

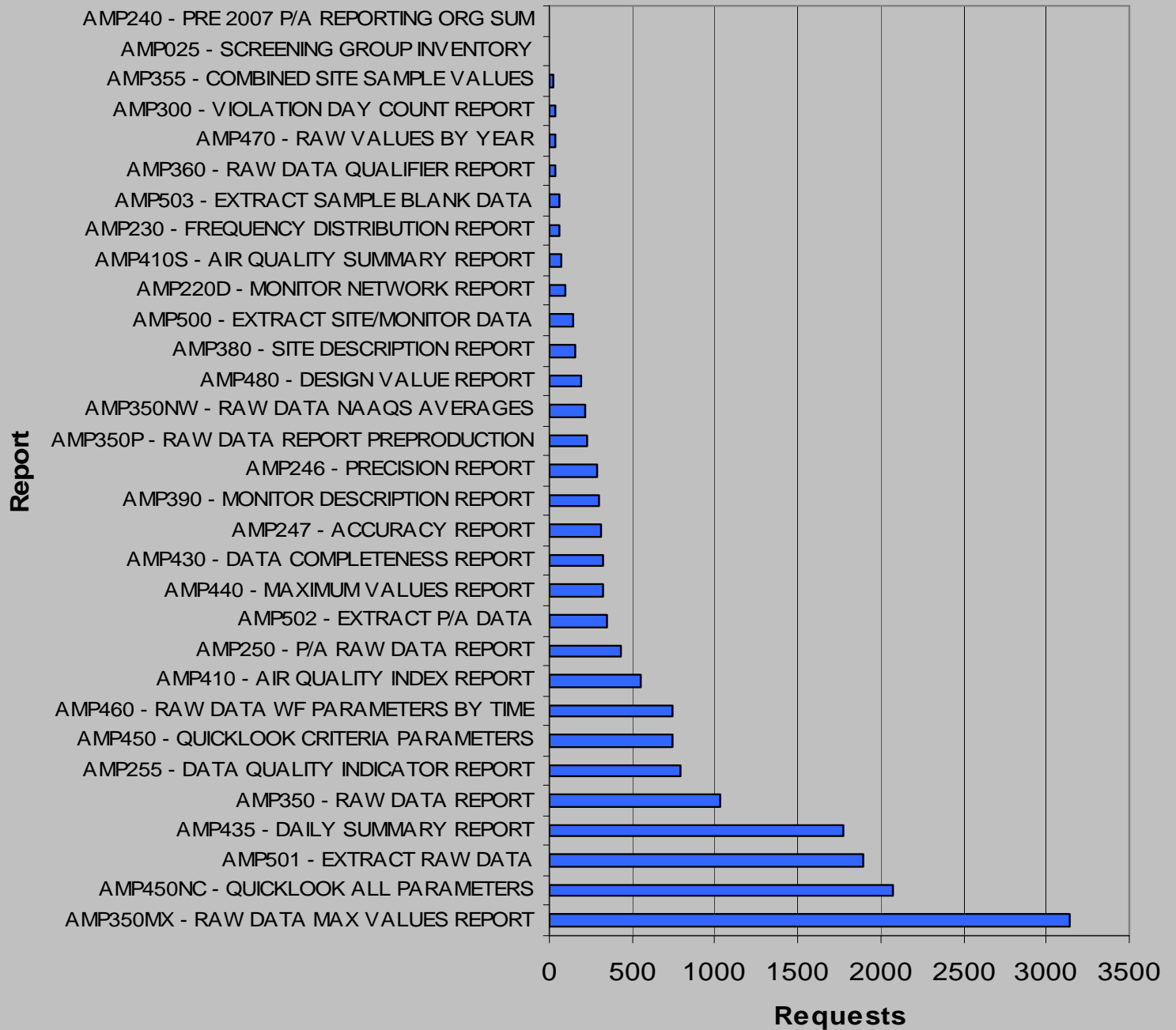
The background features a light blue-to-white gradient with a faint grid pattern. On the left side, there are several vertical bars of varying heights, some filled with a light green color. A jagged line graph is overlaid on these bars. In the lower right, there is a faint, semi-transparent architectural floor plan or site map.

