure 5-46 shows a sample Raw Data Conversion Report.

DATE: 09/23/93
AMP370

EPA AEROMETRIC INFORMATION RETRIEVAL SYSTEM (AIRS)
AIR QUALITY SUBSYSTEM
RAW DATA CONVERSION SUMMARY REPORT

PAGE 0001

ST	COUNTY	SITE	POLL	POC	METH	INT	YEAR	RPT ORG	VALUES
25	025	1003	11101	1	091	7	90	001	56
25	027	0013	11101	1	091	7	90	001	20
25	027	0013	81102	1	064	7	90	001	54
25	027	0016	11101	1	091	7	90	001	20
25	027	0016	81102	1	064	7	90	001	54

STATE VALUE COUNT IS: 3,743

GRAND VALUE COUNT IS: 3,743

DATE: 09/23/93
AMP370FR

EPA AEROMETRIC INFORMATION RETRIEVAL SYSTEM (AIRS)
AIR QUALITY SUBSYSTEM
RAW DATA CONVERSION PROCESSING SUMMARY

PAGE 0001

TOTAL NUMBER OF RECORDS READ FROM THE RAW DATA WORKFILE : 102

TOTAL NUMBER OF HOURLY RECORDS WRITTEN TO THE RAW DATA CONVERSION CARD IMAGE FILE : 0
TOTAL NUMBER OF DAILY RECORDS WRITTEN TO THE RAW DATA CONVERSION CARD IMAGE FILE : 4,046
TOTAL NUMBER OF COMPOSITE RECORDS WRITTEN TO THE RAW DATA CONVERSION CARD IMAGE FILE: 0
TOTAL NUMBER OF MIN. DET. RECORDS WRITTEN TO THE RAW DATA CONVERSION CARD IMAGE FILE: 0

TOTAL NUMBER OF RECORDS WRITTEN TO THE RAW DATA CONVERSION CARD IMAGE FILE : 4,046

* * * PROGRAM AMP370FR TERMINATED SUCCESSFULLY ON 09/23/93 AT 11:26:35 * * *

Figure 5-46. Raw Data Conversion Report

5.14.2 Report Generation Options

The report options screen for the Raw Data Conversion Report allows you to specify the action code for the generated AIRS transactions and the dataset name of the file in which they are written. You may also choose options that affect what data are extracted (include exceptional events data and "null" data), and options that produce additional outputs (work file and Precision-Accuracy Report). Figure 5-47 shows the report options screen.

The default option is to generate a work file in addition to the file of AIRS transactions and the Raw Data Conversion Report. If you are using report criteria for the Raw Data Conversion Report that you saved previously, your saved specifications for report options are displayed instead of the default.

The work file format for this report is given in Volume AQ1. The formats of AIRS transactions are given in Volume AQ2.

```
09/15/87                AIRS Air Quality Subsystem                AMP370A
                            Report Options

Report Name:  RAW DATA CONVERSION                    Criteria Name :

              Enter name and action code for Card Image File
              Name:  TADASWD . _______ . _______ . _______ . _______
              Action code (D,I,M): _

                      Enter X for desired Option(s)

              X 1.  Generate a workfile (Enter name below):
                    TADASWD . ________ . ________ . ________ . ________
              _ 2.  Generate a Precision-Accuracy Report
              X 3.  Include exceptional event data
              _ 4.  Include null data




   PF3=end      PF4=main menu      PF5=terminate      PF9=save criteria
```

Figure 5-47. Report Options Screen for the Raw Data Conversion Report

Instructions

You must enter a dataset name for the card-image file of AIRS transactions to be generated and an action code for the transactions. Valid action codes are D (delete), I (insert), and M (modify). If you choose the delete action code and the selected data generates transaction type 1 (hourly), the generated transaction will have a modify action code and asterisks (*) for the valued sample values. A printed report will always be produced and is not an option.

You may choose any of the following options:

option 1	generate a work file
option 2	generate a Precision-Accuracy report
option 3	include exceptional event data
option 4	include null data

If you choose to generate a work file, you must specify a dataset name for it; otherwise you may not specify a dataset name.

Read Section 3.6.1 if you are not familiar with how to use the report options screen. Section 3.6.2 describes the characteristics of valid dataset names.

Error Messages

The error messages listed below (in alphabetical order) are displayed at the top of the report options screen if you make a mistake in specifying report options.

ACTION CODE IS INVALID
Valid codes are D (delete), I (insert), and M (modify).

ACTION CODE IS REQUIRED
Action code must be provided.

DATASET NAME IS INVALID
The dataset name entered for the card-image file or the work file is not valid. Refer to Section 3.6.2 of this volume for a description of dataset naming conventions.

DATASET NAME NOT ALLOWED WITHOUT SPECIFYING OPTION 1
If a work file is not selected as an output, a dataset name must not be entered for the work file.

DUPLICATE DATASET NAMES NOT ALLOWED
The dataset name entered for the work file must not be the same as the dataset name entered for the card-image file.

PLEASE ENTER A VALID DATASET NAME

If a work file is selected, a dataset name must be specified. A dataset name always must be specified for the card-image file.

PLEASE ENTER BLANK OR 'X'

Only blank and X are valid entries for specifying report options.

PLEASE USE A VALID PF-KEY

A PF key not defined for this screen was used.

5.14.3 Data Selection Options

You may select which monitors are included in the report using the select criteria screen. A sample screen is shown in Figure 5-48. The leftmost portion of the screen is shown at the top of the figure and the rightmost portion is shown at the bottom.

There are three groups of selection criteria. The first group consists of "geographic" criteria. Only certain combinations of these fields are allowed. You may use any one of the following combinations of geographic selection fields:

state (code or abbreviation)
state + county
state + county + site
state + reporting organization
state + city
state + AQCR
AQCR
urban area
MSA
CMSA
MSA-rep
CMSA-rep
status area

The second group of selection criteria consists of the following optional fields:

parameter
method
monitor type

The third group of selection criteria consists of the following required fields:

interval
begin date (year, month, and day)
end date (year, month, and day)

In a given line on the select criteria screen, you must specify all the fields in the third group of selection criteria and either parameter or one of the geographic criteria in the first group. You may use any of the criteria in the second group in addition to other criteria. If you specify method, you must also specify parameter.

Specify dates as year, month, and day (YYMMDD format). Valid dates are January 1, 1957 (570101) through any valid date.

```
09/30/92                    AIRS Air Quality Subsystem                    AMP370B
                                 Select Criteria                          Page 1/2

Report Name:  RAW DATA CONVERSION                          Criteria Name:

                                                BEGIN   END
                                                DATE    DATE   MON
  ST  CNTY  SITE  PARA-METER  METH  INT         YYMMDD  YYMMDD TYPE  CITY  AQCR  REP ORG  URBAN AREA
  __  ___   ____  _________   ____  __          ______  ______ ____  ____  ____  ___      ____
  __  ___   ____  _________   ____  __          ______  ______ ____  ____  ____  ___      ____
  __  ___   ____  _________   ____  __          ______  ______ ____  ____  ____  ___      ____
  __  ___   ____  _________   ____  __          ______  ______ ____  ____  ____  ___      ____
  __  ___   ____  _________   ____  __          ______  ______ ____  ____  ____  ___      ____
  __  ___   ____  _________   ____  __          ______  ______ ____  ____  ____  ___      ____
  __  ___   ____  _________   ____  __          ______  ______ ____  ____  ____  ___      ____
  __  ___   ____  _________   ____  __          ______  ______ ____  ____  ____  ___      ____
  __  ___   ____  _________   ____  __          ______  ______ ____  ____  ____  ___      ____
  __  ___   ____  _________   ____  __          ______  ______ ____  ____  ____  ___      ____

PF1=help   PF2=duplicate   PF3=end  PF4=main menu   PF5=terminate   PF6=rpt options
PF7=back   PF8=more        PF9=save criteria        PF10=left       PF11=right
```

```
09/30/92                    AIRS Air Quality Subsystem                    AMP370B
                                 Select Criteria                          Page 2/2

Report Name:  RAW DATA CONVERSION                          Criteria Name:

                          MSA     CMSA    STATUS
  MSA   CMSA              REP     REP     AREA
  ____  ____              ____    ____    ____
  ____  ____              ____    ____    ____
  ____  ____              ____    ____    ____
  ____  ____              ____    ____    ____
  ____  ____              ____    ____    ____
  ____  ____              ____    ____    ____
  ____  ____              ____    ____    ____
  ____  ____              ____    ____    ____
  ____  ____              ____    ____    ____
  ____  ____              ____    ____    ____
  ____  ____              ____    ____    ____

PF1=help   PF2=duplicate   PF3=end  PF4=main menu   PF5=terminate   PF6=rpt options
PF7=back   PF8=more        PF9=save criteria        PF10=left       PF11=right
```

Figure 5-48. Select Criteria Screen for the Raw Data Conversion Report

In addition to the monitor type codes listed in Volume GC2 of the AIRS User's Guide, you may use the code "B" to select both NAMS and SLAMS monitors and code "P" to select PAMS monitors.

Similarly, you may use the special codes "L" and "G" for interval code to select groups of sampling intervals. The code "L" selects sampling intervals less than 24 hours (interval codes 1, 2, 3, 4, 5, 6, B, X, Y, and Z). The code "G" selects sampling intervals greater than or equal to 24 hours (interval codes 7, 8, 9, A, and D). If computed data with sampling intervals X, Y, and Z are selected using interval code "L", they are written in the optional work file but no AIRS input transactions are generated for those intervals.

Online Help is available for all of the selection criteria fields except BEGIN-DATE and END-DATE. The Help facility allows you to browse through tables of values, with descriptions, for the codes you need to enter, and then to select the value that you wish to use. The Help facility is described in detail in Section 3.6.4.

Warning

It is possible that in certain unusual circumstances, data that should appear in the report and work file will erroneously be omitted from them. This is due to flaws in the data extraction and sorting procedures, which cause some records to be deleted from the work file as it is sorted because they appear to be duplicates, when in fact they are not. (Since the printed report is generated from the sorted work file, the data erroneously deleted from the work file do not appear in the report either.) This situation arises only if all of these conditions exist: (1) at least two lines of criteria entered on the select criteria screen select data for the same monitor, year, and month; (2) the pertinent lines of selection criteria have different begin or end dates; (3) the monitor changes from one sampling method to another and then back to the original method within the month; and (4) the monitor uses a sampling interval of 24 hours or greater. You can avoid this problem by using the same begin and end dates in each line of selection criteria that could select the same monitor.

Instructions

Enter selection criteria into the available fields on the select criteria screen, or alter the previously saved criteria displayed on the screen if you wish. You must specify criteria in at least one line of the screen. Press the ENTER key when you have finished entering or altering the criteria.

Read Section 3.6.3 if you are not familiar with how to use the select criteria screen. Refer to Volume GC2 of the AIRS User's Guide for lists of valid codes to use for selection criteria.

Press PF1=help for general information about the select criteria process. For Field-specific Help, enter a "?" in the first position of any field (except BEGIN-DATE or END-DATE).

Error Messages

The error messages listed below (in alphabetical order) are displayed at the top of the select criteria screen if you make a mistake in select criteria. See Volume GC4 of the AIRS User's Guide for explanations of the error messages that you may encounter while using Field-specific Help.

A PARAMETER IS REQUIRED FOR STATUS-AREA CODE
If status area is entered, parameter must be entered.

A STATE IS REQUIRED FOR CITY
If city is entered, state must be entered.

A STATE IS REQUIRED FOR COUNTY
If county is entered, state must be entered.

A STATE IS REQUIRED FOR REPORT-ORG
If reporting organization is entered, state must be entered.

BEGIN-DATE IS < 570101 OR > CURRENT DATE
Begin date must be in the range January 1, 1957 (570101) through the current date.

BEGIN-END YEAR RANGE INCLUDES ARCHIVED YEAR(S)
The requested years must not include any years for which data has been archived (removed from the raw data files).

BEGIN-YEAR IS ARCHIVED
Begin year must not be a year for which data has been archived (removed from the raw data files).

END-YEAR IS ARCHIVED
End year must not be a year for which data has been archived (removed from the raw data files).

ENTER SELECTION CRITERIA OR USE A PF-KEY TO ESCAPE
ENTER was pressed without any selection criteria specified. Either specify criteria and press ENTER or use one of the valid PF keys to transfer to another screen or terminate the AIRS session.

INTERVAL CODE IS REQUIRED FOR THIS REPORT
Interval code must be entered.

PF2 INVALID - MAXIMUM NUMBER OF SELECTION CRITERIA HAS BEEN SPECIFIED
Do not press PF2 when the last select criteria screen is full.

PF2 INVALID - THERE ARE NO SELECTION CRITERIA TO DUPLICATE
Do not press PF2 without entering at least one selection criterion.

PF7 INVALID - THIS IS THE FIRST SELECT CRITERIA SCREEN
Do not press PF7 from the first select criteria screen; it is used to page backward.

PF8 INVALID - THIS IS THE FINAL SELECT CRITERIA SCREEN
Do not press PF8 from the last select criteria screen; it is used to page forward.

PF10 INVALID - THIS IS THE LEFT-MOST SELECT CRITERIA SCREEN
Do not press PF10 while the leftmost select criteria screen is displayed.

PF11 INVALID - THIS IS THE RIGHT-MOST SELECT CRITERIA SCREEN
Do not press PF11 while the rightmost select criteria screen is displayed.

PLEASE DO NOT ENTER BOTH STATE AND CMSA CODE
Do not enter both state and CMSA code.

PLEASE DO NOT ENTER BOTH STATE AND CMSA-REP CODE
Do not enter both state and CMSA-rep code.

PLEASE DO NOT ENTER BOTH STATE AND MSA CODE
Do not enter both state and MSA code.

PLEASE DO NOT ENTER BOTH STATE AND MSA-REP CODE
Do not enter both state and MSA-rep code.

PLEASE DO NOT ENTER BOTH STATE AND STATUS-AREA CODE
Do not enter both state and status area code.

PLEASE DO NOT ENTER BOTH STATE AND URBAN-AREA CODE
Do not enter both state and urban area as select criteria.

PLEASE ENTER A NUMERIC BEGIN-DATE
The begin date entered must be numeric.

PLEASE ENTER A NUMERIC END-DATE
The end date entered must be numeric.

PLEASE ENTER A PARAMETER CODE WITH THE METHOD CODE
If method is entered, parameter must be entered.

PLEASE ENTER A VALID AQCR CODE
The AQCR code is not valid.

PLEASE ENTER A VALID CITY CODE
The combination of city and state codes is not valid.

PLEASE ENTER A VALID COUNTY CODE
The combination of county and state codes is not valid.

PLEASE ENTER A VALID CMSA CODE
The CMSA code entered must be in the AIRS GEO-COMMON File.

PLEASE ENTER A VALID CMSA-REP CODE
The CMSA-rep code entered must be in the AIRS GEO-COMMON File.

PLEASE ENTER A VALID INTERVAL CODE
The interval code is not valid.

PLEASE ENTER A VALID METHOD CODE
The combination of method and parameter codes is not valid.

PLEASE ENTER A VALID MONITOR-TYPE CODE
The monitor type code is not valid. Use a code listed in Volume GC2, or use "B" to select both NAMS and SLAMS monitor types or "P" to select PAMS monitor types.

PLEASE ENTER A VALID MSA CODE
The MSA code entered must be in the AIRS GEO-COMMON File.

PLEASE ENTER A VALID MSA-REP CODE
The MSA-rep code entered must be in the AIRS GEO-COMMON File.

PLEASE ENTER A VALID PARAMETER CODE
The parameter code is not valid.

PLEASE ENTER A VALID REPORT-ORG
The combination of reporting organization and state is not valid.

PLEASE ENTER A VALID SITE CODE
The combination of state, county, and site does not match any existing site-ID in the Site file.

PLEASE ENTER A VALID STATE ABBREVIATION
The state abbreviation is not valid.

PLEASE ENTER A VALID STATE CODE
The state code is not valid.

PLEASE ENTER A VALID STATUS-AREA CODE FOR PARAMETER
The combination of status area and parameter entered must be in the AIRS GEO-COMMON File.

PLEASE ENTER A VALID URBAN-AREA CODE
The urban area code is not valid.

PLEASE ENTER A VALID 6-DIGIT BEGIN-DATE

The begin date entered must be a valid Gregorian date in YYMMDD format.

PLEASE ENTER A VALID 6-DIGIT END-DATE

The end date entered must be a valid Gregorian date in YYMMDD format.

PLEASE ENTER AN END-DATE THAT IS GREATER THAN OR EQUAL TO THE BEGIN-DATE

The end date must be greater than or equal to the begin date.

PLEASE ENTER ONE: STATE, PARAMETER, AQCR, URBAN-AREA, MSA, CMSA, MSA-REP, CMSA-REP, OR STATUS AREA

One of the geographic criteria or parameter must be used in each line of select criteria.

PLEASE ENTER ONLY ONE: AQCR, URBAN-AREA, CITY, REPORT-ORG, COUNTY, MSA, CMSA, MSA-REP, CMSA-REP, OR STATUS-AREA

Only the combinations of geographic selection criteria listed at the beginning of this section are valid.

PLEASE FILL ALL LINES BEFORE GOING ON TO THE NEXT SCREEN

PF8 is valid only when the current screen is full or when there are more criteria on a subsequent screen.

PLEASE USE A VALID PF-KEY

A PF key not defined for this screen was used.

REPORT BEGINNING DATE IS REQUIRED FOR THIS REPORT

A begin date must be entered.

REPORT ENDING DATE IS REQUIRED FOR THIS REPORT

An end date must be entered.

STATUS-AREA CODE NOT ALLOWED WITH THIS PARAMETER

A status area was entered for a parameter that does not allow entry of a status area.

THE COUNTY CODE IS REQUIRED WITH THE SITE CODE

If site is entered, county must be entered.

5.14.4 Data Sorting Options

The Raw Data Conversion Report has a fixed sort order that cannot be changed. Therefore, there is no sort criteria screen for this report.

The sort order for the printed report and the work file is:

state
county
site
parameter
POC
method
interval
year
monitor type
reporting organization
month

The sort order for the file of AIRS transactions is:

state
county
site
parameter
POC
method
interval
date (year, month, day, hour)

Instructions

None

5.15 Pollutant Standard Index Report (AMP410)

5.15.1 Description

The Pollutant Standard Index Report presents Daily PSI values in several ways, by one of the following geographical areas: COUNTY, CITY, AQCR, URBAN-AREA, or MSA. The data are extracted from the AQ Hourly and Daily Raw Data files. The Pollutant Standard Index Report shows the Daily PSI value and descriptor, the critical pollutant and associated subindexes from among the pollutants PM-10, SO_2, CO, O_3, and NO_2 for the selected geographical area, the site of each subindex, and the total sites considered for each pollutant. Pollutants with exceptional event data included are flagged with an asterisk (*) by the pollutant name, and the user may request Ozone on a seasonal or annual basis.

The Pollutant Standard Index Summary is also produced showing up to a year's Daily PSI values and various statistics. The report body includes the following summary statistics, which summarize the year's Daily PSI values: counts of the PSI values by range (good, moderate, etc.), the six highest PSI values and dates or which they occurred, values representing the 10th through 90th percentiles, the average PSI values, the days with each pollutant as the critical pollutant, and the total days with PSI values.

The user may request that one, both, or neither report be generated. A work file may be generated in lieu of or in addition to the PSI Report. A summary file may be generated in lieu of or in addition to the PSI Summary. The work file contains a record for each criteria pollutant monitor and year selected, including geographical information and the maximum daily values for the entire year. The values are stored in PPM for CO, O_3, and NO_2. PM-10 values are stored in UG/M^3. SO_2 values are stored in UG/M^3 except for Units 007, which is stored in PPM. The summary file contains a record for each year and reporting area, including the Daily PSI values and various statistics. A report summarizing the processing performed is always generated, including the user-specified names of any work file or summary file produced.

A one-page processing summary report lists the number of records read from the sorted Expanded Monitor File and the number written to the Pollutant Standard Index Work File (if one was created).

Figure 5-49 shows a sample Pollutant Standard Index Report (Daily format) and a sample Pollutant Standard Index (Summary format).

DATE: 09/16/93 EPA AEROMETRIC INFORMATION RETRIEVAL SYSTEM (AIRS) PAGE: 185
AIR QUALITY SUBSYSTEM
POLLUTANT STANDARD INDEX REPORT
STATE (25): MASSACHUSETTS 027 : WORCESTER CO

	********** CRITICAL POLLUTANT **********					********** OTHER POLLUTANTS **********			
DATE	POLLUTANT	DESCRIPTOR	PSI VALUE	SITE-ID	TOTAL SITES	POLLUTANT	SUBINDEX	SITE-ID	TOTAL SITES
90/10/14	OZONE	GOOD	26	25-027-0019	1	CARBON MONOXIDE	13	25-027-0020	1
						SULFUR DIOXIDE	2	25-027-0019	2
90/10/15	OZONE	GOOD	36	25-027-0019	1	CARBON MONOXIDE	8	25-027-0020	1
						SULFUR DIOXIDE	7	25-027-0019	2
90/10/16	OZONE	GOOD	30	25-027-0019	1	CARBON MONOXIDE	11	25-027-0020	1
						SULFUR DIOXIDE	9	25-027-0020	2
90/10/17	OZONE	GOOD	40	25-027-0019	1	SULFUR DIOXIDE	19	25-027-0020	2
						CARBON MONOXIDE	18	25-027-0020	1
90/10/18	OZONE	GOOD	42	25-027-0019	1	CARBON MONOXIDE	11	25-027-0020	1
						SULFUR DIOXIDE	6	25-027-0020	2
90/10/19	OZONE	GOOD	31	25-027-0019	1	CARBON MONOXIDE	11	25-027-0020	1
						SULFUR DIOXIDE	5	25-027-0020	2
90/10/20	OZONE	GOOD	32	25-027-0019	1	CARBON MONOXIDE	27	25-027-0020	1
						SULFUR DIOXIDE	11	25-027-0020	2
90/10/21	CARBON MONOXIDE	GOOD	32	25-027-0020	1	OZONE	27	25-027-0019	1
						SULFUR DIOXIDE	16	25-027-0020	2
90/10/22	OZONE	GOOD	21	25-027-0019	1	CARBON MONOXIDE	18	25-027-0020	1
						SULFUR DIOXIDE	11	25-027-0020	2
90/10/23	OZONE	GOOD	18	25-027-0019	1	CARBON MONOXIDE	16	25-027-0020	1
						SULFUR DIOXIDE	10	25-027-0020	2
90/10/24	OZONE	GOOD	17	25-027-0019	1	SULFUR DIOXIDE	12	25-027-0020	2
						CARBON MONOXIDE	6	25-027-0020	1
90/10/25	CARBON MONOXIDE	GOOD	14	25-027-0020	1	OZONE	14	25-027-0019	1
						SULFUR DIOXIDE	13	25-027-0020	2
90/10/26	OZONE	GOOD	23	25-027-0019	1	CARBON MONOXIDE	12	25-027-0020	1
						SULFUR DIOXIDE	11	25-027-0020	2
90/10/27	CARBON MONOXIDE	GOOD	33	25-027-0020	1	SULFUR DIOXIDE	11	25-027-0020	2
90/10/28	CARBON MONOXIDE	GOOD	39	25-027-0020	1	SULFUR DIOXIDE	19	25-027-0020	2

Figure 5-49. Pollutant Standard Index Report-Daily Format (1 of 2)

DATE: 09/16/93
AMP410

STATE (25): MASSACHUSETTS

EPA AEROMETRIC INFORMATION RETRIEVAL SYSTEM (AIRS)
AIR QUALITY SUBSYSTEM
POLLUTANT STANDARD INDEX SUMMARY
001 : BARNSTABLE CO

PAGE: 4

	JAN 1990	FEB 1990	MAR 1990	APR 1990	MAY 1990	JUN 1990	JUL 1990	AUG 1990	SEP 1990	OCT 1990	NOV 1990	DEC 1990
1	T	F	F	32 M	32 W	65 S	35 M	44 T	43 M	27 T	F	S
2	W	S	S	31 T	49 T	59 S	38 T	48 F	81 T	28 W	S	M
3	T	S	S	32 W	46 F	47 M	82 W	73 S	62 W	30 T	S	T
4	F	M	M	32 T	45 S	53 T	87 T	81 S	27 T	41 F	M	W
D 5	S	T	T	36 F	46 S	44 W	78 F	52 M	58 F	37 S	T	T
6	S	W	W	32 S	43 M	54 T	34 S	47 T	75 S	53 S	W	F
A 7	M	T	T	38 S	45 T	73 F	30 S	27 W	62 S	52 M	T	S
8	T	F	F	37 M	39 W	39 S	65 M	22 T	25 M	44 T	F	S
Y 9	W	S	S	52 T	62 T	63 S	41 T	35 F	25 T	22 W	S	M
10	T	S	S	52 W	53 F	36 M	55 W	19 S	25 W	22 T	S	T
11	F	M	M	40 T	36 S	31 T	29 T	27 S	53 T	21 F	M	W
D 12	S	T	T	37 F	45 S	32 W	37 F	53 M	33 F	17 S	T	T
13	S	W	W	35 S	50 M	55 T	37 S	74 T	44 S	18 S	W	F
F 14	M	T	T	43 S	42 T	37 F	42 S	54 W	44 S	26 M	T	S
15	T	F	F	41 M	61 W	27 S	25 M	73 T	45 M	43 T	F	S
16	W	S	S	52 T	43 T	27 S	87 T	73 F	38 T	33 W	S	M
M 17	T	S	S	56 W	41 F	28 M	94 W	86 S	26 W	52 T	S	T
18	F	M	M	35 T	42 S	29 T	99 T	62 S	25 T	40 F	M	W
O 19	S	T	T	41 F	27 S	34 W	115 F	34 M	32 F	35 S	T	T
20	S	W	W	41 S	27 M	T	93 S	22 T	48 S	28 S	W	F
N 21	M	T	T	42 S	31 T	39 F	55 S	20 W	30 S	32 M	T	S
22	T	F	F	37 M	28 W	71 S	47 M	27 T	42 M	37 T	F	S
T 23	W	S	S	41 T	25 T	67 S	23 T	23 F	45 T	29 W	S	M
24	T	S	S	35 W	31 F	69 M	37 W	S	21 W	29 T	S	T
H 25	F	M	M	36 T	49 S	60 T	23 T	S	T	24 F	M	W
26	S	T	T	40 F	61 S	67 W	29 F	M	41 F	26 S	T	T
27	S	W	W	64 S	47 M	54 T	20 S	57 T	33 S	27 S	W	F
28	M	T	T	77 S	45 T	61 F	27 S	46 W	32 S	32 M	T	S
29	T		F	28 M	36 W	44 S	26 M	67 T	54 M	19 T	F	S
30	W		S	29 T	36 T	42 S	24 T	34 F	45 T	25 W	S	M
31	T		S		42 F		22 W	63 S		28 T		T

NO. OF DAYS PSI VALUES:	GOOD	MODERATE	UNHEALTHFUL	VERY UNHEALTHFUL	HAZARDOUS		
	< OR = 50	51-100	101-199	200-299	300-399	400-499	500 OR >
	151	57	1				

	1ST	2ND	3RD	4TH	5TH	6TH
HIGHEST PSI/YR	115	99	94	93	87	87
DATE OCCURRED	07/19	07/18	07/17	07/20	07/04	07/16

10TH %	25TH %	50TH %	75TH %	90TH %
025	030	040	052	067

AVERAGE PSI = 43
DAYS CO = DAYS O3 = 209 DAYS SO2 = DAYS NO2 = DAYS PM-10 =
TOTAL DAYS WITH PSI VALUE = 209

Figure 5-49. Pollutant Standard Index Report-Summary Format (2 of 2)

5.15.2 Report Generation Options

The options available for the Pollutant Standard Index Report Program have to do with the output medium (printed report or work file), and the report contents for reporting Ozone (annual or seasonal basis). The report options screen, shown in Figure 5-50, allows you to select the type(s) of output and content you want.

The default option is to generate only a printed report. If you are using report criteria for the Pollutant Standard Index Report that you saved previously, your saved specifications for report options are displayed instead of the default.

The work file and summary file formats for this report are given in Volume AQ1.

```
11/19/90                AIRS Air Quality Subsystem                AMP410A
                             Report Options

Report Name:  POLLUTANT STANDARD INDEX              Criteria Name:


                        Enter X for desired Option(s)

              Choose at least one output

              X 1.  Generate a printed report
              _ 2.  Generate a workfile (Enter name below):
                    KUFASWD . _______ . _______ . _______ . _______

              Choose one report type
              _ 3.  Yearly data                   _ 4.  Quarterly data

              Choose one retrieval option
              _ 5.  Include all data & flag data that fails Summary Criteria
              _ 6.  Include only data that meets Summary Criteria

              Choose desired report option
              _ 7.  Generate the Precision-Accuracy Report

  PF3=end      PF4=main menu      PF5=terminate      PF9=save criteria
```

Figure 5-50. Report Options Screen for the Pollutant Standard Index Report

Instructions

You must choose one of the following report options, and you may choose all of them:

option 1	generate a printed report
option 2	generate a work file
option 3	generate a summary file

You must choose one of the following report options to print a report, or you may choose both of them:

option 4	list PSI report
option 5	list PSI Summary report

You must choose only one of the reporting areas below:

option 6	county
option 7	city
option 8	urban area
option 9	AQCR
option 10	MSA

You must choose the additional option when reporting Ozone:

option 11	report annual or seasonal basis for Ozone (enter A or S)

If you choose a work file (option 2) or a summary file (option 3), you must specify a dataset name for it; otherwise, you may not specify a dataset name.

Read Section 3.6.1 if you are not familiar with how to use the report options screen. Section 3.6.2 describes the characteristics of valid dataset names.

Error Messages

The error messages listed below (in alphabetical order) are displayed at the top of the report options screen if you make a mistake in specifying report options.

DATASET NAME IS INVALID

The work file dataset name is not valid. Refer to Section 3.6.2 of this volume for a description of dataset naming conventions.

DATASET NAME NOT ALLOWED WITHOUT SPECIFYING OPTION 2

If a work file is not selected as an output, the dataset name must be blank.

DATASET NAME NOT ALLOWED WITHOUT SPECIFYING OPTION 3
If a summary file is not selected as an output, the dataset name must be blank.

DUPLICATE DATASET NAMES NOT ALLOWED
The same dataset name may not be used for both work file and summary file output.

PLEASE CHOOSE AT LEAST ONE OUTPUT (OPTION 1, 2, OR 3)
Either a printed report (option 1), a work file (option 2), or a summary file (option 3) must be selected as an output of the report.

PLEASE CHOOSE ONLY ONE OPTION (OPTION 6, 7, 8, 9 OR 10)
Only one reporting area (county, city, urban area, AQCR, or MSA) may be selected.

PLEASE CHOOSE OPTION 1 WHEN SPECIFYING A REPORT OPTION (4 AND 5)
If the PSI report (option 4) or the PSI summary (option 5) is selected, a printed report (option 1) must be selected.

PLEASE CHOOSE OPTION 4 OR 5
If a printed report (option 1) is selected, either the PSI report (option 4) or the PSI summary (option 5) must be selected.

PLEASE CHOOSE OPTION 6, 7, 8, 9 OR 10
One reporting area (county, city, urban area, AQCR, or MSA) must be selected.

PLEASE ENTER 'A' OR 'S' FOR OPTION 11
Enter 'A' for annual or 'S' for seasonal reporting for ozone.

PLEASE ENTER A VALID DATASET NAME
If a work file is selected, a dataset name must be specified.

PLEASE ENTER BLANK OR 'X'
Only blank and X are valid entries for selecting report options.

PLEASE USE A VALID PF-KEY
A PF key not defined for this screen was used.

5.15.3 Data Selection Options

You may select which monitors are included in the report using the select criteria screen. A sample screen is shown in Figure 5-51. The leftmost portion of the screen is shown at the top of the figure and the rightmost portion is shown at the bottom.

There are three groups of selection criteria. The first group consists of "geographic" criteria. Only certain combinations of these fields are allowed. You may use any one of the following combinations of geographic selection fields:

state (code or abbreviation)
state + county
state + county + site
state + reporting organization
state + city
state + AQCR
AQCR
urban area
MSA
CMSA
MSA-rep
CMSA-rep
status area

The second group of selection criteria consists of the following optional fields:

parameter
monitor type

The third group of selection criteria consists of the following required fields:

begin date (year and quarter)
end date (year and quarter)

In a given line on the select criteria screen, you must specify all the fields in the third group of selection criteria and either parameter or one of the geographic criteria in the first group. You may use any of the criteria in the second group in addition to other criteria.

Specify dates as year, month, and day (YYMMDD format). Valid dates are in the range from 570101 through any valid date.

In addition to the monitor type codes listed in Volume GC2 of the AIRS User's Guide, you may use the code "B" to select both NAMS and SLAMS monitors and code "P" to select PAMS monitors.

```
09/30/92                    AIRS Air Quality Subsystem                    AMP410B
                                 Select Criteria                          Page 1/2

Report Name:  POLLUTANT STANDARD INDEX                    Criteria Name:

                                          BEGIN    END
                                          DATE     DATE
  ST  CNTY  SITE  PARA-METER              YYMMDD   YYMMDD   MON TYPE  CITY  AQCR  REP ORG  URBAN AREA
  __  ___   ____  _____                   ______   ______   ________  ____  ____  _______  __________
  __  ___   ____  _____                   ______   ______   ________  ____  ____  _______  __________
  __  ___   ____  _____                   ______   ______   ________  ____  ____  _______  __________
  __  ___   ____  _____                   ______   ______   ________  ____  ____  _______  __________
  __  ___   ____  _____                   ______   ______   ________  ____  ____  _______  __________
  __  ___   ____  _____                   ______   ______   ________  ____  ____  _______  __________
  __  ___   ____  _____                   ______   ______   ________  ____  ____  _______  __________
  __  ___   ____  _____                   ______   ______   ________  ____  ____  _______  __________
  __  ___   ____  _____                   ______   ______   ________  ____  ____  _______  __________
  __  ___   ____  _____                   ______   ______   ________  ____  ____  _______  __________

PF1=help   PF2=duplicate   PF3=end  PF4=main menu   PF5=terminate   PF6=rpt options
PF7=back   PF8=more        PF9=save criteria        PF10=left       PF11=right
```

```
09/30/92                    AIRS Air Quality Subsystem                    AMP410B
                                 Select Criteria                          Page 2/2

Report Name:  POLLUTANT STANDARD INDEX                    Criteria Name:

                MSA    CMSA   STATUS
  MSA   CMSA    REP    REP    AREA
  ____  ____    ____   ____   ____
  ____  ____    ____   ____   ____
  ____  ____    ____   ____   ____
  ____  ____    ____   ____   ____
  ____  ____    ____   ____   ____
  ____  ____    ____   ____   ____
  ____  ____    ____   ____   ____
  ____  ____    ____   ____   ____
  ____  ____    ____   ____   ____
  ____  ____    ____   ____   ____

PF1=help   PF2=duplicate   PF3=end  PF4=main menu   PF5=terminate   PF6=rpt options
PF7=back   PF8=more        PF9=save criteria        PF10=left       PF11=right
```

Figure 5-51. Select Criteria Screen for the Pollutant Standard Index Report

Online Help is available for all of the selection criteria fields except BEGIN-DATE and END-DATE. The Help facility allows you to browse through tables of values, with descriptions, for the codes you need to enter, and then to select the value that you wish to use. The Help facility is described in detail in Section 3.6.4.

Instructions

Enter selection criteria into the available fields on the select criteria screen, or alter the previously saved criteria displayed on the screen if you wish. You must specify criteria in at least one line on the screen. Press the ENTER key when you have finished entering or altering the criteria.

Read Section 3.6.3 if you are not familiar with how to use the select criteria screen. Refer to Volume GC2 of the AIRS User's Guide for lists of valid codes to use for selection criteria.

Press PF1=help for general information about the select criteria process. For Field-specific Help, enter a "?" in the first position of any field (except BEGIN-DATE or END-DATE).

Error Messages

The error messages listed below (in alphabetical order) are displayed at the top of the select criteria screen if you make a mistake in specifying selection criteria. See Volume GC4 of the AIRS User's Guide for explanations of the error messages that you may encounter while using Field-specific Help.

A PARAMETER IS REQUIRED FOR STATUS-AREA CODE
If status area is entered, parameter must be entered.

A STATE IS REQUIRED FOR CITY
If city is entered, state must be entered.

A STATE IS REQUIRED FOR COUNTY
If county is specified, state must be specified.

A STATE IS REQUIRED FOR REPORT-ORG
If reporting organization is entered, state must be entered.

BEGIN-DATE IS < 570101 OR > CURRENT YEAR
Begin date must be in the range January 1, 1957 through current year.

BEGIN-END YEAR RANGE INCLUDES ARCHIVED YEAR(S)
None of the years in the selected date range may contain archived data.

BEGIN-YEAR IS ARCHIVED
The selected begin year may not contain archived data.

END-YEAR IS ARCHIVED
The selected end year may not contain archived data.

ENTER SELECTION CRITERIA OR USE A PF-KEY TO ESCAPE
ENTER was pressed without any selection criteria specified. Either specify criteria and press ENTER or use one of the valid PF keys to transfer to another screen or terminate the AIRS session.

PARAMETER CODE REQUIRED FOR THIS REPORT
A parameter code must be entered.

PF2 INVALID - MAXIMUM NUMBER OF SELECTION CRITERIA HAS BEEN SPECIFIED
Do not press PF2 when the last select criteria screen is full.

PF2 INVALID - THERE ARE NO SELECTION CRITERIA TO DUPLICATE
Do not press PF2 without entering at least one selection criterion.

PF7 INVALID - THIS IS THE FIRST SELECT CRITERIA SCREEN
Do not press PF7 from the first select criteria screen; it is used to page backward.

PF8 INVALID - THIS IS THE FINAL SELECT CRITERIA SCREEN
Do not press PF8 from the last select criteria screen; it is used to page forward.

PF10 INVALID - THIS IS THE LEFT-MOST SELECT CRITERIA SCREEN
Do not press PF10 while the leftmost select criteria screen is displayed.

PF11 INVALID - THIS IS THE RIGHT-MOST SELECT CRITERIA SCREEN
Do not press PF11 while the rightmost select criteria screen is displayed.

PLEASE DO NOT ENTER BOTH STATE AND CMSA CODE
Do not enter both state and CMSA code.

PLEASE DO NOT ENTER BOTH STATE AND CMSA-REP CODE
Do not enter both state and CMSA-rep code.

PLEASE DO NOT ENTER BOTH STATE AND MSA CODE
Do not enter both state and MSA code.

PLEASE DO NOT ENTER BOTH STATE AND MSA-REP CODE
Do not enter both state and MSA-rep code.

PLEASE DO NOT ENTER BOTH STATE AND STATUS-AREA CODE
Do not enter both state and status area code.

PLEASE DO NOT ENTER BOTH STATE AND URBAN-AREA CODE
Do not enter both state and urban area.

PLEASE ENTER A NUMERIC BEGIN-DATE
The begin date entered must be numeric.

PLEASE ENTER A NUMERIC END-DATE
The end date entered must be numeric.

PLEASE ENTER A VALID AQCR CODE
The AQCR code is not valid.

PLEASE ENTER A VALID CITY CODE
The combination of city and state codes is not valid.

PLEASE ENTER A VALID CMSA CODE
The CMSA code entered must be in the AIRS GEO-COMMON File.

PLEASE ENTER A VALID CMSA-REP CODE
The CMSA-rep code entered must be in the AIRS GEO-COMMON File.

PLEASE ENTER A VALID COUNTY CODE
The combination of county and state codes is not valid.

PLEASE ENTER A VALID MONITOR-TYPE CODE
The monitor type code is not valid. Use a code listed in Volume GC2, or use "B" to select both NAMS and SLAMS monitor types or "P" to select PAMS monitor types.

PLEASE ENTER A VALID MSA CODE
The MSA code entered must be in the AIRS GEO-COMMON File.

PLEASE ENTER A VALID MSA-REP CODE
The MSA-rep code entered must be in the AIRS GEO-COMMON File.

PLEASE ENTER A VALID PARAMETER CODE (CO,SO2,NO2,03, OR PM-10)
The parameter code is not valid.

PLEASE ENTER A VALID REPORT-ORG
The combination of reporting organization and state is not valid.

PLEASE ENTER A VALID SITE CODE
The combination of state, county, and site does not match any existing site-ID in the Site file.

PLEASE ENTER A VALID STATE ABBREVIATION
The state abbreviation is not valid.

PLEASE ENTER A VALID STATE CODE
The state code is not valid.

PLEASE ENTER A VALID STATUS-AREA CODE FOR PARAMETER
The combination of status area and parameter entered must be in the AIRS GEO-COMMON File.

PLEASE ENTER A VALID URBAN-AREA CODE
The urban area code is not valid.

PLEASE ENTER A VALID 6-DIGIT BEGIN-DATE
The begin date must be in YYMMDD format.

PLEASE ENTER A VALID 6-DIGIT END-DATE
The end date must be in YYMMDD format.

PLEASE ENTER AN END-DATE THAT IS GREATER THAN OR EQUAL TO THE BEGIN-DATE
The end date must be greater than or equal to the begin date.

PLEASE ENTER ONE: STATE, PARAMETER, AQCR, URBAN-AREA, MSA, CMSA, MSA-REP, CMSA-REP, OR STATUS AREA
One of the geographic criteria or parameter must be used in each line of select criteria.

PLEASE ENTER ONLY ONE: AQCR, URBAN-AREA, CITY, REPORT-ORG, COUNTY, MSA, CMSA, MSA-REP, CMSA-REP, OR STATUS-AREA
Only the combinations of geographic selection criteria listed at the beginning of this section are valid.

PLEASE FILL ALL LINES BEFORE GOING ON TO THE NEXT SCREEN
PF8 is valid only when the current screen is full or when there are more criteria on a subsequent screen.

PLEASE USE A VALID PF-KEY
A PF key not defined for this screen was used.

REPORT BEGINNING DATE IS REQUIRED FOR THIS REPORT
Begin date must be entered.

REPORT ENDING DATE IS REQUIRED FOR THIS REPORT
End date must be entered.

STATUS-AREA CODE NOT ALLOWED WITH THIS PARAMETER
A status area was entered for a parameter that does not allow entry of a status area.

THE COUNTY CODE IS REQUIRED WITH THE SITE CODE
If site is specified, county must be specified.

5.15.4 Data Sorting Options

The Pollutant Standard Index Report has a fixed sort order that cannot be changed. Therefore, there is no sort criteria screen for this report. The sort order is:

Reporting Area (either COUNTY, CITY, AQCR, URBAN-AREA, or MSA)
Year
Monitor-ID

Instructions

None

5.16 Fact Book Report (AMP420)

5.16.1 Description

The Fact Book Report lists the highest summary statistic (e.g., highest annual mean, second maximum, or maximum quarterly mean) by year for a given pollutant/interval combination by MSA (metropolitan statistical area) or URBAN-AREA. This report can be produced in one of two formats: 1) population-ordered, or 2) region. A maximum of three years may be selected for one report. The report consists of two sections: 1) a detail section that lists the values per year for an area, and 2) a summary section that gives the total number of areas listed on the detail report.

