

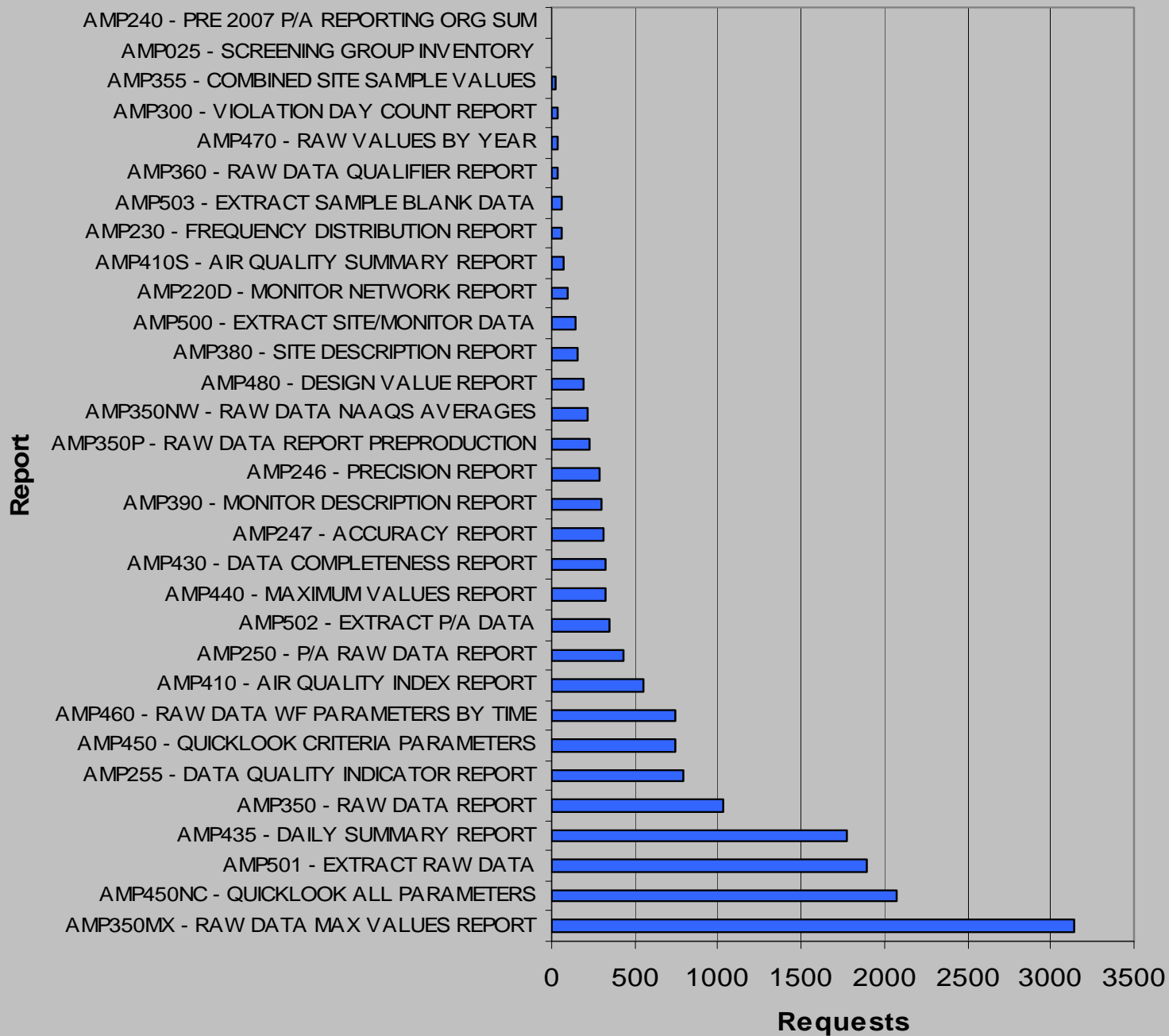
The background features a light blue-to-white gradient with a faint grid pattern. On the left side, there is a complex data visualization consisting of vertical bars and a jagged line graph. The bars are mostly white with thin blue outlines, and some are filled with a light green color. The line graph is a thin blue line that fluctuates across the top of the bars. On the right side, there is a faint, semi-transparent architectural floor plan or site map.

