



Technology Transfer Network Air Quality System

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Requesting AQS Data

The purpose of this web page is to assist those who want to obtain files of the very detailed ambient air quality data (e.g., hourly measurements) from AQS for analysis.

NOTE: If you are interested in only summary information (e.g., daily or yearly means, or peak concentrations), it is available elsewhere. Summary data are accessible to the public from the [AirData](#) and the [AIRNOW](#) web area. Unless you are doing detailed analysis of the data, summary data will likely meet your needs.

AQS data is available from various places, depending on the data you need. Registered users of the AQS application may download data from the production database via standard reports or ad hoc query tools.

Non-registered users may request detailed data files from tribal, state, or local agencies directly, or from EPA regional or headquarters offices. These agencies may be located through the "Contacts" link on the sidebar to the left on this page.

In addition to the above methods, about 80 [files of detailed data](#) (i.e., the collected sample values reported to AQS on hourly, daily, or other time-related bases) are available from the link to a table of files below. These national files include a year's worth of data for CO, PB, NO₂, O₃, PAMS VOC, PM_{2.5}, PM Fine Speciation, PM₁₀, NOY, NOX, or SO₂ for 1994 through 2003.

Data not otherwise available may be requested by submitting an [AQS Data Request](#).

Table of yearly files currently available for download	AQS Data Request
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Download Detailed AQS Data

The table below provides links to files of detail data (a.k.a., raw data) extracted from the AQS database in [input transaction format](#) (RD transactions). These files following the naming convention of "RD_501_ppppp_yyyy.ZIP", where "ppppp" = AQS parameter code and "yyyy" = year of data. All files are zipped to conserve disk space. Refer to our [Tools](#) page if you need assistance with file types.

A file containing 2000-2003 [site and monitor records](#) as of 3/5/04 in [input transaction format](#) is also available as a text file. Site records begin with the letter "A"; monitor records begin with "M".