Figure 5-52 shows a sample Fact Book Report (Population-Ordered). Figure 5-54 shows a sample Fact Book Report (Region). The summary reports are shown in Figure 5-53 (Population-Ordered) and Figure 5-55 (Region).

DATE 93-09-16 EPA AEROMETRIC INFORMATION RETRIEVAL SYSTEM (AIRS) PAGE 1
AMP420 AIR QUALITY SUBSYSTEM
FACT BOOK

OZONE CONCENTRATION BY MSA > 2 MILLION

MSA	OZONE HIGHEST SECOND DAILY MAX 1-HR VALUE PPM 88	89	90
POPULATION: > 2 MILLION			
BOSTON, MA	0.169	0.120	0.109

TOTAL MSA > 2 MILLION : 1

Figure 5-52. Fact Book Report (Population-Ordered) (1 of 5)

DATE 93-09-30
AMP420

EPA AEROMETRIC INFORMATION RETRIEVAL SYSTEM (AIRS)
AIR QUALITY SUBSYSTEM
FACT BOOK

PAGE 1

SUSPENDED PARTICULAT CONCENTRATION BY MSA 1 - 2 MILLION

MSA	SUSPENDED PARTICULAT UG/CU METER (25 C) HIGHEST GEOMETRIC MEAN 88	89	90
POPULATION: 1 - 2 MILLION			
CHARLOTTE-GASTONIA-ROCK HILL, NC-SC	60	52	54

TOTAL MSA 1 - 2 MILLION : 1

Figure 5-52. Fact Book Report (Population-Ordered) (2 of 5)

DATE 93-09-16 EPA AEROMETRIC INFORMATION RETRIEVAL SYSTEM (AIRS) PAGE 2
AMP420 AIR QUALITY SUBSYSTEM
FACT BOOK

OZONE CONCENTRATION BY MSA .5 - 1 MILLION

MSA	OZONE HIGHEST SECOND DAILY MAX 1-HR VALUE PPM 88	89	90
POPULATION: .5 - 1 MILLION			
SPRINGFIELD, MA	0.167	0.125	0.121

TOTAL MSA .5 - 1 MILLION : 1

Figure 5-52. Fact Book Report (Population-Ordered) (3 of 5)

DATE 93-09-16
AMP420

EPA AEROMETRIC INFORMATION RETRIEVAL SYSTEM (AIRS)
AIR QUALITY SUBSYSTEM
FACT BOOK

OZONE CONCENTRATION BY MSA .25 - .5 MILLION

MSA	OZONE HIGHEST SECOND DAILY MAX 1-HR VALUE PPM 88	89	90
POPULATION: .25 - .5 MILLION			
LAWRENCE-HAVERHILL, MA-NH	0.159	0.123	0.099
WORCESTER, MA	0.139	0.103	0.115

TOTAL MSA .25 - .5 MILLION : 2

Figure 5-52. Fact Book Report (Population-Ordered) (4 of 5)

DATE 93-09-16
AMP420

EPA AEROMETRIC INFORMATION RETRIEVAL SYSTEM (AIRS)
AIR QUALITY SUBSYSTEM
FACT BOOK

PAGE 4

OZONE CONCENTRATION BY MSA < .25 MILLION

MSA	OZONE HIGHEST SECOND DAILY MAX 1-HR VALUE PPM 88	89	90
POPULATION: < .25 MILLION			
BROCKTON, MA	0.129	0.132	0.115
NEW BEDFORD, MA	0.161	0.122	0.126
PITTSFIELD, MA	ND	0.086	0.105

TOTAL MSA < .25 MILLION : 3

ND = NO DATA

Figure 5-52. Fact Book Report (Population-Ordered) (5 of 5)

DATE 93-09-16
AMP420

EPA AEROMETRIC INFORMATION RETRIEVAL SYSTEM (AIRS)
AIR QUALITY SUBSYSTEM
FACT BOOK

PAGE 1

SUMMARY BY POPULATION RANGE OF OZONE
OF HIGHEST SECOND DAILY MAX 1-HR VALUE FOR 88 - 90

POPULATION RANGE	NO OF MSA
> 2 MILLION	1
.5 - 1 MILLION	1
.25 - .5 MILLION	2
< .25 MILLION	3
TOTAL MSA REPORTED:	7

Figure 5-53. Fact Book Report (Population-Ordered Summary)

DATE 93-09-30 EPA AEROMETRIC INFORMATION RETRIEVAL SYSTEM (AIRS) PAGE 1
AMP420 AIR QUALITY SUBSYSTEM
FACT BOOK

POLLUTANT: 44201 OZONE
MSA BY REGION

MSA	POPULATION	OZONE HIGHEST SECOND DAILY MAX 1-HR VALUE PPM 93	
REGION NO: 9 SAN FRANCISCO			
ANAHEIM-SANTA ANA, CA	2,410,556	0.100	*
BAKERSFIELD, CA	543,477	0.090	*
CHICO, CA	182,120	0.060	*
FRESNO, CA	667,490	0.090	*
LOS ANGELES-LONG BEACH, CA	8,863,164	0.140	*
MERCED, CA	178,403	0.060	*
MODESTO, CA	370,522	0.070	*
OAKLAND, CA	2,082,914	0.070	*
OXNARD-VENTURA, CA	669,016	0.080	*
REDDING, CA	147,036	0.049	*
RIVERSIDE-SAN BERNARDINO, CA	2,588,793	0.130	*
SACRAMENTO, CA	1,481,102	0.080	*
SALINAS-SEASIDE-MONTEREY, CA	355,660	0.050	*
SAN DIEGO, CA	1,861,846	0.100	*
SAN FRANCISCO, CA	1,603,678	0.060	*
SAN JOSE, CA	1,497,577	0.060	*
SANTA CRUZ, CA	229,734	0.040	*
SANTA ROSA-PETALUMA, CA	388,222	0.050	*
STOCKTON, CA	480,626	0.080	*
VALLEJO-FAIRFIELD-NAPA, CA	451,186	0.070	*

* = LESS THAN ONE-HALF OF REQUIRED DATA REPORTED

Figure 5-54. Fact Book Report (Region) (1 of 2)

DATE 93-09-30 EPA AEROMETRIC INFORMATION RETRIEVAL SYSTEM (AIRS) PAGE 2
AMP420 AIR QUALITY SUBSYSTEM
FACT BOOK

POLLUTANT: 44201 OZONE
MSA BY REGION

MSA	POPULATION	OZONE HIGHEST SECOND DAILY MAX 1-HR VALUE PPM 93
REGION NO: 9 SAN FRANCISCO		
VISALIA-TULARE-PORTERVILLE, CA	311,291	0.070 *
YUBA CITY, CA	122,643	0.070 *

TOTAL MSA IN REGION 9 : 22

* = LESS THAN ONE-HALF OF REQUIRED DATA REPORTED

Figure 5-54. Fact Book Report (Region) (2 of 2)

DATE 93-09-16
AMP420

EPA AEROMETRIC INFORMATION RETRIEVAL SYSTEM (AIRS)
AIR QUALITY SUBSYSTEM
FACT BOOK

PAGE 1

SUMMARY BY REGION OF OZONE
FOR 1 HOUR HIGHEST SECOND DAILY MAX 1-HR VALUE

REGION	NO OF MSA
1	7

TOTAL MSA REPORTED: 7

Figure 5-55. Fact Book Report (Region Summary)

5.16.2 Report Generation Options

The options available for the Fact Book Report control the output medium or the report content. The report options screens, shown in Figure 5-56, allow the user to determine the type of output needed on the report.

The default options are to generate a printed report and include exceptional event data. If the user requests report criteria saved previously, the saved specifications are displayed instead of the default option.

The valid intervals and statistics for this report are listed below:

Pollutant	AIRS Quality Statistic	Interval	Description
11101 (TSP)	Geometric Mean	7	Annual
	Second Max 24-hr Average	7	24-hr
	Yr-Weighted-Arithmetic-Mean	7	Annual
12128 (Pb)	Max Quarterly Mean	C, 7	Qtr
42101 (CO)	Second Max 8-hr Non-overlapping Average	Z	8-hr
	Second Max 1-hr Value	1	1-hr
42401 (SO2)	Arithmetic Mean	1, 7	Annual
	Second Max 24-hr Average	X, 7	24-hr
	Second Max 3-hr Average	Y	3-hr
42602 (NO2)	Arithmetic Mean	1, 7	Annual
44201 (03)	Second Daily Max 1-hr Value	1	1-hr
81102 (PM-10)	Yr-Weighted-Arithmetic-Mean	1, 7	Annual
	Second Max 24-hr Average	7, X	24-hr

The work file format for this report is given in Volume AQ1.

```
03/01/93                AIRS Air Quality Subsystem                AMP420A
                             Report Options                       Page 1/2

Report Name:  FACT BOOK                              Criteria Name:

     Enter X for desired Options

     X 1.  Generate a printed report
     _ 2.  Generate a workfile (Enter name below):
           BLYASWD . ________ . ________ . ________ . ________

           Enter Begin Year (YY) : __
           Enter End Year   (YY) : __
           Enter Report Type (Select One Type Below):
                 _ Population-Ordered      _ Region
           Enter Geographic Summary Area (Select One Area Below):
                 _ MSA                     _ Urban-Area

     Choose desired report options:

     _ 3.  Include Exceptional Event Data

  PF3=end      PF4=main menu      PF5=terminate      PF9=save criteria
```

```
07/11/88                AIRS Air Quality Subsystem                AMP420A
                             Output Statistics                    Page 2/2

Report Name:  FACT BOOK                              Criteria Name:

     Enter X for desired Parameter (Select One Parameter Below):

     X 11101   _ 12128   _ 42101   _ 42401
     _ 42602   _ 44201   _ 81102

     Enter X for desired Interval(s):

     _ 1       X 7       _ X       _ Y       _ Z       _ C

     Enter X for desired Summary Statistic (Select One Statistic Below):

     _ 1.  Arithmetic Mean                  _ 5.  Second Max 1-hr Value
     _ 2.  Geometric Mean                   _ 6.  Second Max 3-hr Average
     _ 3.  Max Quarterly Mean               _ 7.  Second Max 8-hr Non-Ovrlp Avg
     _ 4.  Second Daily Max 1-hr Value      _ 8.  Second Max 24-hr Average
                                            _ 9.  Yearly Weighted Arith Mean

PF3=end  PF4=main menu  PF5=terminate  PF6=report options  PF9=save criteria
```

Figure 5-56. Report Options Screens for the Fact Book Report

Instructions

The user must choose at least one type of output:

option 1	generate a printed report
option 2	generate a workfile

Next, enter the begin and end year (last two digits for the year) for the report.

Next, choose the report type (population-ordered or region).

Next, choose the geographic summary area (MSA or urban area).

option 3	indicate if the report being generated should include exceptional event data.

After pressing <ENTER>, the second report options screen is displayed and the user can choose the parameter (criteria pollutant).

Next, select the correct interval(s) followed by selection of the associated summary statistic.

Error Messages

The error messages listed below (in alphabetical order) are displayed at the top of the report options screen if you make a mistake in specifying report options.

A SUMMARY STATISTIC IS REQUIRED FOR THIS REPORT
A summary statistic must be entered.

BEGIN-YEAR IS < 57 OR > CURRENT YEAR
Begin year must be in the range 1957 through the current year.

DATASET NAME IS INVALID
The work file dataset name is not valid. Refer to Section 3.6.2 of this volume for a description of dataset naming conventions.

DATASET NAME NOT ALLOWED WITHOUT SPECIFYING OPTION 2
If a work file is not selected as an output, a dataset name must not be entered.

END-YEAR > BEGIN-YEAR + 2
The end year may not be more than two years greater than the begin year.

GEOGRAPHIC SUMMARY AREA IS REQUIRED FOR THE REPORT
Geographic summary area (MSA or URBAN-AREA) must be selected.

INTERVAL IS INVALID FOR THE PARAMETER
The combination of interval and parameter code is not valid.

INTERVAL IS REQUIRED FOR THIS REPORT
Interval must be entered.

PARAMETER IS REQUIRED FOR THIS REPORT
Parameter must be entered.

PLEASE CHOOSE ONLY ONE GEOGRAPHIC SUMMARY AREA
Multiple Geographic Summary Areas are not allowed.

PLEASE CHOOSE ONLY ONE PARAMETER
Multiple PARAMETER codes are not allowed.

PLEASE CHOOSE ONLY ONE REPORT TYPE
Do not enter more than one report type.

PLEASE CHOOSE ONLY ONE SUMMARY STATISTIC
Multiple summary statistics are not allowed.

PLEASE CHOOSE OPTION 1 OR 2 FOR OUTPUT
Either a printed report (option 1), a work file (option 2), or both must be selected for report output.

PLEASE ENTER A NUMERIC BEGIN-YEAR
The begin year entered must be numeric.

PLEASE ENTER A NUMERIC END-YEAR
The end year entered must be numeric.

PLEASE ENTER A VALID DATASET NAME
If a work file is selected, a dataset name must be specified.

PLEASE ENTER AN END-YEAR THAT IS GREATER THAN OR EQUAL TO THE BEGIN-YEAR
The end year must be greater than or equal to the begin year.

PLEASE ENTER BLANK OR 'X'
The only valid entries for the report options are blank and 'X'.

PLEASE USE A VALID PF-KEY
A PF key not defined for this screen was used.

REPORT BEGINNING YEAR IS REQUIRED FOR THIS REPORT
Report begin year must be entered.

REPORT ENDING YEAR IS REQUIRED FOR THIS REPORT
Report end year must be entered.

REPORT TYPE IS REQUIRED FOR THIS REPORT
Report type must be entered.

SUMMARY STATISTIC IS INVALID FOR THE PARAMETER/INTERVAL(S) COMBINATION
The summary statistic is not valid for the parameter/interval(s) combination entered.

5.16.3 Data Selection Options

The user may select which monitors are included in the Fact Book Report using the select criteria screen. Figure 5-57 shows a sample select criteria screen. The leftmost portion of the screen is shown at the top of the figure and the rightmost portion is shown at the bottom.

The fields "parameter," "interval," "begin year" and "end year" are filled in for each line of selection criteria, based on entries made on the report options screen.

The user may use any one of the following combinations of geographic selection fields:

state (code or abbreviation)
state + county
state + county + site
state + reporting organization
state + city
state + AQCR
AQCR
urban area
MSA
CMSA
MSA-rep
CMSA-rep
status area

In addition to the monitor type codes listed in Volume GC2 of the AIRS User's Guide, you may use the code "B" to select both NAMS and SLAMS monitors and code "P" to select PAMS monitors.

Online Help is available for all of the selection criteria fields except BEGIN-DATE and END-DATE. The Help facility allows you to browse through tables of values, with descriptions, for the codes you need to enter, and then to select the value that you wish to use. The Help facility is described in detail in Section 3.6.4.

Warning

The Fact Book Report is written to provide the maximum summary statistic for an area (MSA or URBAN-AREA) for each year in the selected year range. The selected year range can not be more than three years. The optional work file will contain data printed on the report (without the footnotes) plus additional data.

The "method" field is used in the selection process if and only if the user places a value in the field.

If the area (MSA or URBAN-AREA) is blank for a particular monitor that was selected, the report will not contain any summary data from that monitor.

```
10/26/92                    AIRS Air Quality Subsystem                    AMP420B
                                 Select Criteria                          Page 1/2

Report Name:   FACT BOOK                                                  Criteria Name:

                                PARA-                    BEGIN  END  MON                    REP  URBAN
 ST  CNTY  SITE                 METER  METH INTS          YEAR   YEAR TYPE  CITY      AQCR  ORG  AREA
 __  ___   _____                11101  ___  7             92     92   _     _______   ____  ___  ____
 __  ___   _____                       ___                             _     _______   ____  ___  ____
 __  ___   _____                       ___                             _     _______   ____  ___  ____
 __  ___   _____                       ___                             _     _______   ____  ___  ____
 __  ___   _____                       ___                             _     _______   ____  ___  ____
 __  ___   _____                       ___                             _     _______   ____  ___  ____
 __  ___   _____                       ___                             _     _______   ____  ___  ____
 __  ___   _____                       ___                             _     _______   ____  ___  ____
 __  ___   _____                       ___                             _     _______   ____  ___  ____
 __  ___   _____                       ___                             _     _______   ____  ___  ____

PF1=help   PF2=duplicate   PF3=end  PF4=main menu   PF5=terminate   PF6=rpt options
PF7=back   PF8=more        PF9=save criteria        PF10=left       PF11=right
```

```
10/26/92                    AIRS Air Quality Subsystem                    AMP420B
                                 Select Criteria                          Page 2/2

Report Name:   FACT BOOK                                                  Criteria Name:

                    MSA    CMSA   STATUS
 MSA   CMSA         REP    REP    AREA
 ____  ____         ____   ____   ____
 ____  ____         ____   ____   ____
 ____  ____         ____   ____   ____
 ____  ____         ____   ____   ____
 ____  ____         ____   ____   ____
 ____  ____         ____   ____   ____
 ____  ____         ____   ____   ____
 ____  ____         ____   ____   ____
 ____  ____         ____   ____   ____
 ____  ____         ____   ____   ____

PF1=help   PF2=duplicate   PF3=end  PF4=main menu   PF5=terminate   PF6=rpt options
PF7=back   PF8=more        PF9=save criteria        PF10=left       PF11=right
```

Figure 5-57. Select Criteria Screen for the Fact Book Report

Instructions

Enter selection criteria into the available fields on the select criteria screen, or alter the previously saved criteria displayed on the screen. The user must specify criteria in at least one line on the screen. Press the ENTER key when you have finished entering or altering the criteria.

Read Section 3.6.3 if you are not familiar with how to use the select criteria screen. Refer to Volume GC2 of the AIRS User's Guide for lists of valid codes to use for selection criteria.

Press PF1=help for general information about the select criteria process. For Field-specific Help, enter a "?" in the first position of any field (except SITE, BEGIN-DATE, or END-DATE).

Error Messages

The error messages listed below (in alphabetical order) are displayed at the top of the select criteria screen if you make a mistake in specifying selection criteria. See Volume GC4 of the AIRS User's Guide for explanations of the error messages that you may encounter while using Field-specific Help.

A PARAMETER IS REQUIRED FOR STATUS-AREA CODE
If status area is entered, parameter must be entered.

A STATE IS REQUIRED FOR CITY
If city is entered, state must be entered.

A STATE IS REQUIRED FOR COUNTY
If county is entered, state must be entered.

A STATE IS REQUIRED FOR REPORT-ORG
If reporting organization is entered, state must be entered.

ENTER SELECTION CRITERIA OR USE A PF-KEY TO ESCAPE
ENTER was pressed without any selection criteria specified. Either specify criteria and press ENTER or use one of the valid PF keys to transfer to another screen or terminate the AIRS session.

PF2 INVALID - MAXIMUM NUMBER OF SELECTION CRITERIA HAS BEEN SPECIFIED
Do not press PF2 when the last select criteria screen is full.

PF2 INVALID - THERE ARE NO SELECTION CRITERIA TO DUPLICATE
Do not press PF2 without entering at least one selection criterion.

PF7 INVALID - THIS IS THE FIRST SELECT CRITERIA SCREEN
Do not press PF7 from the first select criteria screen; it is used to page backward.

PF8 INVALID - THIS IS THE FINAL SELECT CRITERIA SCREEN
Do not press PF8 from the last select criteria screen; it is used to page forward.

PF10 INVALID - THIS IS THE LEFT-MOST SELECT CRITERIA SCREEN
Do not press PF10 while the leftmost select criteria screen is displayed.

PF11 INVALID - THIS IS THE RIGHT-MOST SELECT CRITERIA SCREEN
Do not press PF11 while the rightmost select criteria screen is displayed.

PLEASE DO NOT ENTER BOTH STATE AND CMSA CODE
Do not enter both state and CMSA code.

PLEASE DO NOT ENTER BOTH STATE AND CMSA-REP CODE
Do not enter both state and CMSA-rep code.

PLEASE DO NOT ENTER BOTH STATE AND MSA CODE
Do not enter both state and MSA code.

PLEASE DO NOT ENTER BOTH STATE AND MSA-REP CODE
Do not enter both state and MSA-rep code.

PLEASE DO NOT ENTER BOTH STATE AND STATUS-AREA CODE
Do not enter both state and status area code.

PLEASE DO NOT ENTER BOTH STATE AND URBAN-AREA CODE
Do not enter both state and urban area.

PLEASE ENTER A VALID AQCR CODE
The AQCR code is not valid.

PLEASE ENTER A VALID CITY CODE
The combination of city and state codes is not valid.

PLEASE ENTER A VALID CMSA CODE
The CMSA code entered must be in the AIRS GEO-COMMON File.

PLEASE ENTER A VALID CMSA-REP CODE
The CMSA-rep code entered must be in the AIRS GEO-COMMON File.

PLEASE ENTER A VALID COUNTY CODE
The combination of county and state codes is not valid.

PLEASE ENTER A VALID METHOD CODE
The combination of method and parameter codes is not valid.

PLEASE ENTER A VALID MONITOR-TYPE CODE

The monitor type code is not valid. Use a code listed in Volume GC2, or use "B" to select both NAMS and SLAMS monitor types or "P" to select PAMS monitor types.

PLEASE ENTER A VALID MSA CODE

The MSA code entered must be in the AIRS GEO-COMMON File.

PLEASE ENTER A VALID MSA-REP CODE

The MSA-rep code entered must be in the AIRS GEO-COMMON File.

PLEASE ENTER A VALID REPORT-ORG

The combination of reporting organization and state is not valid.

PLEASE ENTER A VALID SITE CODE

The combination of state, county, and site does not match any existing site-ID in the Site file.

PLEASE ENTER A VALID STATE ABBREVIATION

The state abbreviation is not valid.

PLEASE ENTER A VALID STATE CODE

The state code is not valid.

PLEASE ENTER A VALID STATUS-AREA CODE FOR PARAMETER

The combination of status area and parameter entered must be in the AIRS GEO-COMMON File.

PLEASE ENTER A VALID URBAN-AREA CODE

The urban area code is not valid.

PLEASE ENTER ONLY ONE: AQCR, URBAN-AREA, CITY, REPORT-ORG, COUNTY, MSA, CMSA, MSA-REP, CMSA-REP, OR STATUS-AREA

Only the combinations of geographic selection criteria listed at the beginning of this section are valid.

PLEASE FILL ALL LINES BEFORE GOING ON TO THE NEXT SCREEN

PF8 is valid only when the current screen is full or when there are more criteria on a subsequent screen.

PLEASE USE A VALID PF-KEY

A PF key not defined for this screen was used.

STATUS-AREA CODE NOT ALLOWED WITH THIS PARAMETER

A status code was entered for a parameter that does not allow entry of a status area.

THE COUNTY CODE IS REQUIRED WITH THE SITE CODE

If site is entered, county must be entered.

5.16.4 Data Sorting Options

The Fact Book Report has four fixed sort orders that a user cannot change. Therefore, the Fact Book Report program does not display a sort criteria screen. The sort sequence will vary depending on the report option chosen. If the user chooses the population-ordered report, the sort order is:

Population (of MSA or urban area, in descending order)
Geographic area (MSA or urban area)
Date (year)
Summary Statistic Value

If the user chooses the region report, the sort order is:

Region
Geographic Area (MSA or urban area)
Population (of MSA or urban area, in descending order)
Date (year)
Summary Statistic Value

5.17 Data Completeness Report (AMP430)

5.17.1 Description

The Data Completeness Report summarizes the amount of data reported for pollutants by air quality monitors. It has three parts. The first part lists criteria pollutant monitors that reported no data during a user-specified time period. The second part lists monitors that did report data, how many values and the percentage of possible values reported, and how many gaps of at least seven days occurred between observations. The third part presents state and regional summaries of the information in the first two parts of the report for criteria pollutants.

If the monitor type selected is not effective for the complete user-specified time period, then the effective dates for the monitor type within the specified time period will be used to determine data completeness. This rule does not apply to total suspended particulate and lead monitors.

If the selected monitors are not effective for the complete user-specified time period, the monitors are not considered when Percent of Monitors Meeting Summary Criteria is determined.

If the selected monitor is valid for a partial month, the month will be flagged with an "&" and a footnote indicating partial month valid will appear on the report.

The monthly PM-10 data completeness is based on the valued strata for the sampling frequency divided by the number of scheduled samples for the sampling frequency (based on calendar days in the month).

The yearly PM-10 data completeness is based on valued strata for the sampling frequency divided by the number of scheduled samples for the sampling frequency (based on calendar days in the quarter).

For PM-10 monitors, the size of the first and last fixed strata of a quarter/month may be < (partial strata) or > (partial strata plus adjacent complete strata) the stratum size. The strata will only be > the stratum size, 1) there are at least one valid RDR data value in the partial strata and unscheduled samples in the partial strata or 2) the adjacent complete strata has more than one valid RDR data value and the partial strata contains an exceedance. Otherwise, the stratum sizes for the first or last strata will be < the stratum size and processed as a "complete" strata.

For PM-10 monitors with a monthly or quarterly minimum sampling frequency of '6', the expected number of daily samples will be used to determine data completeness.

Figure 5-58 shows a sample Data Completeness Report.

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AMP430
AIRS QUALITY SUBSYSTEM
DATA COMPLETENESS REPORT

OTHER MONITORS NOT REPORTING DATA
FROM 01/01/89 THRU 12/31/89
STATE (25) MASSACHUSETTS

SITE ID	POC	LOCATION	TSP	PB	CO	SO2	NO2	O3	PM-10
25-013-2007	1	SPRINGFIELD	X#						
25-025-0002	1	BOSTON	X#						
25-025-0027	2	BOSTON	X#						
STATE 25 TOTAL			3						

CONSIDER FOR SUMMARY CRITERIA (#)

Figure 5-58. Data Completeness Report - Monitors Not Reporting Data (1 of 4)

DATE: 93/09/16 EPA AEROMETRIC INFORMATION RETRIEVAL SYSTEM (AIRS) PAGE 1
AMP430
AIRS QUALITY SUBSYSTEM
DATA COMPLETENESS REPORT

NAMS MONITORS REPORTING DATA
FROM 01/01/89 THRU 12/31/89

STATE (25) MASSACHUSETTS

SITE ID / CITY NAME / ADDRESS	POLL	POC	INTERVAL	METHOD	OBSERVATIONS NUMBER / PERCENT JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	# OF 7-DAY GAPS
25-017-7002	TSP	1	7	091	5	5	5	5	5	5	5	5	5	5	5	0	55	0
WOBURN					100	100	100	100	100	100	100	100	100	100	100&	0	10C	
WOBURN STREET AND MONTVALE AVENUE																		
25-021-0007	TSP	1	7	091	5	5	5	5	5	5	2	0	0	0	0	0	32	0
QUINCY					100	100	100	100	100	100	40&	0	0	0	0	0	9%	
HANCOCK STREET																		
25-025-0012	TSP	1	7	091	5	5	5	5	5	5	4	5	5	6	4	5	59	0
BOSTON					100	100	100	100	100	100	80	100	100	120	80	100	98#	
115 SOUTHAMPTON STREET																		
25-025-0021	TSP	1	7	091	5	5	5	5	5	5	2	0	0	0	0	0	32	0
BOSTON					100	100	100	100	100	100	40&	0	0	0	0	0	9%	
340 BREMAN STREET, EAST BOSTON																		

7-DAY GAP INDICATOR (*) CONSIDER FOR SUMMARY CRITERIA (#) PARTIAL MONTH VALID (&)

Figure 5-58. Data Completeness Report - Monitors Reporting Data (2 of 4)

DATE: 93/09/16
AMP430

EPA AEROMETRIC INFORMATION RETRIEVAL SYSTEM (AIRS)
AIRS QUALITY SUBSYSTEM
DATA COMPLETENESS REPORT

PAGE 1

STATE SUMMARY OF NAMS MONITORS REPORTING DATA
FROM 01/01/89 THRU 12/31/89
STATE (25) MASSACHUSETTS

	TSP	PB	CO	SO2	NO2	O3	PM-10	TOTAL
NUMBER OF MONITORS	4	0	0	0	0	0	0	4
NUMBER OF MONITORS CONSIDERED FOR SUMMARY CRITERIA	1	0	0	0	0	0	0	1
NUMBER OF MONITORS MEETING SUMMARY CRITERIA	1	0	0	0	0	0	0	1
PERCENT OF MONITORS MEETING SUMMARY CRITERIA	100	0	0	0	0	0	0	100
NUMBER OF MONITORS WITH AT LEAST 1 7-DAY GAP	0	0	0	0	0	0	0	0
NUMBER OF 7-DAY GAPS	0	0	0	0	0	0	0	0
NUMBER OF MONITORS NOT REPORTING ANY DATA	0	0	0	0	0	0	0	0
AVERAGE COMPLETENESS OF ALL MONITORS	98	0	0	0	0	0	0	98

Figure 5-58. Data Completeness Report - State Summary (3 of 4)

DATE: 93/09/16
AMP430

EPA AEROMETRIC INFORMATION RETRIEVAL SYSTEM (AIRS)
AIRS QUALITY SUBSYSTEM
DATA COMPLETENESS REPORT

PAGE 1

REGIONAL SUMMARY NAMS MONITORS REPORTING DATA
FROM 01/01/89 THRU 12/31/89
REGION (01)

	TSP	PB	CO	SO2	NO2	O3	PM-10	TOTAL
NUMBER OF MONITORS	4	0	0	0	0	0	0	4
NUMBER OF MONITORS CONSIDERED FOR SUMMARY CRITERIA	1	0	0	0	0	0	0	1
NUMBER OF MONITORS MEETING SUMMARY CRITERIA	1	0	0	0	0	0	0	1
PERCENT OF MONITORS MEETING SUMMARY CRITERIA	100	0	0	0	0	0	0	100
NUMBER OF MONITORS WITH AT LEAST 1 7-DAY GAP	0	0	0	0	0	0	0	0
NUMBER OF 7-DAY GAPS	0	0	0	0	0	0	0	0
NUMBER OF MONITORS NOT REPORTING ANY DATA	0	0	0	0	0	0	0	0
AVERAGE COMPLETENESS OF ALL MONITORS	98	0	0	0	0	0	0	98

Figure 5-58. Data Completeness Report - Region Summary (4 of 4)

5.17.2 Report Generation Options

The options available for the Data Completeness Report have to do with the output medium (printed report or work file). The report options screen, shown in Figure 5-59, allows you to select the type(s) of output or content you want.

The default option is to generate all possible printed reports to process data for criteria pollutants only, to base ozone data completeness on daily maximum values (rather than hourly values) for the entire year (rather than just the ozone season), and use 60 observations per year as the expected number of daily samples (excluding PM-10 with minimum sampling frequency other than '6'). If you are using report criteria for the Data Completeness Report that you saved previously, your saved specifications for report options are displayed instead of the default.

The work file format for this report is given in Volume AQ1.

```
07/20/92                  AIRS Air Quality Subsystem                  AMP430A
                               Report Options

Report Name:  DATA COMPLETENESS                          Criteria Name:

      Choose at least one output    (Enter X)

          _ 1.  Generate a Workfile (Enter Name Below):
                iiiaaaa . ________ . ________ . ________ . ________

          X 2.  Generate Printed Reports:
                  Monitors Not Reporting Data
                  Monitors Reporting Data
                  State and Regional Summaries

      Specify additional Option(s)
          X 3.  List Criteria Pollutants only
          D 4.  Specify Hourly or Daily values for Ozone (Enter H or D)
          A 5.  Report Annual or Seasonal basis for Ozone (Enter A or S)
        060 6.  Expected daily samples during selected time period
                (excluding PM-10) (Range 1 to 366)

    PF3=end      PF4=main menu      PF5=terminate      PF9=save criteria
```

Figure 5-59. Report Options Screen for the Data Completeness Report

Instructions

You must choose at least one type of output:

option 1	generate a work file
option 2	generate printed reports: monitors not reporting data monitors reporting data state and regional summaries

You must specify a value for each of the following additional options, which are initialized with default values or previously saved specifications:

option 3	select criteria pollutants only
option 4	specify hourly or daily values for ozone
option 5	report annual or seasonal basis for ozone
option 6	expected daily samples (excluding PM-10)

If selected, the work file has records for both reporting criteria and non-criteria pollutant monitors and non-reporting criteria pollutants monitors and does not have summary records.

Option 3 will restrict data processing to criteria pollutants only.

Options 4 and 5 pertain to ozone, although you must specify a value for them even if you are not selecting ozone data. Option 4 selects either hourly values or daily maximum values as the basis for data completeness tests. Option 5 selects either the whole year or just the ozone season as the time period for the data completeness tests.

Option 6 pertains to daily data for all pollutants (excluding PM-10), and specifies the number of observations per year to be used as the criterion for data completeness. The monthly number of observations for data completeness is derived by dividing the number of observations per year by the number of months in the user-specified time period.

Error Messages

The error messages listed below (in alphabetical order) are displayed at the top of the report options screen if you make a mistake in specifying report options.

DATASET NAME IS INVALID

The work file dataset name is not valid. Refer to Section 3.6.2 of this volume for a description of dataset naming conventions.

DATASET NAME NOT ALLOWED WITHOUT SPECIFYING OPTION 1

If a work file is not selected as an output, a dataset name must not be entered.

PLEASE CHOOSE OPTION 1 OR 2 FOR OUTPUT
Either a work file (option 1) or printed reports (option 2) must be selected as a report output.

PLEASE ENTER 'A' OR 'S' FOR OPTION 5
The only valid entries are A (annual) and S (seasonal).

PLEASE ENTER 'H' OR 'D' FOR OPTION 4
The only valid entries are H (hourly) and D (daily).

PLEASE ENTER A VALID DATASET NAME
If a work file is selected, a dataset name must be specified.

PLEASE ENTER A VALUE BETWEEN 1 AND 366
The expected number of daily samples for the year must be in the range 1 through 366.

PLEASE ENTER BLANK OR 'X'
The only valid entries for the report options 1 - 6 are blank and X.

PLEASE USE A VALID PF-KEY
A PF key not defined for this screen was used.

5.17.3 Data Selection Options

You may select which monitors are included in the Data Completeness Report using the select criteria screen. A sample screen is shown in Figure 5-60. The leftmost portion of the screen is shown at the top of the figure and the rightmost portion is shown at the bottom.

There are three groups of selection criteria. The first group consists of "geographic" criteria. Only certain combinations of these fields are allowed. You may use any one of the following combinations of geographic selection fields:

state (code or abbreviation)
state + county
state + county + site
state + reporting organization
state + city
state + AQCR
AQCR
urban area
MSA
CMSA
MSA-rep
CMSA-rep
status area

The second group of selection criteria consists of the following optional fields:

parameter
method
interval
monitor type

The third group of selection criteria consists of the following required fields:

begin date (year, month, and day)
end date (year, month, and day)

In a given line on the select criteria screen, you must specify all the fields in the third group of selection criteria and either parameter or one of the geographic criteria in the first group. You may use any of the criteria in the second group in addition to other criteria. If you specify method, you must also specify parameter.

In addition to the monitor type codes listed in Volume GC2 of the AIRS User's Guide, you may use the code "B" to select both NAMS and SLAMS monitors and code "P" to select PAMS monitors.

```
10/26/92                    AIRS Air Quality Subsystem                    AMP430B
                                Select Criteria                           Page 1/2

Report Name:   DATA COMPLETENESS                          Criteria Name:

                                                BEGIN   END
                                                DATE    DATE    MON
 ST  CNTY  SITE  PARA-METER  METH  INT          YYMMDD  YYMMDD  TYPE  CITY  AQCR  REP ORG  URBAN AREA
 __  ___   ____  _________    ____  _           ______  ______  _     ____  ___   ____     ____
 __  ___   ____  _________    ____  _           ______  ______  _     ____  ___   ____     ____
 __  ___   ____  _________    ____  _           ______  ______  _     ____  ___   ____     ____
 __  ___   ____  _________    ____  _           ______  ______  _     ____  ___   ____     ____
 __  ___   ____  _________    ____  _           ______  ______  _     ____  ___   ____     ____
 __  ___   ____  _________    ____  _           ______  ______  _     ____  ___   ____     ____
 __  ___   ____  _________    ____  _           ______  ______  _     ____  ___   ____     ____
 __  ___   ____  _________    ____  _           ______  ______  _     ____  ___   ____     ____
 __  ___   ____  _________    ____  _           ______  ______  _     ____  ___   ____     ____
 __  ___   ____  _________    ____  _           ______  ______  _     ____  ___   ____     ____

PF1=help    PF2=duplicate   PF3=end  PF4=main menu   PF5=terminate   PF6=rpt options
PF7=back    PF8=more        PF9=save criteria       PF10=left       PF11=right
```

```
10/26/92                    AIRS Air Quality Subsystem                    AMP430B
                                Select Criteria                           Page 2/2

Report Name:   DATA COMPLETENESS                          Criteria Name:

                        MSA     CMSA    STATUS
 MSA   CMSA             REP     REP     AREA
 ____  ____             ____    ____    ____
 ____  ____             ____    ____    ____
 ____  ____             ____    ____    ____
 ____  ____             ____    ____    ____
 ____  ____             ____    ____    ____
 ____  ____             ____    ____    ____
 ____  ____             ____    ____    ____
 ____  ____             ____    ____    ____
 ____  ____             ____    ____    ____
 ____  ____             ____    ____    ____

PF1=help    PF2=duplicate   PF3=end  PF4=main menu   PF5=terminate   PF6=rpt options
PF7=back    PF8=more        PF9=save criteria       PF10=left       PF11=right
```

Figure 5-60. Select Criteria Screen for the Data Completeness Report

Specify dates as year, month, and day (YYMMDD format). Valid dates are January 1, 1957, through any valid date. Unlike most other AIRS reports, **you must enter the same year in both the begin date and end date** fields in a given line on the select criteria screen.

All monitors (except for secured monitors) may be specified for the reports. If no monitor type is specified, all monitors are selected.

Only criteria pollutants may be selected if the Report Generation Option, Select Criteria Pollutants Only is selected; otherwise, all pollutants will be selected.

Online Help is available for all of the selection criteria fields except BEGIN-DATE and END-DATE. The Help facility allows you to browse through tables of values, with descriptions, for the codes you need to enter, and then to select the value that you wish to use. The Help facility is described in detail in Section 3.6.4.

Warning

The Data Completeness process is written to expect only one year per state to be selected for any given run. If more than one year for a given state is selected, all reports produced will be erroneous. Data for all years will be included on each report, regardless of the dates in the heading. However, the work file will contain records for each monitor and year selected and will be sorted in the order requested on the sort criteria screen.

You may specify interval without specifying parameter. In that case, you may use any one of the allowed interval codes.

Although you may select on reporting organization, urban area, and AQCR, they do not appear in the report.

Instructions

Enter selection criteria into the available fields on the select criteria screen, or alter the previously saved criteria displayed on the screen if you wish. You must specify criteria in at least one line on the screen. Press the ENTER key when you have finished entering or altering the criteria.

Read Section 3.6.3 if you are not familiar with how to use the select criteria screen. Refer to Volume GC2 of the AIRS User's Guide for lists of valid codes to use for selection criteria.

Press PF1=help for general information about the select criteria process. For Field-specific Help, enter a "?" in the first position of any field (except BEGIN-DATE or END-DATE).

Error Messages

The error messages listed below (in alphabetical order) are displayed at the top of the select criteria screen if you make a mistake in specifying selection criteria. See Volume GC4 of the AIRS User's Guide for explanations of the error messages that you may encounter while using Field-specific Help.

A PARAMETER IS REQUIRED FOR STATUS-AREA CODE
If status area is entered, parameter must be entered.

A STATE IS REQUIRED FOR CITY
If city is entered, state must be entered.

A STATE IS REQUIRED FOR COUNTY
If county is entered, state must be entered.

A STATE IS REQUIRED FOR REPORT-ORG
If reporting organization is entered, state must be entered.

BEGIN AND END YEAR MUST BE THE SAME
For a single select line, the begin and end years must be the same.

BEGIN-DATE < 570101 OR > CURRENT DATE
Begin date must be in the range January 1, 1957 through the current date.

BEGIN-END YEAR IS ARCHIVED
Begin and end dates must not specify a year for which data has been archived (removed from the raw data files).

ENTER SELECTION CRITERIA OR USE A PF-KEY TO ESCAPE
ENTER was pressed without any selection criteria specified. Either specify criteria and press ENTER or use one of the valid PF keys to transfer to another screen or terminate the AIRS session.

OPTION "LIST CRITERIA POLL'S ONLY" SELECTED, NON-CRITERIA POLL ENTERED
The report option for criteria pollutant data only was selected; therefore, no non-criteria pollutant code may be entered.

PF2 INVALID - MAXIMUM NUMBER OF SELECTION CRITERIA HAS BEEN SPECIFIED
Do not press PF2 when the last select criteria screen is full.

PF2 INVALID - THERE ARE NO SELECTION CRITERIA TO DUPLICATE
Do not press PF2 without entering at least one selection criterion.

PF7 INVALID - THIS IS THE FIRST SELECT CRITERIA SCREEN
Do not press PF7 from the first select criteria screen; it is used to page backward.

PF8 INVALID - THIS IS THE FINAL SELECT CRITERIA SCREEN
Do not press PF8 from the last select criteria screen; it is used to page forward.

PF10 INVALID - THIS IS THE LEFT-MOST SELECT CRITERIA SCREEN
Do not press PF10 while the leftmost select criteria screen is displayed.

PF11 INVALID - THIS IS THE RIGHT-MOST SELECT CRITERIA SCREEN
Do not press PF11 while the rightmost select criteria screen is displayed.

PLEASE DO NOT ENTER BOTH STATE AND CMSA CODE
Do not enter both state and CMSA code.

PLEASE DO NOT ENTER BOTH STATE AND CMSA-REP CODE
Do not enter both state and CMSA-rep code.

PLEASE DO NOT ENTER BOTH STATE AND MSA CODE
Do not enter both state and MSA code.

PLEASE DO NOT ENTER BOTH STATE AND MSA-REP CODE
Do not enter both state and MSA-rep code.

PLEASE DO NOT ENTER BOTH STATE AND STATUS-AREA CODE
Do not enter both state and status area code.

PLEASE DO NOT ENTER BOTH STATE AND URBAN-AREA CODE
Do not enter both state and urban area as select criteria.

PLEASE ENTER A NUMERIC BEGIN-DATE
The begin date entered must be numeric.

PLEASE ENTER A NUMERIC END-DATE
The end date entered must be numeric.

PLEASE ENTER A PARAMETER CODE WITH THE METHOD CODE
If method is entered, parameter must be entered.

PLEASE ENTER A VALID AQCR CODE
The AQCR code is not valid.

PLEASE ENTER A VALID CITY CODE
The combination of city and state codes is not valid.

PLEASE ENTER A VALID CMSA CODE
The CMSA code entered must be in the AIRS GEO-COMMON File.

PLEASE ENTER A VALID CMSA-REP CODE
The CMSA-rep code entered must be in the AIRS GEO-COMMON File.

PLEASE ENTER A VALID COUNTY CODE
The combination of county and state codes is not valid.

PLEASE ENTER A VALID INTERVAL CODE
The interval entered must exist in the Description record in the AIRS GEO-COMMON File.

PLEASE ENTER A VALID INTERVAL FOR THE PARAMETER CODE
The combination of interval and parameter codes is not valid.