AQS Data Mart

Nick Mangus: 2010 AQS Conference

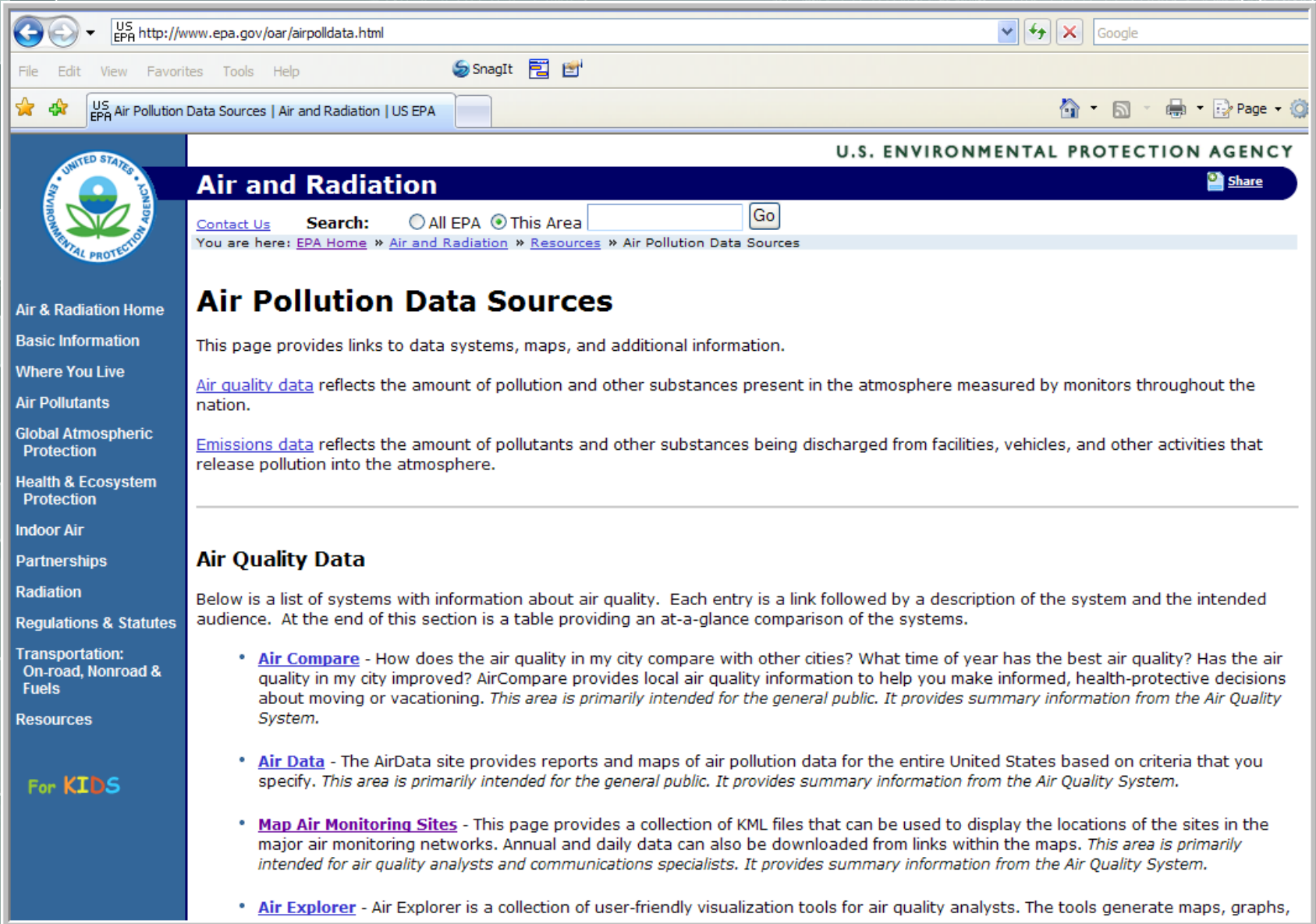
- **Point of this talk: How the data is going “out”**
 - You’ve put it all in, so what’s happening with it?
- **AQS Reports**
 - TTN downloads
- **Data Mart Accesses**
 - **Connected applications**
 - AirExplorer (we heard about this earlier)
 - AirCompare
 - RSIG
 - KML files
 - W126 preview
 - AirData (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