Raw Data retrieved from AQS

Pollutant (parameter code) File name (substitute year for "yyyy")	Year of data, zipped file size, (unzipped file sizes), Date of extraction										
	Updates for these years may come at any time				Updates for these years are no longer expected						
	2003 most are incomplete until at least 7/1/04	2002	2001	2000	1999	1998	1997	1996	1995	1994	
Carbon Monoxide (42101) RD_501_42401_yyyy.ZIP	42101_2003 13711KB (241645KB) 3/20/04	42101_2002 14685KB (261669KB) 3/16/04	42101_2001 14681KB (269358KB) 3/19/04	42101_2000 15383KB (283253KB) 3/19/04	42101_1999 9812KB (173441KB) 3/17/04	42101_1998 10031KB (178125KB) 3/17/04	42101_1997 10136KB (177404KB) 3/17/04	42101_1996 10102KB (178122KB) 3/17/04	42101_1995 10171KB (175888KB) 3/17/04	42101_1994 10774KB (185853KB) 3/17/04	
Lead - PB - daily (12128) RD_501_12128_yyyy.ZIP	12128_2003 47KB (837KB) 3/13/04	12128_2002 65KB (872KB) 3/13/04	12128_2001 70KB (926KB) 3/13/04	12128_2000 66KB (919KB) 3/13/04	12128_1999 72KB (996KB) 3/13/04	12128_1998 85KB (1190KB) 3/13/04	12128_1997 104KB (1484KB) 3/13/04	12128_1996 120KB (1700KB) 3/13/04	12128_1995 126KB (1774KB) 3/13/04	12128_1994 136KB (1895KB) 3/13/04	
Nitrogen Dioxide (42602) RD_501_42602_yyyy.ZIP	42602_2003 13796KB (227515KB) 3/20/04	42602_2002 13951KB (240075KB) 3/20/04	42602_2001 13785KB (236368KB) 3/20/04	42602_2000 13712KB (234701KB) 3/20/04	42602_1999 13374KB (231116KB) 3/20/04	42602_1998 13838KB (230954KB) 4/1/04	42602_1997 12796KB (224385KB) 4/5/04	42602_1996 12473KB (217890KB) 4/5/04	42602_1995 12549KB (218334KB) 4/5/04	42602_1994 12767KB (209894KB) 4/1/04	
Ozone (44201) - hourly RD_501_44201_yyyy.ZIP	44201_2003 32969KB (547240KB) 3/31/04	44201_2002 32902KB (542489KB) 3/31/04	44201_2001 32482KB (531055KB) 3/29/04	44201_2000 31526KB (513741KB) 3/29/04	44201_1999 29936KB (498512KB) 4/6/04	44201_1998 29266KB (487941KB) 4/6/04	44201_1997 28499KB (475372KB) 4/6/04	44201_1996 27464KB (460405KB) 4/6/04	44201_1995 27508KB (461948KB) 4/6/04	44201_1994 26916KB (452050KB) 4/6/04	
Oxides of Nitrogen - NOx (42603) RD_501_42603_yyyy.ZIP	42603_2003 10137KB (159354KB) 3/20/04	42603_2002 10193KB (164971KB) 3/20/04	42603_2001 9796KB (157236KB) 3/20/04	42603_2000 9753KB (155778KB) 3/20/04	42603_1999 9427KB (154121KB) 3/31/04	42603_1998 8861KB (147647KB) 4/7/04	42603_1997 8783KB (142443KB) 3/31/04	42603_1996 8780KB (141833KB) 3/31/04	42603_1995 8770KB (141464KB) 3/31/04	42603_1994 8138KB (130628KB) 3/31/04	
PAMS VOC ¹ RD_501_PVOC_yyyy.ZIP	PVOC_2003 21115KB (317011KB) 3/22/04	PVOC_2002 31044KB (479881KB) 3/22/04	PVOC_2001 35713KB (564127KB) 4/14/04	PVOC_2000 32821KB (497498KB) 3/27/04	PVOC_1999 30352KB (479029KB) 4/6/04	PVOC_1998 29769KB (462266KB) 4/6/04	PVOC_1997 24477KB (378479KB) 4/6/04	PVOC_1996 19084KB (293795KB) 4/6/04	PVOC_1995 14119KB (218549KB) 4/6/04	PVOC_1994 1581KB (81895KB) 4/6/04	
PM 2.5 - Local Conditions hourly and daily (88101) RD_501_88101_yyyy.ZIP	88101_2003 13361KB (195211KB) 3/20/04	88101_2002 9881KB (150620KB) 3/19/04	88101_2001 7323KB (108738KB) 3/19/04	88101_2000 4667KB (67728KB) 3/14/04	88101_1999 1838KB (23691KB) 3/13/04	88101_1998 218KB (3419KB) 3/13/04	88101_1997 44KB (738KB) 3/14/04	no data reported	no data reported	no data reported	
PM Fine Speciation ² RD_501_SPEC_yyyy.ZIP	SPEC_2003 7294KB (82800KB) 3/20/04	SPEC_2002 5802KB (74442KB) 3/20/04	SPEC_2001 2841KB (36623KB) 3/20/04	SPEC_2000 981KB (12694KB) 3/20/04	no data reported						
PM 10 (81102) RD_501_81102_yyyy.ZIP	81102_2003 6806KB (102,296KB) 3/13/04	81102_2002 6541KB (98127KB) 3/13/04	81102_2001 6359KB (93210KB) 3/13/04	81102_2000 4885KB (74331KB) 3/13/04	81102_1999 4304KB (63873KB) 3/13/04	81102_1998 4648KB (70,461KB) 3/13/04	81102_1997 5210KB (79,257KB) 3/13/04	81102_1996 4679KB (71,051KB) 3/13/04	81102_1995 3993KB (60285KB) 3/13/04	81102_1994 3139KB (47046KB) 3/13/04	
Reactive Oxides of Nitrogen NOY (42600) RD_501_42600_yyyy.ZIP	42600_2003 510KB (8405KB) 3/14/04	42600_2002 514KB (8124KB) 3/14/04	42600_2001 623KB (9768KB) 3/14/04	42600_2000 509KB (7969KB) 3/14/04	42600_1999 534KB (8295KB) 3/14/04	42600_1998 551KB (8903KB) 3/14/04	42600_1997 320KB (4865KB) 3/14/04	42600_1996 275KB (4186KB) 3/14/04	42600_1995 222KB (3399KB) 3/14/04	no data reported	
Sulfur Dioxide (42401) RD_501_42401_yyyy.ZIP	42401_2003 16165KB (304,344KB) 3/27/04	42401_2002 17529KB (329672KB) 3/27/04	42401_2001 17846KB (333853KB) 3/27/04	42401_2000 18671KB (350286KB) 3/27/04	42401_1999 19240KB (359296KB) 3/31/04	42401_1998 19919KB (372746KB) 4/1/04	42401_1997 19806KB (395570KB) 4/6/04	42401_1996 18659KB (402454KB) 4/6/04	42401_1995 20792KB (400040KB) 4/5/04	42401_1994 21014KB (400040KB) 4/5/04	