PLEASE ENTER A VALID METHOD CODE
The combination of method and parameter codes is not valid.

PLEASE ENTER A VALID MONITOR-TYPE CODE
The monitor type code is not valid. Use a code listed in Volume GC2, or use "B" to select both NAMS and SLAMS monitor types or "P" to select PAMS monitor types.

PLEASE ENTER A VALID MSA CODE
The MSA code entered must be in the AIRS GEO-COMMON File.

PLEASE ENTER A VALID MSA-REP CODE
The MSA-rep code entered must be in the AIRS GEO-COMMON File.

PLEASE ENTER A VALID REPORT-ORG
The combination of reporting organization and state is not valid.

PLEASE ENTER A VALID SITE CODE
The combination of state, county, and site does not match any existing site-ID in the Site file.

PLEASE ENTER A VALID STATE ABBREVIATION
The state abbreviation is not valid.

PLEASE ENTER A VALID STATE CODE
The state code is not valid.

PLEASE ENTER A VALID STATUS-AREA CODE FOR PARAMETER
The combination of status area and parameter entered must be in the AIRS GEO-COMMON File.

PLEASE ENTER A VALID URBAN-AREA CODE
The urban area code is not valid.

PLEASE ENTER A VALID 6-DIGIT BEGIN-DATE
The begin date entered must be a valid Gregorian date in YYMMDD format.

PLEASE ENTER A VALID 6-DIGIT END-DATE

The end date entered must be a valid Gregorian date in YYMMDD format.

PLEASE ENTER AN END-DATE THAT IS GREATER THAN OR EQUAL TO THE BEGIN-DATE

The end date must be greater than or equal to the begin date.

PLEASE ENTER ONE: STATE, PARAMETER, AQCR, URBAN-AREA, MSA, CMSA, MSA-REP, CMSA-REP, OR STATUS AREA

One of the geographic criteria or parameter must be used in each line of select criteria.

PLEASE ENTER ONLY ONE: AQCR, URBAN-AREA, CITY, REPORT-ORG, COUNTY, MSA, CMSA, MSA-REP, CMSA-REP, OR STATUS-AREA

Only the combinations of geographic selection criteria listed at the beginning of this section are valid.

PLEASE FILL ALL LINES BEFORE GOING ON TO THE NEXT SCREEN

PF8 is valid only when the current screen is full or when there are more criteria on a subsequent screen.

PLEASE USE A VALID PF-KEY

You used a PF key not defined for this screen.

REPORT BEGINNING DATE IS REQUIRED FOR THIS REPORT

Report begin date must be entered.

REPORT ENDING DATE IS REQUIRED FOR THIS REPORT

Report end date must be entered.

STATUS-AREA CODE NOT ALLOWED WITH THIS PARAMETER

A status area was entered for a parameter that does not allow entry of a status area.

THE COUNTY CODE IS REQUIRED WITH THE SITE CODE

If site is entered, county must be entered.

5.17.4 Data Sorting Options

The sort sequence you specify determines the order of monitoring site entries in the Data Completeness report and work file. The sort criteria screen, shown in Figure 5-61, allows you to establish the sort sequence. The default sort sequence is by monitor type, EPA region, state, county, site, parameter, POC, interval, method, date, and reporting organization.

You may alter or delete the existing sort sequence and enter new sort criteria, using any of the numbered fields shown on the screen. All of the sort fields are allowed for this program.

If you wish to have all the monitoring sites for a state on a report page (regardless of monitor type), monitor type should not be selected as the first sort field. If you wish to have monitoring sites grouped by monitor type on a report page, monitor type should be the first sort field. Monitor type will occur on the report header if it is used as the first sort field; otherwise, it will not appear on the report.

```
09/30/92                    AIRS Air Quality Subsystem                    AMP430C
                                 Sort Criteria

Report Name:  DATA COMPLETENESS                          Criteria Name:

    1.  State                    6.  Reporting Org          11.  Method
    2.  County                   7.  Urban Area             12.  Interval
    3.  Site                     8.  EPA Region             13.  Monitor Type
    4.  Parameter                9.  City                   14.  Date
    5.  POC                     10.  AQCR

 Enter the numbers of the Sort Elements above in the desired Sort Sequence:

                  _1  _2  _3  _4  _5  12  14  __  __  __  __  __  __  __

 PF3=end    PF4=main menu    PF5=terminate    PF6=select criteria    PF9=save criteria
```

Figure 5-61. Sort Criteria Screen for the Data Completeness Report

The monitor type, EPA region, state, county, site, parameter, POC, interval, method, date, and reporting organization fields are added to your sort sequence automatically if you do not specify them. This is done to ensure that the sorting process will eliminate any duplicate records from the report. (Duplicates could occur if a monitoring site were selected by more than one of your selection "cards".) The fields are inserted at the end of the sequence you specified.

Instructions

Read Section 3.6.4 of this manual if you are not familiar with how to use the sort criteria screen.

Choose any or all of the allowed sort fields subject to the following rules:

1. If you use EPA region, it must be the first geographic parameter sort field.
2. State must precede county and city.
3. City or county must precede site.
4. Parameter must precede method and POC.

Error Messages

The error messages listed below (in alphabetical order) are displayed at the top of the sort criteria screen if you make a mistake in specifying sort criteria.

CITY OR COUNTY REQUIRED BEFORE SITE

Sorting by site without also specifying county or city was requested, or site was specified before city or county. Since site is meaningful only within county, state and county or state and city must be specified before site in the sort sequence. (If city is specified, county is inserted automatically in the sort sequence just before site.) Add the necessary field(s) to the sort sequence or change the order so site is after city and county.

ERROR - REPEATED SORT CRITERIA

Each sort criterion may be entered only once.

PARAMETER CODE REQUIRED BEFORE METHOD

Method was specified without parameter or they were specified in the wrong order. Add parameter to the sort sequence, eliminate method, or change the order so method follows parameter.

PARAMETER CODE REQUIRED BEFORE POC

POC was specified without parameter or they were specified in the wrong order. Add parameter to the sort sequence, eliminate POC, or change the order so POC follows parameter.

PLEASE ENTER A NUMBER IN THE RANGE 1 THROUGH 14

The sort specification at the cursor is not valid, and must be changed. Valid entries are blank or one of the sort field numbers allowed for this report 1 - 14. Remember that you must enter two digits for each sort specification.

PLEASE USE A VALID PF-KEY

A PF key not defined for this program was pressed.

REGION MUST BE THE FIRST GEOGRAPHIC PARAMETER SORT CRITERION

If EPA region is used, it must be the first geographic parameter sort criterion in the sort sequence. Either make region the first geographic parameter sort criterion or eliminate it from the sort specification.

STATE CODE REQUIRED BEFORE CITY

Sorting by city without also specifying state was requested, or city was specified before state. Since city is meaningful only within state, state must be specified before city in the sort sequence. Add state to the sort sequence, eliminate city, or change the order so city is after state.

STATE CODE REQUIRED BEFORE COUNTY

Sorting by county without also specifying state was requested, or they were specified in the wrong order. Since county is meaningful only within state, state must be specified before county in the sort sequence. Add state to the sort sequence, eliminate county, or change the order so county follows state.

STATE CODE REQUIRED BEFORE REPORT-ORG

Sorting by reporting organization without also specifying state was requested, or reporting organization was specified before state. Since reporting organization is meaningful only within state, state must be specified before reporting organization in the sort sequence. Add state to the sort sequence, eliminate reporting organization, or change the order so reporting organization is after state.

5.18 Maximum Values Report (AMP440)

5.18.1 Description

The Maximum Values Report Program lists the maximum raw data values for pollutants monitored at a site. There are two formats for this report: quarterly and yearly. The quarterly report format lists five maximum values in each quarter for a year. The yearly report format lists 10 maximum values. As an option, the report lists the date and time of occurrence of each of the maximum values. Exceptional event data may be included or excluded. In addition to maximum values, this report lists the total number of observations, the number of observations that exceeded the primary standard, and the probability limits for precision and accuracy of the data.

The last page of the report is a processing summary, which lists the number of records read from the Expanded Monitor File and the number of records written to the Maximum Values work file (if one was output).

Figure 5-62 shows a sample Maximum Values Report.

DATE 93/09/16
AMP440

EPA AEROMETRIC INFORMATION RETRIEVAL SYSTEM (AIRS)
AIR QUALITY SUBSYSTEM
QUARTERLY MAXIMUM VALUES REPORT, 1988

PAGE 1

OZONE (44201)
MASSACHUSETTS

STANDARD USED
0.125 PPM

SITE ID	POC	COUNTY NAME / CITY NAME	METH	QTR	MAXIMUM VALUES AND VALIDITY FLAGS 1 HOUR 1	2	3	4	5	NUM OBS	NUM EXC	PROBABILITY LIMITS PRECISION LOWER	PRECISION UPPER	ACCURACY LOWER	ACCURACY UPPER
25-001-0002	1	BARNSTABLE CC TRURO	014 011	1						0000	0000				
				2	.158 06/15:13	.146 06/21:21	.145 06/14:21	.125 06/13:19	.123 06/16:00	0084	0004				
				3	.182 07/11:16	.158 07/30:21	.135 07/31:00	.128 08/13:16	.126 07/10:14	0088	0008				
				4	.084 10/01:15	.063 10/02:01	.058 10/10:15	.058 10/11:07	.054 10/16:15	0031	0000				
25-005-1001	1	BRISTOL CO EASTON	014	1						0000	0000				
				2	.112 06/13:17	.098 05/28:13	.083 05/23:15	.083 06/28:21	.076 05/27:17	0081	0000				
				3	.153 07/11:18	.129 08/15:14	.114 07/26:11	.114 08/03:12	.113 07/08:14	0085	0002				
				4	.076 10/01:14	.058 10/10:15	.054 10/02:10	.053 10/17:12	.040 10/18:17	0031	0000				
25-005-1002	1	BRISTOL CO FAIRHAVEN	014	1						0000	0000				
				2	.150 06/15:15	.133 06/14:19	.123 06/13:21	.118 06/28:21	.104 06/16:00	0081	0002				
				3	.180 07/11:15	.161 07/30:19	.160 07/29:19	.125 08/07:16	.123 08/13:14	0081	0004				
				4	.072 10/01:12	.067 10/11:03	.063 10/10:19	.060 10/02:00	.058 10/16:14	0030	0000				

Figure 5-62. Maximum Values Report - Quarterly Format With Dates (1 of 4)

DATE 93/09/16 EPA AEROMETRIC INFORMATION RETRIEVAL SYSTEM (AIRS) PAGE 1
AMP440 AIR QUALITY SUBSYSTEM
QUARTERLY MAXIMUM VALUES REPORT, 1988

OZONE (44201) STANDARD USED
MASSACHUSETTS 0.125 PPM

SITE ID	POC	COUNTY NAME / CITY NAME	METH	QTR	MAXIMUM VALUES AND VALIDITY FLAGS 1 HOUR 1	2	3	4	5	NUM OBS	NUM EXC	PROBABILITY LIMITS PRECISION LOWER	PRECISION UPPER	ACCURACY LOWER	ACCURACY UPPER
25-001-0002	1	BARNSTABLE CO TRURO	014 011	1						0000	0000				
				2	.158	.146	.145	.125	.123	0084	0004				
				3	.182	.158	.135	.128	.126	0088	0008				
				4	.084	.063	.058	.058	.054	0031	0000				
25-005-1001	1	BRISTOL CO EASTON	014	1						0000	0000				
				2	.112	.098	.083	.083	.076	0081	0000				
				3	.153	.129	.114	.114	.113	0085	0002				
				4	.076	.058	.054	.053	.040	0031	0000				
25-005-1002	1	BRISTOL CO FAIRHAVEN	014	1						0000	0000				
				2	.150	.133	.123	.118	.104	0081	0002				
				3	.180	.161	.160	.125	.123	0081	0004				
				4	.072	.067	.063	.060	.058	0030	0000				
25-009-0005	1	ESSEX CO LAWRENCE	011	1						0000	0000				
				2	.128	.120	.109	.102	.101	0091	0001				
				3	.144	.126	.125	.123	.117	0091	0003				
				4	.078	.057	.055	.052	.038	0031	0000				
25-009-3102	1	ESSEX CO GLOUCESTER	014	1						0000	0000				
				2	.170	.150	.146	.120	.119	0051	0003				
				3	.165	.143	.135	.131	.126	0087	0005				
				4	.083	.068	.059	.058	.047	0031	0000				

Figure 5-62. Maximum Values Report - Quarterly Format Without Dates (2 of 4)

DATE 93/09/16 EPA AEROMETRIC INFORMATION RETRIEVAL SYSTEM (AIRS) PAGE 1
AMP440 AIR QUALITY SUBSYSTEM
YEARLY MAXIMUM VALUES REPORT, 1988

OZONE (44201) STANDARD USED
MASSACHUSETTS 0.125 PPM

SITE ID	POC	COUNTY NAME / CITY NAME	METH	QTR	MAXIMUM VALUES AND VALIDITY FLAGS 1 HOUR					NUM OBS	NUM EXC	PROBABILITY LIMITS PRECISION LOWER	PRECISION UPPER	ACCURACY LOWER	ACCURACY UPPER
					1	2	3	4	5						
					6	7	8	9	10						
25-001-0002	1	BARNSTABLE CO	014		.182	.158	.158	.146	.145	0203	0012				
		TRURO	011		07/11:16	06/15:13	07/30:21	06/21:21	06/14:21						
					.135	.128	.126	.125	.125						
					07/31:00	08/13:16	07/10:14	06/13:19	07/29:23						
25-005-1001	1	BRISTOL CO	014		.153	.129	.114	.114	.113	0197	0002				
		EASTON			07/11:18	08/15:14	07/26:11	08/03:12	07/08:14						
					.112	.112	.109	.102	.102						
					06/13:17	07/06:12	08/14:12	07/07:13	08/02:12						
25-005-1002	1	BRISTOL CO	014		.180	.161	.160	.150	.133	0192	0006				
		FAIRHAVEN			07/11:15	07/30:19	07/29:19	06/15:15	06/14:19						
					.125	.123	.123	.118	.115						
					08/07:16	06/13:21	08/13:14	06/28:21	07/10:14						
25-009-0005	1	ESSEX CO	011		.144	.128	.126	.125	.123	0213	0004				
		LAWRENCE			08/02:15	06/22:18	07/07:15	07/06:12	07/08:12						
					.120	.117	.117	.116	.113						
					06/16:14	07/11:11	08/03:12	07/16:17	08/01:15						
25-009-3102	1	ESSEX CO	014		.170	.165	.150	.146	.143	0169	0008				
		GLOUCESTER			06/15:13	07/30:13	06/14:14	06/16:14	08/12:14						
					.135	.131	.126	.124	.124						
					07/07:14	07/11:23	07/08:14	07/10:18	07/29:13						
25-009-4003	1	ESSEX CC	014		.180	.159	.158	.139	.134	0209	0007				
		NEWBURYPORT			07/08:13	08/03:14	07/11:12	06/16:14	08/02:14						
					.126	.127	.118	.117	.115						
					07/06:13	07/10:14	07/14:14	07/16:17	07/07:16						

Figure 5-62. Maximum Values Report - Yearly Format With Dates (3 of 4)

DATE 93/09/16 EPA AEROMETRIC INFORMATION RETRIEVAL SYSTEM (AIRS) PAGE 1
AMP440 AIR QUALITY SUBSYSTEM
YEARLY MAXIMUM VALUES REPORT, 1988

OZONE (44201) STANDARD USED
MASSACHUSETTS 0.125 PPM

SITE ID	POC	COUNTY NAME / CITY NAME	METH	QTR	MAXIMUM VALUES AND VALIDITY FLAGS 1 HOUR 1	2	3	4	5	NUM OBS	NUM EXC	PROBABILITY LIMITS PRECISION LOWER	PRECISION UPPER	ACCURACY LOWER	ACCURACY UPPER
					6	7	8	9	10						
25-001-0002	1	BARNSTABLE CO	014		.182	.158	.158	.146	.145	0203	0012				
		TRURO	011		.135	.128	.126	.125	.125						
25-005-1001	1	BRISTOL CO	014		.153	.129	.114	.114	.113	0197	0002				
		EASTON			.112	.112	.109	.102	.102						
25-005-1002	1	BRISTOL CO	014		.180	.161	.160	.150	.133	0192	0006				
		FAIRHAVEN			.125	.123	.123	.118	.115						
25-009-0005	1	ESSEX CO	011		.144	.128	.126	.125	.123	0213	0004				
		LAWRENCE			.120	.117	.117	.116	.113						
25-009-3102	1	ESSEX CO	014		.170	.165	.150	.146	.143	0169	0008				
		GLOUCESTER			.135	.131	.126	.124	.124						
25-009-4003	1	ESSEX CO	014		.180	.159	.158	.139	.134	0209	0007				
		NEWBURYPORT			.128	.127	.118	.117	.115						
25-013-0003	1	HAMPDEN CO	014		.182	.151	.149	.144	.142	0211	0009				
		AGAWAM			.142	.139	.128	.125	.119						
25-013-0008	1	HAMPDEN CO	014		.192	.167	.160	.159	.158	0355	0013				
		CHICOPEE			.156	.151	.137	.136	.135						
25-015-0103	1	HAMPSHIRE CO	014		.165	.162	.140	.135	.132	0204	0007				
		AMHERST			.130	.125	.122	.117	.115						
25-015-4002	1	HAMPSHIRE CO	014		.213	.176	.167	.153	.148	0362	0017				
		WARE			.147	.145	.145	.142	.139						
25-017-1801	1	MIDDLESEX CO	014		.170	.169	.151	.146	.146	0182	0010				
		SUDBURY			.136	.136	.136	.132	.127						
25-017-6001	1	MIDDLESEX CO	014		.139	.138	.137	.127	.117	0193	0004				
		LEXINGTON			.114	.114	.112	.112	.111						
25-023-2001	1	PLYMOUTH CO	014		.152	.151	.136	.133	.132	0197	0006				
		SCITUATE			.125	.124	.123	.120	.117						
25-025-1003	1	SUFFOLK CO	014		.150	.150	.141	.136	.130	0328	0006				
		CHELSEA			.127	.122	.117	.115	.115						
25-027-0019	1	WORCESTER CO	014		.171	.139	.120	.113	.112	0211	0002				
		WORCESTER			.111	.110	.109	.108	.106						

Figure 5-62. Maximum Values Report - Yearly Format Without Dates (4 of 4)

5.18.2 Report Generation Options

The options available on the report options screen (see Figure 5-63) for the Maximum Values Report have to do with the output medium (printed report or work file) and report content (quarterly or yearly format, inclusion of a date/time stamp for maxima, and inclusion of exceptional events data).

The initial values displayed on the report options screen depend on whether you specified the name of a previously stored set of criteria when selecting the Maximum Values Report on the AQ Report Menu Screen. If a stored set of criteria for AMP440 was specified, the report options selected in the stored set of criteria are displayed. Otherwise, the default options are displayed: generate a printed report only, with date/time stamps for maxima, including exceptional event data.

The work file format for this report is given in Volume AQ1.

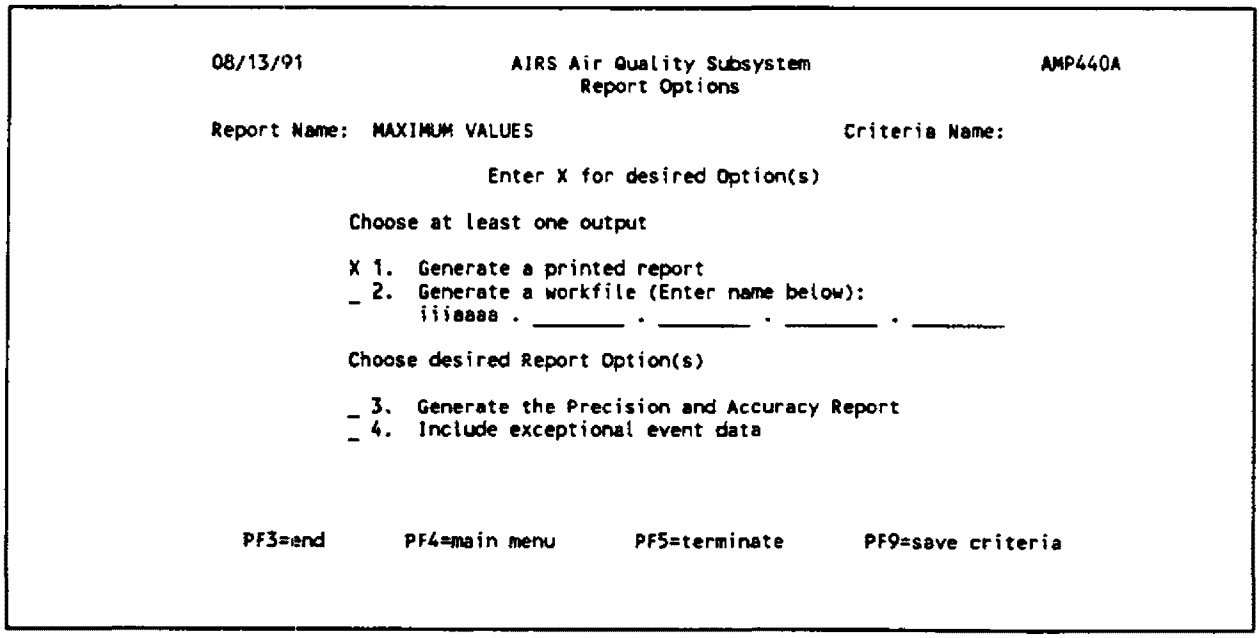

Figure 5-63. Report Options Screen for the Maximum Values Report

Instructions

You must choose at least one type of report output:

option 1	generate a printed report
option 2	generate a work file

If you choose a work file, you must specify a dataset name for it; otherwise you may not specify a dataset name.

You must choose one type of data for the report:

option 3	yearly data
option 4	quarterly data

You may choose any of the following options:

option 5	include date/time of maxima
option 6	include exceptional events data

Read Section 3.6.1 if you are not familiar with how to use the report options screen. Section 3.6.2 describes the characteristics of valid dataset names.

Error Messages

The error messages listed below (in alphabetical order) are displayed at the top of the report options screen if you make a mistake in specifying report options.

DATASET NAME IS INVALID

The work file dataset name is not valid. Refer to Section 3.6.2 of this volume for a description of dataset naming conventions.

DATASET NAME NOT ALLOWED WITHOUT SPECIFYING OPTION 2

If a work file is not selected as an output, a dataset name must not be entered.

PLEASE CHOOSE ONLY ONE OPTION (OPTION 3 OR 4)

Both of these options may not be selected. Choose either option 3 (yearly data) or option 4 (quarterly data).

PLEASE CHOOSE OPTION 1 OR 2 FOR OUTPUT

Either a printed report (option 1) or a work file (option 2) must be selected as a report output.

PLEASE CHOOSE OPTION 3 OR 4

One of these options must be selected. Choose either option 3 (yearly data) or option 4 (quarterly data).

PLEASE ENTER A VALID DATASET NAME

If a work file is selected, a dataset name must be specified.

PLEASE ENTER BLANK OR 'X'

Only blank and X are valid entries for specifying report options.

PLEASE USE A VALID PF-KEY

A PF key not defined for this screen was used.

5.18.3 Data Selection Options

You may selec: which monitors are included in the report using the select criteria screen. A sample screen is shown in Figure 5-64. The leftmost portion of the screen is shown at the top of the figure and the rightmost portion is shown at the bottom.

There are three groups of selection criteria. The first group consists of "geographic" criteria. Only certain combinations of these fields are allowed. You may use any of the following combinations of geographic selection fields:

state (code or abbreviation)
state + county
state + county + site
state + reporting organization
state + city
state + AQCR
AQCR
urban area
MSA
CMSA
MSA-rep
CMSA-rep
status area

The second group of selection criteria consists of the following optional fields:

method
interval (A, B, C, D, G, L, X, Y, Z, 1, 2, 3, 4, 5, 6, 7, 8, 9, or blank)
monitor type

The third group of selection criteria consists of the following required fields:

parameter
begin date
end date

In a given line on the select criteria screen, you must specify all the fields in the third group of selection criteria. In addition, you may use one of the geographic criteria in the first group and/or any of the criteria in the second group.

```
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                                 Select Criteria                          Page 1/2

Report Name:  MAXIMUM VALUES                                  Criteria Name:

                        PARA-                    BEGIN    END   MON                  REP  URBAN
  ST  CNTY  SITE        METER    METH INT  YEAR Q  YEAR Q TYPE  CITY      AQCR       ORG  AREA
  __  ___   ____        _____    ____ _    ____ _  ____ _ ____  _____     ____       ____ ____
  __  ___   ____        _____    ____ _    ____ _  ____ _ ____  _____     ____       ____ ____
  __  ___   ____        _____    ____ _    ____ _  ____ _ ____  _____     ____       ____ ____
  __  ___   ____        _____    ____ _    ____ _  ____ _ ____  _____     ____       ____ ____
  __  ___   ____        _____    ____ _    ____ _  ____ _ ____  _____     ____       ____ ____
  __  ___   ____        _____    ____ _    ____ _  ____ _ ____  _____     ____       ____ ____
  __  ___   ____        _____    ____ _    ____ _  ____ _ ____  _____     ____       ____ ____
  __  ___   ____        _____    ____ _    ____ _  ____ _ ____  _____     ____       ____ ____
  __  ___   ____        _____    ____ _    ____ _  ____ _ ____  _____     ____       ____ ____
  __  ___   ____        _____    ____ _    ____ _  ____ _ ____  _____     ____       ____ ____

PF1=help    PF2=duplicate   PF3=end  PF4=main menu   PF5=terminate   PF6=rpt options
PF7=back    PF8=more        PF9=save criteria       PF10=left       PF11=right
```

```
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                                 Select Criteria                          Page 2/2

Report Name:  MAXIMUM VALUES                                  Criteria Name:

                        MSA    CMSA   STATUS
  MSA   CMSA            REP    REP    AREA
  ____  ____            ____   ____   ____
  ____  ____            ____   ____   ____
  ____  ____            ____   ____   ____
  ____  ____            ____   ____   ____
  ____  ____            ____   ____   ____
  ____  ____            ____   ____   ____
  ____  ____            ____   ____   ____
  ____  ____            ____   ____   ____
  ____  ____            ____   ____   ____
  ____  ____            ____   ____   ____
  ____  ____            ____   ____   ____

PF1=help    PF2=duplicate   PF3=end  PF4=main menu   PF5=terminate   PF6=rpt options
PF7=back    PF8=more        PF9=save criteria       PF10=left       PF11=right
```

Figure 5-64. Select Criteria Screen for the Maximum Values Report

Specify dates as year and quarter (YYQ format). Valid dates are the first quarter of 1957 through any valid year and quarter.

In addition to the monitor type codes listed in Volume GC2 of the AIRS User's Guide, you may use the code "B" to select both NAMS and SLAMS monitors and code "P" to select PAMS monitors.

All criteria pollutants may be specified for the parameter field, and only certain interval codes are allowed for each pollutant. Leave the interval code blank to obtain all interval codes for a specific pollutant. The allowed intervals for each pollutant are as follows:

Pollutant	Parameter	Allowed Intervals
TSP	11101	7 or blank
Pb	12128	7, C, or blank
CO	42101	1, Z, or blank
SO_2	42401	1, 7, X, Y, or blank
NO_2	42602	1, 7, or blank
O_3	44201	1 or blank
PM10	81102	1, 7, X, or blank
Non-criteria		Any interval or blank

Online Help is available for all of the selection criteria fields except BEGIN-DATE and END-DATE. The Help facility allows you to browse through tables of values, with descriptions, for the codes you need to enter, and then to select the value that you wish to use. The Help facility is described in detail in Section 3.6.4.

Instructions

Enter selection criteria into the available fields on the select criteria screen, or alter the previously saved criteria displayed on the screen if you wish. You must specify criteria in at least one line on the screen. Press the ENTER key when you have finished entering or altering the criteria.

Read Section 3.6.3 if you are not familiar with how to use the select criteria screen. Refer to Volume GC2 of the AIRS User's Guide for lists of valid codes to use for selection criteria.

Press PF1=help for general information about the select criteria process. For Field-specific Help, enter a "?" in the first position of any field (except BEGIN-DATE or END-DATE).

Error Messages

The error messages listed below (in alphabetical order) are displayed at the top of the select criteria screen if you make a mistake in specifying select criteria. See Volume GC4 of the AIRS User's Guide for explanations of the error messages that you may encounter while using Field-specific Help.

A PARAMETER IS REQUIRED FOR STATUS-AREA CODE
If status area is entered, parameter must be entered.

A STATE IS REQUIRED FOR CITY
If city is entered, state must be entered.

A STATE IS REQUIRED FOR COUNTY
If county is entered, state must be entered.

A STATE IS REQUIRED FOR REPORT-ORG
If reporting organization is entered, state must be entered.

BEGIN-END YEAR RANGE INCLUDES ARCHIVED YEAR(S)
The requested date range must not include any years for which data has been archived (removed from the raw data files).

BEGIN-QUARTER IS < 1 OR > 4
Begin quarter must be in the range 1 through 4.

BEGIN-YEAR IS ARCHIVED
Begin year must not specify a year for which data has been archived (removed from the raw data files).

BEGIN-YEAR IS < 57 OR > CURRENT YEAR
Begin year must be in the range 57 through current year.

END-QUARTER IS < 1 OR > 4
End quarter must be in the range 1 through 4.

END-QUARTER MUST BE GREATER THAN OR EQUAL TO THE BEGIN-QUARTER
If begin and end years are equal, end quarter must be equal to or greater than begin quarter.

END-YEAR IS ARCHIVED
End year must not specify a year for which data has been archived (removed from the raw data files).

ENTER SELECTION CRITERIA OR USE A VALID PF-KEY TO ESCAPE
ENTER was pressed without any selection criteria specified. Either specify criteria and press ENTER or use one of the valid PF keys to transfer to another screen or terminate the AIRS session.

PF2 INVALID - MAXIMUM NUMBER OF SELECTION CRITERIA HAS BEEN SPECIFIED
Do not press PF2 when the last select criteria screen is full.

PF2 INVALID - THERE ARE NO SELECTION CRITERIA TO DUPLICATE
Do not press PF2 without entering at least one selection criterion.

PF7 INVALID - THIS IS THE FIRST SELECT CRITERIA SCREEN
Do not press PF7 from the first select criteria screen; it is used to page backward.

PF8 INVALID - THIS IS THE FINAL SELECT CRITERIA SCREEN
Do not press PF8 from the last select criteria screen; it is used to page forward.

PF10 INVALID - THIS IS THE LEFT-MOST SELECT CRITERIA SCREEN
Do not press PF10 while the leftmost select criteria screen is displayed.

PF11 INVALID - THIS IS THE RIGHT-MOST SELECT CRITERIA SCREEN
Do not press PF11 while the rightmost select criteria screen is displayed.

PARAMETER CODE IS REQUIRED FOR THIS REPORT
Parameter must be entered as a select criterion.

PLEASE DO NOT ENTER BOTH STATE AND CMSA CODE
Do not enter both state and CMSA code.

PLEASE DO NOT ENTER BOTH STATE AND CMSA-REP CODE
Do not enter both state and CMSA-rep code.

PLEASE DO NOT ENTER BOTH STATE AND MSA CODE
Do not enter both state and MSA code.

PLEASE DO NOT ENTER BOTH STATE AND MSA-REP CODE
Do not enter both state and MSA-rep code.

PLEASE DO NOT ENTER BOTH STATE AND STATUS-AREA CODE
Do not enter both state and status area code.

PLEASE DO NOT ENTER BOTH STATE AND URBAN-AREA CODE
Do not enter both state and urban area as select criteria.

PLEASE ENTER A NUMERIC BEGIN-QUARTER
Begin quarter must be numeric.

PLEASE ENTER A NUMERIC BEGIN-YEAR
Begin year must be numeric.

PLEASE ENTER A NUMERIC END-QUARTER
End quarter must be numeric.

PLEASE ENTER A NUMERIC END-YEAR
End year must be numeric.

PLEASE ENTER A VALID AQCR CODE
The AQCR code is not valid.

PLEASE ENTER A VALID CITY CODE
The combination of city and state codes is not valid.

PLEASE ENTER A VALID CMSA CODE
The CMSA code entered must be in the AIRS GEO-COMMON File.

PLEASE ENTER A VALID CMSA-REP CODE
The CMSA-rep code entered must be in the AIRS GEO-COMMON File.

PLEASE ENTER A VALID COUNTY CODE
The combination of county and state codes is not valid.

PLEASE ENTER A VALID INTERVAL CODE
The interval entered must be one of the codes listed:
A, B, C, D, G, L, X, Y, Z, 1, 2, 3, 4, 5, 6, 7, 8, 9, or blank.

PLEASE ENTER A VALID INTERVAL FOR THE PARAMETER CODE
The combination of interval and parameter codes is not valid.

PLEASE ENTER A VALID METHOD CODE
The method entered must be valid for the parameter entered.

PLEASE ENTER A VALID MONITOR-TYPE CODE
The monitor type code is not valid. Use a code listed in Volume GC2, or use "B" to select both NAMS and SLAMS monitor types or "P" to select PAMS monitor types.

PLEASE ENTER A VALID MSA CODE
The MSA code entered must be in the AIRS GEO-COMMON File.

PLEASE ENTER A VALID MSA-REP CODE
The MSA-rep code entered must be in the AIRS GEO-COMMON File.

PLEASE ENTER A VALID PARAMETER CODE
The parameter code must be for a valid pollutant.

PLEASE ENTER A VALID REPORT-ORG
The combination of reporting organization and state is not valid.

PLEASE ENTER A VALID SITE CODE
The combination of state, county, and site does not match any existing site-ID in the Site file.

PLEASE ENTER A VALID STATE ABBREVIATION
The state abbreviation is not valid.

PLEASE ENTER A VALID STATE CODE
The state code is not valid.

PLEASE ENTER A VALID STATUS-AREA CODE FOR PARAMETER
The combination of status area and parameter entered must be in the AIRS GEO-COMMON File.

PLEASE ENTER A VALID URBAN-AREA CODE
The urban area code is not valid.

PLEASE ENTER A VALID 1-DIGIT BEGIN-QUARTER
If begin year equals the current year, begin quarter cannot exceed the current quarter.

PLEASE ENTER A VALID 1-DIGIT END-QUARTER
If end year equals the current year, end quarter cannot exceed the current quarter.

PLEASE ENTER AN END-YEAR THAT IS GREATER THAN OR EQUAL TO THE BEGIN-YEAR
The end year must be greater than or equal to the begin year.

PLEASE ENTER ONLY ONE: AQCR, URBAN-AREA, CITY, REPORT-ORG, COUNTY, MSA, CMSA, MSA-REP, CMSA-REP, OR STATUS-AREA
Only the combinations of geographic selection criteria listed at the beginning of this section are valid.

PLEASE FILL ALL LINES BEFORE GOING ON TO THE NEXT SCREEN
PF8 is valid only when the current screen is full or when there are more criteria on a subsequent screen.

PLEASE USE A VALID PF-KEY
A PF key not defined for this screen was used.

REPORT BEGINNING QUARTER IS REQUIRED FOR THIS REPORT
Begin quarter must be entered.

REPORT BEGINNING YEAR IS REQUIRED FOR THIS REPORT
Begin year must be entered.

REPORT ENDING QUARTER IS REQUIRED FOR THIS REPORT
End quarter must be entered.

REPORT ENDING YEAR IS REQUIRED FOR THIS REPORT
End year must be entered.

STATUS-AREA CODE NOT ALLOWED WITH THIS PARAMETER

A status area was entered for a parameter that does not allow entry of a status area.

THE COUNTY CODE IS REQUIRED WITH THE SITE CODE

If site is entered, county must be entered.

5.18.4 Data Sorting Options

The Sort Criteria Screen (see Figure 5-65) allows you to choose one of two alternative sort sequences for the Maximum Values Report. The two alternatives are:

Option 1 (default)	Option 2
year	year
parameter	parameter
interval	interval
state	state
county	city
site	county
POC	site
method	POC
	method

The two choices differ only by the addition of city in the second alternative.

```
09/30/92                  AIRS Air Quality Subsystem                  AMP440C
                              Sort Criteria

Report Name:  MAXIMUM VALUES                          Criteria Name:

    Available sort orders are:

       1.  Year, Parameter, Interval, State, Site, POC, Method
       2.  Year, Parameter, Interval, State, City, County, Site, POC, Method


    Please enter desired sort order:  1


 PF3=end    PF4=main menu    PF5=terminate    PF6=select criteria    PF9=save criteria
```

Figure 5-65. Sort Criteria Screen for the Maximum Values Report

Instructions

Choose sort option 1 or 2 (by entering a "1" or a "2"), and then press ENTER.

Error Messages

The error messages listed below (in alphabetical order) are displayed at the top of the sort criteria screen if you make a mistake in specifying sort options.

PLEASE ENTER SORT ORDER 1 OR 2
Sort order 1 (default) or 2 must be entered.

PLEASE USE A VALID PF-KEY
A PF key not defined for this screen was used.

5.19 Quick Look Report (AMP450)

5.19.1 Description

The Quick Look Report Program presents quarterly and yearly data from the AIRS Summary file. There are eight report formats, each with a similar layout, as shown in Figure 5-66. A distinct report format is produced for each of the criteria pollutants (TSP, Pb, CO, SO_2, NO_2, O_3, and PM-10), and a single format is produced for all of the non-criteria pollutants. Each report format lists the state, units, site, POC, monitor type, city, county, site address, year, reporting organization, number of observations, and various other information, depending on which pollutant is reported. An additional page at the end of the report lists all the methods used for collecting and analyzing the reported data and gives descriptions of what they mean.

The report begins with the detailed part for the first combination of pollutant and state. If state changes, the detailed part of the next state is begun on the next page. If pollutant changes, the methods report for the previous pollutant is printed on a separate page, and the report format appropriate for the new pollutant begins on the next page. The criteria pollutants are printed first, followed by the non-criteria pollutants.

The Report Options Screen allows the user to select the option to report exceptional event data. If this option is selected and exceptional event data exists, the reports will contain the message "EXCEPTIONAL EVENT DATA EXISTS IN ALL THE ABOVE SITES AND IS INCLUDED IN THE SUMMARY CALCULATIONS". If this option is not selected and one of the pollutant/state combinations listed has exceptional event data, the reports will contain the message "EXCEPTIONAL EVENT DATA EXISTS IN AT LEAST ONE OF THE ABOVE SITES BUT IS NOT INCLUDED IN THE SUMMARY CALCULATIONS".

A Precision-Accuracy Report with the option of the P/A Monitor Summary Report, P/A RO Summary Report, or P/A Monitor Raw Data Report may be generated in conjunction with this report. (See Section 5.3.) It includes data for all the reporting organizations and years in the Quick Look Report.