AQS Data Mart

Nick Mangus: 2010 AQS Conference

- **Point of this talk: How the data is going “out”**
 - You’ve put it all in, so what’s happening with it?
- **AQS Reports**
 - TTN downloads
- **Data Mart Accesses**
 - **Connected applications**
 - AirExplorer (we heard about this earlier)
 - AirCompare
 - RSIG
 - KML files
 - W126 preview
 - AirData (in progress)
 - CDC’s EPHT, EPA’s MyEnvironment (no slides)
- **What we’re doing about 88501 v 88502**
- **Overall (people love your data)**

AQS Reports



- Units are state-years (2009 – present)

	DI		Requests	
	Raw	Daily	Raw	Daily
Ozone	530	5,250	2,160	1,270
PM2.5 (88101)	320	7,280	1,100	25
All Criteria*	160	1,780	1,140	5,930
Benzene	80	10	-	600
Temp	28	470	-	2
Wind Speed	5	17	-	-
All Met	250	620	1,030	5

U.S. ENVIRONMENTAL PROTECTION AGENCY

Air and Radiation

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You are here: [EPA Home](#) » [Air and Radiation](#) » [Resources](#) » Air Pollution Data Sources

Air Pollution Data Sources

This page provides links to data systems, maps, and additional information.

[Air quality data](#) reflects the amount of pollution and other substances present in the atmosphere measured by monitors throughout the nation.

[Emissions data](#) reflects the amount of pollutants and other substances being discharged from facilities, vehicles, and other activities that release pollution into the atmosphere.


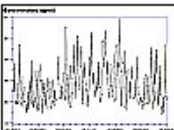

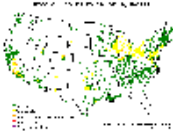
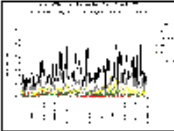

Air Quality Data

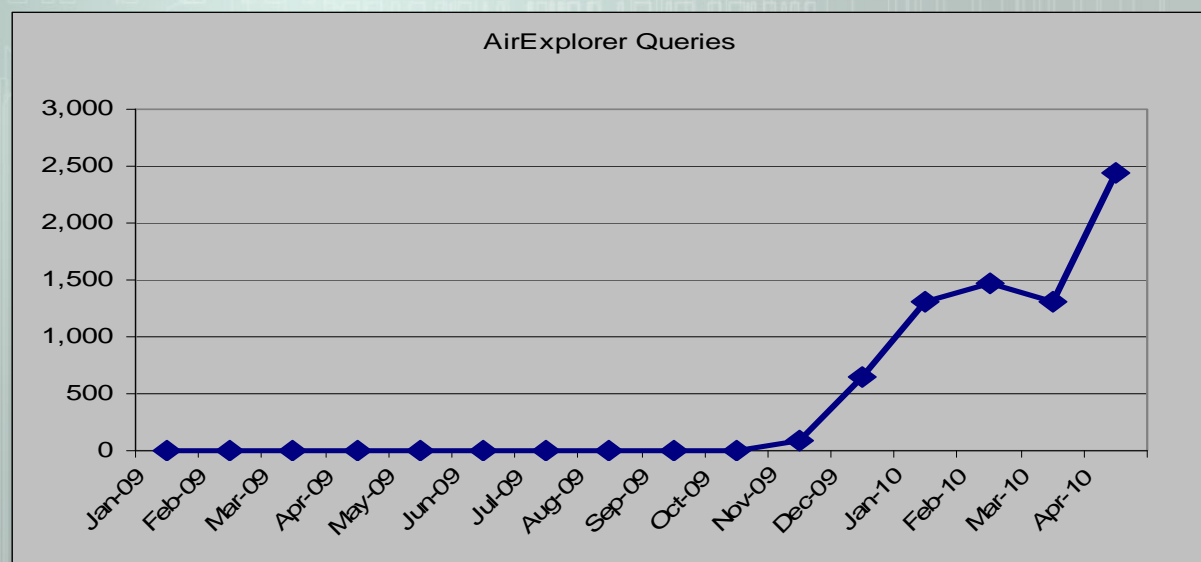
Below is a list of systems with information about air quality. Each entry is a link followed by a description of the system and the intended audience. At the end of this section is a table providing an at-a-glance comparison of the systems.