¹ List of PAMS VOC Parameter codes with Pollutant name.
² List of PM2.5 Speciation Parameter codes with Pollutant name.

New files may be added from time to time, and some files, especially those for the more current years, may be updated from time to time. The date of extraction for each file is noted in the table above along with the file name and size. File names beginning with "RD_501" indicate the file was created using the AMP501 - Extract Raw Data Report. AMP501 produces a zipped file that includes a "pdf" file that is actually the cover page showing the criteria used to create the file, and a "bt" file with the reported sample values.

Unless otherwise indicated, the unzipped text files match the [input transaction format](#) for raw data, i.e., Transaction Type = RD. Hourly data is reported with Duration code = 1; Daily data is reported with Duration = 7. Various methods are used to collect the data. Some methods are reference methods, some are equivalent methods and some are neither. If you need more information about collection methods, please refer to AMTIC TTN area at <http://www.epa.gov/ttn/amtic/> or the broader area of the Emissions, Monitoring, and Analysis Division at <http://www.epa.gov/air/oaqps/organization/emad/director.html>

Data not otherwise available may be requested by email to [Virginia Ambrose](mailto:Virginia.Ambrose) or via the [AQS Data Request](#) page.



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This page is designed to assist people who need air quality data from AQS. Detailed raw data (daily, hourly, and sub-hourly) and [composite data](#) is available back to 1971 for most pollutants and back to 1957 for a very few of them.

Prior to making this request, please be sure the information you really need is not readily available in the summary data information available from the [AirData](#) web area, the standard reports for the AQS production database (if you're a registered AQS User), or the list of detailed data files at [downloadaqsdata.htm](#). Links to assist you in identifying AQS parameter codes, FIPS codes, and the format of the data to be returned to you are provided on this page. However, if you are not familiar with these terms, you may choose to skip to the "Additional Info" box near the bottom of this page after providing contact information and the time period for your request. If you need further assistance please contact Virginia Ambrose at ambrose.virginia@epa.gov.

Where codes are requested, please verify the correct code from the [Selected AQS Code Descriptions](#) page or from the [Appendices for Data Coding Manual and Data Dictionary](#) prior to submitting your request.

Contact information: (* indicates required field)

*Name

Title

*Organization

Mailing Address

City

State ZIP

*E-mail

*Phone FAX

*Enter the beginning and ending dates for the data you want: -- mm/dd/yy -- mm/dd/yy

If you are not familiar with the codes used in AQS or need further assistance, please provide a brief description of the data you want in the "Additional Info" box near the bottom of this page. (We will need at least the year(s), pollutants, and geographic area as well as the kind of results you want to complete your request, so as much information as you can provide is appreciated.)