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AMP450 AIR QUALITY SUBSYSTEM
QUICK LOOK REPORT

CARBON MONOXIDE (42101) CONNECTICUT UNITS: 007 PPM

SITE ID	POC	PQM	CITY	COUNTY	ADDRESS	REP YR	REP ORG	#OBS	MAX 1-HR 1ST	MAX 1-HR 2ND	OBS> 35	MAX 8-HR 1ST	MAX 8-HR 2ND	OBS> 9	METH
09-001-0004	1	2	BRIDGEPORT	FAIRFIELD CO	JASPER MCLEVY HALL, STAT	90	001	8081	9.3	8.5	0	6.1	5.0	0	011
09-001-0020	1	2	STAMFORD	FAIRFIELD CO	LIBRARY 96 BROAD ST STA	90	001	8714	10.5	10.0	0	7.4	6.3	0	011
09-003-0013	1	1	HARTFORD	HARTFORD CO	401 FLATBUSH AVENUE	90	001	8248	6.4	6.0	0	4.8	4.7	0	011
09-003-0017	1	1	HARTFORD	HARTFORD CO	COURTHOUSE, 155 MORGAN S	90	001	3434	19.3	15.8	0	9.3	8.6	0	011
09-009-0019	1	2	NEW HAVEN	NEW HAVEN CO	80 TEMPLE STREET	90	001	8693	11.8	9.9	0	7.2	6.8	0	011

Figure 5-66. Quick Look Report - Carbon Monoxide Format (1 of 9)

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AMP450 AIR QUALITY SUBSYSTEM
QUICK LOOK REPORT

NITROGEN DIOXIDE (42602) CONNECTICUT UNITS: 007 PPM

SITE ID	POC	M T	CITY	COUNTY	ADDRESS	REP YR	ORG	#OBS	MAX 1-HR 1ST	MAX 1-HR 2ND	MAX 24-HR 1ST	MAX 24-HR 2ND	ARIT MEAN	METH
09-001-0113	1	2	BRIDGEPORT	FAIRFIELD CO	SHED CONGRESS STREET	90	001	8137	.147	.139			.026	014
09-003-1003	1	2	EAST HARTFORD	HARTFORD CO	MCAULIFFEE PARK	90	001	8389	.091	.088			.019	014
09-009-1123	1	2	NEW HAVEN	NEW HAVEN CO	715 STATE STREET	90	001	8346	.122	.122			.027	014

Figure 5-66. Quick Look Report - Nitrogen Dioxide Format (2 of 9)

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EPA AEROMETRIC INFORMATION RETRIEVAL SYSTEM (AIRS)
AIR QUALITY SUBSYSTEM
QUICK LOOK REPORT

PAGE 1

OZONE (44201) CONNECTICUT UNITS: 007 PPM

OZONE SEASON: APR 01 TO OCT 31

SITE ID	POC	MT	CITY	COUNTY	ADDRESS	YR	REP ORG	*NUM *MEAS	MUN REQ	VALID DAILY 1-HR MAXIMUM -----MAXIMA----- 1ST	2ND	3RD	4TH	VALS>.125 MEAS	EST	* MISS DAYS * ASSUMED < * STANDARD	METH
09-001-0017	1	2	GREENWICH	FAIRFIELD C	GREENWICH POINT	90	001	211	214	.146	.144	.143	.139	7	7.0	3	014
09-001-0113	1	1	BRIDGEPORT	FAIRFIELD C	SHED CONGRESS ST	90	001	213	214	.183	.161	.134	.117	3	3.0	0	014
09-001-1123	1	2	DANBURY	FAIRFIELD C	TRAILER, W. CONN	90	001	211	214	.167	.149	.134	.129	4	4.0	2	014
09-001-3007	1	1	STRATFORD	FAIRFIELD C	USCG LIGHTHOUSE	90	001	162	214	.176	.129	.126	.125	4	5.2	3	014
09-003-1003	1	1	EAST HARTFORD	HARTFORD CO	MCAULIFFEE PARK	90	001	210	214	.151	.146	.140	.130	4	4.0	2	014
09-007-0007	1	1	MIDDLETOWN	MIDDLESEX C	CONN. VALLEY HOS	90	001	185	214	.158	.158	.125	.123	3	3.5	1	014
09-009-1123	1	1	NEW HAVEN	NEW HAVEN C	715 STATE STREET	90	001	213	214	.104	.101	.099	.097	0	0.0	1	014
09-009-3002	1	3	MADISON	NEW HAVEN C	HAMMONASSET STAT	90	001	190	214	.197	.157	.153	.151	7	7.5	10	014
09-011-0008	1	2	GROTON	NEW LONDON	UNIVERSITY OF CO	90	001	207	214	.172	.158	.149	.140	6	6.1	4	014
09-013-1001	1	1	STAFFORD	TOLLAND CO	ROUTE 190, SHENI	90	001	207	214	.153	.143	.139	.127	5	5.1	1	014

Figure 5-66. Quick Look Report - Ozone Format (3 of 9)

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AMP450 AIR QUALITY SUBSYSTEM
QUICK LOOK REPORT

LEAD (12128) MASSACHUSETTS UNITS: 001 UG/CU METER (25 C)

SITE ID	POC	M T	CITY	COUNTY	ADDRESS	REP YR	ORG	#OBS	----QUARTERLY ARITH MEANS---- 1ST	2ND	3RD	4TH	MEANS >1.5	MAX VALUES 1ST	2ND	METH
25-013-0011	2	1	SPRINGFIELD	HAMPDEN CO	59 HOWARD STREET	90	001	60	.04	.04	.03	.02	0	.10	.08	092
25-013-2007	1	1	SPRINGFIELD	HAMPDEN CO	EAST COLUMBUS AVEN	90	001	60	.04	.03	.03	.06	0	.19	.13	092
25-025-0002	1	1	BOSTON	SUFFOLK CO	KENMORE SQUARE, 59	90	001	57	.04	.04	.05	.05	0	.09	.05	092
25-025-0027	2	1	BOSTON	SUFFOLK CO	ONE CITY SQUARE, C	90	001	61	.04	.03	.03	.02	0	.09	.09	092

Figure 5-66. Quick Look Report - Lead Format (4 of 9)

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AMP450 AIR QUALITY SUBSYSTEM
QUICK LOOK REPORT

SULFUR DIOXIDE (42401) CONNECTICUT UNITS: 001 UG/CU METER (25 C)

SITE ID	POC	M T	CITY	COUNTY	ADDRESS	REP YR	ORG	#OBS	MAX 24-HR 1ST	MAX 24-HR 2ND	OBS > 365	MAX 3-HR 1ST	MAX 3-HR 2ND	OBS > 1300	MAX 1-HR 1ST	MAX 1-HR 2ND	ARIT MEAN	METH
09-001-0012	1	2	BRIDGEPORT	FAIRFIELD CO	115 BOSTON TERRAC	90	001	8250	137	131	0	256	241	0	401	372	33	020
09-001-0017	1	2	GREENWICH	FAIRFIELD CO	GREENWICH POINT P	90	001	8312	71	62	0	107	107	0	134	131	13	020
09-001-0025	1	2	STAMFORD	FAIRFIELD CO	CORTLAND AVENUE	90	001	7534	142	121	0	221	201	0	233	231	23	020
09-001-0113	1	1	BRIDGEPORT	FAIRFIELD CO	SHED CONGRESS STR	90	001	8317	121	119	0	190	188	0	225	212	25	020
09-001-1123	1	2	DANBURY	FAIRFIELD CO	TRAILER, W. CONNE	90	001	8077	93	86	0	136	128	0	162	160	19	020
09-001-2123	1	2	STAMFORD	FAIRFIELD CO	SHED NORTH STREET	90	001	8322	124	120	0	175	174	0	194	189	24	020
09-003-1005	1	2	ENFIELD	HARTFORD CO	SHAKER ROAD	90	001	8123	81	73	0	114	113	0	134	131	16	020
09-003-1011	1	2	NEW BRITAIN	HARTFORD CO	531 EAST MAIN STR	90	001	7380	115	100	0	180	154	0	199	191	22	020
09-003-1018	1	1	HARTFORD	HARTFORD CO	CORNER OF SHELDON	90	001	8330	112	102	0	169	167	0	186	181	24	020
09-003-2006	1	1	EAST HARTFORD	HARTFORD CO	85 HIGH STREET EA	90	001	8332	95	87	0	135	129	0	207	168	21	020
09-009-0010	1	2	MILFORD	NEW HAVEN CO	EGAN CENTER, MATH	90	001	6642	113	107	0	251	245	0	320	317	23	020
09-009-1003	1	2	EAST HAVEN	NEW HAVEN CO	ANIMAL SHELTER, C	90	001	8331	90	90	0	173	147	0	191	181	19	020
09-009-1123	2	1	NEW HAVEN	NEW HAVEN CO	715 STATE STREET	90	001	8125	163	147	0	284	275	0	322	320	36	020
09-009-2123	1	2	WATERBURY	NEW HAVEN CO	SHED MEADOW AND B	90	001	8231	112	109	0	240	215	0	307	278	25	020
09-009-3008	1	2	WATERBURY	NEW HAVEN CO	LYDIA STREET EXTE	90	001	7393	158	144	0	303	259	0	338	317	23	020
09-011-0007	1	2	GROTON	NEW LONDON C	FIRE HEADQUARTERS	90	001	8184	92	76	0	200	167	0	246	231	20	020

Figure 5-66. Quick Look Report - Sulfur Dioxide Format (5 of 9)

```
DATE 93/09/16                          EPA AEROMETRIC INFORMATION RET RIEVAL SYSTEM (AIRS)                          PAGE    1
AMP450                                              AIR QUALITY SUB SYSTEM
                                                      QUICK LOOK RE PORT

          SUSPENDED PAPTICULATE (11101)                    CONNECTICUT                    UNITS: 001 UG/CU METER (25 C)

                P
                O M                                                                                                  REP      --MAXIMUM 24-HR VALUES--  ARITH    GEO      GEO
SITE ID         C T CITY            COUNTY           ADDRESS                                                      YR ORG #OBS  1ST   2ND   3RD   4TH   MEAN     MEAN     STD
-------------------------------------------------------------------------------------------------------------------------------------------------------------------
09-001-0021 1 3 STAMFORD        FAIRFIELD CO     COMMUNITY CENTER, HENR Y STR                                 90 001    1    42                                  42?      42?      1.0
09-001-8001 2 2 STAMFORD        FAIRFIELD CO     653 MAIN STREET                                              90 001   28    76    66    65    65    41?      38?      1.6

? INDICATES THAT THE MEAN DOES N^T SATISFY SUMMARY CRITERIA
```

Figure 5-66. Quick Look Report - Suspended Particulate Format (6 of 9)

DATE 93/09/16 EPA AEROMETRIC INFORMATION RETRIEVAL SYSTEM (AIRS) PAGE 1
AMP450 AIR QUALITY SUBSYSTEM
QUICK LOOK REPORT

PM-10 TOTAL 0-10UM (81102) CONNECTICUT UNITS: 001 UG/CU METER (25 C)

SITE ID	P O C	M T	CITY	COUNTY	ADDRESS	REP YR	ORG	SCHEDULED NUM OBS	NUM % OBS	NUM OBS	NUM REQ	MAXIMUM VALUES 1ST	2ND	3RD	4TH	VALS > 150 MEAS	EST	WTD ARITH MEAN	METH
09-001-0010	1	1	BRIDGEPORT	FAIRFIELD	ROOSEVELT SCHOOL PARK	90	001	58	58	92	63	85	52	52	50	0	0.00	25	062
09-001-0015	1	1	BRIDGEPORT	FAIRFIELD	MYRTLE AVE	90	001	59	59	94	63	85	60	57	56	0	0.00	33	062
09-001-0017	1	2	GREENWICH	FAIRFIELD	GREENWICH POINT PARK	90	001	57	57	90	63	62	53	48	42	0	0.00	20	062
09-001-0113	1	2	BRIDGEPORT	FAIRFIELD	SHED CONGRESS STREET	90	001	58	58	92	63	79	49	47	46	0	0.00	25	062
09-001-1123	1	2	DANBURY	FAIRFIELD	TRAILER, W. CONNECTIC	90	001	60	60	95	63	59	44	44	43	0	0.00	22	062
09-001-1401	1	1	DARIEN	FAIRFIELD	I-95 AT BROOKSIDE DRI	90	001	58	58	92	63	73	65	55	54	0	0.00	31	062
09-001-2014	1	1	NORWALK	FAIRFIELD	I-95 AT WEST AVE	90	001	59	59	94	63	90	82	74	71	0	0.00	39	062
09-001-5005	1	2	STRATFORD	FAIRFIELD	730 MAIN STREET	90	001	54	54	86	63	70	52	49	49	0	0.00	24?	062
09-001-8001	1	2	STAMFORD	FAIRFIELD	653 MAIN STREET	90	001	59	59	94	63	80	48	48	47	0	0.00	24	062
09-003-0013	1	1	HARTFORD	HARTFORD	C 401 FLATBUSH AVENUE	90	001	59	59	94	63	59	48	41	40	0	0.00	21	062
09-003-0014	1	2	HARTFORD	HARTFORD	C FRANKLIN AVE. FIREHOU	90	001	55	55	87	63	65	51	42	42	0	0.00	22	062
09-003-0015	1	1	HARTFORD	HARTFORD	C HELCO, 400 SHELDON ST	90	001	58	57	90	63	61	61	46	46	0	0.00	25	062
09-003-0018	1	1	NEW BRITAI	HARTFORD	C NORTHEAST UTILITIES C	90	001	59	59	94	63	59	45	43	43	0	0.00	21	062
09-003-1001	1	2	BRISTOL	HARTFORD	C CITY HALL 111 N. MAIN	90	001	60	60	95	63	52	44	43	39	0	0.00	20	062
09-003-1004	1	2	EAST HARTF	HARTFORD	C CITY HALL, 740 MAIN S	90	001	59	59	94	63	68	50	43	41	0	0.00	22	062
09-003-1005	1	2	ENFIELD	HARTFORD	C SHAKER ROAD	90	001	58	58	92	63	46	43	37	30	0	0.00	17	062
09-003-1018	1	2	HARTFORD	HARTFORD	C CORNER OF SHELDON ST.	90	001	60	60	95	63	76	56	44	43	0	0.00	24	062
09-003-2001	1	2	BURLINGTON	HARTFORD	C PUNCH BROOK ROAD AT F	90	001	59	59	94	63	41	39	36	33	0	0.00	15	062
09-003-6002	1	2	BERLIN	HARTFORD	C BERLIN HIGH SCHOOL, P	90	001	55	55	87	63	51	42	40	38	0	0.00	19	062
09-003-7001	1	2	MANCHESTER	HARTFORD	C TOWN HALL, 41 CENTER	90	001	55	55	87	63	48	47	43	41	0	0.00	19	062
09-005-0005	1	2	CORNWALL	LITCHFIELD	MOHAWK MTN MICROWAVE	90	001	58	58	92	63	50	47	43	40	0	0.00	16	062
09-005-6001	1	2	TORRINGTON	LITCHFIELD	140 MAIN STREET	90	001	59	59	94	63	55	44	39	39	0	0.00	19	062
09-007-0002	1	2	HADDAM	MIDDLESEX	CRIMINAL JUSTICE ACAD	90	001	53	53	84	63	43	41	37	34	0	0.00	17?	062
09-007-1003	1	2	MIDDLETOWN	MIDDLESEX	CITY HALL, DEKOVEN DR	90	001	58	58	92	63	48	44	43	39	0	0.00	21	062
09-009-0004	1	2	ANSONIA	NEW HAVEN	DIVISION STREET TREAT	90	001	30	30	97	31	51	38	36	31	0	0.00	20?	062
09-009-0010	1	2	MILFORD	NEW HAVEN	EGAN CENTER, MATHEW S	90	001	58	58	92	63	56	51	44	41	0	0.00	21	062
09-009-0011	1	1	NEW HAVEN	NEW HAVEN	HAMILTON AVE	90	001	60	60	95	63	73	53	51	47	0	0.00	26	062
09-009-0013	1	1	NEW HAVEN	NEW HAVEN	FIRE HEADQUARTERS, GR	90	001	60	60	95	63	80	48	47	46	0	0.00	24	062
09-009-0018	1	1	NEW HAVEN	NEW HAVEN	STILES STREET.	90	001	349	349	96	365	123	121	119	116	0	0.00	41	062
09-009-0021	1	3	NEW HAVEN	NEW HAVEN	CORNER OF STILES STRE	90	001	356	210	98	63	186	157	121	115	2	2.20	40	062
09-009-1123	1	2	NEW HAVEN	NEW HAVEN	715 STATE STREET	90	001	56	56	89	63	79	53	53	49	0	0.00	27	062
09-009-1123	2	2	NEW HAVEN	NEW HAVEN	715 STATE STREET	90	001	57	57	90	63	81	52	51	50	0	0.00	27	062
09-009-2123	1	1	WATERBURY	NEW HAVEN	SHED MEADOW AND BANK	90	001	58	58	92	63	81	81	65	64	0	0.00	33	062
09-009-2123	2	3	WATERBURY	NEW HAVEN	SHED MEADOW AND BANK	90	001	60	60	95	63	90	86	81	74	0	0.00	35	062
09-009-3007	1	2	WATERBURY	NEW HAVEN	519 EAST MAIN ST	90	001	59	59	94	63	81	59	47	46	0	0.00	26	062
09-009-4002	1	2	MERIDEN	NEW HAVEN	STODDARD BUILDING, 16	90	001	37	37	77	48	46	44	40	39	0	0.00	21?	062
09-009-4006	1	2	WALLINGFOR	NEW HAVEN	45 SOUTH MAIN ST	90	001	53	53	84	63	57	42	41	37	0	0.00	19	062
09-009-5001	1	2	NAUGATUCK	NEW HAVEN	229 CHURCH STREET	90	001	56	56	89	63	74	47	45	43	0	0.00	24	062
09-009-8003	1	2	WEST HAVEN	NEW HAVEN	OLEANDER ST AT I-95	90	001	57	57	90	63	68	47	44	44	0	0.00	26	062
09-011-0006	1	2	GROTON	NEW LONDON	GROTON HIGHWAY GARAGE	90	001	55	55	87	63	54	48	46	39	0	0.00	19?	062
09-011-0009	1	1	NEW LONDON	NEW LONDON	PERKINS ST TURN-AROUN	90	001	58	58	92	63	58	47	41	39	0	0.00	21	062
09-011-1101	1	2	WATERFORD	NEW LONDON	NEW LONDON COUNTRY CL	90	001	55	55	87	63	49	46	43	40	0	0.00	19	062
09-011-3002	1	2	NORWICH	NEW LONDON	22 COURT HOUSE SQUARE	90	001	59	59	94	63	54	48	43	38	0	0.00	21	062
09-011-9001	1	2	VOLUNTOWN	NEW LONDON	PACHAUG STATE FOREST	90	001	60	60	95	63	43	39	37	33	0	0.00	15	062

? INDICATES THAT THE MEAN DOES NOT SATISFY SUMMARY CRITERIA

Figure 5-66. Quick Look Report - PM-10 Total 0-10 UM Format (7 of 9)

DATE 93/09/16 EPA AEROMETRIC INFORMATION RETRIEVAL SYSTEM (AIRS) PAGE 1
AMP450 AIR QUALITY SUBSYSTEM
QUICK LOOK REPORT

RADACTGROSS-BETA/TSP (11302) RHODE ISLAND

SITE ID	POC	M T	CITY	COUNTY	ADDRESS	REP YR	ORG	#OBS	MAXIMUM VALUES 1ST	2ND	3RD	4TH	ARITH MEAN	METH	UNITS	INT
44-001-0001	1	0	BRISTOL	BRISTOL CO	REYNOLDS ELEMENTARY	85	000	19	.05	.02	.02	.01	.010?	091	030	7
44-001-0001	1	0	BRISTOL	BRISTOL CO	REYNOLDS ELEMENTARY	86	000	10	1.40	1.10	1.10	.91	.553?	091	030	7
44-007-2005	1	0	PROVIDENCE	PROVIDENCE CO	STATE OFFICE BUILDI	85	000	15	.02	.02	.02	.01	.008?	091	030	7
44-007-2005	1	0	PROVIDENCE	PROVIDENCE CO	STATE OFFICE BUILDI	86	000	6	.01	.01	.01	.01	.006?	091	030	7
44-007-2005	3	0	PROVIDENCE	PROVIDENCE CO	STATE OFFICE BUILDI	85	000	31	.02	.01	.01	.01	.010?	091	030	7
44-007-2005	3	0	PROVIDENCE	PROVIDENCE CO	STATE OFFICE BUILDI	86	000	11	.01	.01	.01	.01	.009?	091	030	7
44-007-4002	1	0	WOONSOCKET	PROVIDENCE CO	127 SOCIAL STREET,	85	000	20	.02	.01	.01	.01	.008?	091	030	7
44-007-4002	1	0	WOONSOCKET	PROVIDENCE CO	127 SOCIAL STREET,	86	000	6	.01	.01	.01	.01	.009?	091	030	7
44-009-0004	1	0	NARRAGANSETT	WASHINGTON CO	EPA LABORATORY NARR	85	000	18	.01	.01	.01	.01	.006?	091	030	7
44-009-0004	1	0	NARRAGANSETT	WASHINGTON CO	EPA LABORATORY NARR	86	000	6	.01	.01	.01	.01	.006?	091	030	7
44-009-4002	1	0	WESTERLY	WASHINGTON CO	WESTERLY POLICE DEP	85	000	20	.02	.02	.02	.01	.008?	091	030	7
44-009-4002	1	0	WESTERLY	WASHINGTON CO	WESTERLY POLICE DEP	86	000	6	.01	.01	.01	.01	.005?	091	030	7

? INDICATES THAT THE MEAN DOES NOT SATISFY SUMMARY CRITERIA

Figure 5-66. Quick Look Report - Non-criteria Pollutant Format (8 of 9)

DATE 93/09/17 EPA AEROMETRIC INFORMATION RETRIEVAL SYSTEM (AIRS) PAGE 1
AMP450 AIR QUALITY SUBSYSTEM
QUICK LOOK REPORT

OZONE (44201)

METHODS:	CODE	COLLECTION METHOD	ANALYSIS METHOD
	000	MULTIPLE METHODS	MULTIPLE METHODS
	011	INSTRUMENTAL	CHEMILUMINESCENCE
	014	INSTRUMENTAL	ULTRA VIOLET
	047	INSTRUMENTAL	ULTRA VIOLET
	053	INSTRUMENTAL	ULTRA VIOLET

Figure 5-66. Quick Look Report - Methods Listing Format (9 of 9)

5.19.2 Report Generation Options

The options available for the Quick Look Report have to do with the output medium (printed report or work file) and with report content (report exceptional event data and/or generate the Precision-Accuracy Report). The Precision/Accuracy Report can be generated with the option of the P/A Monitor Summary Report, P/A RO Summary Report, or P/A Monitor Raw Data Report. The report options screen, shown in Figure 5-67, allows you to select the type(s) of output and content you want.

The default option is to generate only a printed report. If you are using report criteria for the Quick Look Report that you saved previously, your saved specifications for report options are displayed instead of the default.

The work file format for this report is given in Volume AQ1.

```
08/13/91                AIRS Air Quality Subsystem                AMP450A
                              Report Options

Report Name:  QUICK LOOK                          Criteria Name:

                        Enter X for desired Option(s)

              Choose at least one output

              X 1.  Generate a printed report
              _ 2.  Generate a workfile (Enter name below):
                    KUFASWD . _______ . _______ . _______ . _______

              Choose desired Report Option(s)

              _ 3.  Generate the Precision and Accuracy Report
                    _ Monitor Summary  _ RO Summary  _ Monitor Data
              _ 4.  Report Exceptional Event Data


   PF3=end      PF4=main menu      PF5=terminate      PF9=save criteria
```

Figure 5-67. Report Options Screen for the Quick Look Report

Instructions

You must choose at least one type of output:

option 1	generate a printed report
option 2	generate a work file

You may choose any of the following options:

option 3	generate the Precision-Accuracy Report with the option of the P/A Monitor Summary Report, P/A RO Summary Report, or P/A Monitor Raw Data Report
option 4	report exceptional events data

If you choose a work file, you must specify a dataset name for it; otherwise, you may not specify a dataset name.

Option 4 applies to inclusion or exclusion of exceptional events data from the printed report only. If you select option 4, the printed report contains summary information for all values reported, only for monitor years that contain exceptional event data. You cannot generate one report that includes both exceptional and normal data. The report for normal data has a footnote on each page for which exceptional data exist, but the report does not identify the particular monitor(s) or year(s) involved. The work file, on the other hand, always contains exceptional events data if they were present in the AIRS database for the selected monitors. Thus, there are two records in the work file for each monitor reporting exceptional events data during any given year: one record containing the summary statistics based on inclusion of the exceptional data, and one record based on exclusion of it.

Read Section 3.6.1 if you are not familiar with how to use the report options screen. Section 3.6.2 describes the characteristics of valid dataset names.

Error Messages

The error messages listed below (in alphabetical order) are displayed at the top of the report options screen if you make a mistake in specifying report options.

DATASET NAME IS INVALID

The work file dataset name is not valid. Refer to Section 3.6.2 of this volume for a description of dataset naming conventions.

DATASET NAME NOT ALLOWED WITHOUT SPECIFYING OPTION 2

If a work file is not selected as an output, a dataset name must not be entered.

PLEASE CHOOSE OPTION 1 OR 2 FOR OUTPUT

Either a printed report (option 1) or a work file (option 2) must be selected as a report output.

PLEASE ENTER A VALID DATASET NAME

If a work file is selected, a dataset name must be specified.

PLEASE ENTER BLANK OR 'X'

Only blank and X are valid entries for specifying report options.

PLEASE USE A VALID PF-KEY

A PF key not defined for this screen was used.

5.19.3 Data Selection Options

You may select which monitors are included in the Quick Look Report using the select criteria screen. A sample screen is shown in Figure 5-68. The leftmost portion of the screen is shown at the top of the figure and the rightmost portion is shown at the bottom.

There are three groups of selection criteria. The first group consists of "geographic" criteria. Only certain combinations of these fields are allowed. You may use any one of the following combinations of geographic selection fields:

state (code or abbreviation)
state + county
state + county + site
state + reporting organization
state + city
state + AQCR
AQCR
urban area
MSA
CMSA
MSA-rep
CMSA-rep
status area

The second group of selection criteria consists of the following fields:

parameter
method
interval
monitor type

The third group of criteria consists of fields that always must be specified:

begin year
end year

In a given line on the select criteria screen, you must specify all the fields in the third group of selection criteria and either parameter or one of the geographic criteria in the first group. You may use any of the criteria in the second group in addition to other criteria.

```
09/30/92                    AIRS Air Quality Subsystem                    AMP450B
                                 Select Criteria                          Page 1/2

Report Name:  QUICK LOOK                                   Criteria Name:

  ST  CNTY  SITE  PARA-METER  METH  INT  BEGIN YEAR  END YEAR  MON TYPE  CITY  AQCR  REP ORG  URBAN AREA
  __  ___   ____  _________  ____  __   ____        ____      ___       ____  ____  ____     ____
  __  ___   ____  _________  ____  __   ____        ____      ___       ____  ____  ____     ____
  __  ___   ____  _________  ____  __   ____        ____      ___       ____  ____  ____     ____
  __  ___   ____  _________  ____  __   ____        ____      ___       ____  ____  ____     ____
  __  ___   ____  _________  ____  __   ____        ____      ___       ____  ____  ____     ____
  __  ___   ____  _________  ____  __   ____        ____      ___       ____  ____  ____     ____
  __  ___   ____  _________  ____  __   ____        ____      ___       ____  ____  ____     ____
  __  ___   ____  _________  ____  __   ____        ____      ___       ____  ____  ____     ____
  __  ___   ____  _________  ____  __   ____        ____      ___       ____  ____  ____     ____
  __  ___   ____  _________  ____  __   ____        ____      ___       ____  ____  ____     ____

PF1=help   PF2=duplicate   PF3=end  PF4=main menu   PF5=terminate   PF6=rpt options
PF7=back   PF8=more        PF9=save criteria        PF10=left       PF11=right
```

```
09/30/92                    AIRS Air Quality Subsystem                    AMP450B
                                 Select Criteria                          Page 2/2

Report Name:  QUICK LOOK                                   Criteria Name:

  MSA   CMSA  MSA REP  CMSA REP  STATUS AREA
  ____  ____  ____     ____      ____
  ____  ____  ____     ____      ____
  ____  ____  ____     ____      ____
  ____  ____  ____     ____      ____
  ____  ____  ____     ____      ____
  ____  ____  ____     ____      ____
  ____  ____  ____     ____      ____
  ____  ____  ____     ____      ____
  ____  ____  ____     ____      ____
  ____  ____  ____     ____      ____

PF1=help   PF2=duplicate   PF3=end  PF4=main menu   PF5=terminate   PF6=rpt options
PF7=back   PF8=more        PF9=save criteria        PF10=left       PF11=right
```

Figure 5-68. Select Criteria Screen for the Quick Look Report

Specify begin and end years as two digits each (YY format). Valid years are 1957 through any valid year.

In addition to the monitor type codes listed in Volume GC2 of the AIRS User's Guide, you may use the code "B" to select both NAMS and SLAMS monitors and code "P" to select PAMS monitors.

Although you may select on urban area, AQCR, and interval, they do not appear in the report.

Online Help is available for all of the selection criteria fields except BEGIN-DATE and END-DATE. The Help facility allows you to browse through tables of values, with descriptions, for the codes you need to enter, and then to select the value that you wish to use. The Help facility is described in detail in Section 3.6.4.

Instructions

Enter selection criteria into the available fields on the select criteria screen, or alter the previously saved criteria displayed on the screen if you wish. You must specify criteria in at least one line on the screen. Press the ENTER key when you have finished entering or altering the criteria.

Read Section 3.6.3 if you are not familiar with how to use the select criteria screen. Refer to Volume GC2 of the AIRS User's Guide for lists of valid codes to use for selection criteria.

Press PF1=help for general information about the select criteria process. For Field-specific Help, enter a "?" in the first position of any field (except BEGIN-DATE or END-DATE).

Error Messages

The error messages listed below (in alphabetical order) are displayed at the top of the select criteria screen if you make a mistake in specifying selection criteria. See Volume GC4 of the AIRS User's Guide for explanations of the error messages that you may encounter while using Field-specific Help.

A PARAMETER IS REQUIRED FOR STATUS-AREA CODE
If status area is entered, parameter must be entered.

A STATE IS REQUIRED FOR CITY
If city is entered, state must be entered.

A STATE IS REQUIRED FOR COUNTY
If county is entered, state must be entered.

A STATE IS REQUIRED FOR REPORT-ORG
If reporting organization is entered, state must be entered.

BEGIN-YEAR IS < 57 OR > CURRENT YEAR
Begin year must be in the range 57 through current year.

ENTER SELECTION CRITERIA OR USE A PF-KEY TO ESCAPE
ENTER was pressed without any selection criteria specified. Either specify criteria and press ENTER or use one of the valid PF keys to transfer to another screen or terminate the AIRS session.

PF2 INVALID - MAXIMUM NUMBER OF SELECTION CRITERIA HAS BEEN SPECIFIED
Do not press PF2 when the last select criteria screen is full.

PF2 INVALID - THERE ARE NO SELECTION CRITERIA TO DUPLICATE
Do not press PF2 without entering at least one selection criterion.

PF7 INVALID - THIS IS THE FIRST SELECT CRITERIA SCREEN
Do not press PF7 from the first select criteria screen; it is used to page backward.

PF8 INVALID - THIS IS THE FINAL SELECT CRITERIA SCREEN
Do not press PF8 from the last select criteria screen; it is used to page forward.

PF10 INVALID - THIS IS THE LEFT-MOST SELECT CRITERIA SCREEN
Do not press PF10 while the leftmost select criteria screen is displayed.

PF11 INVALID - THIS IS THE RIGHT-MOST SELECT CRITERIA SCREEN
Do not press PF11 while the rightmost select criteria screen is displayed.

PLEASE DO NOT ENTER BOTH STATE AND CMSA CODE
Do not enter both state and CMSA code.

PLEASE DO NOT ENTER BOTH STATE AND CMSA-REP CODE
Do not enter both state and CMSA-rep code.

PLEASE DO NOT ENTER BOTH STATE AND MSA CODE
Do not enter both state and MSA code.

PLEASE DO NOT ENTER BOTH STATE AND MSA-REP CODE
Do not enter both state and MSA-rep code.

PLEASE DO NOT ENTER BOTH STATE AND STATUS-AREA CODE
Do not enter both state and status area code.

PLEASE DO NOT ENTER BOTH STATE AND URBAN-AREA CODE
Do not enter both state and urban area.

PLEASE ENTER A NUMERIC BEGIN-YEAR
The begin year entered must be numeric.

PLEASE ENTER A NUMERIC END-YEAR
The end year entered must be numeric.

PLEASE ENTER A PARAMETER CODE WITH THE METHOD CODE
If method is entered, parameter must be entered.

PLEASE ENTER A VALID AQCR CODE
The AQCR code is not valid.

PLEASE ENTER A VALID CITY CODE
The combination of city and state codes is not valid.

PLEASE ENTER A VALID CMSA CODE
The CMSA code entered must be in the AIRS GEO-COMMON File.

PLEASE ENTER A VALID CMSA-REP CODE
The CMSA-rep code entered must be in the AIRS GEO-COMMON File.

PLEASE ENTER A VALID COUNTY CODE
The combination of county and state codes is not valid.

PLEASE ENTER A VALID INTERVAL CODE
The interval code is not valid.

PLEASE ENTER A VALID INTERVAL FOR THE PARAMETER CODE
The combination of interval and parameter codes is not valid.

PLEASE ENTER A VALID METHOD CODE
The combination of method and parameter codes is not valid.

PLEASE ENTER A VALID MONITOR-TYPE CODE
The monitor type code is not valid. Use a code listed in Volume GC2, or use "B" to select both NAMS and SLAMS monitor types or "P" to select PAMS monitor types.

PLEASE ENTER A VALID MSA CODE
The MSA code entered must be in the AIRS GEO-COMMON File.

PLEASE ENTER A VALID MSA-REP CODE
The MSA-rep code entered must be in the AIRS GEO-COMMON File.

PLEASE ENTER A VALID PARAMETER CODE
The parameter code is not valid.

PLEASE ENTER A VALID REPORT-ORG
The combination of reporting organization and state is not valid.

PLEASE ENTER A VALID SITE CODE
The combination of state, county, and site does not match any existing site-ID in the Site file.

PLEASE ENTER A VALID STATE ABBREVIATION
The state abbreviation is not valid.

PLEASE ENTER A VALID STATE CODE
The state code is not valid.

PLEASE ENTER A VALID STATUS-AREA CODE FOR PARAMETER
The combination of status area and parameter entered must be in the AIRS GEO-COMMON File.

PLEASE ENTER A VALID URBAN-AREA CODE
The urban area code is not valid.

PLEASE ENTER AN END-YEAR THAT IS GREATER THAN OR EQUAL TO THE BEGIN-YEAR
The end year must be greater than or equal to the begin year.

PLEASE ENTER ONE: STATE, PARAMETER, AQCR, URBAN-AREA, MSA, CMSA, MSA-REP, CMSA-REP, OR STATUS AREA
One of the geographic criteria or parameter must be used in each line of select criteria.

PLEASE ENTER ONLY ONE: AQCR, URBAN-AREA, CITY, REPORT-ORG, COUNTY, MSA, CMSA, MSA-REP, CMSA-REP, OR STATUS-AREA
Only the combinations of geographic selection criteria listed at the beginning of this section are valid.

PLEASE FILL ALL LINES BEFORE GOING ON TO THE NEXT SCREEN
PF8 is valid only when the current screen is full or when there are more criteria on a subsequent screen.

PLEASE USE A VALID PF-KEY
A PF key not defined for this screen was used.

REPORT BEGINNING YEAR IS REQUIRED FOR THIS REPORT
Begin year must be entered.

REPORT ENDING YEAR IS REQUIRED FOR THIS REPORT
End year must be entered.

STATUS-AREA CODE NOT ALLOWED WITH THIS PARAMETER
A status area was entered for a parameter that does not allow entry of a status area.

THE COUNTY CODE IS REQUIRED WITH THE SITE CODE

If site is entered, county must be entered.

5.19.4 Data Sorting Options

The sort sequence you specify determines the order of monitoring site entries in the Quick Look Report and work file. The sort criteria screen, shown in Figure 5-69, allows you to establish the sort sequence. The default sort sequence is by parameter, state, county, site, POC, and date.

You may alter or delete the existing sort sequence and enter new sort criteria, using any of the numbered fields shown on the screen. All of the sort fields are allowed for this program. Because of the report format, parameter (field 4) must be the first sort criterion. Therefore, parameter is fixed as the first sort field and you cannot put it elsewhere or remove it from the sort order.

If you use report criteria that were saved previously for a different report, the sort criteria program may alter the saved sort specifications to conform with the requirements for this report. The first field in the saved sort specifications is replaced with the first field required for this report (parameter). The resulting sort sequence may be erroneous.

```
09/30/92                  AIRS Air Quality Subsystem                  AMP450C
                               Sort Criteria

Report Name:  QUICK LOOK                          Criteria Name:

    1.  State              6.  Reporting Org      11.  Method
    2.  County             7.  Urban Area         12.  Interval
    3.  Site               8.  EPA Region         13.  Monitor Type
    4.  Parameter          9.  City               14.  Date
    5.  POC               10.  AQCR

 Enter the numbers of the Sort Elements above in the desired Sort Sequence:

                  _1  _2  _3  _4  _5  12  14  __  __  __  __  __  __  __

 PF3=end    PF4=main menu    PF5=terminate    PF6=select criteria    PF9=save criteria
```

Figure 5-69. Sort Criteria Screen for the Quick Look Report

The state, county, site, POC, and date fields are added to your sort sequence automatically if you do not specify them. This is done to ensure that the sorting process will eliminate any duplicate records from the report. (Duplicates could occur if a monitoring site were selected by more than one of your selection "cards".) The fields are inserted at the end of the sequence you specified.

Instructions

Read Section 3.6.4 of this manual if you are not familiar with how to use the sort criteria screen.

Choose any or all of the allowed sort fields, subject to the following rules:

1. Parameter is always the first sort field.
2. If you use EPA region, it must be the second sort field.
3. State must precede county and city.
4. City or county must precede site.

Error Messages

The error messages listed below (in alphabetical order) are displayed at the top of the sort criteria screen if you make a mistake in specifying sort options.

CITY OR COUNTY REQUIRED BEFORE SITE

Sorting by site without also specifying county or city was requested, or site was specified before city or county. Since site is meaningful only within county, state and county or state and city must be specified before site in the sort sequence. (If city is specified, county is inserted automatically in the sort sequence just before site.) Add the necessary field(s) to the sort sequence or change the order so site is after city and county.

ERROR - REPEATED SORT CRITERIA

Each sort criterion may be entered only once.

ONLY PARAMETER OR REGION ALLOWED BEFORE STATE

State may only be preceded by parameter or region.

PLEASE ENTER A NUMBER IN THE RANGE 1 THROUGH 14

Valid sort criteria are in the range 1 through 14.

PLEASE USE A VALID PF-KEY

A PF key not defined for this screen was used.

REGION CAN ONLY BE THE SECOND SORT CRITERION

Region must be entered immediately after parameter.

STATE CODE REQUIRED BEFORE CITY

Sorting by city without also specifying state was requested, or city was specified before state. Since city is meaningful only within state, state must be specified before city in the sort sequence. Add state to the sort sequence, eliminate city, or change the order so city is after state.

STATE CODE REQUIRED BEFORE COUNTY

Sorting by county without also specifying state was requested, or they were specified in the wrong order. Since county is meaningful only within state, state must be specified before county in the sort sequence. Add state to the sort sequence, eliminate county, or change the order so county follows state.

STATE CODE REQUIRED BEFORE REPORT-ORG

Sorting by reporting organization without also specifying state was requested, or reporting organization was specified before state. Since reporting organization is meaningful only within state, state must be specified before reporting organization in the sort sequence. Add state to the sort sequence, eliminate reporting organization, or change the order so reporting organization is after state.

5.20 Pollutant Data Summary Report Program (AMP460)

5.20.1 Description

The Pollutant Data Summary Report Program summarizes the amount of data reported for pollutants by air quality monitors. This report contains two parts. The first contains data specific to each pollutant for the year(s) selected, including data completeness, exceedance values, the 10 highest values within a year(s), and information relating to the monitor which extracts data for the pollutant. The second is a summary report that lists the number of records read from the Expanded Monitor File and the number of records that were written to the Pollutant Data Summary Report.

The Pollutant Data Summary Reports show data summarized for a complete calendar year. Although each report is specific to the pollutant being reported, they all show similar data. Figure 5-70 shows a sample report for each of the seven criteria pollutants.

Total Suspended Particulate (TSP-11101) shows the 10 highest values for the year being reported, values reported for the year that are greater than or equal to 150, percent data completeness for each month during the year, and other general information related to the pollutant.

Particulate matter (PM_{10}-81102) shows the 10 highest values for the reported year, the 10 highest values for the year reported plus the two previous years, values reported for the year that are greater than or equal to 150, the percent data completeness for each month during the year, and other general information related to the pollutant.

Lead (Pb-12128) shows the 10 highest values for the reported year and the percent completeness for each month during the year for daily data (interval 7 or 8). This is not reported for composite data (interval C). For all intervals, the other general information is shown for the pollutant.

Carbon monoxide (CO-42101) shows the 10 highest 1-hour values for the reported year (interval 1), the 10 highest 8-hour running values for the reported year (interval Z), exceedance information - values greater than or equal to 35.5 for interval 1 and values greater than or equal to the standard value primary for interval Z, percent data completeness for each month for the reported calendar year, and other general information related to the pollutant.

Sulfur dioxide (SO_2-42401) shows the 10 highest 1-hour values for the reported year (interval 1), the 10 highest 3-hour running or block values for the reported year (interval Y), the 10 highest 24-hour running or block values for the reported year (interval X), the exceedance information - values greater than or equal to .14 for interval X and values greater than or equal to .50 for interval Y, percent data completeness for each month of the calendar year being reported, and other general information related to the pollutant.

Nitrogen dioxide (NO_2-42602) shows the 10 highest values for the year being reported, percent data completeness for each month of the reported calendar year, and other general information related to the pollutant.

Ozone (O_3-44201) shows the 10 highest values for the reported year, the 10 highest values for the reported year plus the two previous years, values greater than or equal to .12, percent data completeness for each month of the reported calendar year if a year is selected for the reporting period or the percent data completeness for each month contained in the ozone season if seasonal is selected for the reporting period, and other general information related to the pollutant.