- [Air Compare](#) - How does the air quality in my city compare with other cities? What time of year has the best air quality? Has the air quality in my city improved? AirCompare provides local air quality information to help you make informed, health-protective decisions about moving or vacationing. *This area is primarily intended for the general public. It provides summary information from the Air Quality System.*
- [Air Data](#) - The AirData site provides reports and maps of air pollution data for the entire United States based on criteria that you specify. *This area is primarily intended for the general public. It provides summary information from the Air Quality System.*
- [Map Air Monitoring Sites](#) - This page provides a collection of KML files that can be used to display the locations of the sites in the major air monitoring networks. Annual and daily data can also be downloaded from links within the maps. *This area is primarily intended for air quality analysts and communications specialists. It provides summary information from the Air Quality System.*
- [Air Explorer](#) - Air Explorer is a collection of user-friendly visualization tools for air quality analysts. The tools generate maps, graphs,

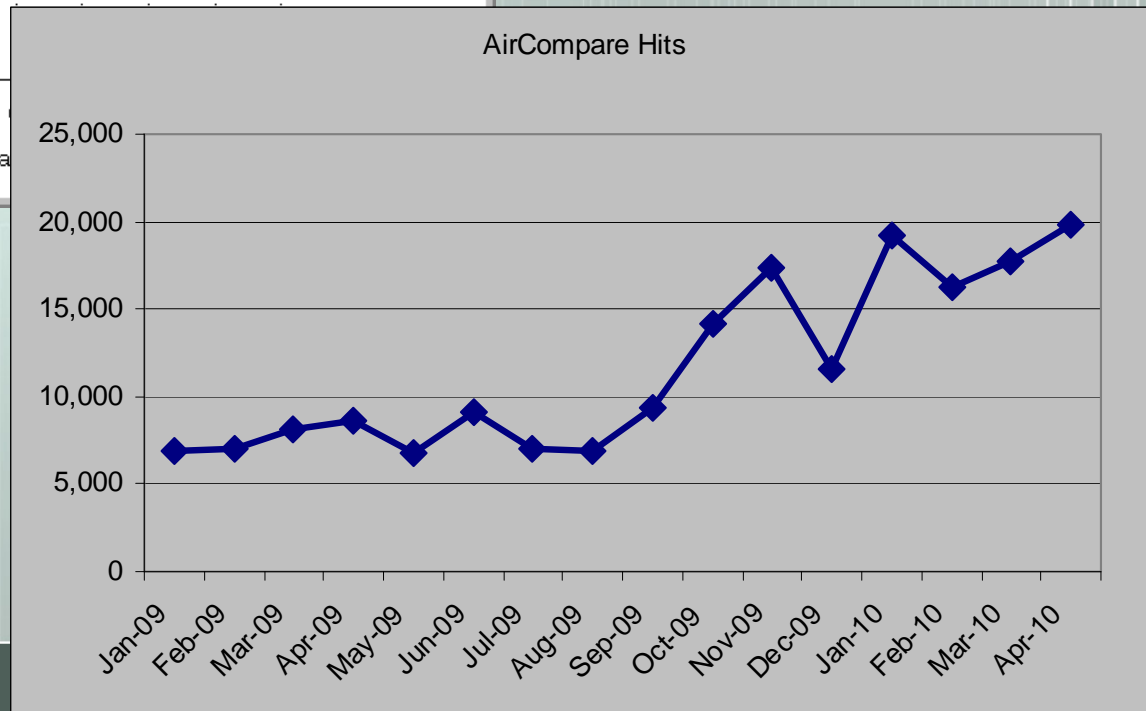
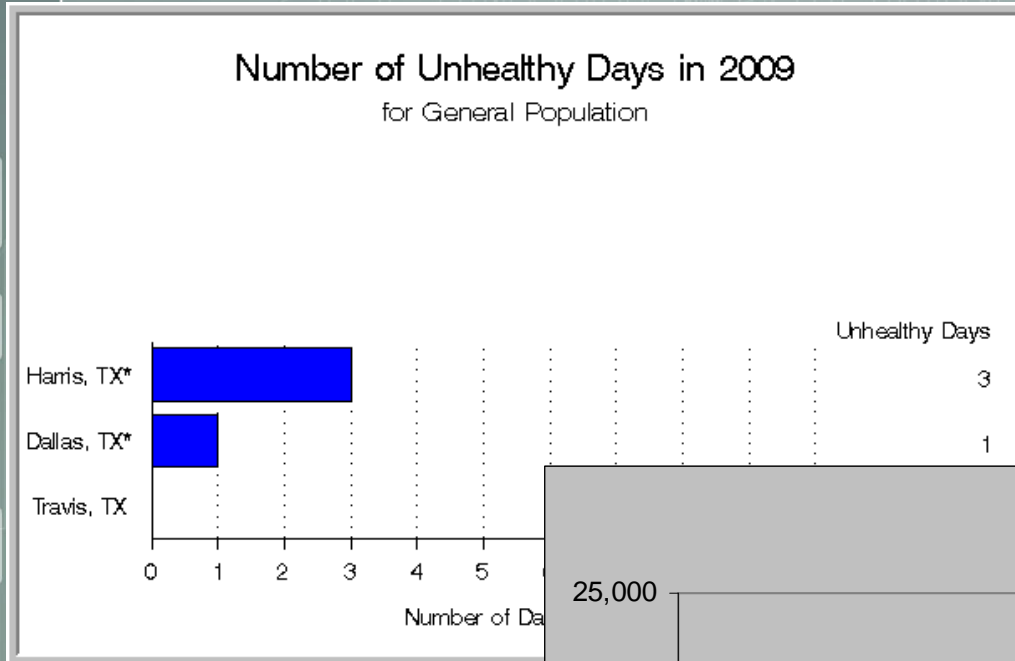
For KIDS