The screenshot shows a web browser window displaying the EPA's Air Pollution Data Sources page. The browser's address bar shows the URL <http://www.epa.gov/oar/airpolldata.html>. The page header includes the EPA logo and the text "U.S. ENVIRONMENTAL PROTECTION AGENCY". The main heading is "Air and Radiation". Below this, there is a search bar with "All EPA" and "This Area" radio buttons, and a "Go" button. A breadcrumb trail reads: "You are here: [EPA Home](#) » [Air and Radiation](#) » [Resources](#) » Air Pollution Data Sources". The main content area features the heading "Air Pollution Data Sources" and a paragraph: "This page provides links to data systems, maps, and additional information." Below this, there are two sections: "Air Quality Data" and "Air Pollution Data Sources". The "Air Quality Data" section contains a list of links with descriptions:

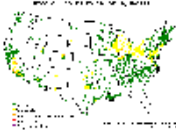
- [Air Compare](#) - How does the air quality in my city compare with other cities? What time of year has the best air quality? Has the air quality in my city improved? AirCompare provides local air quality information to help you make informed, health-protective decisions about moving or vacationing. *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,

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

MAPS

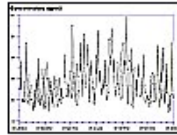


Map One Day
Generate a three-dimensional, interactive map of daily pollutant concentrations

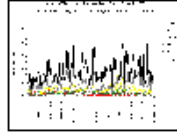


Map Several Days
Generate an animated series of daily concentration maps for a specific time period

GRAPHS



Plot Concentrations
Generate a time series plot for a specific location and time period