09/27/91 EPA AEROMETRIC INFORMATION RETRIEVAL SYSTEM (AIRS) PAGE: 2
AMP460RP AIR QUALITY SUBSYSTEM
POLLUTANT DATA SUMMARY REPORT

* PARAMETER: (11101) TOTAL SUSPENDED PART POC: 2 UNIT: MICROGRAMS PER CUBIC METER STATE: IOWA AQCR: (089) *

SITE-ID	YEAR	COUNTY NAME	CITY NAME	STREET ADDRESS	MON TYPE
19-033-0011	86	CERRO GORDO CO	MOAB	WATER PLANT	2 81/01/01

REP ORG	METHOD	INTERVAL	SAMPLE FREQ	DATE SAMPLE FREQ VALID	NUMBER OBS	ADD L SAMPLES	EX. EVENT	ANN ARITH MEAN	ANN GEO MEAN	NUM OBS >= 150
004	091	24 HOUR	06	01/01	30	0	NO	70.2 ?	62.6	2

TEN HIGHEST 24-HOUR VALUES; VALIDITY FLAGS; DATES (MM/DD)

1)	2)	3)	4)	5)	6)	7)	8)	9)	10)
173	155	134	107	105	100	94	91	84	80
03/15	01/26	04/08	05/08	02/14	06/13	04/20	06/07	03/27	03/03

VALUES GREATER THAN OR EQUAL TO 150 UG/M3; VALIDITY FLAGS; DATES (MM/DD)

VALUE	DATE	VALUE	DATE	VALUE	DATE	VALUE	DATE	VALUE	DATE
155	00/01	172	00/03	0	/	0	/	0	/

PERCENT DATA COMPLETENESS FOR:	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
	100	100	100	100	100	100	000	000	000	000	000	000

MASON CITY WATER WORKS ACTIVE 11/69

Figure 5-70. Pollutant Data Summary Report (1 of 7)

```
09/27/91                    EPA AEROMETRIC INFORMATION RETRIEVAL SYSTEM (AIRS)                    PAGE:    1
AMP460RP                              AIR QUALITY SUBSYSTEM
                                  POLLUTANT DATA SUMMARY REPORT

**********************************************************************************************************
* PARAMETER: (81102) PM-10          POC: 1  UNIT:  MICROGRAMS PER CUBIC METER     STATE: CONNECTICUT     AQCR: (042) *
**********************************************************************************************************

SITE-ID     YEAR COUNTY NAME                CITY NAME                STREET ADDRESS                    MON TYPE
09-003-0015 89   HARTFORD CO                AIEA                     MELCO, 400 SHELDON STREET          1  88/09/22

                                  MINIMUM   REQ D      REQ D                                 YEARLY    ACTUAL    EST.
     REP                          SAMPLE    SAMPLE     SAMPLE FREQ          NUMBER  EX.      MTD ARITH NUMBER    NUMBER
     ORG    METHOD    INTERVAL    FREQ.     FREQ.      EFF DATE             OBS     EVENT    MEAN      EXCEED S  EXCEED S
     001      062     24 HOUR       06        6        87/07/01             59      NO       29.5        3         .00

                    TEN HIGHEST 24-HOUR VALUES; REPORT YEAR; VALIDITY FLAGS; DATES (MM/DD)

 1) 163    2) 155    3) 154    4) 65     5) 59     6) 54     7) 47     8) 47     9) 46     10) 46
    07/15     04/22     11/24     12/12     07/27     02/27     10/25     12/06     06/27      12/24

                TEN HIGHEST 24-HOUR VALUES; LAST THREE YEARS; VALIDITY FLAGS; DATES (YY/MM/DD)

 1) 163    2) 155    3) 154    4) 88     5) 65     6) 59     7) 59     8) 59     9) 59     10) 59
    89/07/15  89/04/22  89/11/24  88/01/16  89/12/12  89/07/27  88/01/28  88/02/09  88/06/14   88/07/08

                VALUES GREATER THAN OR EQUAL TO 150 UG/M3; VALIDITY FLAGS; DATES (MM/DD)

      VALUE   DATE        VALUE   DATE        VALUE   DATE        VALUE   DATE        VALUE   DATE
        155   04/22         163   07/15         154   11/24           0   /               0   /

PERCENT DATA COMPLETENESS FOR:   JAN  FEB  MAR  APR  MAY  JUN  JUL  AUG  SEP  OCT  NOV  DEC
                                 100  100  100  100  100  100  100  100  100  100  100  100
SHELDON STREET CHARTER OAK VAN DYKE NEAR I91 AND WHITEHEAD HIGHWAY
```

Figure 5-70. Pollutant Data Summary Report (2 of 7)

09/19/91 EPA AEROMETRIC INFORMATION RETRIEVAL SYSTEM (AIRS) PAGE: 1
AMP460RP AIR QUALITY SUBSYSTEM
POLLUTANT DATA SUMMARY REPORT

* PARAMETER: (12128) LEAD POC: 2 UNIT: UG/CU METER (25 C) STATE: MASSACHUSETTS AQCR: (121) *

SITE-ID	YEAR	COUNTY NAME	CITY NAME	STREET ADDRESS	MON	TYPE
25-017-0006	87	MIDDLESEX CO	MOAB	LOWELL YMCA, 35 YMCA DRIVE	2	82/01/01

REP ORG	METHOD	INTERVAL	NUMBER OBS	EX. EVENT	QUARTERLY NUMBER OF OBS AND ARITHMETIC MEAN 1ST QTR OBS	1ST QTR MEAN	2ND QTR OBS	2ND QTR MEAN	3RD QTR OBS	3RD QTR MEAN	4TH QTR OBS	4TH QTR MEAN
001	092	24 HOUR	0058	NO	13	0.0860	15	0.0430	16	0.0380	14	0.0700

TEN HIGHEST 24-HOUR VALUES; VALIDITY FLAGS; DATES (MM/DD)

1)	2)	3)	4)	5)	6)	7)	8)	9)	10)
0.20	0.20	0.14	0.14	0.12	0.11	0.10	0.09	0.09	0.09
01/09	02/20	01/21	12/05	10/12	01/05	03/25	01/15	10/06	12/23

PERCENT DATA COMPLETENESS FOR:	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
	080	080	100	100	100	100	100	100	100	100	080	100

NAMS/SLAMS/NASN

Figure 5-70. Pollutant Data Summary Report (3 of 7)

09/27/91 EPA AEROMETRIC INFORMATION RETRIEVAL SYSTEM (AIRS) PAGE: 1
AMP460RP AIR QUALITY SUBSYSTEM
POLLUTANT DATA SUMMARY REPORT

* PARAMETER: (42101) CARBON MONOXIDE POC: 1 UNIT: PARTS PER MILLION STATE: MASSACHUSETTS AQCR: (119) *

SITE-ID	YEAR	COUNTY NAME	CITY NAME	STREET ADDRESS	MON TYPE
25-025-0021	87	SUFFOLK CO	MOAB	340 BREMAN STREET, EAST BOSTON	1 83/03/25

REP ORG	METHODS	INTERVAL	NUM 1 HR OBS	EX. EVENT	ANNUAL ARITH MEAN	NUM 8 HR VALS > 9	NUM 1 HR VALS > 35	DESIGN VAL
001	011	01 HOUR	8431	NO	1.01	3	2	12C

TEN HIGHEST 01-HOUR VALUES; VALIDITY FLAGS; DATE AND HOUR (MM/DD:HH)

1)	2)	3)	4)	5)	6)	7)	8)	9)	10)
41.0	36.0	35.0	15.0	12.0	9.0	8.0	8.0	8.0	8.0
08/30:16	08/27:01	09/25:02	01/09:23	01/10:00	01/10:01	01/09:22	01/10:02	01/10:04	03/07:06

TEN HIGHEST 08-HOUR RUNNING AVERAGES; VALIDITY FLAGS; DATE AND HOUR (MM/DD:HH)

1)	2)	3)	4)	5)	6)	7)	8)	9)	10)
21.0	10.0	9.9	9.1	8.9	8.5	8.4	8.3	7.9	7.1
01/03:20	01/02:17	06/18:19	01/10:05	01/10:04	01/10:06	01/10:03	01/10:02	01/10:01	01/10:00

STANDARDS VIOLATIONS

STANDARD	OFFICIAL EXCEEDANCE VALUE	EXCEEDANCE DATE:HR	<-EXCEEDANCE PERIOD-> DATE AND TIME AT BEGIN OF FIRST RUNNING AVG	DATE AND TIME AT END OF LAST RUNNING AVG	LENGTH OF PERIOD (HRS)	MAX. AVG. IN PERIOD
1HR	36.0	08/27:01	08/27:01	08/27:08	7	36.0
1HR	41.0	08/30:16	08/30:16	08/30:23	7	41.0
8HR	10.0	01/02:17	01/02:17	01/03:00	7	10.0
8HR	21.0	01/03:20	01/03:20	01/04:03	7	21.0
8HR	9.9	06/18:19	06/18:19	06/19:02	7	9.0

PERCENT DATA COMPLETENESS FOR:	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
	099	099	099	100	096	092	093	079	100	099	099	099

NAMS/EMSL SAMPLING SITE; ROADS ARE BREMAN, RTE 1A, PRESCOTT

Figure 5-70. Pollutant Data Summary Report (4 of 7)

09/27/91 EPA AEROMETRIC INFORMATION RETRIEVAL SYSTEM (AIRS) PAGE: 1
AMP460RP AIR QUALITY SUBSYSTEM
POLLUTANT DATA SUMMARY REPORT

* PARAMETER: (42401) SULFUR DIOXIDE POC: 1 UNIT: PARTS PER MILLION STATE: IOWA AQCR: (069) *

SITE-ID	YEAR	COUNTY NAME	CITY NAME	STREET ADDRESS		MON TYPE
19-045-0018	86	CLINTON CO	MOAB	23RD PLACE & IOWA AVE	CHANCEY	2 86/01/01

REP ORG	METHOD	INTERVAL	NUMBER 01 HR OBS	EX. EVENT	ANNUAL ARITH MEAN	NUM 24 HR VALS > .14	NUM 3 HR VALS > 0.5
003	020	01 HOUR	152	NO	0.0223 ?	6	1

TEN HIGHEST 01-HOUR VALUES; VALIDITY FLAGS; DATE AND HOUR (MM/DD:HH)

1)	2)	3)	4)	5)	6)	7)	8)	9)	10)
0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500
01/21:10	01/24:10	01/28:14	02/26:00	03/08:07	03/08:08	03/24:13	03/24:15	03/24:16	03/24:19

TEN HIGHEST 03-HOUR BLOCK AVERAGES; VALIDITY FLAGS; DATE AND HOUR (MM/DD:HH)

1)	2)	3)	4)	5)	6)	7)	8)	9)	10)
0.500	0.471	0.437	0.406	0.403	0.394	0.372	0.361	0.355	0.349
04/27:23	03/08:08	03/24:20	01/24:11	04/18:11	01/24:17	06/25:08	03/24:17	05/03:23	04/27:20

TEN HIGHEST 24-HOUR BLOCK AVERAGES; VALIDITY FLAGS; DATE AND HOUR (MM/DD:HH)

1)	2)	3)	4)	5)	6)	7)	8)	9)	10)
0.199	0.190	0.175	0.171	0.161	0.146	0.130	0.124	0.112	0.097
04/27:23	03/24:23	01/24:23	04/18:23	03/08:23	04/23:23	06/25:23	04/26:23	02/25:23	06/03:23

STANDARDS VIOLATIONS

STANDARD	OFFICIAL EXCEEDANCE VALUE	EXCEEDANCE PERIOD: DATE:HR	DATE AND TIME AT BEGIN OF FIRST RUNNING AVG	DATE AND TIME AT END OF LAST RUNNING AVG	LENGTH OF PERIOD (HRS)	MAX. AVG. IN PERIOD
3HR	0.500	04/27:23	04/27:23	04/28:23	24	0.500
24HR	0.175	01/24:23	01/24:23	01/25:23	24	0.175
24HR	0.161	03/08:23	03/08:23	03/09:23	24	0.161
24HR	0.190	03/24:23	03/24:23	03/25:23	24	0.190
24HR	0.171	04/18:23	04/18:23	04/19:23	24	0.171
24HR	0.146	04/23:23	04/23:23	04/24:23	24	0.146
24HR	0.199	04/27:23	04/27:23	04/28:23	24	0.199

PERCENT DATA COMPLETENESS FOR:	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
	090	047	091	043	087	073						

OPERATED BY UNL STARTED 4/85

Figure 5-70. Pollutant Data Summary Report (5 of 7)

09/27/91 EPA AEROMETRIC INFORMATION RETRIEVAL SYSTEM (AIRS) PAGE: 1
AMP460RP AIR QUALITY SUBSYSTEM
POLLUTANT DATA SUMMARY REPORT

* PARAMETER: (42602) NITROGEN DIOXIDE POC: 1 UNIT: PARTS PER MILLION STATE: MASSACHUSETTS AQCR: (042) *

SITE-ID	YEAR	COUNTY NAME	CITY NAME	STREET ADDRESS	MON	TYPE
25-013-0015	87	HAMPDEN CO	MOAB	SPRINGFIELD COMMUNITY COLLEGE,	2	83/01/01

REP ORG	METHOD	INTERVAL	NUMBER OBS	EX. EVENT	ANNUAL ARITH MEAN
001	014	01 HOUR	8509	NO	.0223

TEN HIGHEST 01-HOUR VALUES, VALIDITY FLAGS, DATE AND HOUR (MM/DD:HH)

1) 0.139	2) 0.112	3) 0.111	4) 0.103	5) 0.094	6) 0.093	7) 0.092	8) 0.090	9) 0.088	10) 0.088
01/29:11	01/29:12	11/04:18	01/29:10	03/25:10	01/15:11	11/04:19	11/08:18	03/08:20	11/05:01

PERCENT DATA COMPLETENESS FOR:	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
	100	099	099	098	097	098	089	099	098	099	094	097

START JAN 81

Figure 5-70. Pollutant Data Summary Report (6 of 7)

09/19/91 EPA AEROMETRIC INFORMATION RETRIEVAL SYSTEM (AIRS) PAGE: 2
AMP460RP AIR QUALITY SUBSYSTEM
POLLUTANT DATA SUMMARY REPORT

* PARAMETER: (44201) OZONE POC: 1 UNIT: PARTS PER MILLION STATE: NORTH CAROLINA AQCR: (166) *

SITE-ID	YEAR	COUNTY NAME	CITY NAME	STREET ADDRESS	MON TYPE
37-183-2001	88	MAKE CO	MOAB	HWY 98 MAKE FORREST WATER TREA	1 81/04/01

REP ORG	METHODS	INTERVAL	OZONE SEASON	NUMBER OBS	EX. EVENT	NUM DAILY MAXIMA: >= 0.125	>=0.205	AVG # EXP EXC S LAST 3 YEARS	MISS DLY MAX ASS. < STD	% POS.VAL. DAILY MAX	DESIGN VALUE
001	014	01 HOUR	04/20 - 10/20	4765	NO	25	0	4.10(3 YRS)	2	97 %	141

TEN HIGHEST 1-HOUR DAILY MAXIMA; REPORT YEAR; VALIDITY FLAGS; DATE AND HOUR (MM/DD:HH)

1) 0.159	2) 0.142	3) 0.141	4) 0.140	5) 0.139	6) 0.138	7) 0.137	8) 0.137	9) 0.135	10) 0.135
08/19:13	07/07:15	06/22:14	07/09:12	07/09:11	07/07:14	06/01:13	06/23:15	06/22:13	07/07:16

TEN HIGHEST 1-HOUR DAILY MAXIMA; LAST THREE YEARS; VALIDITY FLAGS; DATE AND HOUR (YY/MM/DD:HH)

1) 0.159	2) 0.142	3) 0.141	4) 0.140	5) 0.139	6) 0.138	7) 0.137	8) 0.137	9) 0.135	10) 0.135
88/08/19:13	88/07/07:15	88/06/22:14	88/07/09:12	88/07/09:11	88/07/07:14	88/06/01:13	88/06/23:15	88/06/22:13	88/07/07:16

DAILY MAXIMA GREATER THAN OR EQUAL TO THE 1 HOUR STANDARD OF 0.12 PARTS PER MILLION

VALUE	DATE:HOUR	VALUE	DATE:HOUR	VALUE	DATE:HOUR	VALUE	DATE:HOUR	VALUE	DATE:HOUR	VALUE	DATE:HOUR
0.132	06/01:11	0.133	06/01:12	0.137	06/01:13	0.127	06/01:14	0.126	06/13:16	0.125	06/21:15
0.125	06/22:10	0.128	06/22:11	0.131	06/22:12	0.135	06/22:13	0.141	06/22:14	0.130	06/22:15
0.128	06/23:13	0.132	06/23:14	0.137	06/23:15	0.138	07/07:14	0.142	07/07:15	0.135	07/07:16
0.129	07/07:17	0.139	07/09:11	0.140	07/09:12	0.129	07/09:13	0.125	08/18:11	0.135	08/18:15
0.159	08/19:13	0.000	/ :	0.000	/ :	0.000	/ :	0.000	/ :	0.000	/ :

PERCENT DATA COMPLETENESS FOR:	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
				09%	09%	09%	09%	08%	09%	09%		

RALEIGH DOWNWIND OZONE SITE

Figure 5-70. Pollutant Data Summary Report (7 of 7)

5.20.2 Report Generation Options

The options available for the Pollutant Data Summary Report have to do with output medium (printed report or workfile) or report content. The report options screen, shown in Figure 5-71, allows you to select the type(s) of output or content you want.

The default option is to generate a printed report that includes any exceptional event data, to include block averages for SO_2 (sulfur dioxide), and to report O_3 (ozone) for the season. If you are using report criteria for the Pollutant Data Summary Report that you saved previously, your saved specifications for report options are displayed instead of the default.

The workfile format for this report is given in Volume AQ1.

```
10/02/91                AIRS Air Quality Subsystem                AMP460A
                              Report Options

Report Name:  POLLUTANT DATA SUMMARY                Criteria Name:

                         Enter X for desired Option(s)

              Choose at least one output

              X 1.  Generate a printed report
              _ 2.  Generate a workfile (Enter name below):
                    KUFASWD . _______ . _______ . _______ . _______

              Choose desired report options

              X 3.  Include exceptional event data
              X 4.  Block averages for SO2
              _ 5.  Running averages for SO2
              X 6.  Ozone season report for O3
              _ 7.  Full year report for O3

   PF3=end       PF4=main menu       PF5=terminate       PF9=save criteria
```

Figure 5-71. Report Options Screen for the Pollutant Data Summary Report

Instructions

You may choose at least one type of output:

option 1	generate a printed report
option 2	generate a workfile

If you choose a printed report (option 1), you may choose any of the following report options:

option 3	include exceptional event data
option 4	block averages for SO_2
option 5	running averages for SO_2
option 6	ozone season report for O_3
option 7	full year report for O_3

Error Messages

The error messages listed below are displayed at the top of the report options screen if you make a mistake in specifying report options.

DATASET NAME IS INVALID

The dataset name fields on the Report Options Screen allow entry of names with the format "iiiaaaa.name1.name2.name3.name4". The highest level qualifier "iiiaaaa" consists of the user's NCC user-id and account code.

DATASET NAME NOT ALLOWED WITHOUT SPECIFYING OPTION 2

A dataset name may not be entered without selecting the workfile option (option 2).

PLEASE CHOOSE AT LEAST ONE OUTPUT (OPTION 1 OR 2)

At least one type of Pollutant Data Summary Report option must be selected.

PLEASE CHOOSE ONLY ONE OZONE REPORTING METHOD

Only one reporting method for ozone may be chosen.

PLEASE CHOOSE ONLY ONE SO2 AVERAGING METHOD

Only one averaging method for sulfur dioxide may be chosen.

PLEASE ENTER A VALID DATASET NAME

If workfile output is selected, a dataset name must be entered. The dataset name fields on the Report Options Screen allow entry of names with the format "iiiaaaa.name1.name2.name3.name4". The highest level qualifier "iiiaaaa" consists of the user's NCC user-id and account code.

PLEASE ENTER BLANK OR 'X'

For all report options only a blank or an 'X' is a valid value.

5.20.3 Data Selection Options

You may select which monitors are included in the Pollutant Data Summary Report using the select criteria screen. A sample screen is shown in Figure 5-72. The leftmost portion of the screen is shown at the top of the figure and the rightmost portion is shown at the bottom.

There are two groups of selection criteria. The first group consists of basic report options that must always be selected:

parameter + begin year + end year

The second group consists of "geographic" criteria. Only certain combinations of these fields may be selected. You may use any one of the following combinations of geographic selection fields:

state (code or abbreviation)
state + county
state + county + site
state + reporting organization
state + city
state + AQCR
AQCR
urban area
MSA
CMSA
MSA-rep
CMSA-rep
status area

In addition to the monitor type codes listed in Volume GC2 of the AIRS User's Guide, you may use the code "B" to select both NAMS and SLAMS monitors and code "P" to select PAMS monitors.

Online Help is available for all of the selection criteria fields except BEGIN-DATE and END-DATE. The Help facility allows you to browse through tables of values, with descriptions, for the codes you need to enter, and then to select the value that you wish to use. The Help facility is described in detail in Section 3.6.4.

```
09/30/92                    AIRS Air Quality Subsystem                    AMP460B
                                 Select Criteria                          Page 1/2

Report Name:  POLLUTANT DATA SUMMARY                    Criteria Name:

                        PARA-                  BEGIN  END   MON                REP  URBAN
  ST  CNTY  SITE        METER   METH INT       YEAR   YEAR  TYPE  CITY   AQCR  ORG  AREA
  __  ___   ____        _____     _    __      ____   ____  ____  _____  ____  ___  ____
  __  ___   ____        _____     _    __      ____   ____  ____  _____  ____  ___  ____
  __  ___   ____        _____     _    __      ____   ____  ____  _____  ____  ___  ____
  __  ___   ____        _____     _    __      ____   ____  ____  _____  ____  ___  ____
  __  ___   ____        _____     _    __      ____   ____  ____  _____  ____  ___  ____
  __  ___   ____        _____     _    __      ____   ____  ____  _____  ____  ___  ____
  __  ___   ____        _____     _    __      ____   ____  ____  _____  ____  ___  ____
  __  ___   ____        _____     _    __      ____   ____  ____  _____  ____  ___  ____
  __  ___   ____        _____     _    __      ____   ____  ____  _____  ____  ___  ____
  __  ___   ____        _____     _    __      ____   ____  ____  _____  ____  ___  ____

PF1=help    PF2=duplicate  PF3=end  PF4=main menu  PF5=terminate  PF6=rpt options
PF7=back    PF8=more       PF9=save criteria      PF10=left      PF11=right
```

```
09/30/92                    AIRS Air Quality Subsystem                    AMP460B
                                 Select Criteria                          Page 2/2

Report Name:  POLLUTANT DATA SUMMARY                    Criteria Name:

                        MSA    CMSA   STATUS
  MSA   CMSA            REP    REP    AREA
  ____  ____            ____   ____   ____
  ____  ____            ____   ____   ____
  ____  ____            ____   ____   ____
  ____  ____            ____   ____   ____
  ____  ____            ____   ____   ____
  ____  ____            ____   ____   ____
  ____  ____            ____   ____   ____
  ____  ____            ____   ____   ____
  ____  ____            ____   ____   ____
  ____  ____            ____   ____   ____

PF1=help    PF2=duplicate  PF3=end  PF4=main menu  PF5=terminate  PF6=rpt options
PF7=back    PF8=more       PF9=save criteria      PF10=left      PF11=right
```

Figure 5-72. Select Criteria Screen for the Pollutant Data Summary Report

Instructions

Enter selection criteria into the available fields on the select criteria screen, or alter the previously saved criteria displayed on the screen if you wish. You must specify at least one line on the screen. Press the ENTER key when you have finished entering or altering the criteria.

Read Section 3.6.3 if you are not familiar with how to use the select criteria screen. Refer to Volume GC2 of the AIRS User's Guide for lists of valid codes to use for selection criteria.

Press PF1=help for general information about the select criteria process. For Field-specific Help, enter a "?" in the first position of any field (except BEGIN-DATE or END-DATE).

Error Messages

The error messages listed below are displayed at the top of the select criteria screen if you make a mistake in specifying selection criteria. See Volume GC4 of the AIRS User's Guide for explanations of the error messages that you may encounter while using Field-specific Help.

A PARAMETER IS REQUIRED FOR STATUS-AREA CODE
If status area is entered, parameter must be entered.

A STATE IS REQUIRED FOR THE CITY
If city is entered, state must be entered.

A STATE IS REQUIRED FOR COUNTY
If county is entered, state must be entered.

A STATE IS REQUIRED FOR REPORT-ORG
If reporting organization is entered, state must be entered.

BEGIN-END DATE RANGE INCLUDES ARCHIVED YEAR(S)
At least one year in the range between begin year and end year has been removed from the raw data files.

BEGIN-YEAR IS ARCHIVED
The begin year entered has been removed from the raw data files.

BEGIN-YEAR IS < 57 OR > CURRENT YEAR
The begin year entered is < 57 or > current year.

END-YEAR IS ARCHIVED
The end year entered has been removed from the raw data files.

END-YEAR IS < 57 OR > CURRENT YEAR
The end year entered is < 57 or > current year.

ENTER SELECTION CRITERIA OR USE A PF-KEY TO ESCAPE
ENTER was pressed without any selection criteria specified. Either specify criteria and press ENTER or use one of the valid PF keys to transfer to another screen or terminate the AIRS session.

PARAMETER CODE IS REQUIRED FOR THIS REPORT
Parameter code must be valued.

PF2 INVALID - MAXIMUM NUMBER OF SELECT CRITERIA HAS BEEN SPECIFIED
The selection criteria screen is full when PF2 is pressed.

PF2 INVALID - THERE ARE NO SELECTION CRITERIA TO DUPLICATE
There are no selection criteria entered when PF2 is pressed.

PF7 INVALID - THIS IS THE FIRST SELECT CRITERIA SCREEN
Do not press PF7 from the first select criteria screen; it is used to page backward.

PF8 INVALID - THIS IS THE FINAL SELELCT CRITERIA SCREEN
Do not press PF8 from the last select criteria screen; it is used to page forward.

PF10 INVALID - THIS IS THE LEFT-MOST SELECT CRITERIA SCREEN
Do not press PF10 while the leftmost select criteria screen is displayed.

PF11 INVALID - THIS IS THE RIGHT-MOST SELECT CRITERIA SCREEN
Do not press PF11 while the rightmost select criteria screen is displayed.

PLEASE DO NOT ENTER BOTH STATE AND CMSA CODE
Do not enter both state and CMSA code.

PLEASE DO NOT ENTER BOTH STATE AND CMSA-REP CODE
Do not enter both state and CMSA-rep code.

PLEASE DO NOT ENTER BOTH STATE AND MSA CODE
Do not enter both state and MSA code.

PLEASE DO NOT ENTER BOTH STATE AND MSA-REP CODE
Do not enter both state and MSA-rep code.

PLEASE DO NOT ENTER BOTH STATE AND STATUS-AREA CODE
Do not enter both state and status area code.

PLEASE DO NOT ENTER BOTH STATE AND URBAN-AREA CODE
A value is entered for both state and urban area.

PLEASE ENTER A NUMERIC BEGIN YEAR
The begin year entered is not numeric.

PLEASE ENTER A NUMERIC END YEAR
The end year entered is not numeric.

PLEASE ENTER A VALID AQCR CODE
The AQCR code is not in the AIRS GEO-COMMON File.

PLEASE ENTER A VALID CITY CODE
The combination of state and city is not in the AIRS GEO-COMMON File.

PLEASE ENTER A VALID CMSA CODE
The CMSA code entered must be in the AIRS GEO-COMMON File.

PLEASE ENTER A VALID CMSA-REP CODE
The CMSA-rep code entered must be in the AIRS GEO-COMMON File.

PLEASE ENTER A VALID COUNTY CODE
The combination of state and county is not in the AIRS GEO-COMMON File.

PLEASE ENTER A VALID INTERVAL CODE (1, 7, 8, OR C)
The interval code entered is not '1', '7', '8', or 'C'.

PLEASE ENTER A VALID INTERVAL FOR THE PARAMETER CODE
The interval code entered is not valid for the parameter.

PLEASE ENTER A VALID MONITOR TYPE
The monitor type code is not valid. Use a code listed in Volume GC2, or use "B" to select both NAMS and SLAMS monitor types or "P" to select PAMS monitor types.

PLEASE ENTER A VALID MSA CODE
The MSA code entered must be in the AIRS GEO-COMMON File.

PLEASE ENTER A VALID MSA-REP CODE
The MSA-rep code entered must be in the AIRS GEO-COMMON File.

PLEASE ENTER A VALID PARAMETER CODE (CRITERIA POLLUTANTS AND TSP ONLY)
The parameter must be:

11101	(TSP)	42101	(CO)	42602	(NO_2)		
12128	(Pb)	42401	(SO_2)	44201	(O_3)	81102	(PM_{10})

PLEASE ENTER A VALID REPORT-ORG
The combination of state and reporting organization is not in the AIRS GEO-COMMON File.

PLEASE ENTER A VALID SITE CODE
The combination of state, county, and site is not in the AIRS GEO-COMMON File.

PLEASE ENTER A VALID STATE ABBREVIATION
The state abbreviation is not valid.

PLEASE ENTER A VALID STATE CODE
The state code is not in the AIRS GEO-COMMON File.

PLEASE ENTER A VALID STATUS-AREA CODE FOR PARAMETER
The combination of status area and parameter entered must be in the AIRS GEO-COMMON File.

PLEASE ENTER A VALID URBAN-AREA CODE
The urban area code entered is not in the AIRS GEO-COMMON File.

PLEASE ENTER A VALID 2-DIGIT BEGIN-YEAR
The begin year entered is not in YY format.

PLEASE ENTER AN END YEAR THAT IS GREATER THAN OR EQUAL TO THE BEGIN YEAR
The end year is less than the begin year.

PLEASE ENTER ONE: STATE, PARAMETER, AQCR, URBAN-AREA, MSA, CMSA, MSA-REP, CMSA-REP, OR STATUS AREA
One of the geographic criteria or parameter must be used in each line of select criteria.

PLEASE ENTER ONLY ONE: AQCR, URBAN-AREA, CITY, REPORT-ORG, COUNTY, MSA, CMSA, MSA-REP, CMSA-REP, OR STATUS-AREA
Only the combinations of geographic selection criteria listed at the beginning of this section are valid.

PLEASE FILL ALL LINES BEFORE GOING ON TO THE NEXT SCREEN
PF8 is valid only when the current screen is full or when there are more criteria on a subsequent screen.

PLEASE USE A VALID PF-KEY
A PF key not defined for this screen was used.

REPORT BEGINNING YEAR IS REQUIRED FOR THIS REPORT
A begin year must be entered.

REPORT ENDING YEAR IS REQUIRED FOR THIS REPORT
An end year must be entered.

STATUS-AREA CODE NOT ALLOWED WITH THIS PARAMETER
A status area was entered for a parameter that does not allow entry of a status area.

THE COUNTY CODE IS REQUIRED WITH THE SITE CODE

When specifying a site, the county must be entered.

5.20.4 Data Sorting Options

The sort sequence you specify determines the order of monitoring site entries in the Pollutant Data Summary report and workfile. The sort criteria screen, shown in Figure 5-73, allows you to establish the sort sequence. The default sort sequence is by parameter, state, county, site, POC, interval, monitor type, reporting organization, and year.

You may alter or delete the existing sort sequence and enter new sort criteria, using any of the numbered fields shown on the screen.

Parameter must always be the first sort selection criterion; this default value cannot be changed.

```
10/02/91                AIRS Air Quality Subsystem                AMP460C
                            Sort Criteria

Report Name:  POLLUTANT DATA SUMMARY                 Criteria Name:

     1.  State              6.  Reporting Org            Method
     2.  County                 Urban Area          12.  Interval
     3.  Site                   EPA Region          13.  Monitor Type
     4.  Parameter          9.  City                14.  Year
     5.  POC               10.  AQCR

 Enter the numbers of the Sort Elements above in the desired Sort Sequence:

          04  01  02  03  05  12  13  06  14  __  __



PF3=end  PF4=main menu  PF5=terminate  PF6=select criteria  PF9=save criteria
```

Figure 5-73. Sort Criteria Screen for the Pollutant Data Summary Report

Instructions

Read Section 3.6.4 of this manual if you are not familiar with how to use the sort criteria screen.

Choose any or all of the allowed sort fields as sort criteria, taking into consideration the following rule:

PARAMETER must always be the first sort selection.

Error Messages

The error messages listed below are displayed at the top of the sort criteria screen if you make a mistake in specifying sort criteria.

CITY OR COUNTY REQUIRED BEFORE SITE
A value is entered for the site code, but not for the county or city, or the county or city code is entered after the site code.

ERROR - REPEATED SORT CRITERIA
A sort criterion number is repeated.

PLEASE ENTER A NUMBER IN THE RANGE 1 THROUGH 14
A sort criterion number entered is not in the range 1 through 14.

STATE CODE REQUIRED BEFORE CITY
A value is entered for the city code, but not for the state code, or the state code is entered after the city code.

STATE CODE REQUIRED BEFORE COUNTY
A value is entered for the county code, but not for the state code, or the state code is entered after the county code.

STATE CODE REQUIRED BEFORE REPORT-ORG
A value is entered for the reporting organization code, but not for the state code, or the state code is entered after the reporting organization code.

5.21 Screening File Listing (AMP950)

5.21.1 Description

The Screening File Listing Report lists raw data values extracted from a screening file. A separate report is produced for each of the five raw data transaction types: hourly data (type 1), daily data (type 2), composite data (type 3), precision data (type 8), and accuracy data (type 9). A sixth report is produced for all screening file transactions excluding the five data transaction types (hourly, daily, composite, precision, and accuracy). Report options allow selection of data based on exclusion status and edit level of the Screening File records. You can use this report only if you have access to an Air Quality screening file and if you enter the appropriate password on the AIRS user profile screen when you begin your AIRS session.

The Screening File Listing Report lists the record number from the database, monitor-ID, date, action code, interval code, units code, method code, edit level, and exclusion status of every selected screening file record. The following additional information is included in the report formats for the five transaction types:

Hourly Data	-	Start hour
		Eight sample values and validity flags
Daily Data	-	Start hour
		Sampling frequency
		Sample value
		Validity flag
Composite Data	-	Composite period (equivalent to date)
		Number of samples in the composite value
		Composite type
		Sample value
		Validity flag
Precision Data	-	Actual Designated Sample Value
	-	Five Indicated Collocated Sample Values
Accuracy Data	-	Audit Class
	-	Type Audit
	-	Local Standard Source
	-	Five Actual Level Sample Values
	-	Five Indicated Level Sample Values

Edit Level 0 sample values will not be formatted with decimal positions. Hourly transactions containing both null data codes and hourly sample values will not have the null data codes formatted with decimal positions.

A summary report lists the total number of records selected for each transaction type, and the number of records at each edit level.

Figure 5-74 shows a sample Screening File Listing Report.

The Screening File Listing program can also produce a work file that contains extracted screening file data in the format of AIRS input transactions. In other words, this report can be used to convert raw data records from screening file format to AIRS input transaction format.

DATE 93-09-17
AMP950

EPA AEROMETRIC INFORMATION RETRIEVAL SYSTEM (AIRS)
AIR QUALITY SUBSYSTEM
SCREENING FILE LISTING -- HOURLY DATA REPORT
FOR SCREENING FILE ANADBA07

PAGE 1

RECORD NUMBER	SITE-ID	POLL	POC	TRANS TYPE	DATE	HOUR	ACTION CODE	INT	UNITS	METH	HOURLY VALUES 1	2	3	4	5	6	7	8	EDIT LVL	EXCL FLAG
00002440	37-067-0001	42401	1	1	86/06/01	00	I	1	001	014	680	650	685	690	665	660	605	609	0	N
00002441	37-067-0001	42401	1	1	86/06/01	08	I	1	001	014	650	605	690	605	632	599	690	670	0	N
00002442	37-067-0001	42401	1	1	86/06/01	16	I	1	001	014	685	650	655	660	2665	690	685	680	0	N
00002443	37-067-0001	42401	1	1	86/06/02	00	I	1	001	016	680	650	685	690	611	660	615	611	0	N
00002444	37-067-0001	42401	1	1	86/06/02	08	I	1	001	014		610		695	603	635		670	0	N
00002445	37-067-0001	42401	1	1	86/06/02	08	I	1	001	014	650		690		603		620		0	N
00002446	37-067-0001	42401	1	1	86/06/02	16	I	1	001	014	685	650	655	660	605	690	678	680	0	N
00002447	37-067-0001	42401	1	1	86/06/04	00	I	1	001	014	680	1650	1685	5660	665	690	685	680	0	N
00002448	37-067-0001	42401	1	1	86/06/04	16	I	1	001	014	685	650	655	660	665	690	688	620	0	N
00002449	37-067-0001	42401	1	1	86/06/04	18	I	1	001	091	650	615	690	9695A	607	695	690	670	0	N
00002450	37-067-0001	42401	1	1	86/06/05	00	I	1	001	014	640	650	685	660	665	90			0	N
00002451	37-067-0001	42401	1	1	86/06/14	00	I	1	001	014	680	50	1685	90	665	660	655	650	0	N
00002452	37-067-0001	42401	1	1	86/06/14	08	I	1	001	014	650	600	690	695	600	695	692	670	0	N
00002453	37-067-0001	42401	1	1	86/06/14	16	I	1	001	014	685	650	655	1660	1665	1690	1673	1980	0	N
00002454	37-067-0001	42401	1	1	86/06/15	00	I	1	001	014	680	650	685	690	665	660	643	650	0	N
00002455	37-067-0001	42401	1	1	86/06/15	08	I	1	001	014	650	600	690	645	600	695	690	670	0	N
00002456	37-067-0001	42401	1	1	86/06/15	16	I	1	001	014	685	650	655	630	615	690	685	680	0	N
00002457	37-067-0001	42401	1	1	86/06/16	00	I	1	001	014	680	650	685	620	665	660	655	650	0	N
00002458	37-067-0001	42401	1	1	86/06/16	08	I	1	001	014	650	600	690	615	617	695	660	670	0	N
00002459	37-067-0001	42401	1	1	86/06/16	16	I	1	001	014	685	650	655	610	619	622	625	630	0	N
00002460	37-067-0001	42401	1	1	86/06/17	00	I	1	001	014	680	650	685	605	645	660	655	628	0	N
00002461	37-067-0001	42401	1	1	86/06/17	16	I	1	001	014	685	650	655	660	635	642	637	635	0	N
00002462	37-067-0001	42401	1	1	86/06/18	00	I	1	001	014	680	650	685	599	615	644	655	650	0	N
00002463	37-067-0001	42401	1	1	86/06/18	08	I	1	001	014	675	600	690	599	600	695	647	670	0	N
00002464	37-067-0001	42401	1	1	86/06/18	16	I	1	001	014	685	620	652	660	665	690	685	640	0	N
00002465	37-067-0001	42401	1	1	86/06/19	00	I	1	001	014	680	630	685	690	658	660	655	655	0	N
00002466	37-067-0001	42401	1	1	86/06/19	08	I	1	001	014	650	640	661	695	628	655	645	652	0	N
00002467	37-067-0001	42401	1	1	86/06/19	16	I	1	001	014	685	650	663	660	624	690	655	675	0	N
00002468	37-067-0001	42401	1	1	86/06/20	00	I	1	001	014	680	660	667	690	669	660	672	677	0	N
00002469	37-067-0001	42401	1	1	86/06/20	08	I	1	001	014	650	670	690	695	622	682	679	669	0	N
00002470	37-067-0001	42401	1	1	86/06/20	16	I	1	001	014	685	680	655	660	665	690	677	683	0	N
00002471	37-067-0001	42401	1	1	86/06/21	00	I	1	001	014	680	690	685	690	665	650	648	688	0	N
00002472	37-067-0001	42401	1	1	86/06/21	08	I	1	001	014	650	600	690	695	600	645	634	692	0	N
00002473	37-067-0001	42401	1	1	86/06/21	16	I	1	001	014	685	650	655	660	665	640	685	697	0	N
00002474	37-067-0001	42401	1	1	86/07/01	00	I	1	001	014	650	655	660	665	670	675	680	685	0	N
00002475	37-067-0001	42401	1	1	86/07/01	08	I	1	001	014	690	695	700	705	710	715	720	725	0	N
00002476	37-067-0001	42401	1	1	86/07/01	16	I	1	001	014	730	735	740	745	750	755	765	760	0	N
00002477	37-067-0001	42401	1	1	86/07/02	00	I	1	001	014	780	770	775	790	785	795	800	805	0	N
00002478	37-067-0001	42401	1	1	86/07/02	08	I	1	001	014	810	815	820	825	830	835	840	845	0	N
00002479	37-067-0001	42401	1	1	86/07/02	16	I	1	001	014	850	855	865	860	870	875	885	880	0	N
00002480	37-067-0001	42401	1	1	86/07/03	00	I	1	001	014	885	890	895	900	905	910	915	920	0	N
00002481	37-067-0001	42401	1	1	86/07/03	08	I	1	001	014	925	930	922	925	920	925	920	925	0	N
00002482	37-067-0001	42401	1	1	86/07/03	16	I	1	001	014	930	935	930	935	930	935	930	945	0	N
00002483	37-067-0001	42401	1	1	86/07/04	00	I	1	001	014	910	915	920	925	930	930	935	940	0	N
00002484	37-067-0001	42401	1	1	86/07/04	08	I	1	001	014	945	950	955	960	965	970	975	980	0	N
00002485	37-067-0001	42401	1	1	86/07/04	16	I	1	001	014	985	990	995	900	905	910	915	920	0	N
00002486	37-067-0001	42401	1	1	86/07/05	00	I	1	001	014	925	930	935	940	945	950	955	960	0	N
00002487	37-067-0001	42401	1	1	86/07/05	08	I	1	001	014	965	970	980	975	985	995	990	870	0	N
00002488	37-067-0001	42401	1	1	86/07/05	16	I	1	001	014	685	720	755	960	845	990	985	880	0	N
00002489	37-067-0001	42401	1	1	86/07/06	00	I	1	001	014	780	715	785	990	855	960	755	850	0	N
00002490	37-067-0001	42401	1	1	86/07/06	08	I	1	001	014	750	900	990	895	9800	895	990	870	0	N
00002491	37-067-0001	42401	1	1	86/07/06	16	I	1	001	014	685	720	755	860	875	990	785	880	0	N

Figure 5-74. Screening File Listing Report - Hourly Data Format (1 of 7)

DATE 93-09-17 EPA AEROMETRIC INFORMATION RETRIEVAL SYSTEM (AIRS) PAGE 1
AMP950 AIR QUALITY SUBSYSTEM
SCREENING FILE LISTING -- DAILY DATA REPORT
FOR SCREENING FILE ANADBA07

RECORD NUMBER	SITE-ID	POLL	POC	TRANS TYPE	DATE	ACTION CODE	INT	UNITS	METH	START HOUR	FREQ	VALUE	VALIDITY FLAG	EDIT LEVEL	EXCL FLAG
00002797	37-067-0009	42401	1	2	86/08/01	I	7	001	097	08	6			0	N
00002798	37-067-0009	42401	1	2	86/08/02	I	7	001	097	08	6	31		0	N
00002799	37-067-0009	42401	1	2	86/08/03	I	7	001	097	08	6	30		0	N
00002800	37-067-0009	42401	1	2	86/08/04	I	7	001	097	08	6	24		0	N
00002801	37-067-0009	42401	1	2	86/08/05	I	7	001	097	08	6	27		0	N
00002802	37-067-0009	42401	1	2	86/08/06	I	7	001	097	08	6	25		0	N
00002803	37-067-0009	42401	1	2	86/08/07	I	7	002	097	08	6	31		0	N
00002804	37-067-0009	42401	1	2	86/08/08	I	7	001	097	08	6	9999		0	N
00002805	37-067-0009	42401	1	2	86/08/09	I	7	001	097	08	6	30		0	N
00002806	37-067-0009	42401	1	2	86/08/10	I	7	001	097	08	6	22		0	N
00002807	37-067-0009	42401	1	2	86/08/11	I	7	001	097	08	6	19		0	N
00002808	37-067-0009	42401	1	2	86/08/12	I	7	001	097	08	6	17		0	N
00002809	37-067-0009	42401	1	2	86/08/13	I	7	001	097	08	6	22		0	N
00002810	37-067-0009	42401	1	2	86/08/14	I	7	001	097	08	6	30		0	N
00002811	37-067-0009	42401	1	2	86/08/15	I	7	001	097	08	6	30		0	N
00002812	37-067-0009	42401	1	2	86/08/16	I	7	001	097	08	6	45	V	0	N
00002813	37-067-0009	42401	1	2	86/08/17	I	7	001	097	08	6	21		0	N
00002814	37-067-0009	42401	1	2	86/08/18	I	7	001	097	08	6	51	V	0	N
00002815	37-067-0009	42401	1	2	86/08/19	I	7	001	097	08	6	32		0	N
00002816	37-067-0009	42401	1	2	86/08/20	I	7	001	097	08	6	24		0	N
00002817	37-067-0009	42401	1	2	86/08/21	I	7	001	097	08	6	27		0	N
00002818	37-067-0009	42401	1	2	86/08/22	I	7	001	097	08	6	22		0	N
00002819	37-067-0009	42401	1	2	86/08/23	I	7	001	097	08	6	30		0	N
00002820	37-067-0009	42401	1	2	86/08/24	I	7	001	097	08	6	32		0	N
00002821	37-067-0009	42401	1	2	86/08/25	I	7	001	097	08	6	31		0	N
00002822	37-067-0009	42401	1	2	86/08/26	I	7	001	097	08	6	33		0	N
00002823	37-067-0009	42401	1	2	86/08/27	I	7	001	097	08	6	30		0	N
00002824	37-067-0009	42401	1	2	86/08/28	I	7	001	097	08	6	32		0	N
00002825	37-067-0009	42401	1	2	86/08/29	I	7	001	097	08	6	29		0	N
00002826	37-067-0009	42401	1	2	86/08/30	I	7	001	097	08	6	22		0	N
00002827	37-067-0009	42401	1	2	86/08/31	I	7	001	097	08	6	30		0	N
00002828	37-067-0009	42602	1	2	86/02/01	I	7	001	084	08	6	24		0	N
00002829	37-067-0009	42602	1	2	86/02/02	I	7	001	084	08	6	30		0	N
00002830	37-067-0009	42602	1	2	86/02/03	I	7	001	084	08	6	30		0	N
00002831	37-067-0009	42602	1	2	86/02/04	I	7	001	084	08	6	19		0	N
00002832	37-067-0009	42602	1	2	86/02/05	I	7	001	084	08	6	16		0	N
00002833	37-067-0009	42602	1	2	86/02/06	I	7	001	084	08	6	24		0	N
00002834	37-067-0009	42602	1	2	86/02/07	I	7	001	084	08	6	35		0	N
00002835	37-067-0009	42602	1	2	86/02/08	I	7	001	084	08	6	30		0	N
00002836	37-067-0009	42602	1	2	86/02/09	I	7	001	084	08	6	30		0	N
00002837	37-067-0009	42602	1	2	86/02/10	I	7	001	084	08	6	22		0	N
00002838	37-067-0009	42602	1	2	86/02/11	I	7	001	084	08	6	26		0	N
00002839	37-067-0009	42602	1	2	86/02/12	I	7	001	084	08	6	10		0	N
00002840	37-067-0009	42602	1	2	86/02/13	I	7	001	084	08	6	19		0	N
00002841	37-067-0009	42602	1	2	86/02/14	I	7	001	084	08	6	16		0	N
00002842	37-067-0009	42602	1	2	86/02/15	I	7	001	084	08	6	11		0	N
00002843	37-067-0009	42602	1	2	86/02/16	I	7	001	084	08	6	21		0	N
00002844	37-067-0009	42602	1	2	86/02/17	I	7	001	084	08	6	32		0	N
00002845	37-067-0009	42602	1	2	86/02/18	I	7	001	084	08	6	26		0	N
00002846	37-067-0009	42602	1	2	86/02/19	I	7	001	084	08	6	30		0	N
00002847	37-067-0009	42602	1	2	86/02/20	I	7	001	084	08	6	31		0	N
00002848	37-067-0009	42602	1	2	86/02/21	I	7	001	084	08	6	27		0	N