- <http://www.epa.gov/airexplorer>

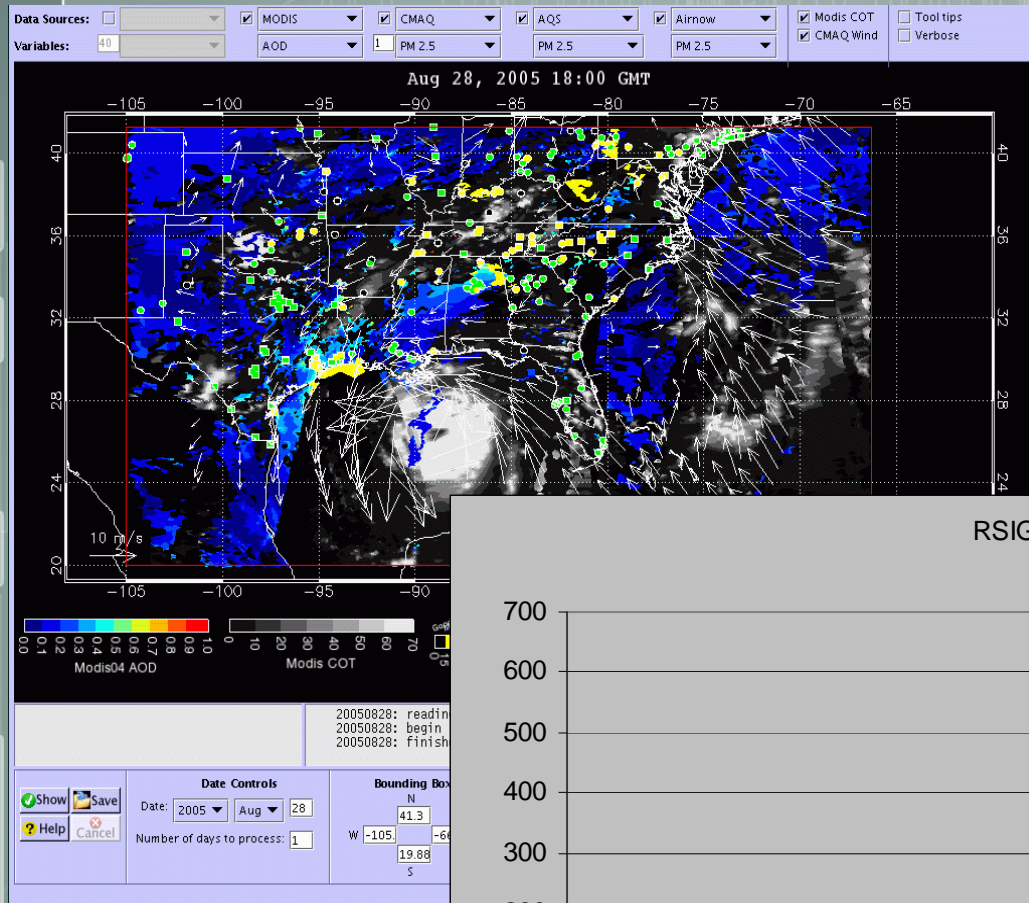
MAPS	GRAPHS	DATA
 <p>Map One Day Generate a three-dimensional, interactive map of daily pollutant concentrations</p>	 <p>Plot Concentrations Generate a time series plot for a specific location and time period</p>	 <p>Query Concentrations View or download daily concentrations for a specific location and time period</p>
 <p>Map Several Days Generate an animated series of daily concentration maps for a specific time period</p>	 <p>Plot Speciation Data Plot daily PM2.5 speciation data for a specific location and time period</p>	 <p>Query Speciation Data View or download daily PM2.5 speciation data for a specific location and time period</p>