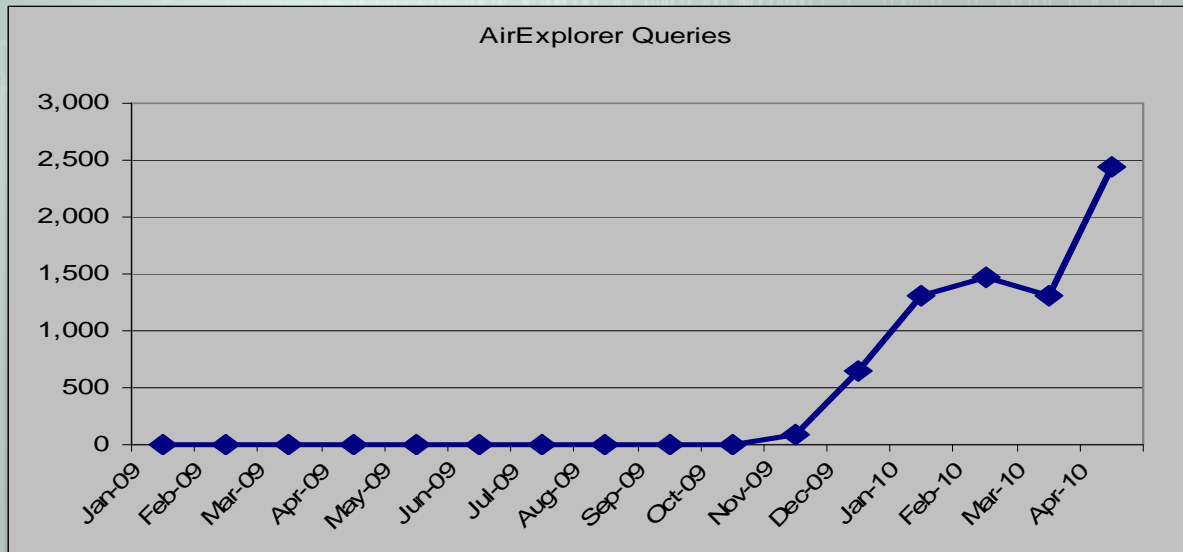


Plot Speciation Data
Plot daily PM2.5 speciation data for a specific location and time period

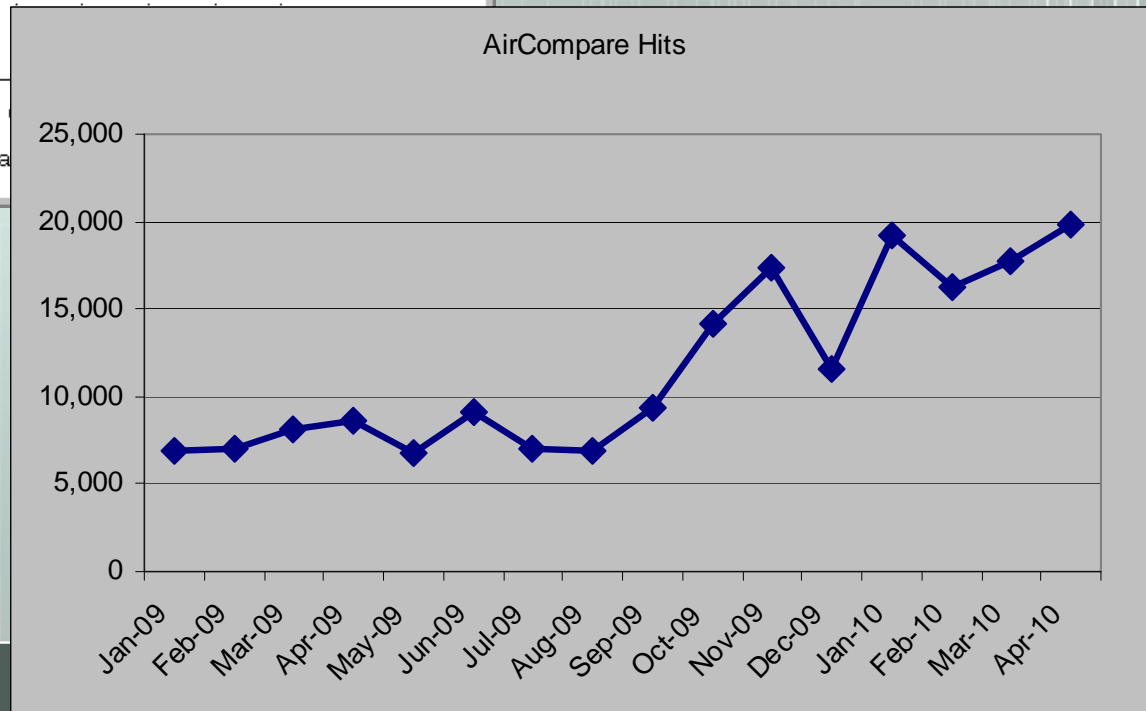
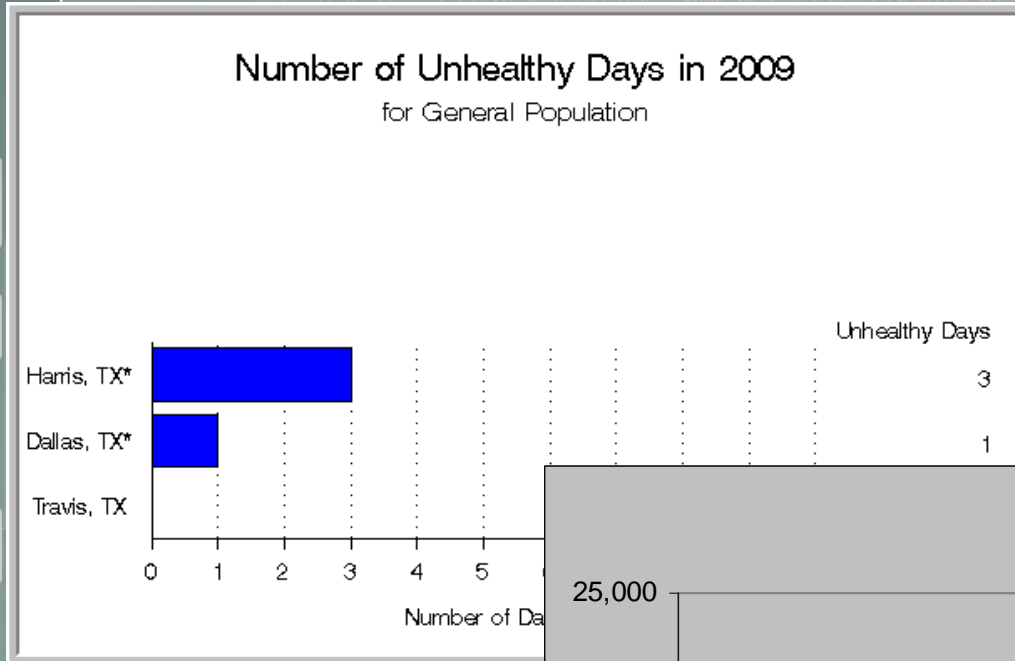
DATA