Figure 5-74. Screening File Listing Report - Daily Data Format (2 of 7)

DATE 93-09-17 EPA AEROMETRIC INFORMATION RETRIEVAL SYSTEM (AIRS) PAGE 1
AMP950 AIR QUALITY SUBSYSTEM
SCREENING FILE LISTING -- COMPOSITE DATA REPORT
FOR SCREENING FILE ANADBA07

RECORD NUMBER	SITE-ID	POLL	POC	TRANS TYPE	YEAR	COMP PERIOD	ACTION CODE	INT	UNITS	METH	COUNT SAMPLES	COMP TYPE	VALUE	VALIDITY FLAG	EDIT LEVEL	EXCL FLAG
00002326	03-063-0001	12126	1	3	86	01	I	C	002	091	07	4	23		0	N
00002327	03-063-0001	12126	1	3	86	02	I	C	002	091	07	4	24		0	N
00002328	03-063-0001	12126	1	3	86	03	I	C	002	091	06	4	25		0	N
00002329	03-063-0001	12126	1	3	86	04	I	C	001	091	06	4	26		0	N
00002330	03-063-0001	12126	1	3	86	06	I	C	002	091	06	4	29		0	N
00002331	03-063-0001	12126	1	3	86	06	I	C	002	091	07	4	30		0	N
00002332	03-063-0001	12126	1	3	86	07	I	C	002	091	02	4	31		0	N
00002333	03-063-0001	12126	1	3	86	08	I	C	002	091	06	4	32		0	N
00002334	03-063-0001	12126	1	3	86	09	I	C	002	091	07	4	33		0	N
00002335	03-063-0001	12126	1	3	86	10	I	C	002	091	06	4	34		0	N
00002336	03-063-0001	12126	1	3	86	11	I	C	002	091	07	4	23		0	N
00002337	03-063-0001	12126	1	3	86	12	I	C	002	091	07	4	24		0	N
00002338	03-063-0001	12126	1	3	86	13	I	C	002	091	06	4	25		0	N
00002339	03-063-0001	12126	1	3	86	14	I	C	001	091	06	4	26		0	N
00002340	03-063-0001	12126	1	3	86	15	I	C	002	091	06	4	29		0	N
00002341	03-063-0001	12126	1	3	86	16	M	C	002	091	07	4	30		0	N
00002342	03-063-0001	12126	1	3	86	17	I	C	002	091	02	4	31		0	N
00002343	03-063-0001	12126	1	3	86	18	I	C	002	091	06	4	32		0	N
00002344	03-063-0001	12126	1	3	86	19	I	C	002	091	07	4	33		0	N
00002345	03-063-0001	12126	1	3	86	20	I	C	002	091	06	4	34		0	N
00002346	03-063-0001	12126	1	3	86	21	I	C	002	091	07	1	23		0	N
00002347	03-063-0001	12126	1	3	86	22	I	C	002	091	07	4	24		0	N
00002348	03-063-0001	12126	1	3	86	23	I	C	002	091	06	4	25		0	N
00002349	03-063-0001	12126	1	3	86	24	I	C	001	027	06	4	26		0	N
00002350	03-063-0001	12126	1	3	86	25	I	C	002	091	06	4	29		0	N
00002351	03-063-0001	12126	1	3	86	26	I	C	002	091	07	4	30		0	N
00002352	03-063-0001	12126	1	3	86	27	I	C	002	091	02	4	31		0	N
00002353	03-063-0001	12126	1	3	86	28	I	C	002	091	06	4	32		0	N
00002354	03-063-0001	12126	1	3	86	29	I	C	002	091	07	4	33		0	N
00002355	03-063-0001	12126	1	3	86	30	I	C	002	091	06	4	34		0	N
00002356	03-063-0001	12126	1	3	86	31	I	C	002	095	07	4	23		0	N
00002357	03-063-0001	12126	1	3	86	32	I	C	002	091	07	4	24		0	N
00002358	03-063-0001	12126	1	3	86	33	I	C	002	091	06	4	25		0	N
00002359	03-063-0001	12126	1	3	86	34	I	C	001	091	06	4	26		0	N
00002360	03-063-0001	12126	1	3	86	35	I	C	002	091	06	4	29		0	N
00002361	03-063-0001	12126	1	3	86	36	I	C	002	091	07	4	30		0	N
00002362	03-063-0001	12126	1	3	86	37	I	C	002	091	02	4	31		0	N
00002363	03-063-0001	12126	1	3	86	38	I	C	002	091	06	4	32		0	N
00002364	03-063-0001	12126	1	3	86	39	I	C	002	091	07	4	33		0	N
00002365	03-063-0001	12126	1	3	86	40	I	C	002	091	06	4	34		0	N
00002366	03-063-0001	12126	1	3	86	41	I	C	002	091	07	4	23		0	N
00002367	03-063-0001	12126	1	3	86	42	I	C	002	091	07	4	24		0	N
00002368	03-063-0001	12126	1	3	86	43	I	C	002	091	06	4	25		0	N
00002369	03-063-0001	12126	1	3	86	44	I	C	001	091	06	4	26		0	N
00002370	03-063-0001	12126	1	3	86	45	I	C	002	091	06	4	29		0	N
00002371	03-063-0001	12126	1	3	86	46	I	C	002	091	07	4	30		0	N
00002372	03-063-0001	12126	1	3	86	47	I	C	002	091	02	4	31		0	N
00002373	03-063-0001	12126	1	3	86	48	I	C	002	091	06	4	32		0	N
00002374	03-063-0001	12126	1	3	86	49	I	C	002	014	07	4	33		0	N
00002375	03-063-0001	12126	1	3	86	50	I	C	002	091	06	4	34		0	N
00002376	03-063-0001	12126	1	3	86	51	I	C	002	091	07	4	33		0	N
00002377	03-063-0001	12126	1	3	86	52	I	C	002	091	06	4	34		0	N

Figure 5-74. Screening File Listing Report - Composite Data Format (3 of 7)

DATE 93-09-17
AMP950

EPA AEROMETRIC INFORMATION RETRIEVAL SYSTEM (AIRS)
AIR QUALITY SUBSYSTEM
SCREENING FILE LISTING -- PRECISION DATA REPORT
FOR SCREENING FILE ANADBA07

PAGE 1

RECORD NUMBER	SITE-ID	POLL	POC	TRANS TYPE	DATE	ACTION CODE	INT	UNITS	METH	ACTUAL VALUE	INDICATED VALUES LVL1	LVL2	LVL3	LVL4	LVL5	EDIT LEVEL	EXCL FLAG
00002660	37-067-0001	42401	1	8	87/04/07	I	1	007	014	88	87					0	N
00002661	37-067-0001	42401	1	8	87/04/14	I	1	007	014	88	86					0	N
00002662	37-067-0001	42401	1	8	87/04/21	I	1	007	014	88	85					0	N
00002663	37-067-0001	42401	1	8	87/04/28	I	1	007	014	88	85					0	N
00002664	37-067-0001	42401	1	8	87/05/05	I	1	007	014	85	89					0	N
00002665	37-067-0001	42401	1	8	87/05/12	I	1	007	014	85	86					0	N
00002666	37-067-0001	42401	1	8	87/05/19	I	1	007	014	85	84					0	N
00002667	37-067-0001	42401	1	8	87/06/03	I	1	007	014	85	80					0	N
00002668	37-067-0001	42401	1	8	87/06/09	I	1	007	014	85	82					0	N
00002669	37-067-0001	42401	1	8	87/06/16	I	1	007	014	85	81					0	N
00002670	37-067-0001	42401	1	8	87/06/23	I	1	007	014	85	86					0	N
00002671	37-067-0001	42401	1	8	87/06/30	I	1	007	014	85	82					0	N
00002672	37-067-0001	42401	1	8	87/07/07	I	1	007	014	85	91					0	N
00002673	37-067-0001	42401	1	8	87/07/14	I	1	007	014	85	80					0	N
00002674	37-067-0001	42401	1	8	87/07/20	I	1	007	014	84	84					0	N
00002675	37-067-0001	42401	1	8	87/07/27	I	1	007	014	84	82					0	N
00002676	37-067-0001	42401	1	8	87/08/04	I	1	007	014	84	82					0	N
00002677	37-067-0001	42401	1	8	87/08/10	I	1	007	014	84	80					0	N
00002678	37-067-0001	42401	1	8	87/08/16	I	1	007	014	84	82					0	N
00002679	37-067-0001	42401	1	8	87/08/24	I	1	007	014	84	74					0	N
00002680	37-067-0001	42401	1	8	87/08/26	I	1	007	014	84	83					0	N
00002681	37-067-0001	42401	1	8	87/08/31	I	1	007	014	84	83					0	N
00002682	37-067-0001	42401	1	8	87/09/06	I	1	007	014	84	82					0	N
00002683	37-067-0001	42401	1	8	87/09/15	I	1	007	014	84	82					0	N
00002684	37-067-0001	42401	1	8	87/09/24	I	1	007	014	84	80					0	N
00002685	37-067-0001	42401	1	8	87/09/30	I	1	007	014	84	79					0	N
00002686	37-067-0001	42401	1	8	87/10/06	I	1	007	014	84	80					0	N
00002687	37-067-0001	42401	1	8	87/10/14	I	1	007	014	84	87					0	N
00002688	37-067-0001	42401	1	8	87/10/20	I	1	007	014	85	93					0	N
00002689	37-067-0001	42401	1	8	87/10/26	I	1	007	014	85	82					0	N
00002693	37-067-0001	42401	1	8	88/04/14	I	1	007	014	89	94					0	N
00002694	37-067-0001	42401	1	8	88/04/21	I	1	007	014	89	88					0	N
00002695	37-067-0001	42401	1	8	88/04/27	I	1	007	014	89	87					0	N
00002696	37-067-0001	42401	1	8	88/05/04	I	1	007	014	89	87					0	N
00002697	37-067-0001	42401	1	8	88/05/10	I	1	007	014	89	88					0	N
00002698	37-067-0001	42401	1	8	88/05/17	I	1	007	014	89	83					0	N
00002699	37-067-0001	42401	1	8	88/05/25	I	1	007	014	89	89					0	N
00002700	37-067-0001	42401	1	8	88/05/31	I	1	007	014	89	90					0	N
00002701	37-067-0001	42401	1	8	88/06/07	I	1	007	014	89	90					0	N
00002702	37-067-0001	42401	1	8	88/06/14	I	1	007	014	89	90					0	N
00002703	37-067-0001	42401	1	8	88/06/19	I	1	007	014	89	90					0	N
00002704	37-067-0001	42401	1	8	88/06/21	I	1	007	014	89	92					0	N
00002705	37-067-0001	42401	1	8	88/06/27	I	1	007	014	89	90					0	N
00002706	37-067-0001	42401	1	8	88/07/05	I	1	007	014	89	91					0	N
00002707	37-067-0001	42401	1	8	88/07/11	I	1	007	014	89	90					0	N
00002708	37-067-0001	42401	1	8	88/07/18	I	1	007	014	89	87					0	N
00002709	37-067-0001	42401	1	8	88/07/26	I	1	007	014	89	86					0	N
00002710	37-067-0001	42401	1	8	88/08/03	I	1	007	014	89	89					0	N
00002711	37-067-0001	42401	1	8	88/08/10	I	1	007	014	89	87					0	N
00002712	37-067-0001	42401	1	8	88/08/17	I	1	007	014	89	90					0	N
00002713	37-067-0001	42401	1	8	88/08/26	I	1	007	014	89	88					0	N

Figure 5-74. Screening File Listing Report - Precision Data Format (4 of 7)

DATE 93-09-17 EPA AEROMETRIC INFORMATION RETRIEVAL SYSTEM (AIRS) PAGE 1
AMP950 AIR QUALITY SYSTEM
SCREENING FILE LISTING --ACCURACY DATA REPORT
FOR SCREENING FILE ANADBA07

RECORD NUMBER	SITE-ID	POLL	P O C	T R N	DATE	A C T	I N T	UNT	MTH	AUDIT CLASS	TYPE AUDIT	LOC STD SRC	ACTUAL AND INDICATED VALUES LEVEL 1 ACT	LEVEL 1 IND	LEVEL 2 ACT	LEVEL 2 IND	LEVEL 3 ACT	LEVEL 3 IND	LEVEL 4 ACT	LEVEL 4 IND	EDT LVL	EX FL
00002690	37-067-0001	42401	1	9	87/06/05	I	1	007	014	A	1	D	75	74	150	150	450	444			0	N
00002691	37-067-0001	42401	1	9	87/09/01	I	1	007	014	A	1	D	75	72	175	170	450	444			0	N
00002692	37-067-0001	42401	1	9	87/10/15	I	1	007	014	A	1	D	75	71	175	171	450	441			0	N
00002724	37-067-0001	42401	1	9	88/04/19	I	1	007	014	A	1	F	46	46	171	168	440	431			0	N
00002725	37-067-0001	42401	1	9	88/09/22	I	1	007	014	A	1	F	47	44	172	169	441	429			0	N
00002726	37-067-0001	42401	1	9	88/10/18	I	1	007	014	A	1	F	47	45	172	166					0	N
00002757	37-067-0001	42401	1	9	89/06/08	I	1	007	014	A	1	F	40	36	169	164	437	439			0	N
00002758	37-067-0001	42401	1	9	89/09/13	I	1	007	014	A	1	F	50	51	177	179	450	464			0	N
00002759	37-067-0001	42401	1	9	89/10/30	I	1	007	014	A	1	F	44	43	174	170	435	431			0	N
00002789	37-067-0001	42401	1	9	90/04/05	I	1	007	014	A	1	F	43	40	172	166	439	427			0	N
00002790	37-067-0001	42401	1	9	90/09/25	I	1	007	014	A	1	F	44	45	166	157	444	431			0	N
00002791	37-067-0001	42401	1	9	90/10/31	I	1	007	014	A	1	F	44	47	166	182	343	378			0	N

Figure 5-74. Screening File Listing Report - Accuracy Data Format (5 of 7)

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DATE  93-09-17                    EPA AEROMETRIC INFORMATION RETRIEVAL SYSTEN (AIRS)                    PAGE     1
AMP950                                          AIR QUALITY SUBSYSTEN
                                  SCREENING FILE LISTING --  INPUT TRANSACTIONS REPORT
                                        (EXCLUDING TYPES 1, 2, 3, 8, AND 9)
                                        FOR SCREENING FILE  ANADBA07

 RECORD                                                                                                  EDIT  EXCL
 NUMBER          RECORD KEY                                          TRANSACTION                         LEVEL FLAG
 --------  ]---+----1----+----2----]  ]---+----1----+----2----+----3----+----4----+----5----+----6----+----7----+----]  -----  ----
 00002378  37063000112128286U      I  U37063000112128270018609l            188  121                          1     0    N
 00002431  37063000842101186R      I  R37063000842101110078612390  23121212  21121213  89121212  88121212  23  67   1     0    N
 00002432  37063000842101186V      I  V37063000842101186011             1   2   3       5   6   7   8          0I    0    N
 00002433  37063100144201186T      I  T37063100144201110078612342  78121212  77121212  76121212  75121212  9        I     0    N
 00002434  37063100144201186V      D  V37063100144201186091014015                                             D     0    N
 00002438  37067000142401186P      I  P37067000142401160078 6  23   2  231212  141213  99124227  98121212  XXXXXXX5Y0 I  0    N
 00002439  37067000142401186V      I  V37067000142401186014            000100020003000400050006000700080          0I    0    N
 00002792  37067000142401286P      I  P37067000142401210078 6  23   3  231212  141212  99121212  97121211  45  7  690 I  0    N
 00002793  37067000142401286V      I  V37067000142401286014             1   2   3   4   5   6   7   8           0I    0    N
 00002795  37067000442602186S      I  S37067000442602110078 6 999   2  89121212  78121213                  891       I     0    N
 00002796  37067000442602186V      D  V37067000442602118601 4           001100220033004400550066007700 88          00    0    N
 00002884  37067001281102187M      I  M37067001281102170018700032160570000102                                  I     0    N
 00002885  37067001281102187N01    I  N37067001281102170018701002030102                                        I     0    N
 00002886  37067001281102187V      I  V37067001281102178705 3          00360016000400000000000000000000000001    0I    0    N
 00002887  370678001          ?    I  ?3706780l 009                                          851231     851231    4I    0    N
 00002888  370679003          A1   I  A370679003001----------ADDRESS----------850619      850101                  1I    0    N
 00002889  370679003          A2   I  A37067900300000136666432   34 E  611  1                                    2I    0    N
 00002890  370679003          A31  I  A3706790031ELM STREET          1 2500084 E11520                            3I    0    N
 00002891  370679003          A32  I  A37067900320AK STREET          2 3200088NS                                 3I    0    N
 00002892  370679003          A4   I  A370679003                N 2N2N2    W  3 3 3    DON'T KNOW27             4I    0    N
 00002893  370679003          A5   I  A370679003---------- SAMPLE LOCATION DESCRIPTION ----------               5I    0    N
 00002894  370679003          A6   I  A370679003---------- SITE COMMENTS LINE 1 ----------                     6I    0    N
 00002895  370679003          A7   I  A370679003---------- SITE COMMENTS LINE 2 ----------                     7I    0    N
 00002896  370679003811021     F1   I  F37067900381102129301010010020039201019201O1          01     111     1519  1I    0    N
 00002897  370679003811021     F2   I  F3706790038110211       22     Y    Y9191          N                     2I    0    N
 00002898  370679003811021     F3   I  F370679003811021    NN                        6920101N      N              3I    0    N
 00002899  370679003811021     F4   I  F370679003811021---------- MONITOR COMMENTS 1 ----------               4I    0    N
 00002900  370679003811021     F4   I  F370679003811021---------- MONITOR COMMENTS 2 ----------               4I    0    N
 00002925  550790018           A1   M  A550790018                                  8501091                     1M    0    N
 00002926  550790018           A2   M  A550790018     240                  1550790041    6 N                   2M    0    N
 00002927  550790018           A32  M  A5507900182CANAL STREET                        1ENE  33 5 6 2 72        3M    0    N
 00002928  550790018442011     F1   M  F55079001844201188010100100200388010188010l          05     123        1M    0    N
 00002929  550790018442011     F2   M  F5507900184420111  202  30     X8801          1  522N                  2M    0    N
```

Figure 5-74. Screening File Listing Report - Input Transactions (6 of 7)

DATE 93-09-17
AMP950

EPA AEROMETRIC INFORMATION RETRIEVAL SYSTEM (AIRS)
AIR QUALITY SUBSYSTEM
SCREENING FILE LISTING -- EXTRACTION SUMMARY
FOR SCREENING FILE ANADBA07

PAGE 1

		TRANSACTIONS HAVING PASSED EDIT LEVEL:					
		LEVEL 0	LEVEL 1	LEVEL 2	LEVEL 3	NO EFFECT	TOTAL
SITE	A1-A7	11	0	0	0	0	11
MONITOR	F1-F5	7	0	0	0	0	7
SLAMS	M-V	14	0	0	0	0	14
MIN. DET.	Z	0	0	0	0	0	0
HOURLY	1	221	0	0	0	0	221
DAILY	2	111	0	0	0	0	111
COMPOSITE	3	104	0	0	0	0	104
NULL	4	0	0	0	0	0	0
PRECISION	8	120	0	0	0	0	120
ACCURACY	9	12	0	0	0	0	12
UNKNOWN	?	1	0	0	0	0	1
TOTAL		601	0	0	0	0	601

Figure 5-74. Screening File Listing Report - Summary Page (7 of 7)

5.21.2 Report Generation Options

The report options screen for the Screening File Listing Report allows you to specify the name of the screening file to be listed, to choose the output medium (printed report or work file), and to specify selection criteria for the screening records (exclusion status and edit level). Figure 5-75 shows the report options screen.

The default option is to generate only a printed report, and to apply no selection criteria with respect to the exclusion status or edit level of screening file records. If you are using report criteria for the Screening File Listing Report that you saved previously, your saved specifications for report options are displayed instead of the default.

The work file format for this report is given in Volume AQ1. The work file consists of AIRS input transactions, which are described in Volume AQ2.

```
08/13/91                AIRS Air Quality Subsystem                AMP950A
                            Report Options

Report Name:  SCREENING FILE LISTING              Criteria Name:

              Enter Screening File name: _______

                        Enter X for desired Option(s)

              Choose at least one output

              X 1.  Generate a printed report
              _ 2.  Generate a workfile (Enter name below):
                    _____ . _____ . _____ . _____ . _____

              Choose desired report option(s)

              _ 3.  Specify exclusion status flag (0,1,2): _
              _ 4.  Specify edit level (0,1,2,3): _


   PF3=end      PF4=main menu      PF5=terminate      PF9=save criteria
```

Figure 5-75. Report Options Screen for the Screening File Listing Report

Instructions

Enter the name of the air quality screening file to be listed in the field provided near the top of the screen. You may list a screening file only if the AIRS database administrator has authorized your access to it. You also must provide an AIRS password for accessing the screening file, there is no provision for entering it on the report options screen. If you did not enter your AIRS password on the AIRS user profile screen (the first screen of the AIRS session), return to there and enter it. (Use the PF4 key to return to the AIRS main menu, then use the PF3 key to go to the user profile screen.) The report cannot be generated without your password.

You must choose at least one type of output:

option 1	generate a printed report
option 2	generate a work file

You may choose one or both of the following retrieval options:

option 3	specify exclusion status flag (0,1,2)
option 4	specify edit level (0,1,2,3)

If you choose option 2, you must specify a dataset name for the work file to be generated. Otherwise, you may not specify a work file dataset name.

If you choose option 3, you must specify which value of exclusion status is to be selected. Otherwise, you may not specify a value (and all values are selected). The values of exclusion status flag have the following meanings:

Exclusion Flag	Record Status
0	Not excluded (from update processing)
1	Excluded by a user with the CORRECT program
2	Excluded by the database administrator or by the SCAN program

If you choose option 4, you must specify which value of edit level is to be selected. Otherwise, you may not specify an edit level value (and all values are selected). Edit levels have the following meanings:

Edit Level	Record Status
0	Failed at least one level-1 edit check
1	Passed all level-1 edit checks but not level-2 checks
2	Passed all level-2 edit checks but not level-3 checks
3	Passed all edit checks; eligible for update processing

Read Section 3.6.1 if you are not familiar with how to use the report options screen. Section 3.6.2 describes the characteristics of valid dataset names.

Error Messages

The error messages listed below (in alphabetical order) are displayed at the top of the report options screen if you make a mistake in specifying report options.

DATASET NAME IS INVALID
The work file dataset name is not valid. Refer to Section 3.6.2 of this volume for a description of dataset naming conventions.

DATASET NAME NOT ALLOWED WITHOUT SPECIFYING OPTION 2
If a work file (option 2) is not selected as an output, a dataset name must not be entered.

EDIT LEVEL NOT ALLOWED WITHOUT SPECIFYING OPTION 4
If option 4 is not selected, an edit level value may not be entered.

EXCLUDE STATUS FLAG NOT ALLOWED WITHOUT SPECIFYING OPTION 3
If option 3 is not selected, an exclusion status value may not be entered.

PLEASE CHOOSE OPTION 1 OR 2 FOR OUTPUT
Either a printed report (option 1) or a work file (option 2) must be selected as an output.

PLEASE ENTER '0', '1', '2', OR '3' FOR EDIT LEVEL
If option 4 is selected, an edit level value of 0, 1, 2, or 3 must be entered.

PLEASE ENTER '0', '1', OR '2' FOR EXCLUDE STATUS FLAG
If option 3 is selected, an exclusion status value of 0, 1, or 2 must be entered.

PLEASE ENTER A VALID DATASET NAME
If a work file (option 2) is selected, a dataset name must be specified.

PLEASE ENTER A VALID SCREENING FILE NAME
No screening file name was entered, or the name entered is not valid.

PLEASE ENTER BLANK OR 'X'
Only blank and X are valid entries for selecting report options.

PLEASE USE A VALID PF-KEY
A PF key not defined for this screen was used.

SCREENING FILE IS NOT FOR AIR QUALITY DATA
The screening file name entered is a file of Facility data rather than Air Quality data.

YOU ARE NOT AUTHORIZED TO ACCESS THIS SCREENING FILE

Access to a screening file is restricted to authorized users, even for reading (listing) the file.

5.21.3 Data Selection Options

You may select which screening records are included in the report using the select criteria screen. A sample screen is shown in Figure 5-76.

There are three groups of selection criteria. The first group consists of "geographic" criteria. Only certain combinations of these fields are allowed. You may use any of the following combinations of geographic selection fields:

state (code or abbreviation)
state + county
state + county + site

The second group of selection criteria consists of the following optional fields:

parameter
method
interval

The third group of selection criteria consists of the following required fields:

begin date (year, month, day)
end date (year, month, day)

In a given line on the select criteria screen, you must specify all the fields in the third group of selection criteria and either parameter or one of the geographic criteria in the first group. You may use any of the criteria in the second group in addition to other criteria.

Specify dates as year, month, and day (YYMMDD format). Valid dates are January 1, 1957 through any valid date.

Online Help is available for all of the selection criteria fields except BEGIN-DATE and END-DATE. The Help facility allows you to browse through tables of values, with descriptions, for the codes you need to enter, and then to select the value that you wish to use. The Help facility is described in detail in Section 3.6.4.

Instructions

Enter selection criteria into the available fields on the select criteria screen, or alter the previously saved criteria on the screen if you wish. You must specify criteria in at least one line on the screen. Press the ENTER key when you have finished entering or altering the criteria.

Read Section 3.6.3 if you are not familiar with how to use the select criteria screen. Refer to Volume GC2 of the AIRS User's Guide for lists of valid codes to use for selection criteria.

Press PF1=help for general information about the select criteria process. For Field-specific Help, enter a "?" in the first position of any field (except BEGIN-DATE or END-DATE.

```
01/25/91                    AIRS Air Quality Subsystem                    AMP950B
                                 Select Criteria

Report Name:  SCREENING FILE LISTING                        Criteria Name:

                                                BEGIN   END
                          PARA-                 DATE    DATE    MON              REP  URBAN
  ST  CNTY  SITE          METER     METH  INT   YYMMDD  YYMMDD  TYPE  CITY  AQCR  ORG  AREA
  __  ___   ____          _____     ____  _     ______  ______
  __  ___   ____          _____     ____  _     ______  ______
  __  ___   ____          _____     ____  _     ______  ______
  __  ___   ____          _____     ____  _     ______  ______
  __  ___   ____          _____     ____  _     ______  ______
  __  ___   ____          _____     ____  _     ______  ______
  __  ___   ____          _____     ____  _     ______  ______
  __  ___   ____          _____     ____  _     ______  ______
  __  ___   ____          _____     ____  _     ______  ______
  __  ___   ____          _____     ____  _     ______  ______
  __  ___   ____          _____     ____  _     ______  ______

PF1=help      PF2=duplicate     PF3=end      PF4=main menu      PF5=terminate
PF6=report options    PF7=back        PF8=more              PF9=save criteria
```

Figure 5-76. Select Criteria Screen for the Screening File Listing Report

Error Messages

The error messages listed below (in alphabetical order) are displayed at the top of the select criteria screen if you make a mistake in specifying information.

A STATE IS REQUIRED FOR COUNTY
If county is entered, state must be entered.

BEGIN-DATE IS < 570101 OR > CURRENT DATE
Begin date must be in the range January 1, 1957 (570101) through current date.

ENTER SELECTION CRITERIA OR USE A PF-KEY TO ESCAPE
ENTER was pressed without any selection criteria specified. Either specify criteria and press ENTER or use one of the valid PF keys to transfer to another screen or terminate the AIRS session.

PF2 INVALID - THERE ARE NO SELECTION CRITERIA TO DUPLICATE
Do not press PF2 without entering at least one selection criterion.

PF2 INVALID - MAXIMUM NUMBER OF SELECTION CRITERIA HAS BEEN SPECIFIED
Do not press PF2 when the last select criteria screen is full.

PF7 INVALID - THIS IS THE FIRST SELECT CRITERIA SCREEN
Do not press PF7 from the first select criteria screen; it is used to page backward.

PF8 INVALID - THIS IS THE FINAL SELECT CRITERIA SCREEN
Do not press PF8 from the last select criteria screen; it is used to page forward.

PLEASE ENTER A NUMERIC BEGIN-DATE
The begin date entered must be numeric.

PLEASE ENTER A NUMERIC END-DATE
The end date entered must be numeric.

PLEASE ENTER A PARAMETER CODE WITH THE METHOD CODE
If method is entered, parameter must be entered.

PLEASE ENTER A VALID COUNTY CODE
The combination of county and state codes is not valid.

PLEASE ENTER A VALID INTERVAL CODE
The interval code is not valid.

PLEASE ENTER A VALID METHOD CODE
The combination of method and parameter codes is not valid.

PLEASE ENTER A VALID PARAMETER CODE
The parameter code is not valid.

PLEASE ENTER A VALID STATE CODE
The state entered must be in the AIRS GEO-COMMON File.

PLEASE ENTER A VALID 4-DIGIT SITE CODE
The site entered must be a valid four-digit site code.

PLEASE ENTER A VALID 6-DIGIT BEGIN-DATE
The begin date entered must be a valid Gregorian date in YYMMDD format.

PLEASE ENTER A VALID 6-DIGIT END-DATE
The end date entered must be a valid Gregorian date in YYMMDD format.

PLEASE ENTER AN END-DATE THAT IS GREATER THAN OR EQUAL TO THE BEGIN-DATE
The end date must be greater than or equal to the begin date.

PLEASE FILL ALL LINES BEFORE GOING ON TO THE NEXT SCREEN
PF8 is valid only when the current screen is full or when there are more criteria on a subsequent screen.

PLEASE USE A VALID PF-KEY
A PF key not defined for this screen was used.

REPORT BEGINNING DATE IS REQUIRED FOR THIS REPORT
Report begin date must be entered.

REPORT ENDING DATE IS REQUIRED FOR THIS REPORT
Report end date must be entered.

THE COUNTY CODE IS REQUIRED WITH THE SITE CODE
If site is entered, county must be entered.

5.21.4 Data Sorting Options

The Screening File Listing Report (and work file) has a fixed sort order that cannot be changed. Therefore, there is no sort criteria screen for this report.

The sort order for the printed report and the work file of AIRS transactions is:

state
county
site
parameter
POC
year
transaction type
month
day
hour
action code
edit level
exclude flag

Instructions

None

6.0 BROWSE Air Quality Data

6.1 Overview

This section describes the Air Quality data available through the AQ BROWSE online reports. The reports are divided into ten data types: site, monitor, summary, hourly, daily, composite, history, Precision and Accuracy Reporting Organization Summary, Precision and Accuracy Monitor Summary, and Precision and Accuracy Monitor Raw Data. These data types categorize data from the Air Quality data files: Site, Summary (secured and unsecured), Hourly (secured and unsecured), Daily (secured and unsecured), and Composite (secured and unsecured). The Site and Monitor data types have an option to generate transactions to Screening Files. See User's Guide AQ3 for more information.

Once the data type has been selected, the pre-defined selection criteria screen for the report is displayed. Validity checking is performed on the selection criteria entries to ensure alpha/numeric correctness and legal values. (See Section 6.1.4.) After the data selection has been completed, an on-line report is displayed that shows the retrieved data for the selected data type and data selection. In some cases, more than one report page is needed to display all the data retrieved. The user may toggle between report pages and/or scroll forward and backward through the data selected. The on-line BROWSE processing is illustrated in Figure 6-1.

The following sections describe selecting a data type, entering selection criteria, and report navigation, and contain sample selection criteria screens and reports for each data type.

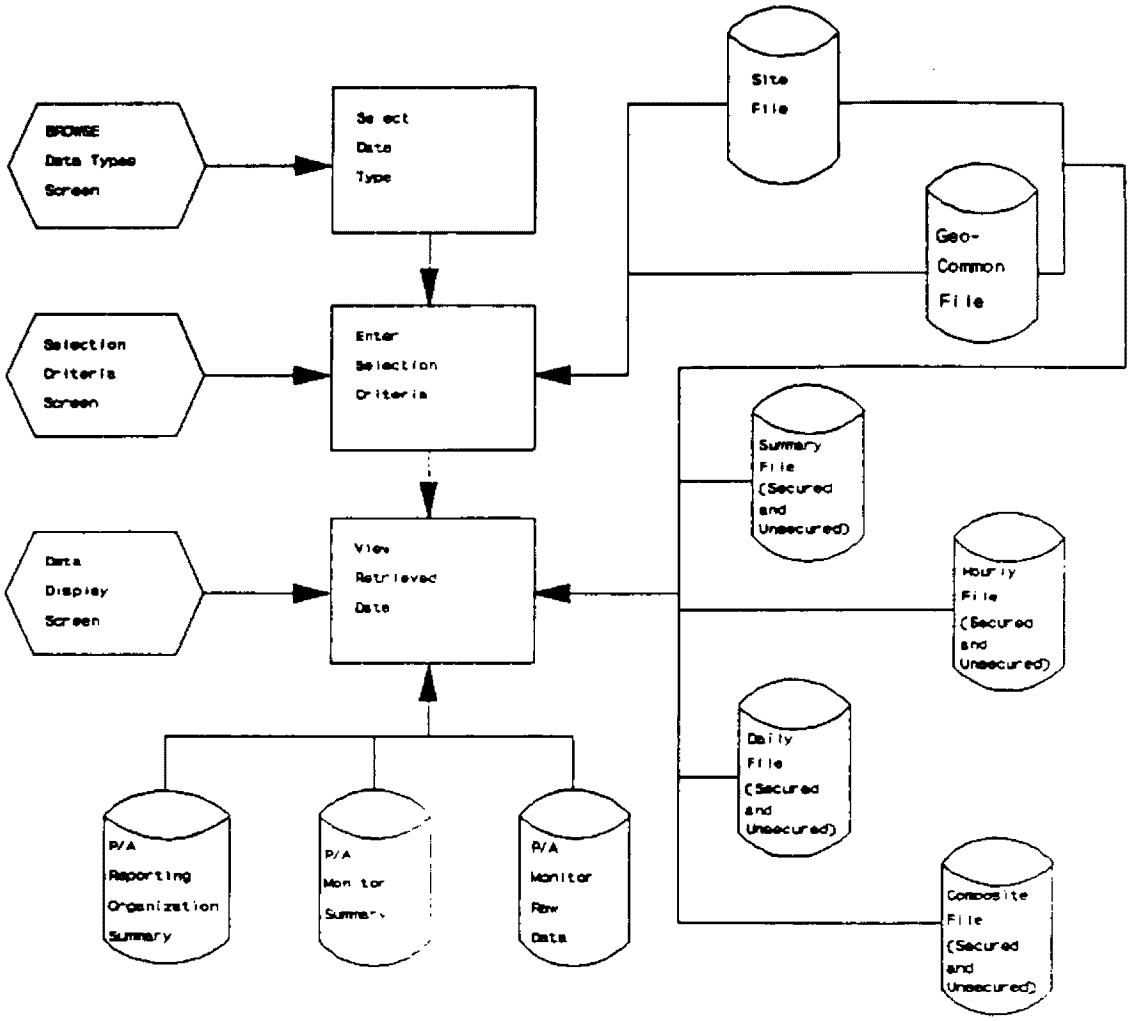

Figure 6-1. BROWSE Processing

6.1.1 Data Types Screen

Use the AQ BROWSE data types screen to select which AQ data types to view.

The data types screen is shown at the top of Figure 6-2. The first two lines identify the screen and give the date and program name (AMP500). The middle part of the screen lists the available data types, followed by a field for selecting a data type. The last line of the screen lists the PF keys you may use and indicates their functions.

Follow these instructions for using the AQ data types screen:

1. After the prompt "Please Enter Selection", enter the sequence number of the data type you want to view. For example, enter "4" to select Hourly data (AMP510H).

2. Press ENTER.

3. If your request for data type is valid, the next screen will be displayed. This will be a Selection Criteria screen, as shown at the bottom of Figure 6-2.

4. If you did not enter a valid data type number, the terminal alarm beeps and the message "PLEASE ENTER A VALID OPTION" appears at the top of the screen. Carefully type a valid data type number and press ENTER.

You may use the PF3, PF4, or PF5 keys to exit from the data types screen without selecting a data type. Both PF3 and PF4 return you to the AIRS main menu. PF5 terminates your AIRS session.

```
01/27/93                AIRS AIR QUALITY SUBSYSTEM                AMP500
                            Browse Data Types

                    1.  AMP510S - Site
                    2.  AMP510M - Monitor
                    3.  AMP510Y - Summary
                    4.  AMP510H - Hourly
                    5.  AMP510D - Daily
                    6.  AMP510C - Composite
                    7.  AMP510T - History
                    8.  AMP510R - P/A Reporting Organization Summary
                    9.  AMP510N - P/A Monitor Summary
                    10. AMP510P - P/A Monitor Raw Data

                        Please Enter Selection : 1_  B (B=Browse, G=Generate)

          PF3=end          PF4=main menu          PF5=terminate
```

```
01/14/93                AIRS Air Quality Subsystem                AMP510S
                            Browse Site Data
                          Selection Criteria

                    State :  23
                    County:  001
                    Site  :  0001

          PF3=end          PF4=main menu          PF5=terminate
```

Figure 6-2. Using the AQ Data Types Screen
The selection criteria screen appears after a valid data type is chosen.

6.1.2 Entering Selection Criteria

The selection criteria screen displays the data fields on which you may request selection of data for the AQ data types. A sample selection criteria screen is shown in Figure 6-3. The format of the screen is generally the same for all data types, but not all fields are available on each screen. The possible fields are identified by the following headings:

STATE	FIPS state code (2 digits)
COUNTY	FIPS county code (3 digits)
SITE	AIRS site code (4 digits)
PARAMETER	AIRS parameter code (5 digits)
POC	AIRS parameter occurrence code (1 digit)
METHOD	AIRS method code (3 digits)
INTERVAL	AIRS interval code (1 character)
BEGIN DATE	first date to be included in retrieval
END DATE	last date to be included in retrieval
MON. TYPE	AIRS monitor type code (1 character)
FIELD CHANGED	AIRS history record (1 digit)
REPORTING ORG	AIRS reporting organization code (3 digits)
TYPE DATA	(C) Continuous or (I) Intermittent

For each retrieval, the fields you can use for selection appear on the screen with underlines that show the field size. Fields that you may not use do not appear on the screen. Criteria entered on a Selection Criteria screen are passed between data type selection criteria screens. You must specify a state code as a minimum to retrieve data.

The begin/end date field have various formats, depending on the data type. The formats are: YYMMDD (year-month-day), YYMM (year-month), and YY (year). You must specify both begin and end dates to define an inclusive date range. Any date that meets the selection criteria and falls within the date range will be selected. The begin and end dates may be equal, but the end date cannot precede the begin date. If end date is not entered, only those records that are for the begin date are selected.

Leaving a field blank means that **any** value is acceptable. In effect, any field you leave blank is not used for selecting data. Entering a value in a field means that **only** that particular value is acceptable, and only data that match the value you enter will be selected. There is no "wildcard" capability. For example, it is **not** possible to select all pollutants whose parameter codes begin with "44" by entering "44 " or "44***" or "44???". These are **not** legal specifications.

The selection criteria program checks each value entered in the selection fields to ensure that you specify valid criteria. You must use the valid codes that are stored in the Geo-Common file. Volume GC2 of the AIRS User's Guide lists the codes and tells what they mean. If you enter a monitoring site-ID (state, county, and site) or a monitor (state, county, site, parameter, and POC), it must be in the AQ Site file.

In order to select data for secured monitors, you must specify "9" for monitor type. If you leave the monitor type field blank, the retrievals do not select any secured monitors. As discussed in Section 3.5.2, you also must supply a password to select data for secured monitors.

```
11/12/92                AIRS Air Quality Subsystem                AMP510H
                           Browse Hourly Data
                           Selection Criteria

          State : 25
          County: ___
          Site  : ____

          Parameter: _____
          POC      : _
          Method   : ___
          Begin Date
              Year : __
              Month: __
              Day  : __
          End Date
              Year : __
              Month: __
              Day  : __
          Interval : _
          Mon. Type: _


          PF3=end          PF4=main menu          PF5=terminate
```

Figure 6-3. Selection Criteria Screen

Each program has its own rules about the selection fields on the screen. A few rules are universally applicable, however. They are:

1. The county field is meaningful only in combination with state. To use county, you must also use state.

2. The site field is meaningful only in combination with county and state. To use site, you must also specify county and state.

3. The POC field is meaningful only in combination with parameter, site, county, and state. To use POC, you must also specify parameter, site, county, and state.

The program checks the validity of your selection criteria when you use the ENTER key. You must correct any errors on the selection screen before you can proceed to the data screen.

The selection criteria program flags invalid fields by highlighting them. A message at the top of the screen explains the first error. An error message also may appear at the top of the screen if you do something wrong, such as using a PF key that is not defined for the selection criteria screen. The error messages are listed with the selection criteria descriptions in Sections 6.2 through 6.11.

Press the ENTER key to complete the entry of selection criteria and proceed to the report.

The PF keys valid for the selection criteria screen and the resulting actions are:

PF3	return to the AQ BROWSE data types screen
PF4	return to the AIRS main menu
PF5	terminate the AIRS session

Using the PF3, PF4, or PF5 key terminates your data request; a report will not be displayed.

Error Messages

The error messages listed below (in alphabetical order) are displayed at the bottom of the selection criteria screen, as appropriate.

END OF SELECTED RECORDS

PF8 is pressed when the last data to be retrieved for the user-specified selection criteria is displayed on the report screen.

NO RECORDS FOUND THAT MEET SELECTION CRITERIA

ENTER is pressed after the user has entered valid selection criteria and the retrieval program finds no data to meet the criteria.

6.1.3 Report Navigation

The report screens display the retrieved data, based on the user-selected data type and selection criteria. Sample report screens are shown in Figure 6-4. The format of the report differs for each data type; Sections 6-2 through 6-11 show the report screens for each data type.

The report screens highlight the data retrieved. A field displayed as blank indicates that no data exists in the AQ file. Some fields display a description that is retrieved from the Geo-Common File. For these fields, a value of "DESCRIPTION UNKNOWN" indicates that no description for the code exists in the Geo-Common File.

The PF keys valid for the data screen and the resulting actions are:

PF3	return to the data types Selection Criteria screen
PF4	return to the AIRS main menu
PF5	terminate the AIRS session
PF7	scroll backward through selected data
PF8	scroll forward through selected data
ENTER	toggle display between data screens (valid only for data types that have multiple screens)

Using the PF3, PF4, or PF5 key terminates your data retrieval request.