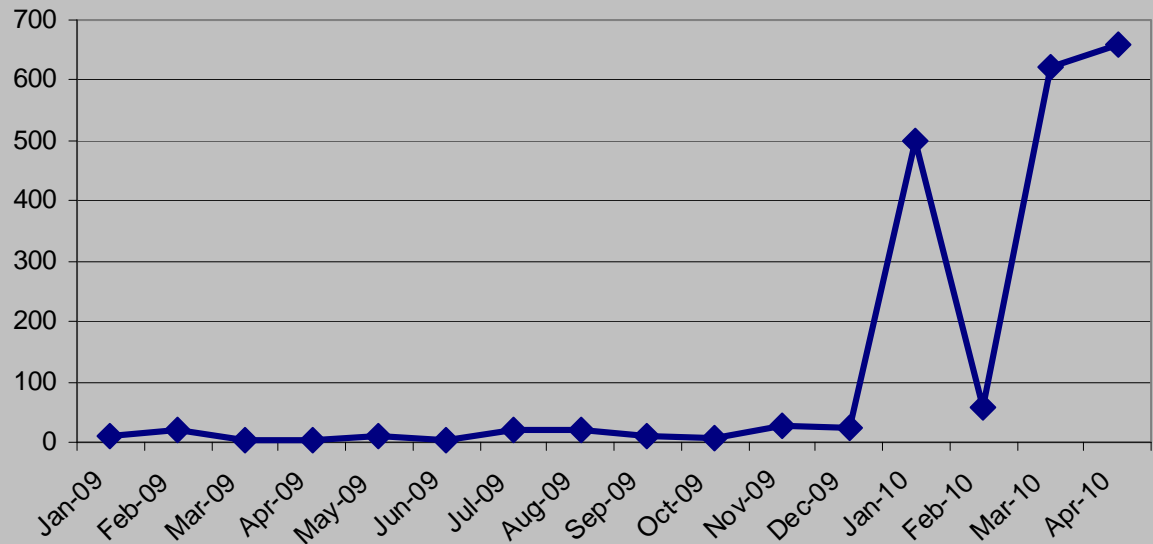
- <http://www.epa.gov/aircompare>



- <http://badger.epa.gov/rsig/>



RSIG Queries



- http://www.epa.gov/airexplorer/monitor_kml.htm

The screenshot displays the EPA Air Explorer interface. On the left, there is a search bar and a 'Places' list with various monitoring categories like PM 2.5, Ozone, and PM 10. Below that is a 'Layers' panel with options like 'Primary Database', 'Borders and Labels', and 'Weather'. The central map shows a satellite view of the Denver area with several monitoring sites marked by colored pins. On the right, a detailed data panel for site 08-041-6005 is visible, containing the following information:

AQS Site ID: 08-041-6005
 POC: 1
 State: Colorado
 City: Not in a city
 MSA: Colorado Springs,CO
 Local Site Name: WEST OF HIGHWAY 85/87 ON THE PINELLO RANCH PROPERTY.
 Address: 4940 S. HIGHWAY 85/87
 Datum: NAD27
 Latitude: 38.763333
 Longitude: -104.756944
 Lat / Lon Accuracy (meters): 910.88
 Elevation (meters): 1747
 Parameter Name: PM10 Total 0-10um STP
 Monitor Start Date: 01JAN88
 Last Sample Date: 26JUN96
 Measurement Scale:
 Measurement Scale Definition:
 Sample Duration: 24 HOURS
 Sample Collection Frequency: EVERY 6TH DAY
 Sample Collection Method: HI-VOL SA/GMW-1200
 Sample Analysis Method: GRAVIMETRIC
 Method Reference ID: RFPS-1287-063
 FRM / FEM: Yes
 Monitor Objective: UNKNOWN
 Monitor Type: OTHER
 Reporting Agency: City of Colorado Springs