Query Concentrations
View or download daily concentrations for a specific location and time period

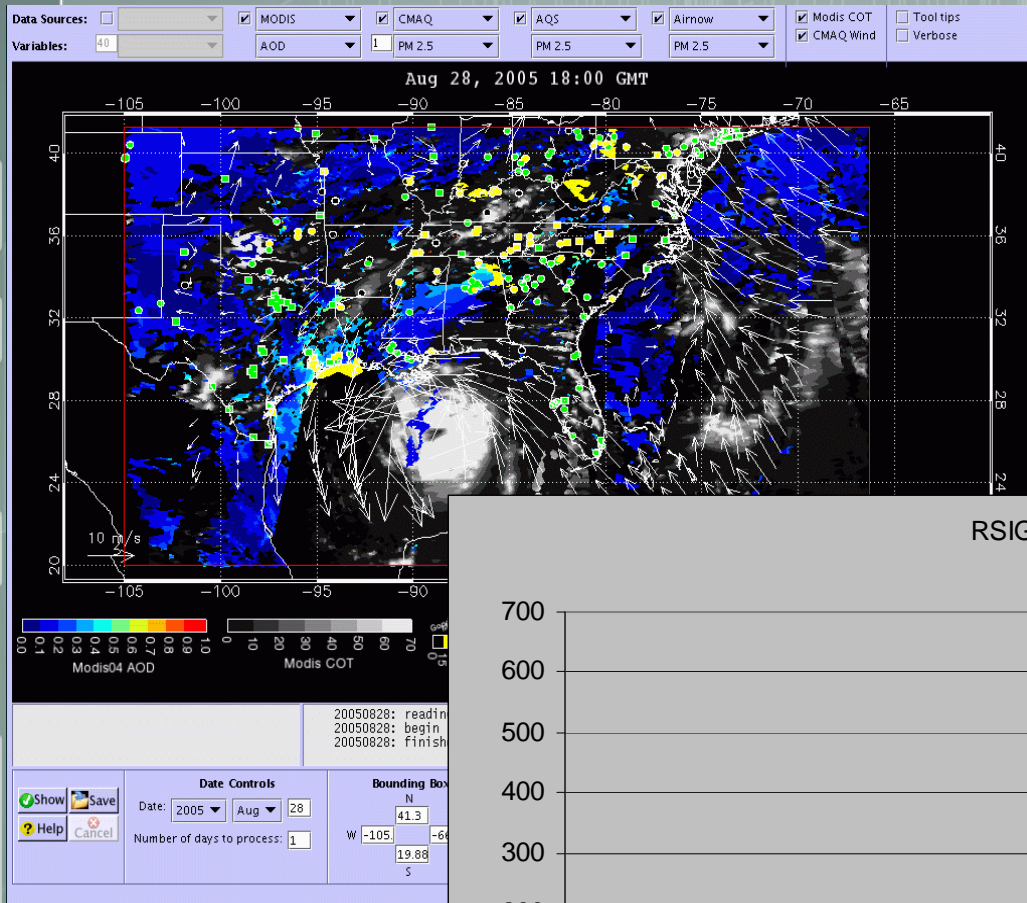
Query Speciation Data
View or download daily PM2.5 speciation data for a specific location and time period