```
11/12/92                AIRS Air Quality Subsystem                AMP510HB
                          Browse Hourly Data                      Page 1/2


State     : 25   MASSACHUSETTS
County    : 003  BERKSHIRE CO
Site      : 0007
Parameter: 42401 SULFUR DIOXIDE
POC       : 1

Method       : 020 INSTRUMENTAL PULSED FLUORESCENT
Interval     : X   24-HR BLK AVG
Monitor Type : 2   SLAMS
Units        : 001 UG/CU METER (25 C)
Exc Data Flag:




  PF3=end      PF4=main menu      PF5=terminate      PF7=prev      PF8=next
```

```
11/12/92                AIRS Air Quality Subsystem                AMP510HB
                          Browse Hourly Data                      Page 2/2

 Monitor-Id: 25-003-0007-42401-1              Date: 86/01/01

        Start   Sample  Validity            Start   Sample  Validity
        Hour    Value     Flag              Hour    Value     Flag
        -----   -------  --------           -----   -------  --------
         00                                  12
         01                                  13
         02                                  14
         03                                  15
         04                                  16
         05                                  17
         06                                  18
         07                                  19
         08                                  20
         09                                  21
         10                                  22
         11                                  23        54

  * IN VALIDITY FLAG INDICATES NULL VALUE
  PF3=end      PF4=main menu      PF5=terminate      PF7=prev      PF8=next
```

Figure 6-4. Report Screens (1 of 2) and (2 of 2)

6.1.4 Select Criteria Help

Field-Specific Help is available for the following fields: State, County, Site, Parameter, Monitor Type, Interval, Method, and Units. Help is invoked by entering a question mark (?) in the first position of any of these fields. A Geo-Common Subsystem (GCS) subprogram will be invoked and will display the value(s) that may be entered for each of these fields. Figure 6-5 illustrates how the Selection Criteria screen might appear with question marks entered for several Selection Criteria fields.

You may enter question marks to request assistance for as many of the Selection Criteria fields as you need. The Help Facility will process them one after the other without returning to the Selection Criteria Screen until all the question marks are processed.

A "?" may not be entered for any date fields, since Help is not available for these fields.

Figure 6-5 contains a sample Selection Criteria screen with question marks in several fields. Figure 6-6 contains three sample Help screens for State and County. Other Help screens are similar. Field-specific Help is based on the AIRS Geo-Common Browse Facility, which is documented in Volume GC4 of the AIRS User's Guide. A description of each data field's Help screen is contained in Volume GC4.

Some features of the Field-specific Help screens are as follows:

PF3=end	Press PF3 to exit Help for one field at a time. If a "?" has been entered for more than one field on a line, control is passed to Help for the subsequent fields before it is returned to the Select Criteria screen.
PF7=prev	For Help screens with more than one page of entries, press PF7 to view a previous screen.
PF8=next	For Help screens with more than one page of entries, press PF8 to view subsequent screens.
PF9=display	Press PF9 to display information about one entry from the table you are viewing. Select the entry by entering its code or moving the cursor to the code, and then pressing PF9.

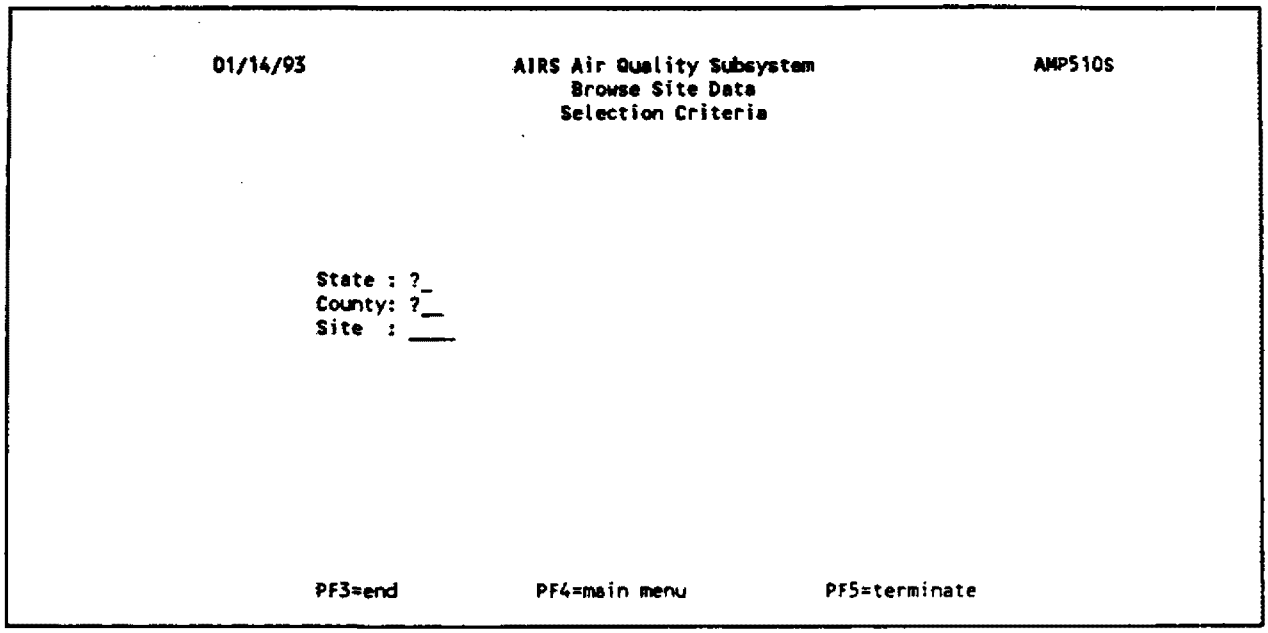

Figure 6-5. Sample Browse Site Data with Help Requested

```
01/12/93              AIRS Geographic/Common Subsystem                AAN502K
                                    State
 HELP --- HELP --- HELP --- HELP --- HELP --- HELP --- HELP --- HELP --- HELP

                Tab to selection or enter code; press ENTER
                        Enter State Code ==> 55

State   State                                  State   State
Code    Abbrev      State Name                 Code    Abbrev      State Name
 47       TN     TENNESSEE                     72        PR     PUERTO RICO
 48       TX     TEXAS                         78        VI     VIRGIN ISLANDS
 49       UT     UTAH                          80        MX     COUNTRY OF MEXICO
 50       VT     VERMONT                       88        NA     NATION
 51       VA     VIRGINIA                      99        Z1     NATION
 53       WA     WASHINGTON
 54       WV     WEST VIRGINIA
 55       WI     WISCONSIN
 56       WY     WYOMING
 60       AS     AMERICAN SAMOA
 66       GU     GUAM

PF3=end       PF5=terminate       PF7=prev       PF8=next       PF9=display
```

```
11/24/92              AIRS Geographic/Common Subsystem                AAN501G
                                    FIPS-Area
 HELP --- HELP --- HELP --- HELP --- HELP --- HELP --- HELP --- HELP --- HELP


      Required Criteria:

            State (code or abbreviation):  WI
                       select AREA TYPE:    X County  _ City


      Optional Criteria:

                                 Area Code:  ____
                          search AREA NAME for:  gr_____


PF1=help                        PF3=end                        PF5=terminate
```

Figure 6-6. Sample Help Screens (1 of 3) and (2 of 3)

```
11/24/92              AIRS Geographic/Common Subsystem              AAN502G
                                FIPS-Area
 HELP --- HELP --- HELP --- HELP --- HELP --- HELP --- HELP --- HELP --- HELP

                Tab to selection or enter code; press ENTER
                        Enter Selection ==> 01

State: 55  WISCONSIN                          Area Type: COUNTY

           Select     Area Code          Area Name
             01         043       GRANT CO
             02         045       GREEN CO
             03         047       GREEN LAKE CO




PF3=end       PF5=terminate       PF7=prev       PF8=next      PF9=display
```

Figure 6-6. Sample Help Screens (3 of 3)

Help uses the STATE field value to pre-select candidate values for COUNTY and CITY. It likewise takes the PARAMETER field value to pre-select candiate values for METHOD. It does this whether the STATE or PARAMETER values are obtained through direct user entry or through Help.

If you enter one or several question marks, and use Help to complete a valid Select Criteria specification, control returns to the Select Criteria screen with the valid entries displayed for your review. If the values displayed are correct, press ENTER to proceed to the next logical function.

Error Messages

Screen Help

If you use a PF key not listed at the bottom of the screen or ENTER, the following message will be displayed:

PLEASE USE A VALID PF-KEY

Field-specific Help

Most error messages you will encounter while using Field-specific Help are generated by the AIRS Geo-Common Browse facility. Refer to Volume GC4 of the AIRS User's Guide for explanations of these messages.

6.2 Site Data (AMP510S)

6.2.1 Description

The Site report displays three screens for each AIRS site. A sample report is shown in Figure 6-7. In addition to identifying the AIRS site, each entry lists geographical information (latitude and longitude, UTM coordinates, and elevation-msl), historical information (date-established, date-terminated, and date-last-updated), information about site location (street-address, AQCR, urban-area, MSA, and city), general characteristics (land-use, location-setting, and supporting-agency), site-comments, and site-user-info.

The selection criteria screen allows the user to enter a state, county, and/or site code. The retrieval begins with the first combination of state, county, and site that meets the data selection criteria. Sites are displayed in site-id (state, county, site) sequence. To view the next site or previous site for the data selected, press the PF8 or PF7 key, respectively.

```
08/17/93                    AIRS Air Quality Subsystem                    AMP510SB
                                 Browse Site Data                         Page 1/3

State : 51  VIRGINIA                          AQCR: 222   CENTRAL VIRGINIA
County: 031   CAMPBELL CO                     MSA : 4640  LYNCHBURG, VA
Site  : 0002                                  CMSA: 0000  DESCRIPTION UNKNOWN

Elevation (MSL)  :  200  METERS              Date Established :   /  /
Land Use         : 3     INDUSTRIAL           Date Last Updated: 80/05/14
Location Setting : 2     SUBURBAN             Date Terminated  :   /  /
City             : 01528 ALTAVISTA

Latitude         : +37:06:43:0000             Longitude        : - 79:16:49:8000
Method Of Determ.:                            Est. of Accuracy :
Datum            :                            Scale            :

    UTM =   Zone : 17       Easting : 652800      Northing : 4108500

Address          : ALTAVISTA WEAVING COMPANY
Support Agency   : 000 DESCRIPTION UNKNOWN
Location Descrip.:

   PF3=end      PF4=main menu      PF5=terminate      PF7=prev      PF8=next
```

```
10/23/92                    AIRS Air Quality Subsystem                    AMP510SB
                                 Browse Site Data                         Page 2/3

Site-Id : 23-001-0001          State or Local Site Id: XXXXXXXXX

 Site Loc.                                                    MSA   CMSA
 Type      Description                                        Rep.  Rep.
 1         UPWIND BACKGROUND                                  7777  8888
 2         DOWNWIND EDGE OF MAX PRECRSR EMISSIONS             7777  8888
 3         DOWNWIND FRINGE OF MSA/CMSA                        6543  3457

 Tangent Street   Type    Direction    Traffic    Flow    Street Name
         Number   Road    To Street    Flow       Year
         1        1       NE           999999     1977    STREET NAME 1
         2        2       NW           999999     1978    STREET NAME 2
         3        3       NS           999999     1979    STREET NAME 3
         4        4       NS           999999     1980    STREET NAME 4
         5        5       NW           999999     1981    STREET NAME 5
         6        6       NE           999999     1981    STREET NAME 6
         7        7       NE           999999     1982    STREET NAME 7
         8        8       NW           999999     1982    STREET NAME 8

  PF3=end      PF4=main menu      PF5=terminate      PF7=prev      PF8=next
```

Figure 6-7. Site Report (1 of 3) and (2 of 3)

```
10/23/92                    AIRS Air Quality Subsystem                    AMP510SB
                                Browse Site Data                          Page 3/3

Site-Id : 23-001-0001
Met Site  Id.: XX-XXX-XXXX   Directoin: NE   Type: A   Distance: 99999 METERS

Open Path    Direction  Max.Beam   Min.Beam   Receiver   Transmitter   Beam
     Number  To Trans.  Height     Height     Height     Height        Length
                       (---------------------- METERS ----------------------)
     1       NW         99         99         99         99            9999
     2       N          99         99         99         99            9999
     3       NNE        99         99         99         99            9999
     4       ENE        99         99         99         99            99
     5       E          99         99         99         99            9999
     6       SE         99         99         99         99            9999
     7       SSE        99         99         99         99            9999
     8       S          99         99         99         99            99
     9       WSW        99         99         99         99            99

Comments: SITE START-UP 9/16/75  SITE DISC. 1/31/77
          THIS IS SITE COMMENTS TWO

  PF3=end      PF4=main menu      PF5=terminate      PF7=prev      PF8=next
```

Figure 6-7. Site Report (3 of 3)

6.2.2 Data Selection Options

You may select which monitors and data values are included in the Site report by using the selection criteria screen. A sample screen is shown in Figure 6-8.

You must specify a state code as a minimum to retrieve Site data. In addition, you may enter county and/or site.

```
11/12/92                AIRS Air Quality Subsystem                AMP510S
                          Browse Site Data
                        Selection Criteria


          State : 25
          County: 009
          Site  : 0005




          PF3=end          PF4=main menu          PF5=terminate
```

Figure 6-8. Site Data Selection Criteria

Instructions

Enter selection criteria into the available fields on the selection criteria screen, or alter the previously entered criteria displayed on the screen if you wish. Press the ENTER key when you have finished entering or altering the criteria.

Read Section 6.1.2 if you are not familiar with how to use the selection criteria screen. Refer to Volume GC2 of the AIRS User's Guide for lists of valid codes to use for selection criteria.

Error Messages

The error messages listed below (in alphabetical order) are displayed at the top of the selection criteria screen if you make a mistake in specifying information.

ENTER SELECTION CRITERIA OR USE A PF-KEY TO ESCAPE
ENTER was pressed without any selection criteria specified. Either specify criteria and press ENTER or use one of the valid PF keys to transfer to another screen or terminate the AIRS session.

PLEASE ENTER A VALID COUNTY CODE
The combination of county and state codes is not valid.

PLEASE ENTER A VALID STATE CODE
The state code is not valid.

PLEASE USE A VALID PF-KEY
A PF key not defined for this screen was used.

STATE CODE IS REQUIRED
State must be entered.

THE COUNTY CODE IS REQUIRED WITH THE SITE CODE
If site is entered, county must be entered.

6.2.3 On-line Report

The report program will access the Site File and retrieve data that meets the user-specified data selection. Figure 6-7 contains a sample Site report.

Error Messages

The error messages listed below (in alphabetical order) are displayed at the top of the report if an error is made.

PF7 INVALID - BEGINNING OF SELECTED RECORDS
PF7 was pressed when the current screen is the first report screen.

PF7 INVALID - BEGINNING OF SELECTED RECORDS OR MAX RECORDS SCROLLED
PF7 was pressed when the current screen is the first report screen or the user has scrolled backward through ten report screens.

PLEASE USE A VALID PF-KEY
A PF key not defined for the screen was pressed.

6.3 Monitor Data (AMP510M)

6.3.1 Description

The Monitor report displays detailed information about air quality monitoring stations. A sample report is shown in Figure 6-9. The site information includes: state, county, and city, the metropolitan statistical area, air quality control region, and urban area in which the site is located. The monitoring station information includes: parameter, POC, monitor type, monitor type effective date, the last administrative action, sample collection and analysis labs, reporting organization and its effective date, dominant source of pollution, measurement scale, height of the monitoring equipment above ground, status of siting criteria and the effective date, whether a reference method is used and the date it began, the dates the monitor began and ended sampling, the date of the last EPA audit, the monitoring objective, and PM-10 specific data.

The selection criteria screen allows the user to enter state, county, site, parameter, POC, and monitor type. Monitoring stations are retrieved and displayed in monitor-id (state, county, site, parameter, POC) and monitor-type sequence. To view the next or previous monitoring station, press PF8 or PF7, respectively. To toggle between report screens for a monitoring station, press the ENTER key.

```
08/17/93                    AIRS Air Quality Subsystem                    AMP510MB
                                 Browse Monitor Data                      PAGE 1/3

State     : 51   VIRGINIA                    Monitor Type     : 3 OTHER
County    : 031  CAMPBELL CO                 MT Date Effective: 81/01/01
Site      : 0001
Parameter : 11101 SUSPENDED PARTICULAT       Reporting Org. : 000
POC       : 1                                RO Date Effect.:   /  /

Region    :   03 PHILADELPHIA                Sampling Began : 74/01/01
AQCR      :  222 CENTRAL VIRGINIA            Sampling Ended :   /  /
MSA       : 4640 LYNCHBURG, VA               Audit          :   /  /
CMSA      : 0000 DESCRIPTION UNKNOWN
Urban Area: 0000 NOT IN AN URBAN AREA

Analysis Lab: 000        Collection Lab: 000     Dominant Source:
Action Type :            Action Reason :

Project Class    : 01 POPULATION-ORIENTED SURVEILLANCE
Mon. Objective   :
Measurement Scale:

   PF3=end      PF4=main menu      PF5=terminate      PF7=prev      PF8=next
```

```
10/23/92                    AIRS Air Quality Subsystem                    AMP510MB
                                 Browse Monitor Data                      PAGE 2/3

Monitor-Id: 23-001-0001-11101-1

Site Criteria Met    : Y 1989/01       Nonattainment Area   : 22222
Refer Method Used    : Y 1990/01       Street Number        : 1    2    3
QA Plan Effective    : Y 1989/01       Distance From Road   : 9999 8888 7777

Probe Location Code  : A UNKNOWN       Probe Height         : 999 METERS
Horizontal Distance  :    METERS       Vertical Distance    :     METERS

**  State  **                               **  EPA  **
Req. Sampling Freq.  : X                   Req. Sampling Freq.  : Y
RSF Effective Date   :   90/01/01          RSF Effective Date   : 90/01/01
Short Term Sch. Sat. : Y                   Short Term Sch. Sat. : Y
Short Term Comp. Date:   90/01/01          Short Term Comp. Date: 90/01/01
First Exceed Corr.   :  Y                  First Exceed Corr.   : Y

Comments: MONITOR COMMENTS 1
          MONITOR COMMENTS 2

   PF3=end      PF4=main menu      PF5=terminate      PF7=prev      PF8=next
```

Figure 6-9. Monitor Report (1 of 3) and (2 of 3)

```
10/23/92                AIRS Air Quality Subsystem                AMP510MB
                          Browse Monitor Data                     PAGE 3/3

Monitor-Id: 23-001-0001-11101-1

Open Path Number    : 1                    PAMS Req. Sampling Freq. : 1

Unrestricted Air Flow: N
Obstruction
 Type:              1 BUILDINGS    2 TREES       3 RIDGES

 Height:            99             99            99  METERS
 Dir. From Monitor: NW             NW            NW
 Dist. From Inlet : 99             99            99  METERS

Monitoring Area      : 7777 UNKNOWN
Worst Site           : 2
Surrogate Flag       : Y
1ST PM-10 Viol.      : 90/01/01
# Scheduled Samples  : 01 02 03 04 05 06 07 08 09 10 11 12


   PF3=end     PF4=main menu     PF5=terminate     PF7=prev     PF8=next
```

Figure 6-9. Monitor Report (3 of 3)

6.3.2 Data Selection Options

You may select which monitors and data values are included in the Monitor report by using the selection criteria screen. A sample screen is shown in Figure 6-10.

You must specify a state code as a minimum to retrieve Monitor data. In addition, you may enter county and/or site. A second group of selection criteria consists of the following fields:

parameter
POC
monitor type

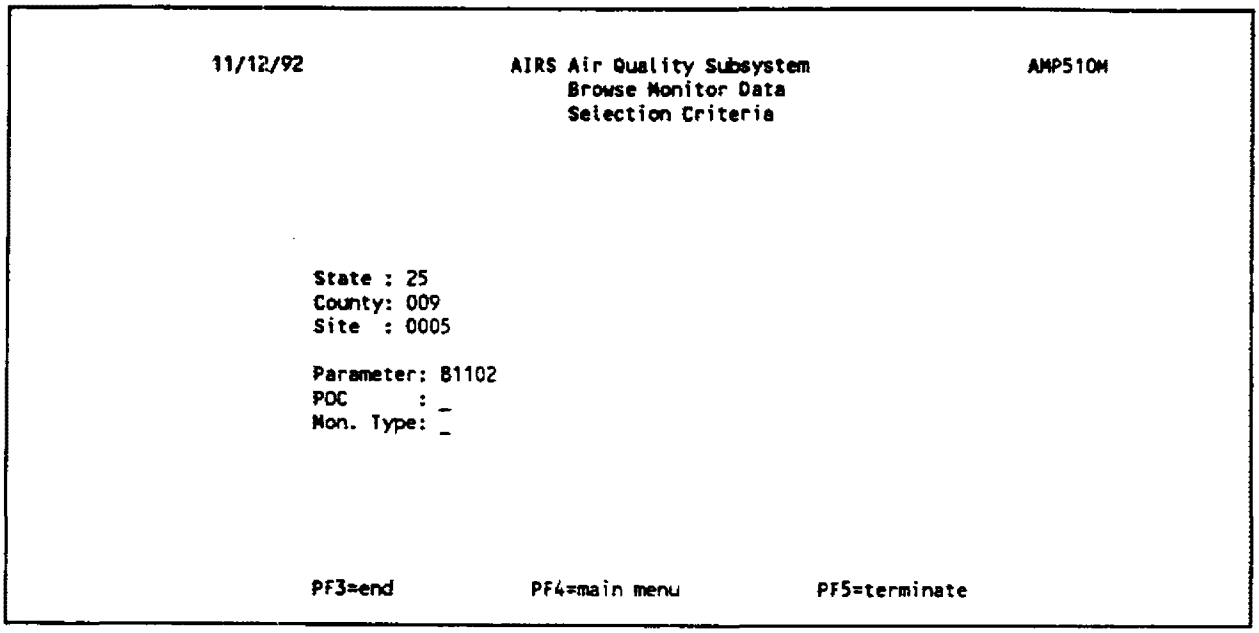

Figure 6-10. Monitor Data Selection Criteria

Instructions

Enter selection criteria into the available fields on the selection criteria screen, or alter the previously entered criteria displayed on the screen if you wish. Press the ENTER key when you have finished entering or altering the criteria.

Read Section 6.1.2 if you are not familiar with how to use the selection criteria screen. Refer to Volume GC2 of the AIRS User's Guide for lists of valid codes to use for selection criteria.

Error Messages

The error messages listed below (in alphabetical order) are displayed at the top of the selection criteria screen if you make a mistake in specifying information.

COMPLETE MONITOR-ID REQUIRED WITH POC CODE
If POC is entered, state, county, site, and parameter must be entered.

ENTER SELECTION CRITERIA OR USE A PF-KEY TO ESCAPE
ENTER was pressed without any selection criteria specified. Either specify criteria and press ENTER or use one of the valid PF keys to transfer to another screen or terminate the AIRS session.

PLEASE ENTER A VALID COUNTY CODE
The combination of county and state codes is not valid.

PLEASE ENTER A VALID MONITOR-ID
The monitor (state, county, site, parameter, POC) entered was not found in the Site File.

PLEASE ENTER A VALID MONITOR-TYPE CODE
The monitor type code is not valid. Use a code listed in Volume GC2.

PLEASE ENTER A VALID PARAMETER CODE
The parameter code is not valid.

PLEASE ENTER A VALID STATE CODE
The state code is not valid.

PLEASE USE A VALID PF-KEY
A PF key not defined for this screen was used.

STATE CODE IS REQUIRED
State must be entered.

THE COUNTY CODE IS REQUIRED WITH THE SITE CODE
If site is entered, county must be entered.

6.3.3 On-line Report

The report program will access the Monitor record of the Site File and retrieve data that meets the user-specified data selection. Figure 6-9 contains a sample Monitor report.

Error Messages

The error messages listed below (in alphabetical order) are displayed at the top of the report if an error is made.

PF7 INVALID - BEGINNING OF SELECTED RECORDS
PF7 was pressed when the current screen is the first report screen.

PF7 INVALID - BEGINNING OF SELECTED RECORDS OR MAX RECORDS SCROLLED
PF7 was pressed when the current screen is the first report screen or the user has scrolled backward through ten report screens.

PLEASE USE A VALID PF-KEY
A PF key not defined for the screen was pressed.

6.4 Summary Data (AMP510Y)

6.4.1 Description

The Summary report displays a statistical summary of the data reported by air quality monitors. A sample report is shown in Figure 6-11. The data are extracted from the AIRS Summary File. The report presents descriptive information about each selected AIRS monitoring site and statistical summary data for each selected monitor. The report includes descriptive items and quarterly and yearly summary statistics.

The selection criteria screen allows the user to enter a site or monitoring station ID or any valid combination of the fields that comprise site or monitoring station. In addition, begin year, end year interval, and monitor type can be entered as selection criteria. The statistical Summary data is retrieved and displayed in monitor-id (state, county, site, parameter, POC), year, interval, and monitor-type sequence.

```
11/12/92                    AIRS Air Qu   ty Subsystem                    AMP510YB
                                Browse  ummary Data                      Page 1/2

State    : 2   MASSACHUSETTS          Year         : 86
County   : 009 ESSEX CO               Interval     : 1   1 HOUR
Site     : 0005                       Monitor Type : 1   NAMS
Parameter: 42401 SULFUR DIOXIDE       Units        : 001 UG/CU ME      5 C)
POC      : 1                          Exc Data Flag:
Method(s):
020 INSTRUMENTAL PULSED FLUORESCENT


|Ex    Std|Flag|Obs |  %  |Exc|Max1    Time |Max2    Time |Max3  |Max4  |Max5  |
| F    Sec |Vals|Cnt  |Obs  |Alt|Value  MMDDHH|Value  MMDDHH|Value |Value |Value |
YR            8327   95        328 070618     301 070617     283    267    262
Q1            2149   99        283 011009     267 030200     236    225    223
Q2            2156   99        262 042820     257 042917     215    197    191
Q3            1839   83        328 07  18     301 070617     197    189    173
Q4            2183   99        249 1   3      249 110308     204    202    194

   PF3=end      PF4=main menu      PF5=terminate      PF7=prev      PF8=next
```

```
11/12/92                    AIRS Air Quality Subsystem                    AMP510YB
                                Browse Summary Data                       Page 2/2

Monitor-Id: 25-009-0005-42401-1

|Non-|Req |# Sub|Miss|
|Ovlp|Mon |Half |Vals|Minimum|  Est > Std  | Arith | Arith |  Geo  |  Geo  |C
|Viol|Time|Min  |Assm| Value |State  EPA   | Mean  | Std D |  Mean |Std D  |F
YR          1168          3                  26.9    30.3    15.8   2.93
Q1            13          3                  42.7    34.8    32.6   2.10
Q2           376          3                  18.2    23.     11.1   2.66
Q3           351          3                  15.9    20.5    10.1   2.52
Q4           428          3                  29.1    31.6    16.1   3.26

|                          Percentile                          |Vld |Min Smpl|Method|
|  10  |  30  |  50  |  70  |  90  |  95  |  99  |Days|  Freq  |Count |
YR    3      8     18     29     60     86    149                    1
Q1   13     24     31     47     86    115    183                    1
Q2    3      5     10     21     39     55    115                    1
Q3    3      8     10     16     34     47     92                    1
Q4    3      8     18     34     71     94    149                    1
? INDICATES THAT THE MEANS DO NOT SATISFY SUMMARY CRITERIA
   PF3=end      PF4=main menu      PF5=terminate      PF7=prev      PF8=next
```

Figure 6-11. Summ rt (1 c and (2 of 2)

6.4.2 Data Selection Options

You may select which monitors and data values are included in the Summary report by using the selection criteria screen. A sample screen is shown in Figure 6-12.

You must specify a state code as a minimum to retrieve Summary data. In addition, you may enter county and/or site. A second group of selection criteria consists of the following fields:

parameter
POC
begin year
end year
interval
monitor type

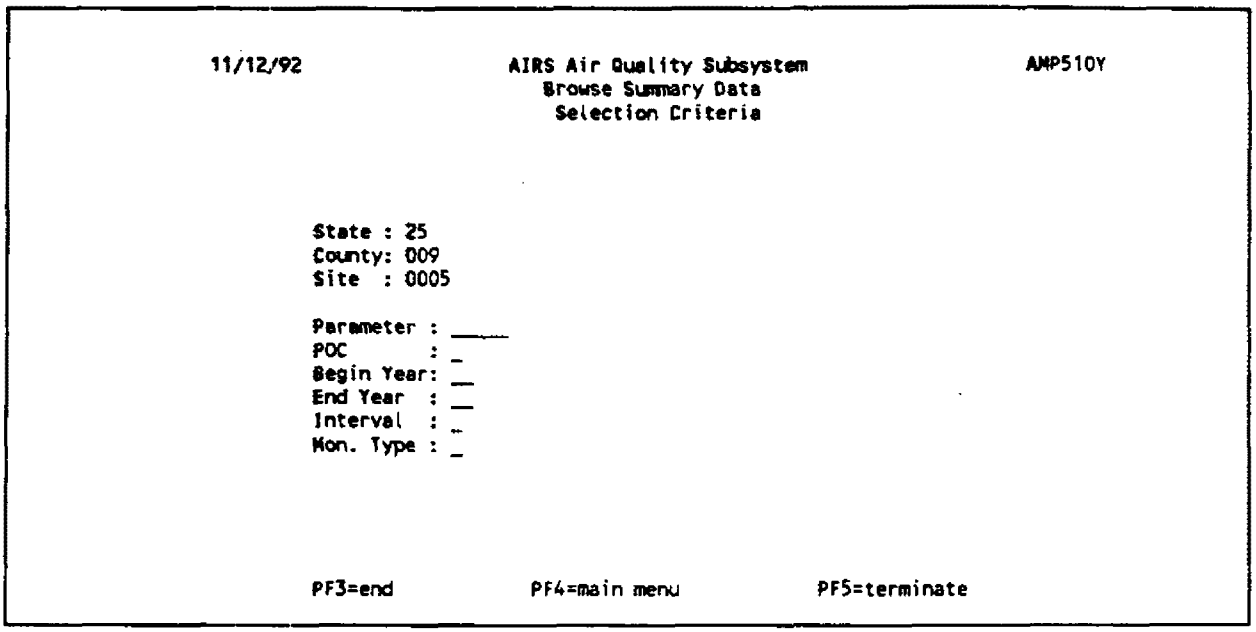

Figure 6-12. Summary Data Selection Criteria

Instructions

Enter selection criteria into the available fields on the selection criteria screen, or alter the previously entered criteria displayed on the screen if you wish. Press the ENTER key when you have finished entering or altering the criteria.

Read Section 6.1.2 if you are not familiar with how to use the selection criteria screen. Refer to Volume GC2 of the AIRS User's Guide for lists of valid codes to use for selection criteria.

Error Messages

The error messages listed below (in alphabetical order) are displayed at the top of the selection criteria screen (unless otherwise noted) if you make a mistake in specifying information.

BEGIN YEAR IS < 57 OR > CURRENT YEAR
Begin year must be in the range 1957 through current year.

BEGIN YEAR IS REQUIRED WITH END YEAR
If end year is entered, begin year must be entered.

COMPLETE MONITOR-ID REQUIRED WITH POC CODE
If POC is entered, state, county, site, and parameter must be entered.

END YEAR IS < 57 OR > CURRENT YEAR
End year must be in the range 1957 through current year.

END YEAR MUST BE > OR = BEGIN YEAR
The end year must be greater than or equal to begin year.

ENTER SELECTION CRITERIA OR USE A PF-KEY TO ESCAPE
ENTER was pressed without any selection criteria specified. Either specify criteria and press ENTER or use one of the valid PF keys to transfer to another screen or terminate the AIRS session.

INVALID PASSWORD, ACCESS TO SECURED DATA DENIED
Monitor type '9' was entered and the password entered on the User Profile screen was invalid. (This message is displayed at the bottom of the screen.)

PLEASE ENTER A NUMERIC BEGIN YEAR
The begin year entered must be numeric.

PLEASE ENTER A NUMERIC END YEAR
The end year entered must be numeric.

PLEASE ENTER A VALID COUNTY CODE
The combination of county and state codes is not valid.

PLEASE ENTER A VALID INTERVAL CODE
The interval code is not valid.

PLEASE ENTER A VALID MONITOR-ID
The monitor (state, county, site, parameter, POC) entered was not found in the Site File.

PLEASE ENTER A VALID MONITOR-TYPE CODE
The monitor type code is not valid. Use a code listed in Volume GC2, or use "B" to select both NAMS and SLAMS monitor types.

PLEASE ENTER A VALID PARAMETER CODE
The parameter code is not valid.

PLEASE ENTER A VALID STATE CODE
The state code is not valid.

PLEASE USE A VALID PF-KEY
A PF key not defined for this screen was used.

STATE CODE IS REQUIRED
State must be entered.

THE COUNTY CODE IS REQUIRED WITH THE SITE CODE
If site is entered, county must be entered.

6.4.3 On-line Report

The report program will access the Summary File and retrieve data that meets the user-specified data selection. Figure 6-11 contains a sample Summary report.

Error Messages

The error messages listed below (in alphabetical order) are displayed at the top of the report if an error is made.

ENTER INVALID - ONLY ONE DATA SCREEN
ENTER was pressed in error.

PF7 INVALID - BEGINNING OF SELECTED RECORDS
PF7 was pressed when the current screen is the first report screen.

PF7 INVALID - BEGINNING OF SELECTED RECORDS OR MAX RECORDS SCROLLED
PF7 was pressed when the current screen is the first report screen or the user has scrolled backward through ten report screens.

PLEASE USE A VALID PF-KEY
A PF key not defined for the screen was pressed.

6.5 Hourly Data (AMP510H)

6.5.1 Description

The Hourly report displays two screens of data for each AIRS site and monitoring station. A sample report is shown in Figure 6-13. The first screen identifies the AIRS site, parameter measured, POC, method of collection and analysis, interval, monitor type, units of measure, and whether exceptional event data is included or excluded. The second screen displays one day of sample values and validity flags for the monitor-id identified on the first screen.

The user can scroll forward and backward through the days of data for the month by using the PF8 and PF7 keys, respectively. When a value on screen 1 changes, screen 1 will be redisplayed to display the new header field values. The user has the option to view the monitor information displayed on screen 1 by using the ENTER key to toggle between screens.

The validity flag is displayed with the sample values. If the Regional Office concurred with a sample value validity flag, the validity flag is displayed as two characters. If the State entered the flag but no Regional Office concurrence, the validity flag is displayed as one character. When the sample value contains null characters, an asterisk will be displayed in the validity flag field on the screen.

The selection criteria screen allows the user to enter an AQ site or monitoring station ID, or any valid combination of fields that comprise site and monitoring station ID. In addition, method, begin year, begin month, begin day, end year, end month, end day, interval, and monitor type can be entered as selection criteria. The Hourly data is retrieved and displayed in monitor-id (state, county, site, parameter, POC), year, interval, month, and day sequence.

```
11/12/92                    AIRS Air Quality Subsystem                    AMP510HB
                              Browse Hourly Data                          Page 1/2


State     : 25    MASSACHUSETT
County    : 003   BERKSHIRE CC
Site      : 0007
Parameter: 42401 SULFUR DIOXIDE
POC       : 1

Meth          : 020 INSTRUMENTAL PULSED FLUORESCENT
In            : X   BLK
Mo       Type : 2
Un            : 001    METE
Exc    a Flag:


   PF3=end      PF4=main menu      PF5=terminate      PF7=prev      PF8=next
```

```
11/12/92                    AIRS  Quality Subsystem                    AMP510HB
                              se Hourly Data                            Page 2/2

 Monitor-Id: 25-003-0007-42401                Date: 86/01/01

        Start   Sample  Validity          Start   Sample  Validity
        Hour    Value     Flag            Hour    Value     Flag
        -----   -------  --------         -----   -------  --------
         00                                12
         01                                13
         02                                14
         03                                15
         04                                16
         05                                17
         06                                18
         07                                19
         08                                20
         09                                21
         10                                22
         11                                23        54

  * IN VALIDITY FLAG INDICATES NULL VALUE
  PF3=end      PF4=main menu      PF5=term          PF7=prev      PF8=next
```

Figure 6-13. Hourly Report (1 of 2) and (2 of 2)

6.5.2 Data Selection Options

You may select which monitors and data values are included in the Hourly report by using the selection criteria screen. A sample screen is shown in Figure 6-14.

You must specify a state code as a minimum to retrieve Hourly data. In addition, you may enter county and/or site. A second group of selection criteria consists of the following fields:

parameter
POC
method
begin date (year, month, day)
end date (year, month, day)
interval
monitor type

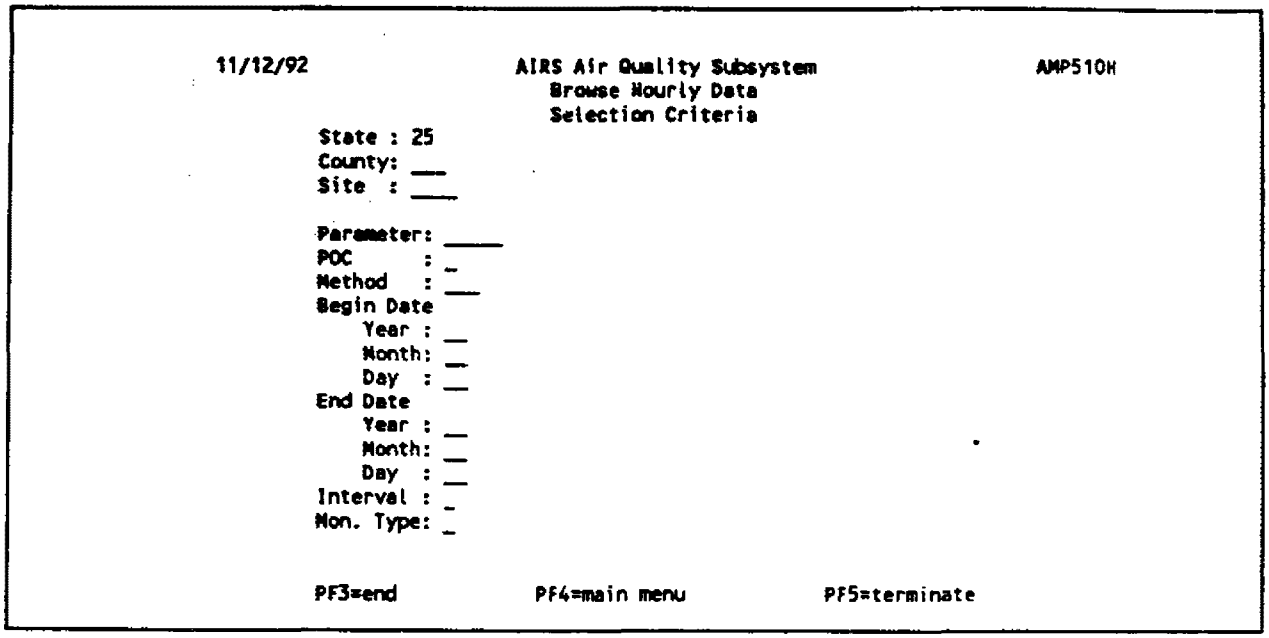

Figure 6-14. Hourly Data Selection Criteria

Instructions

Enter selection criteria into the available fields on the selection criteria scree or alter the previc entered criteria displayed on the screen if you wish. Press the ENTER key when you have finished entering or altering the criteria.

Read Section 6.1.2 if you are not familiar h h w to use t selection criteria screen. Refer to Volume GC2 of the AIRS User's uide for lists alic odes to for selection criteria.

Error Messages

The error messages li elow (in alph rder e displayed at the top of the selection criteria screen (unless otherw ted) if you m ake ifying information.

B IN DAY > CURRENT DAY
If begin year and month are equal to the current year and month, begin day must be equal to or less than current day.

BEGIN DAY EXCEEDS DAYS IN BEGI ONTH
Begin day is greater than the numb days in the begin month.

BEGIN MONTH > CURRENT MONTH
The begin year entered is equal to the current year and begin month is greater than the current month.

BEGIN MONTH IS < 1 OR > 12
Begin month must be in the range from (January) through 12 (De mber).

BEGIN MONTH IS REQ TRED WITH BEGIN DAY
If begin day is e , begin month must be entered.

BEGIN MONTH IS R QIRED WITH D MONTH
If end month is entered, begin moth must be entered.

B IN YEAR IS ARCHIVED
Begin year must not be a year for which data has been archived (removed from the Hourly File).

BEGIN YEAR IS < OR > CURRENT YEAR
egin year m in the range 1957 through current year.

BEGI YEAR IS R RED WITH BEGIN MONTH
If begin month is entered, begin year must be entered.

COMPLETE MO TOR-ID REQUIRED WITH POC CODE
If POC is ed, state, county, site, and parameter must be entered

END DAY > CURRENT DAY

If end year and month are equal to the current year and month, end day must be equal to or less than current day.

END DAY EXCEEDS DAYS IN END MONTH

End day is greater than the number of days in the end month.

END DAY MUST BE > OR = BEGIN DAY

If begin year and month are equal to the end year and month, end day must be greater than the begin day.

END DAY REQUIRED WITH BEGIN DAY

If begin year, month and day are entered and end year and month are entered, end day must be entered.

END MONTH > CURRENT MONTH

The end year entered is equal to the current year and end month is greater than the current month.

END MONTH IS < 1 OR > 12

End month must be in the range from 1 (January) through 12 (December).

END MONTH IS REQUIRED WITH BEGIN MONTH

If begin year and month are entered and end year is entered, end month must be entered.

END MONTH MUST BE > OR = BEGIN MONTH

If begin and end year are equal, begin month must be less than the end month.

END YEAR IS < 57 OR > CURRENT YEAR

End year must be in the range 1957 through current year.

END YEAR IS REQUIRED WITH END MONTH

If end month is entered, end year must be entered.

ENTER SELECTION CRITERIA OR USE A PF-KEY TO ESCAPE

ENTER was pressed without any selection criteria specified. Either specify criteria and press ENTER or use one of the valid PF keys to transfer to another screen or terminate the AIRS session.

INVALID PASSWORD, ACCESS TO SECURED DATA DENIED

Monitor type '9' was entered and the password entered on the User Profile screen was invalid. (This message is displayed at the bottom of the screen.)

PLEASE ENTER A NUMERIC BEGIN DAY

The begin day entered must be numeric.

PLEASE ENTER A NUMERIC BEGIN MONTH
The begin month entered must be numeric.

PLEASE ENTER A NUMERIC BEGIN YEAR
The begin year entered must be numeric.

PLEASE ENTER A NUMERIC END DAY
The end day entered must be numeric.

PLEASE ENTER A NUMERIC END MONTH
The end month entered must be numeric.

PLEASE ENTER A NUMERIC END YEAR
The end year entered must be numeric.

PLEASE ENTER A PARAMETER CODE WITH THE METHOD CODE
If method is entered, parameter must be entered.

PLEASE ENTER A VALID COUNTY CODE
The combination of county and state codes is not valid.

PLEASE ENTER A VALID INTERVAL CODE
The interval code is not valid.

PLEASE ENTER A VALID METHOD CODE
The combination of method and parameter codes is not valid.

PLEASE ENTER A VALID MONITOR-ID
The monitor (state, county, site, parameter, POC) entered was not found in the Site File.

PLEASE ENTER A VALID MONITOR-TYPE CODE
The monitor type code is not valid. Use a code listed in Volume GC2.

PLEASE ENTER A VALID PARAMETER CODE
The parameter code is not valid.

PLEASE ENTER A VALID STATE CODE
The state code is not valid.

PLEASE USE A VALID PF-KEY
A PF key not defined for this screen was used.

STATE CODE IS REQUIRED
State must be entered.

THE COUNTY CODE IS REQUIRED WITH THE SITE CODE
If site is entered, county must be entered.

6.5.3 On-line Report

The report program will access the Hourly File and retrieve data that meets the user-specified data selection. Figure 6-13 contains a sample Hourly report.

Error Messages

The error messages listed below (in alphabetical order) are displayed at the top of the report if an error is made.

PF7 INVALID - BEGINNING OF SELECTED RECORDS
PF7 was pressed when the current screen is the first report screen.

PF7 INVALID - BEGINNING OF SELECTED RECORDS OR MAX RECORDS SCROLLED
PF7 was pressed when the current screen is the first report screen or the user has scrolled backward through ten report screens.

PLEASE USE A VALID PF-KEY
PF key not defined for the screen was pressed.

6.6 Daily Data (AMP510D)

6.6.1 Description

The Daily report displays two types of screen for each AIRS site and monitoring station. A sample report is shown in Figure 6-15. The first screen identifies the AIRS site, parameter measured, POC, methods of collection and analysis, interval, monitor type, and units of measure. The second screen displays one month of sample values and validity flags for the monitor-id identified on the first screen.

The user can scroll forward and backward through the months of data for the monitor by using the PF8 and PF7 keys, respectively. When a value on screen 1 changes, screen 1 will be redisplayed to display the new field values. The user may toggle between screens 1 and 2 at any time by pressing the ENTER key.

The validity flag is displayed with the sample values. If the Regional Office concurred with a sample value validity flag, the validity flag is displayed as two characters. If the State entered the flag but no Regional Office concurrence, the validity flag is displayed as one character. When the sample value contains null characters, an asterisk will be displayed in the validity flag field on the screen.

The selection criteria screen allows the user to enter an AQ site or monitoring station ID, or any valid combination of the fields that comprise the IDs. In addition, method, begin year, begin month, end year, end month and monitor type can be entered. The Daily data is retrieved and displayed in monitor-id (state, county, site, parameter, POC), year, and month sequence.