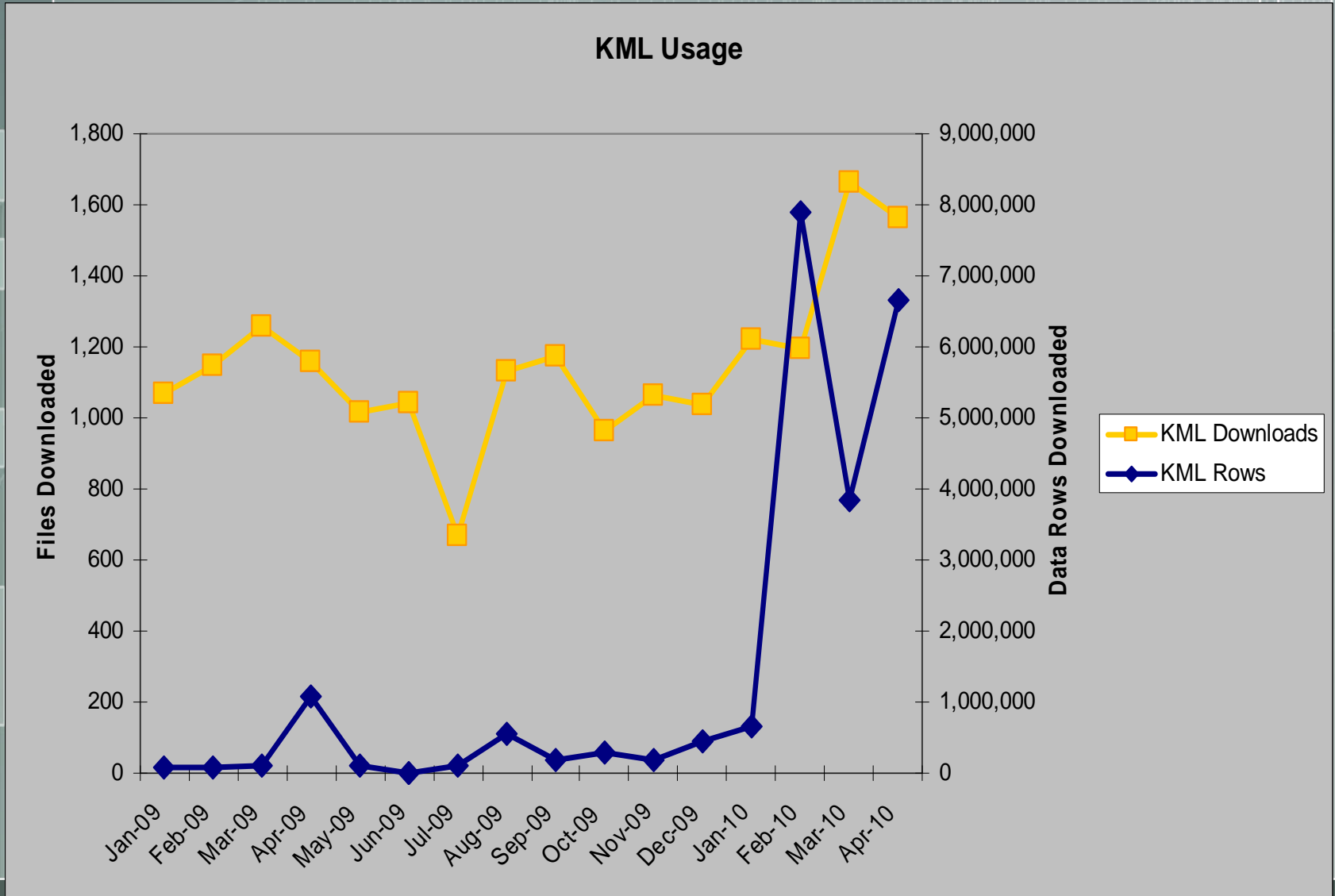
Download Site Data

Annual: [1990](#), [1991](#), [1992](#), [1993](#), [1994](#), [1995](#), [1996](#)

Daily: [1990](#), [1991](#), [1992](#), [1993](#), [1994](#), [1995](#), [1996](#)