[Jump to Additional Info box](#)

Enter the geographical location at the most detailed level that satisfies your need:

(2-char FIPS codes or 2-char State abbreviation may be used for states; 3-char FIPS codes are used for counties. Site codes are 4-digit codes.)

- All states (Please be sure you want a *national* file.)
- Selected areas indicated here:

State abbreviation/code:	<input type="text"/>	County code:	<input type="text"/>	Site(s) (within county):	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
State abbreviation/code:	<input type="text"/>	County code:	<input type="text"/>	Site(s) (within county):	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
State abbreviation/code:	<input type="text"/>	County code:	<input type="text"/>	Site(s) (within county):	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
State abbreviation/code:	<input type="text"/>	County code:	<input type="text"/>	Site(s) (within county):	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
State abbreviation/code:	<input type="text"/>	County code:	<input type="text"/>	Site(s) (within county):	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Indicate the parameter codes for the pollutants you want:

- | | | |
|---|--|---|
| <input type="checkbox"/> Specific Pollutants <input type="text"/> | <input type="checkbox"/> All Criteria Pollutants | <input type="checkbox"/> PM10 Speciated Pollutants |
| <input type="checkbox"/> CORE HAPS (Urban Air Toxic pollutants) | <input type="checkbox"/> HAPS (Hazardous Air pollutants) | <input type="checkbox"/> PM2.5 Mass and QA Pollutants |
| <input type="checkbox"/> MET (Meteorological pollutants) | <input type="checkbox"/> PAMS (Photochemical Assessment Monitoring Stations) | <input type="checkbox"/> PM2.5 Speciated Pollutants |
| <input type="checkbox"/> PAMS VOC (PAMS Volatile Organic Compounds) | | <input type="checkbox"/> PM2.5 Speciation Carbon Pollutants |
| | | <input type="checkbox"/> PM2.5 Speciation Cation/Anion Pollutants |
| | | <input type="checkbox"/> PM2.5 Speciation Metals Pollutants |

Which format do you prefer for your results?

- | Report | Work File |
|--|---|
| <input type="radio"/> Raw Data Report (AMP350)
(view sample report) | <input type="radio"/> Raw Data WorkFile (AMP350WF) (1 record with whole day's values)
(view sample cover page , workfile) |
| <input type="radio"/> Quick Look Report (AMP450)
(view sample report) | <input type="radio"/> Quick Look Workfile (AMP450WF) (format varies depending on parameter)
(view sample cover page , workfile) |
| <input type="radio"/> Other - please explain in
Additional Info box below | <input type="radio"/> Raw Data WorkFile Parameters by Time (AMP460)
(view sample workfile , view sample imported into Excel) |
| | <input type="radio"/> Raw Data Input format (AMP501) (1 record for each recorded value)
(view sample cover page , workfile) |

Additional Info:

Please provide any other information to help complete your request - especially information that could narrow the scope of the data you are requesting. For example, you may need only Duration Code = 1 (hourly data), or only Sampling Methodology Code = 101. Many codes are provided from the [Selected AQS Code Descriptions](#) page.

If you did not provide the detailed information requested above, please remember to include the pollutants and geographic area along with any other information to help explain your request.

How would you like this data returned to you?

- E-mailed to me
 Mailed on CD/DVD/floppy (depending on size)
 Uploaded (FTP'd) to this site:

After you press Submit, you should see a window with your request information as it will be e-mailed to US EPA. Please be sure your information is correct.

For further assistance with data requests, contact

Virginia Ambrose
US EPA/OAQPS/ITPID
IMG (MD-C339-04)
RTP, NC 27711

Phone: (919) 541-5454
FAX: (919) 541-7674
Email: ambrose.virginia@epa.gov

If you have problems with this form, please send an email describing the problem to: johnson.bonnie@epa.gov