```
11/12/92                AIRS Air Quality Subsystem                AMP510DB
                            Browse Daily Data                     Page 1/2


State     : 25   MASSACHUSETTS
County    : 009  ESSEX CO
Site      : 0005
Parameter: 81102 PM10 TOTAL 0-10UM
POC       : 2


Method       : 052 HI-VOL-SA321A GRAVIMETRIC
Interval     : 7   24 HOURS
Monitor Type : 3   OTHER
Units        : 001 UG/CU METER (25 C)



  PF3=end      PF4=main menu      PF5=terminate      PF7=prev      PF8=next
```

```
11/12/92                AIRS Air Quality Subsystem                AMP510DB
                            Browse Daily Data                     Page 2/2

  Monitor-Id: 25-009-0005-81102-2              Date: 86/01

  Sample Frequency: 6 EVERY 6TH DAY

     Start  Sample                Start  Sample                Start  Sample
Day  Hour   Value   VF     Day    Hour   Value   VF     Day    Hour   Value   VF
---  -----  ------- --     ---    -----  ------- --     ---    -----  ------- --
01                         11                         21
02   00        33          12                         22
03                         13                         23
04                         14    00        12         24
05                         15                         25
06                         16                         26    00        10
07                         17                         27
08   00        18          18                         28
09                         19                         29
10                         20    00        16         30
                                                      31
   * IN VALIDITY FLAG INDICATES NULL VALUE
   PF3=end      PF4=main menu      PF5=terminate      PF7=prev      PF8=next
```

Figure 6-15. Daily Report (1 of 2) and (2 of 2)

6.6.2 Data Selection Options

You may select which monitors and data values are included in the Daily report by using the selection criteria screen. A sample screen is shown in Figure 6-16.

You must specify a state code as a minimum to retrieve Daily data. In addition, you may enter county and/or site. A second group of selection criteria consists of the following fields:

parameter
POC
method
begin date (year, month)
end date (year, month)
monitor type

```
11/12/92                AIRS Air Quality Subsystem                AMP5100
                            Browse Daily Data
                            Selection Criteria

          State : 25
          County: 009
          Site  : 0005

          Parameter: 81102
          POC      : _
          Method   : __
          Begin Date
              Year : __
              Month: __
          End Date
              Year : __
              Month: __
          Non. Type: _


          PF3=end          PF4=main menu          PF5=terminate
```

Figure 6-16. Daily Data Selection Criteria

Instructions

Enter selection criteria into the available fields on the selection criteria screen, or alter the previously entered criteria displayed on the screen if you wish. Press the ENTER key when you have finished entering or altering the criteria.

Read Section 1.2 if you are not familiar with how to use the selection criteria screen. Refer to Volume GC2 of the AIRS User's Guide for lists of valid codes to use for selection criteria.

Error Messages

The error messages listed below (in alphabetical order) are displayed at the top of the selection criteria screen (unless otherwise noted) if you make a mistake in specifying information.

BEGIN MONTH > CURRENT MONTH
The begin year entered is equal to the current year and begin month is greater than the current month.

BEGIN MONTH REQUIRED WITH END MONTH
If end month is entered, begin month must be entered.

BEGIN YEAR IS < 57 OR > CURRENT YEAR
Begin year must be in the range 1957 through current year.

BEGIN YEAR IS ARCHIVED
Begin year must not be a year for which data has been archived (removed from the Daily File).

BEGIN YEAR IS REQUIRED WITH BEGIN MONTH
If begin month is entered, begin year must be entered.

COMPLETE MONITOR-ID REQUIRED WITH POC CODE
If POC is entered, state, county, site, and parameter must be entered.

END MONTH > CURRENT MONTH
The end in year entered is equal to the current year and end in month is greater than the current month.

END MONTH IS REQUIRED WITH BEGIN MONTH
If begin year and month are entered and end year is entered, end month must be entered.

END MONTH MUST BE > OR = BEGIN MONTH
If begin and end year are equal, begin month must be less than the end month.

END YEAR IS < 57 OR > CURRENT YEAR
End in year must be in the range 1957 through current year.

END YEAR IS REQUIRED WITH END MONTH
If end in month is entered, end in year must be entered.

ENTER SELECTION CRITERIA OR USE A PF-KEY TO ESCAPE
ENTER was pressed without any selection criteria specified. Either specify criteria and press ENTER or use one of the valid PF keys to transfer to another screen or terminate the AIRS session.

INVALID PASSWORD, ACCESS TO SECURED DATA DENIED
Monitor type '9' was entered and the password entered on the User Profile screen was invalid. (This message is displayed at the bottom of the screen.)

MONTH IS < 1 or > 12
Month must be in the range from 1 (January) through 12 (December).

PLEASE ENTER A NUMERIC BEGIN MONTH
The begin month entered must be numeric.

PLEASE ENTER A NUMERIC BEGIN YEAR
The begin year entered must be numeric.

PLEASE ENTER A NUMERIC END MONTH
The end in month entered must be numeric.

PLEASE ENTER A NUMERIC END YEAR
The end in year entered must be numeric.

PLEASE ENTER A PARAMETER CODE WITH THE METHOD CODE
If method is entered, parameter must be entered.

PLEASE ENTER A VALID COUNTY CODE
The combination of county and state codes is not valid.

PLEASE ENTER A VALID METHOD CODE
The combination of method and parameter codes is not valid.

PLEASE ENTER A VALID MONITOR-ID
The monitor (state, county, site, parameter, POC) entered was not found in the Site File.

PLEASE ENTER A VALID MONITOR-TYPE CODE
The monitor type code is not valid. Use a code listed in Volume GC2.

PLEASE ENTER A VALID PARAMETER CODE
The parameter code is not valid.

PLEASE ENTER A VALID STATE CODE
The state code is not valid.

PLEASE USE A VALID PF-KEY
A PF key not defined for this screen was used.

STATE CODE IS REQUIRED
State must be entered.

THE COUNTY CODE IS REQUIRED WITH THE SITE CODE
If site is entered, county must be entered.

6.6.3 On-line Report

The report program will access the Daily File and retrieve data that meets the user-specified data selection. Figure 6-15 contains a sample Daily report.

Error Messages

The error messages listed below (in alphabetical order) are displayed at the top of the report if an error is made.

PF7 INVALID - BEGINNING OF SELECTED RECORDS
PF7 was pressed when the current screen is the first report screen.

PF7 INVALID - BEGINNING OF SELECTED RECORDS OR MAX RECORDS SCROLLED
PF7 was pressed when the current screen is the first report screen or the user has scrolled backward through ten report screens.

PLEASE USE A VALID PF-KEY
A PF key not defined for the screen was pressed.

6.7 Composite Data (AMP510C)

6.7.1 Description

The Composite report displays two types of screens for each AIRS monitoring station. A sample report is shown in Figure 6-17. The first screen identifies the AIRS site, parameter measured, POC, methods of collection and analysis, monitor type, units of measure, and composite type (weekly, monthly, quarterly, annual, seasonal). The second screen displays the sample values, validity flag, and sample count for a composite type.

The user can scroll forward and backward through the years of data for a composite type and monitor-id by using the PF8 or PF7 keys, respectively. When a value on screen 1 changes, screen 1 will be redisplayed to display the changed field value. The user may toggle between screens by pressing the ENTER key.

The validity flag is displayed with the sample values. If the Regional Office concurred with a sample value validity flag, the validity flag is displayed as two characters. If the State entered the flag but no Regional Office concurrence, the validity flag is displayed as one character. When the sample value contains null characters, an asterisk will be displayed in the validity flag field on the screen.

The selection criteria screen allows the user to enter an AQ site or monitoring station ID, or any valid combination of fields that comprise the IDs. In addition, method, begin year, end year, and monitor type can be entered. The Composite data is retrieved in monitor-id (state, county, site, parameter, POC), and year sequence.

```
11/12/92                    AIRS Air Quality Subsystem                    AMP510CB
                               Browse Composite Data                      Page 1/2


State     : 37   NORTH CAROLINA
County    : 063  DURHAM CO
Site      : 0001
Parameter: 12128 LEAD (TSP)
POC       : 3

Method         : 095 HI-VOL EMISSION SPECTRA (LOW TEMP ASH)
Monitor Type   : 0   UNKNOWN
Units          : 001 UG/CU METER (25 C)
Composite Type: 1   QUARTERLY


  PF3=end      PF4=main menu      PF5=terminate      PF7=prev      PF8=next
```

```
11/12/92                    AIRS Air Quality Subsystem                    AMP510CB
                               Browse Composite Data                      Page 2/2

 Monitor-Id: 37-063-0001-12128-3              Year: 75

        Sample  Validity  Sample                    Sample  Validity  Sample
 QTR    Value     Flag    Count          ------    Value     Flag    Count
------  ------  --------  ------          ------    ------  --------  ------
  1
  2       .62               0
  3        .6               0
  4


 * IN VALIDITY FLAG INDICATES NULL VALUE
 PF3=end      PF4=main menu      PF5=terminate      PF7=prev      PF8=next
```

Figure 6-17. Composite Report (1 of 2) and (2 of 2)

6.7.2 Data Selection Options

You may select which monitors and data values are included in the Composite report by using the selection criteria screen. A sample screen is shown in Figure 6-18.

You must specify a state code as a minimum to retrieve Composite data. In addition, you may enter county and/or site. A second group of selection criteria consists of the following fields:

parameter
POC
method
begin year
end year
monitor type

```
11/12/92                AIRS Air Quality Subsystem                AMP510C
                          Browse Composite Data
                           Selection Criteria

                State : 37
                County: ___
                Site  : ____

                Parameter : _____
                POC       : _
                Method    : ___
                Begin Year: __
                End Year  : __
                Mon. Type : _




                PF3=end          PF4=main menu          PF5=terminate
```

Figure 6-18. Composite Data Selection Criteria

Instructions

Enter selection criteria into the available fields on the selection criteria screen, or alter the previously entered criteria displayed on the screen if you wish. Press the ENTER key when you have finished entering or altering the criteria.

Read Section 1.2 if you are not familiar with how to use the selection criteria screen. Refer to Volume GC2 of the AIRS User's Guide for lists of valid codes to use for selection criteria.

Error Messages

The error messages listed below (in alphabetical order) are displayed at the top of the selection criteria screen (unless otherwise noted) if you make a mistake in specifying information.

BEGIN YEAR IS < 57 OR > CURRENT YEAR
Begin year must be in the range 1957 through current year.

BEGIN YEAR IS ARCHIVED
Begin year must not be a year for which data has been archived (removed from the Composite File).

BEGIN YEAR IS REQUIRED WITH END YEAR
If end year is entered, begin year must be entered.

COMPLETE MONITOR-ID REQUIRED WITH POC CODE
If POC is entered, state, county, site, and parameter must be entered.

END YEAR IS < 57 OR > CURRENT YEAR
End in year must be in the range 1957 through current year.

END YEAR MUST BE > OR = BEGIN YEAR
The end year must be greater than or equal to begin year.

ENTER SELECTION CRITERIA OR USE A PF-KEY TO ESCAPE
ENTER was pressed without any selection criteria specified. Either specify criteria and press ENTER or use one of the valid PF keys to transfer to another screen or terminate the AIRS session.

INVALID PASSWORD, ACCESS TO SECURED DATA DENIED
Monitor type '9' was entered and the password entered on the User Profile screen was invalid. (This message is displayed at the bottom of the screen.)

PLEASE ENTER A NUMERIC BEGIN YEAR
The begin year entered must be numeric.

PLEASE ENTER A PARAMETER CODE WITH THE METHOD CODE
If method is entered, parameter must be entered.

PLEASE ENTER A VALID COUNTY CODE
The combination of county and state codes is not valid.

PLEASE ENTER A VALID METHOD CODE
The combination of method and parameter codes is not valid.

PLEASE ENTER A VALID MONITOR-ID
The monitor (state, county, site, parameter, POC) entered was not found in the Site File.

PLEASE ENTER A VALID MONITOR-TYPE CODE
The monitor type code is not valid. Use a code listed in Volume GC2.

PLEASE ENTER A VALID PARAMETER CODE
The parameter code is not valid.

PLEASE ENTER A VALID STATE CODE
The state code is not valid.

PLEASE USE A VALID PF-KEY
A PF key not defined for this screen was used.

STATE CODE IS REQUIRED
State must be entered.

THE COUNTY CODE IS REQUIRED WITH THE SITE CODE
If site is entered, county must be entered.

6.7.3 On-line Report

The report program will access the Composite File and retrieve data that meets the user-specified data selection. Figure 6-17 contains a sample Composite report.

Error Messages

The error messages listed below (in alphabetical order) are displayed at the top of the report if an error is made.

PF7 INVALID - BEGINNING OF SELECTED RECORDS
PF7 was pressed when the current screen is the first report screen.

PF7 INVALID - BEGINNING OF SELECTED RECORDS OR MAX RECORDS SCROLLED
PF7 was pressed when the current screen is the first report screen or the user has scrolled backward through ten report screens.

PLEASE USE A VALID PF-KEY
A PF key not defined for the screen was pressed.

6.8 History Data (AMP510T)

6.8.1 Description

History data can be retrieved by selecting a site or monitoring station, or by specifying any part of a monitoring station. The user can retrieve all qualified History records or only qualified History records with changes in monitor type, reporting organization, or required sampling frequency (EPA or state) fields. A sample report is shown in Figure 6-19.

History data is the historical data for site and monitoring station identification fields, i.e., support agency, land use, location setting, project class, and measurement scale. The data is generated via the AIRS UPDATE process. This process is invoked by the AIRS database administrator and applies screening file transactions to AIRS. Reference the AIRS User's Guide, Volume AQ3: Air Quality Data Storage, for more detailed information on UPDATE.

For each selected field, the History data screen displays the field name. In addition, for monitor type, reporting organization, and required sampling frequency, the following data is displayed:

old value
new date
old date
date changed

For all other fields, the following data is displayed:

old value
new value
date changed

To view the next or previous history data screen, press PF8 or PF7, respectively. The History data is retrieved and displayed in monitor-id (state, county, site, parameter, and POC) sequence. The selection criteria screen allows the user to enter state, county, site, parameter, POC, and field changed code.

```
08/17/93                    AIRS Air Quality Subsystem                    AMP510TB
                              Browse History Data

State     : 51    VIRGINIA
County    : 001   ACCOMACK CO
Site      : 0002
Parameter: 11101 SUSPENDED PARTICULAT
POC       : 1

                                Old       Old       New       New       Date
          Field Changed       Value     Date      Value     Date      Changed
------------------------------ ------- -------- ------- ------- -------
SCREENING-FILE-ID                                 S51AQA            92/08/05
DATE-SAMPLING-BEGAN             19730101          19730528          92/08/05
DATE-SAMPLING-ENDED                               19810714          92/08/05




  PF3=end      PF4=main menu      PF5=terminate      PF7=prev      PF8=next
```

Figure 6-19. History Report

6.8.2 Data Selection Options

You may select which monitors and data values are included in the History report by using the selection criteria screen. A sample screen is shown in Figure 6-20.

You must specify a state code as a minimum to retrieve History data. In addition, you may enter county and/or site. A second group of selection criteria consists of the following fields:

parameter
POC

You may also specify which field changes are to be displayed, from the following options:

1	monitor type
2	reporting organization
3	required sampling frequency (EPA)
4	required sampling frequency (state)
(blank)	all fields

The default is for all changed fields to be displayed. Press ENTER without making an entry in the Field-Changed field.

```
11/12/92                AIRS Air Quality Subsystem                AMP510T
                             Browse History Data
                             Selection Criteria


          State : __
          County: ___
          Site  : ____

          Parameter: _____
          POC      : _

          Field Changed: _
                               1 = Monitor Type
                               2 = Reporting Organization
                               3 = Required Sampling Frequency EPA
                               4 = Required Sampling Frequency State
                           blank = all fields (default)


          PF3=end          PF4=main menu          PF5=terminate
```

Figure 6-20. History Data Selection Criteria

Instructions

Enter selection criteria into the available fields on the selection criteria screen, or alter the previously entered criteria displayed on the screen if you wish. Press the ENTER key when you have finished entering or altering the criteria.

Read Section 1.2 if you are not familiar with how to use the selection criteria screen. Refer to Volume GC2 of the AIRS User's Guide for lists of valid codes to use for selection criteria.

Error Messages

The error messages listed below (in alphabetical order) are displayed at the top of the selection criteria screen if you make a mistake in specifying information.

COMPLETE MONITOR-ID REQUIRED WITH POC CODE
If POC is entered, state, county, site, and parameter must be entered.

ENTER SELECTION CRITERIA OR USE A PF-KEY TO ESCAPE
ENTER was pressed without any selection criteria specified. Either specify criteria and press ENTER or use one of the valid PF keys to transfer to another screen or terminate the AIRS session.

PLEASE ENTER A VALID COUNTY CODE
The combination of county and state codes is not valid.

PLEASE ENTER A VALID FIELD-CHANGED VALUE
The value for field-changed may only be 1, 2, 3, 4, or blank.

PLEASE ENTER A VALID MONITOR-ID
The monitor (state, county, site, parameter, POC) entered was not found in the Site File.

PLEASE ENTER A VALID PARAMETER CODE
The parameter code is not valid.

PLEASE ENTER A VALID STATE CODE
The state code is not valid.

PLEASE USE A VALID PF-KEY
A PF key not defined for this screen was used.

STATE CODE IS REQUIRED
State must be entered.

THE COUNTY CODE IS REQUIRED WITH THE SITE CODE
If site is entered, county must be entered.

6.8.3 On-line Report

The report program will access the History record of the Site File and retrieve data that meets the user-specified data selection. Figure 6-19 contains a sample History report.

Error Messages

The error messages listed below (in alphabetical order) are displayed at the top of the report if an error is made.

ENTER INVALID - ONLY ONE DATA SCREEN
ENTER was pressed in error.

PF7 INVALID - BEGINNING OF SELECTED RECORDS
PF7 was pressed when the current screen is the first report screen.

PF7 INVALID - BEGINNING OF SELECTED RECORDS OR MAX RECORDS SCROLLED
PF7 was pressed when the current screen is the first report screen or the user has scrolled backward through ten report screens.

PLEASE USE A VALID PF-KEY
A PF key not defined for the screen was pressed.

6.9 P/A Reporting Organization Summary Data (AMP510R)

6.9.1 Description

The P/A Reporting Organization Summary report displays a statistical summary of the precision and accuracy data reported by reporting organizations. A sample report is shown in Figure 6-21. The data are extracted from the AIRS P/A Reporting Organization Summary File. The report includes descriptive items and quarterly and yearly summary statistics for each reporting organization.

The selection criteria screen allows the user to enter a reporting organization. In addition, parameter, begin year, end year, and type data can be entered as selection criteria. The statistical P/A Reporting Organization Summary data is retrieved and displayed in state, reporting organization, parameter, year, and type data sequence.

```
11/12/92                    AIRS Air Quality Subsystem                    AMP510RB
                  Browse P/A Reporting Organization Summary Data          Page 1/2

State         : 37   NORTH CAROLINA
Reporting Org: 001   NORTH CAROLINA DEPT NATURAL RESOURCES&COMMUNITY DE
Year          : 81
Parameter     : 42101 CARBON MONOXIDE
Type Data     : C    CONTINUOUS

                                  Precision Data

     |Lower|      |Number|Number|Colloc|Number  |Number|Number|Upper|
     |Prob |Number|Colloc|Colloc|Samples|Precision|Colloc|Valid |Prob |
     |Limit|Analzrs|Sites|Samples|B Limit| Checks |Samples|Data Prs|Limit|
YR   -19      2      0      0      0       47       0      0     +13
Q1   -38      2      0      0      0       11       0      0     +19
Q2   -08      2      0      0      0       11       0      0     +06
Q3   -07      2      0      0      0       12       0      0     +03
Q4   -03      2      0      0      0       13       0      0     +04

  PF3=end      PF4=main menu      PF5=terminate      PF7=prev      PF8=next
```

```
11/12/92                    AIRS Air Quality Subsystem                    AMP510RB
                  Browse P/A Reporting Organization Summary Data          Page 2/2

State         : 37   NORTH CAROLINA
Reporting Org: 001   NORTH CAROLINA DEPT NATURAL RESOURCES&COMMUNITY DE
Year          : 81
Parameter     : 42101 CARBON MONOXIDE
Type Data     : C    CONTINUOUS

                                  Accuracy Data

     |Number|
     |Audits|  Number of   |Local|      |      Probability Limits for Levels
     |Lvl1-3|Audits Levels |Std  |Audit |  1    |  2    |  3    |  4    |  5
     |Manual|1-3|  4 |  5 |Src  |Type  |Lwr|Upr|Lwr|Upr|Lwr|Upr|Lwr|Upr|Lwr|Upr
YR      0    9   0    0                -20 +11 -09 +03 -08 +03
Q1      0    2   0    0   F            -15 -07 -06 -03 -06 -05
Q2      0    2   0    0   F            -08 -08 -10 -02 -05 -01
Q3      0    3   0    0   F     2      -23 +23 -11 +05 -08 +04
Q4      0    2   0    0   F     2      -01 +01 -01 +01 -01 +03

  PF3=end      PF4=main menu      PF5=terminate      PF7=prev      PF8=next
```

Figure 6-21. P/A Reporting Organization Summary Data Report (1 of 2) and (2 of 2)

6.9.2 Data Selection Options

The user may select which reporting organization and data values are included in the P/A Reporting Organization Summary report by using the selection criteria screen. A sample screen is shown in Figure 6-22.

The user must specify a state code as a minimum to retrieve P/A Reporting Organization Summary data. In addition, the user may enter any of the following fields as selection criteria:

reporting organization
parameter
begin year
end year
type data

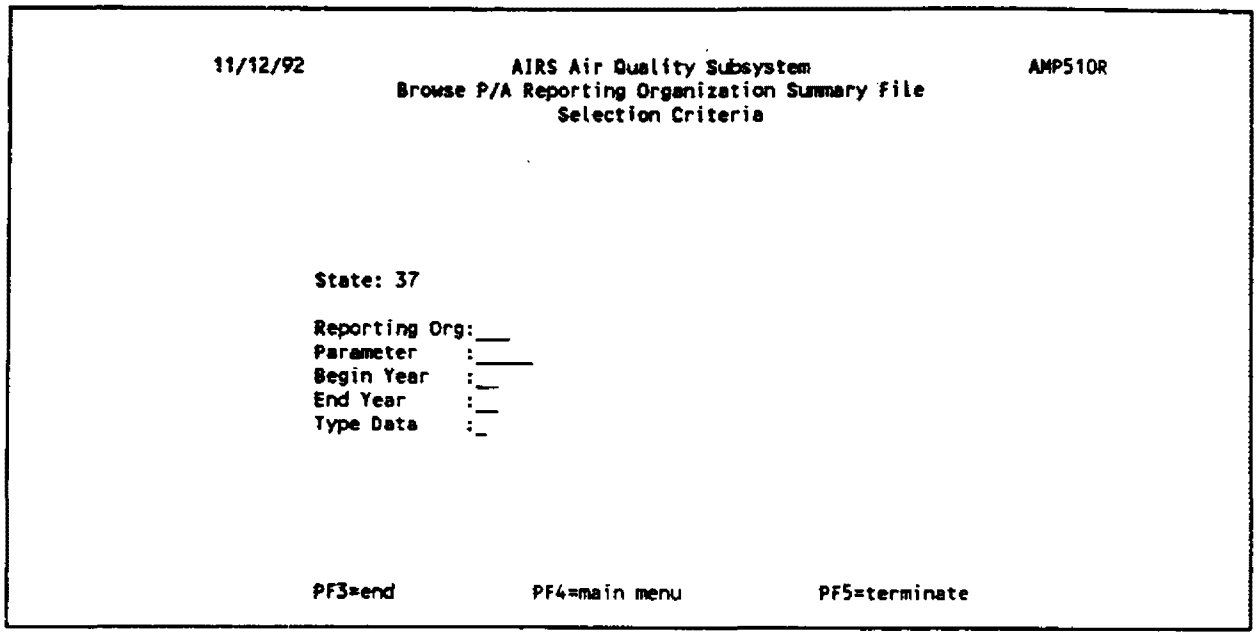

Figure 6-22. P/A Reporting Organization Summary Data Selection Criteria

Instructions

Enter selection criteria into the available fields on the selection criteria screen, or alter the previously entered criteria displayed on the screen if you wish. Press the ENTER key when you have finished entering or altering the criteria.

Read Section 6.1.2 if you are not familiar with how to use the selection criteria screen. Refer to Volume GC2 of the AIRS User's Guide for lists of valid codes to use for selection criteria.

Error Messages

The error messages listed below (in alphabetical order) are displayed at the top of the selection criteria screen if you make a mistake in specifying information.

BEGIN YEAR IS < 57 OR > CURRENT YEAR
Begin year must be in the range 1957 through current year.

BEGIN YEAR IS REQUIRED WITH END YEAR
If end year is entered, begin year must be entered.

END YEAR IS < 57 OR > CURRENT YEAR
End year must be in the range 1957 through current year.

ENTER SELECTION CRITERIA OR USE A PF-KEY TO ESCAPE
ENTER was pressed without any selection criteria specified. Either specify criteria and press ENTER or use one of the valid PF keys to transfer to another screen or terminate the AIRS session.

PLEASE ENTER A NUMERIC BEGIN YEAR
The begin year entered must be numeric.

PLEASE ENTER A NUMERIC END YEAR
The end year entered must be numeric.

PLEASE ENTER A VALID PARAMETER CODE
The parameter code is not valid.

PLEASE ENTER A VALID REPORTING ORG CODE
The combination of state and reporting organization codes is not valid.

PLEASE ENTER A VALID STATE CODE
The state code is not valid.

PLEASE USE A VALID PF-KEY
A PF key not defined for this screen was used.

STATE CODE IS REQUIRED

State must be entered.

TYPE DATA MUST BE "C" OR "I"

The value for type data may only be C (Continuous), I (Intermittent), or blank.

6.9.3 On-line Report

The report program will access the P/A Reporting Organization Summary File and retrieve data that meets the user-specified data selection. Figure 6-21 contains a sample P/A Reporting Organization Summary report.

Error Messages

The error messages listed below (in alphabetical order) are displayed at the top of the report if an error is made.

ENTER INVALID - ONLY ONE DATA SCREEN
ENTER was pressed in error.

PF7 INVALID - BEGINNING OF SELECTED RECORDS
PF7 was pressed when the current screen is the first report screen.

PF7 INVALID - BEGINNING OF SELECTED RECORDS OR MAX RECORDS SCROLLED
PF7 was pressed when the current screen is the first report screen or the user has scrolled backward through 10 report screens.

PLEASE USE A VALID PF-KEY
A PF key not defined for the screen was used.

6.10 P/A Monitor Summary Data (AMP510N)

6.10.1 Description

The P/A Monitor Summary report displays a statistical summary of the precision and accuracy data reported by air quality monitors. A sample report is shown in Figure 6-23. The data are extracted from the AIRS P/A Monitor Summary File. The report includes descriptive items and quarterly and yearly summary statistics for each selected monitor.

The selection criteria screen allows the user to enter a monitoring station ID or any valid combination of the fields that comprise monitoring station. In addition, begin year, end year, reporting organization, interval, and monitor type can be entered as selection criteria. The statistical P/A Monitor Summary data is retrieved and displayed in monitor-ID (state, county, site, parameter, POC), year, monitor type, reporting organization, and interval sequence.

```
11/12/92                    AIRS Air Quality Subsystem                    AMP510NB
                        Browse P/A Monitor Summary Data                   Page 1/2

State    : 37   NORTH CAROLINA        Year         : 87
County   : 021  BUNCOMBE CO          Monitor Type: 2  SLAMS
Site     : 0029                      Interval     : 1  1 HOUR
Parameter: 44201 OZONE               Units        : 007 PPM
POC      : 1                         Audit Class  : A  ANALYTICAL
                                     Type Data    : C  CONTINUOUS
Reporting Org: 004 NORTH CAROLINA WESTERN REGIONAL AIR POLLUTION CONT

Method(s):                           Precision Data:
019 INSTRUMENTAL ULTRA VIOLET

                                                                    |Number
                                                  |Number  |No Valid|Colloc
                                  |Lwr|Upr|No     |Colloc  |Colloc |Samples
                                  |Prb|Prb|Chks   |Samples |Data Prs|B Limit
                              YR  -16 +15  21        0        0        0
                              Q1
                              Q2  -15 +19   8        0        0        0
                              Q3  -09 +12   9        0        0        0
                              Q4  -22 +05   4        0        0        0

  PF3=end     PF4=main menu     PF5=terminate     PF7=prev     PF8=next
```

```
11/12/92                    AIRS Air Quality Subsystem                    AMP510NB
                        Browse P/A Monitor Summary Data                   Page 2/2

  Monitor-Id: 37-021-0029-44201-1              Type Data: C CONTINUOUS

                                Accuracy Data

   |A|
   |u|
   |d|Loc|          Number of                |     Probability Limits for Levels
   |i|Std|          Audits for Levels        |  1      |  2      |  3      |  4      |  5
   |t|Src| 1-3|  1 |  2 |  3 |  4 |  5 |Lwr|Upr|Lwr|Upr|Lwr|Upr|Lwr|Upr|Lwr|Upr
YR         2    2    2    2    0    0 -20 +02 -16 -02 -17 -01
Q1
Q2
Q3         1    1    1    1    0    0 -14   * -12   * -13   *
Q4         1    1    1    1    0    0 -05   * -06   * -06   *

  PF3=end     PF4=main menu     PF5=terminate     PF7=prev     PF8=next
```

Figure 6-23. P/A Monitor Summary Data Report (1 of 2) and (2 of 2)

6.10.2 Data Selection Options

The user may select which monitors and data values are included in the P/A Monitor Summary report by using the selection criteria screen. A sample screen is shown in Figure 6-24.

The user must specify a state code as a minimum to retrieve P/A Monitor Summary data. In addition, the user may enter county and/or site. A second group of selection criteria consists of the following fields:

parameter
POC
begin year
end year
reporting organization
interval
monitor type

```
11/12/92              AIRS Air Quality Subsystem                AMP510N
                    Browse P/A Monitor Summary Data
                         Selection Criteria


          State : 37
          County: ___
          Site  : ____

          Parameter     : _____
          POC           : _
          Begin Year    : __
          End Year      : __
          Reporting Org: ___
          Interval      : _
          Monitor Type  : _


          PF3=end          PF4=main menu          PF5=terminate
```

Figure 6-24. P/A Monitor Summary Data Selection Criteria

Instructions

Enter selection criteria into the available fields on the selection criteria screen, or alter the previously entered criteria displayed on the screen if you wish. Press the ENTER key when you have finished entering or altering the criteria.

Read Section 6.1.2 if you are not familiar with how to use the selection criteria screen. Refer to Volume GC2 of the AIRS User's Guide for lists of valid codes to use for selection criteria.

Error Messages

The error messages listed below (in alphabetical order) are displayed at the top of the selection criteria screen if you make a mistake in specifying information.

BEGIN YEAR IS < 57 OR > CURRENT YEAR
Begin year must be in the range 1957 through current year.

BEGIN YEAR IS REQUIRED WITH END YEAR
If end year is entered, begin year must be entered.

COMPLETE MONITOR-ID IS REQUIRED WITH POC CODE
If POC is entered, state, county, site, and parameter must be entered.

END YEAR IS < 57 OR > CURRENT YEAR
End year must be in the range 1957 through current year.

END YEAR MUST BE > OR = BEGIN YEAR
End year must be greater than or equal to begin year.

ENTER SELECTION CRITERIA OR USE A PF-KEY TO ESCAPE
ENTER was pressed without any selection criteria specified. Either specify criteria and press ENTER or use one of the valid PF keys to transfer to another screen or terminate the AIRS session.

PLEASE ENTER A NUMERIC BEGIN YEAR
The begin year entered must be numeric.

PLEASE ENTER A NUMERIC END YEAR
The end year entered must be numeric.

PLEASE ENTER A VALID COUNTY CODE
The combination of county and state codes is not valid.

PLEASE ENTER A VALID INTERVAL CODE
The interval code is not valid.

PLEASE ENTER A VALID MONITOR-ID

The monitor (state, county, site, parameter, and POC) entered was not found in the P/A Monitor Summary File.

PLEASE ENTER A VALID MONITOR-TYPE CODE

The monitor type code is not valid. Use a code listed in Volume GC2, or use "B" to select both NAMS and SLAMS monitor types.

PLEASE ENTER A VALID PARAMETER CODE

The parameter code is not valid.

PLEASE ENTER A VALID REPORTING ORG CODE

The combination of state and reporting organization codes is not valid.

PLEASE ENTER A VALID STATE CODE

The state code is not valid.

PLEASE USE A VALID PF-KEY

A PF key not defined for this screen was used.

STATE CODE IS REQUIRED

State must be entered.

THE COUNTY CODE IS REQUIRED WITH THE SITE CODE

If site is entered, county must be entered.

6.10.3 On-line Report

The report program will access the P/A Monitor Summary File and retrieve data that meets the user-specified data selection. Figure 6-23 contains a sample P/A Monitor Summary report.

Error Messages

The error messages listed below (in alphabetical order) are displayed at the top of the report if an error is made.

ENTER INVALID - ONLY ONE DATA SCREEN
ENTER was pressed in error.

PF7 INVALID - BEGINNING OF SELECTED RECORDS
PF7 was pressed when the current screen is the first report screen.

PF7 INVALID - BEGINNING OF SELECTED RECORDS OR MAX RECORDS SCROLLED
PF7 was pressed when the current screen is the first report screen or the user has scrolled backward through 10 report screens.

PLEASE USE A VALID PF-KEY
A PF key not defined for the screen was used.

6.11 P/A Monitor Raw Data (AMP510P)

6.11.1 Description

The P/A Monitor Raw Data report displays two screens of data for each AIRS monitoring station. A sample report is shown in Figure 6-25. The first screen identifies the AIRS site, parameter measured, POC, data type, accuracy audit type, accuracy local standard source, audit class, method of collection and analysis, interval, monitor type, and units of measure. The second screen displays up to one month of precision and accuracy audit results for the monitor-ID identified on the first screen.

The user can scroll forward and backward through the months of data for the year by using the PF8 and PF7 keys, respectively. When a value on screen 1 changes, screen 1 will be redisplayed to display the new header field values. The user has the option to view the header information displayed on screen 1 by using the ENTER key to toggle between screens.

The selection criteria screen allows the user to enter an AQ monitoring station ID, or any valid combination of fields that comprise monitoring station ID. In addition, begin year, begin month, end year, end month, monitor type, interval, and method can be entered as selection criteria. Data from the P/A Monitor Raw Data File is retrieved and displayed in monitor-ID (state, county, site, parameter, POC), year, and month sequence.

```
11/12/92                    AIRS Air Quality Subsystem                    AMP510PB
                            Browse P/A Monitor Raw Data                   Page 1/2

State    : 37   NORTH CAROLINA        Audit Type  :
County   : 021  BUNCOMBE CO          STD Local   :
Site     : 0029                      Audit Class : A ANALYTICAL
Parameter: 44201 OZONE
POC      : 1
Data Type: A    ACCURACY


Method      : 019 INSTRUMENTAL ULTRA VIOLET
Interval    : 1   1 HOUR
Monitor Type: 2   SLAMS
Units       : 007 PPM



   PF3=end      PF4=main menu      PF5=terminate      PF7=prev      PF8=next
```

```
11/12/92                    AIRS Air Quality Subsystem                    AMP510PB
                            Browse P/A Monitor Raw Data                   Page 2/2

   Monitor-Id: 37-021-0029-44201-1    Date: 87/10      Data Type: A ACCURACY


    ------------------ Actual and Indicated Values ------------------
Day   Level 1       Level 2       Level 3       Level 4       Level 5     Zero
      Act   Ind     Act   Ind     Act   Ind     Act   Ind     Act   Ind   Span
27    .079  .075    .178  .167    .446  .418


   PF3=end      PF4=main menu      PF5=terminate      PF7=prev      PF8=next
```

Figure 6-25. P/A Monitor Raw Data Report (1 of 2) and (2 of 2)

6.11.2 Data Selection Options

The user may select which monitors and data values are included in the P/A Monitor Raw Data report by using the selection criteria screen. A sample screen is shown in Figure 6-26.

The user must specify a state code as a minimum to retrieve P/A Monitor Raw Data. In addition, the user may enter county and/or site. A second group of selection criteria consists of the following fields:

parameter
POC
begin date (year, month)
end date (year, month)
monitor type
interval
method

```
11/12/92              AIRS Air Quality Subsystem                AMP510P
                      Browse P/A Monitor Raw Data
                          Selection Criteria


          State : 37
          County: ___
          Site  : ____

          Parameter     : _____
          POC           : _
          Begin Date
                  Year  : __
                  Month : __
          End Date
                  Year  : __
                 Month  : __
          Monitor Type  : _
          Interval      : _
          Method        : ___


          PF3=end          PF4=main menu          PF5=terminate
```

Figure 6-26. P/A Monitor Raw Data Selection Criteria

Instructions

Enter selection criteria into the available fields on the selection criteria screen, or alter the previously entered criteria displayed on the screen if you wish. Press the ENTER key when you have finished entering or altering the criteria.

Read Section 6.1.2 if you are not familiar with how to use the selection criteria screen. Refer to Volume GC2 of the AIRS User's Guide for lists of valid codes to use for selection criteria.

Error Messages

The error messages listed below (in alphabetical order) are displayed at the top of the selection criteria screen if you make a mistake in specifying information.

BEGIN MONTH > CURRENT MONTH
The begin year entered is equal to the current year and begin month is greater than the current month.

BEGIN MONTH IS < 1 OR > 12
Begin month must be in the range from 1 (January) through 12 (December).

BEGIN MONTH IS REQUIRED WITH END MONTH
If end month is entered, begin month must be entered.

BEGIN YEAR IS < 57 OR > CURRENT YEAR
Begin year must be in the range 1957 through current year.

BEGIN YEAR IS REQUIRED WITH BEGIN MONTH
If begin month is entered, begin year must be entered.

BEGIN YEAR IS REQUIRED WITH END YEAR
If end year is entered, begin year must be entered.

COMPLETE MONITOR-ID IS REQUIRED WITH POC CODE
If POC is entered, state, county, site, and parameter must be entered.

END MONTH > CURRENT MONTH
The end year entered is equal to the current year and end month is greater than the current month.

END MONTH IS < 1 OR > 12
End month must be in the range from 1 (January) through 12 (December).

END MONTH IS REQUIRED WITH BEGIN MONTH
If begin year and begin month are entered and end year is entered, end month must be entered.

END MONTH MONTH MUST BE > OR = BEGIN MONTH
If begin and end year are equal, begin month must be less than the end month.

END YEAR IS < 57 OR > CURRENT YEAR
End year must be in the range 1957 through current year.

END YEAR IS REQUIRED WITH END MONTH
If end month is entered, end year must be entered.

END YEAR MUST BE > OR = BEGIN YEAR
End year must be greater than or equal to begin year.

ENTER SELECTION CRITERIA OR USE A PF-KEY TO ESCAPE
ENTER was pressed without any selection criteria specified. Either specify criteria and press ENTER or use one of the valid PF keys to transfer to another screen or terminate the AIRS session.

PLEASE ENTER A NUMERIC BEGIN MONTH
The begin month entered must be numeric.

PLEASE ENTER A NUMERIC BEGIN YEAR
The begin year entered must be numeric.

PLEASE ENTER A NUMERIC END MONTH
The end month entered must be numeric.

PLEASE ENTER A NUMERIC END YEAR
The end year entered must be numeric.

PLEASE ENTER A PARAMETER CODE WITH THE METHOD CODE
If method is enterd, parameter must be entered.

PLEASE ENTER A VALID COUNTY CODE
The combination of county and state codes is not valid.

PLEASE ENTER A VALID INTERVAL CODE
The interval code is not valid.

PLEASE ENTER A VALID MONITOR-ID
The monitor (state, county, site, parameter, and POC) entered was not found in the P/A Monitor Summary File.

PLEASE ENTER A VALID MONITOR-TYPE CODE
The monitor type code is not valid. Use a code listed in Volume GC2, or use "B" to select both NAMS and SLAMS monitor types.

PLEASE ENTER A VALID PARAMETER CODE
The parameter code is not valid.

PLEASE ENTER A VALID REPORTING ORG CODE
The combination of state and reporting organization codes is not valid.

PLEASE ENTER A VALID STATE CODE
The state code is not valid.

PLEASE USE A VALID PF-KEY
A PF key not defined for this screen was used.

STATE CODE IS REQUIRED
State must be entered.

THE COUNTY CODE IS REQUIRED WITH THE SITE CODE
If site is entered, county must be entered.

6.11.3 On-line Report

The report program will access the P/A Raw Data File and retrieve data that meets the user-specified data selection. Figure 6-25 contains a sample P/A Monitor Raw Data report.

Error Messages

The error messages listed below (in alphabetical order) are displayed at the top of the report if an error is made.

PF7 INVALID - BEGINNING OF SELECTED RECORDS
PF7 was pressed when the current screen is the first report screen.

PF7 INVALID - BEGINNING OF SELECTED RECORDS OR MAX RECORDS SCROLLED
PF7 was pressed when the current screen is the first report screen or the user has scrolled backward through 10 report screens.

PLEASE USE A VALID PF-KEY
A PF key not defined for this screen was used.