Data Mart Apps – KML Files

- Usage stats



- <http://www.epa.gov/ttn/airs/aqsdatamart/access/interface.htm>

v1.1

Authenticate

Annual Summary Query Transaction ID

Location and Substance Time and Measures Results

State Name

County Name

City Name

Tribal Name

AQS Site Identifier

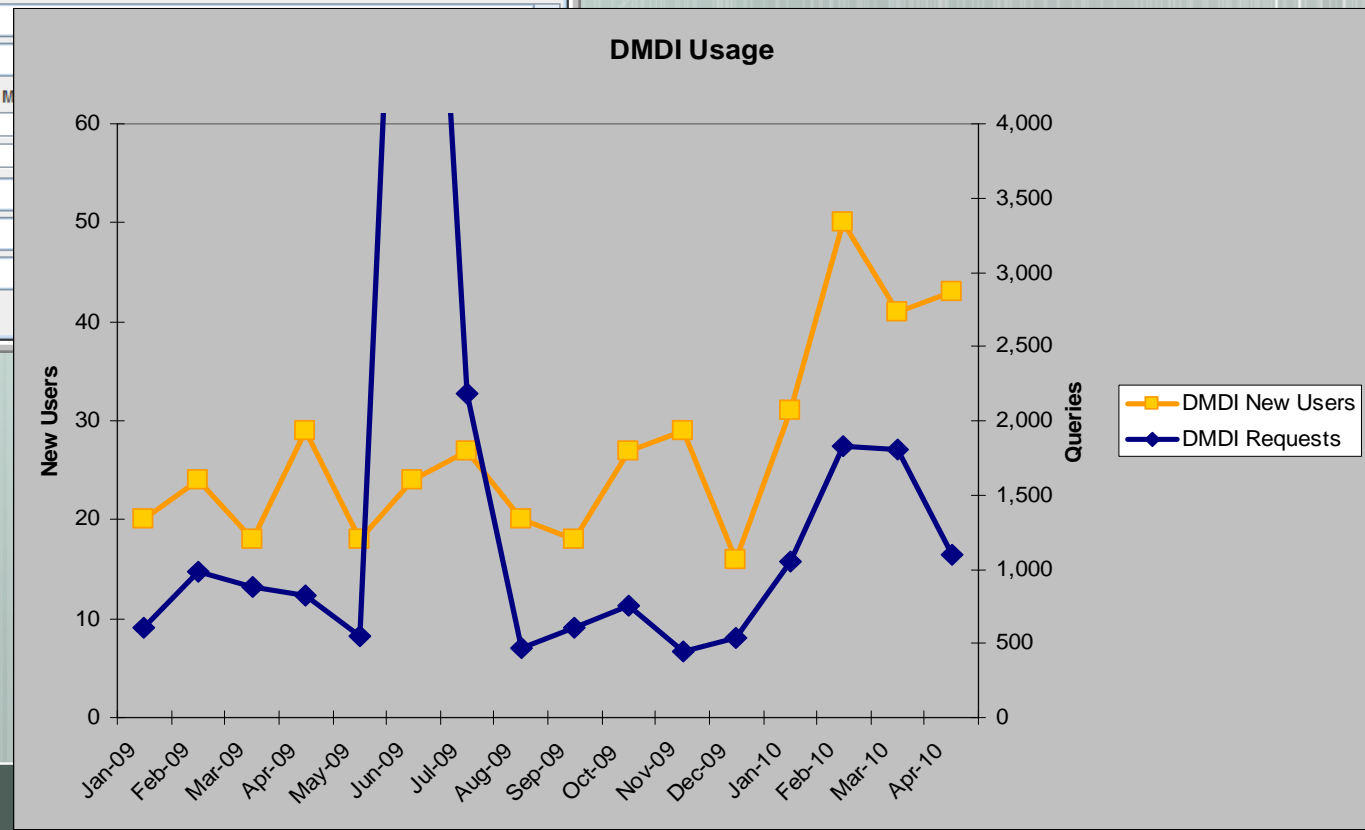
EPA Region Number

Location Latitude Longitude

Substance Type

Substance Name

Monitor Type



- <http://www.epa.gov/ttn/analysis/w126.htm>

AirExplorer Share

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You are here: [EPA Home](#) » [Air & Radiation](#) » [AirExplorer](#) » Query W126 Index Values

Query W126 Index Values

Step 1: Select a County, MSA, or State

County:

MSA:

State:

Step 2: Select a Site
Each site listed below has data for some period of time, but may not have data for the year selected in Step 3.

010010002
010010003
010030010

Step 3: Select End Year of 3-year period

Step 4: Select Summary Level
The W126 summary statistics available here are based on the [proposed Part 50, Appendix P data handling guidelines](#) (pp.3051-3052), EXCEPT no hourly substitutions are made for months with less than 75% data completeness as prescribed in section 4.c.ii. The monthly index values do include adjustments for partially complete data (between 75 and 100% complete) in accordance with section 4.b.



- There has been one issue with data dissemination uncovered recently
 - Continuous, non-FRM PM2.5
- 88501 vs. 88502
 - 88501 = “Raw data”
 - 88502 = “FRM-Like”
- All states are reporting to AirNow
- For 2009, 14 states reporting 88501 to AQS are reporting no 88501
 - 4 more have less than ½ the number of 88502 monitors as 88501
- So, now for requests:
 - All PM2.5
 - 88101, 88502 and 88501
 - PM2.5 FRM:
 - 88101 (hourly and 24-hour)
 - PM2.5 Continuous:
 - 88101, 88501, 88502 w/duration = 1

- **The bottom line: people are using your data!**
- **“In calendar year 2009, the Air Quality System (AQS) and its Data Mart component delivered over 5.8 billion data values via more than 170,000 separate queries.”**