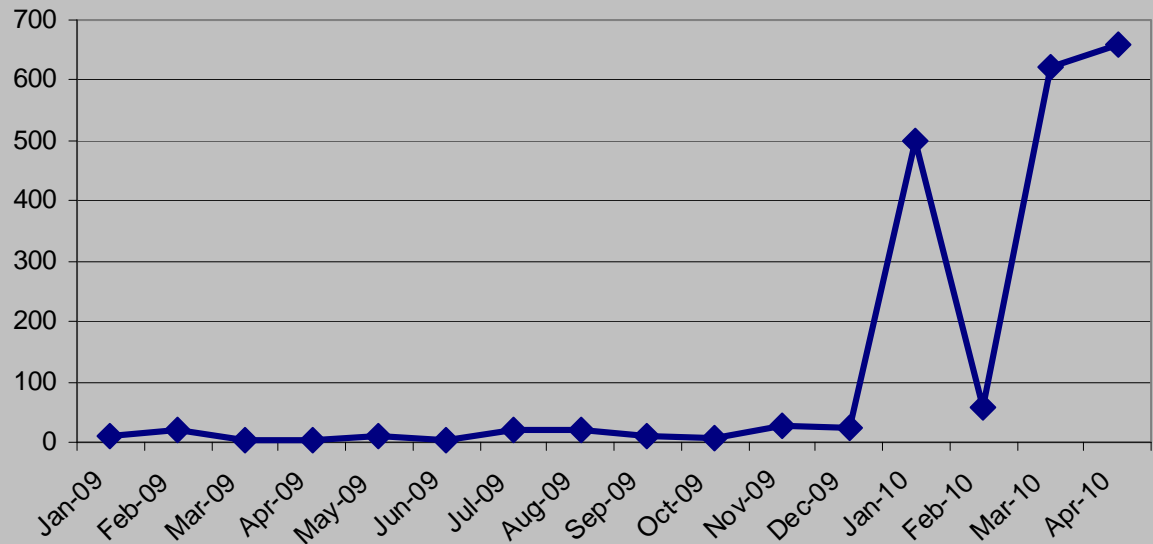
- <http://www.epa.gov/aircompare>



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



RSIG Queries



Data Mart Apps – KML Files

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

The screenshot displays the EPA Air Explorer web application. On the left, there is a search bar with the text "Fly to e.g., 1600 Pennsylvania Ave, 20006" and a "Places" sidebar listing various monitoring categories like PM 2.5, Ozone, and PM 10. Below that is a "Layers" sidebar 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 information panel for site 08-041-6005 is visible, containing the following data:

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

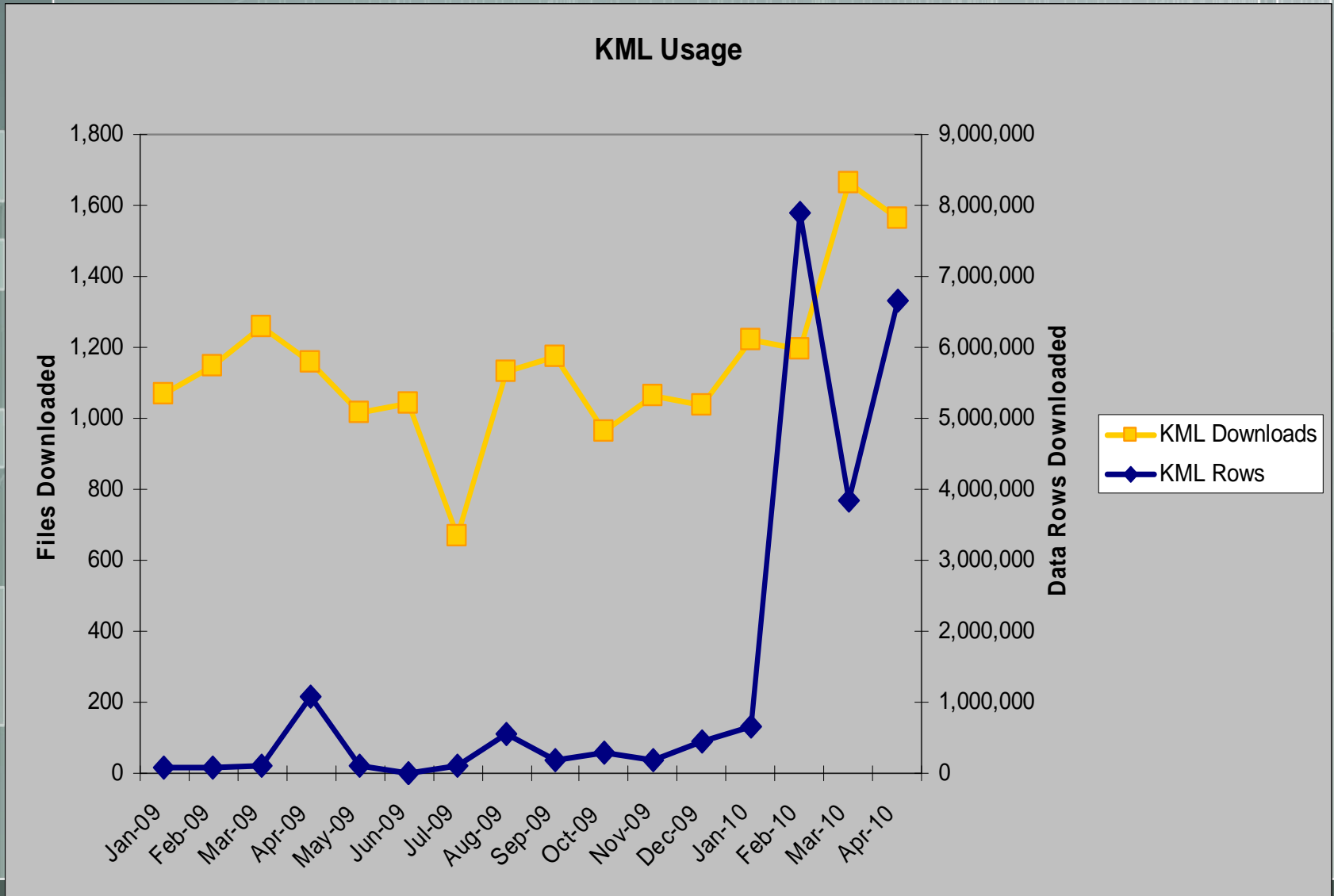
Download Site Data

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>

Authenticate v1.1

Annual Summary Query Transaction ID

Location and Substance | Time and Measures | Results

State Name

County Name

City Name

Tribal Name

AQS Site Identifier

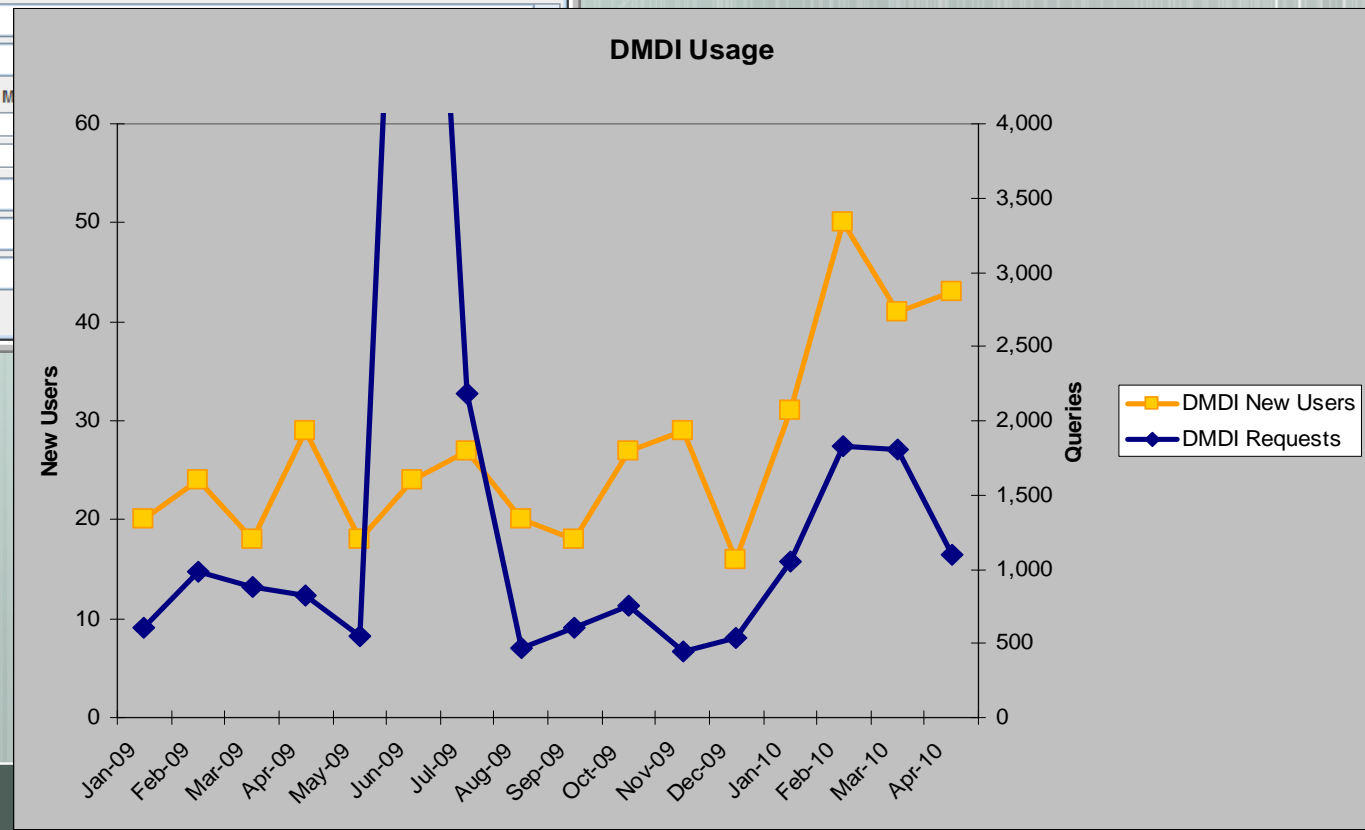
EPA Region Number

Location Latitude Longitude

Substance Type

Substance Name

Monitor Type



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

AirExplorer Share

[Contact Us](#) Search: All EPA This Area

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.

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 88502
 - 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.”**