

# Oracle Discoverer Plus

New Look and Updated Features

2007 AQS Conference

Pittsburgh, PA

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# Breaking News

April 1997

Oracle puts the power of a database in your hands.



Oracle Corporation released an adhoc query and analysis tool called *Discoverer*, for use by business users using the Windows OS. This tool grants end users immediate access to information stored in databases.

Software developers are no longer the exclusive possessors of the power to query relational databases. Mere staffers can now make faster and more informed business recommendations.

Users have secure and immediate access to their data. The underlying complexity of the data structures are hidden so that users can focus on solving business problems.

Why even branch chiefs, division chiefs, yes, even CEO's could use this tool to analyze data and spot trends with greater accuracy!

# Late Breaking News

Oracle delivers an evolved,  
fully internet enabled,  
GUI Discoverer – v10g R2.

Dec. 2004

# Later Breaking News

EPA deploys BI Discoverer v10g R2.

Nov. 2006

# What if . . . you could ask the AQS database for

- A quick list all of your PM 2.5 monitors
- A report of the average, maximum, and minimum by month for the past 3 years
- A graph to share with the world
- A data file in a format readable by spreadsheets and other database programs to share with your environmental colleagues

*03 CO PM2.5 SO2 NOX PB VOC*



What if . . . all you needed to do this was

- a java enabled web browser
- about 50MB personal profile space
- proficiency with MS Windows
- familiarity with AQS
- an EPA userid and password

and \$0.00 additional funds

*03 CO PM2.5 SO2 NOX PB VOC*

## Oracle Business Intelligence Discoverer Plus

Oracle Business Intelligence 10g

ORACLE®

*The new Discoverer Plus  
can do all of this for you.*

- Improved Connectivity and New Worksheet Wizard
- Improved Interactivity
- Intuitive UI to Add Calculations to Worksheets
- Improved Sorting and Formatting Features
- Improved Graph Features
- Improved Print Functionality
- New Export Formats
- and more

~~03 CO PM2.5 SO2 NOX PB VOC~~

# Improved Connectivity

Connect to Discoverer - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Address <https://iasint.rtpnc.epa.gov/discoverer/plus> Go Links

ORACLE Discoverer Plus Business Intelligence [Help](#)

[Connect Directly](#)

### Connect to OracleBI Discoverer

To connect to OracleBI Discoverer, click on a connection name or enter your connection details directly.

[Choose Connection](#)

Create Connection

Details	Connection	Description	Update	Delete
<a href="#">Show</a>	agsprod			
<a href="#">Show</a>	EIMS_PUBLIC	EIMS Public Connection		

[Connect Directly](#) [Return to Top](#)

Enter your connection details below to connect directly to OracleBI Discoverer.

\* Indicates required field.

Connect To

\* User Name

\* Password

\* Database

End User Layer

Locale

[Help](#)

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[About OracleBI Discoverer Plus Version 10.1.2.48.18](#)  
[Oracle Technology Network](#)

Trusted sites

03 CO PM2.5 SO2 NOX PB VOC

# New Workbook Wizard

Workbook Wizard **Step 1 of 5: Create/Open Workbook**

Connected to the Database: AQSPROD (EUL:EUL\_OWNER)

What do you want to do?

☐ Open an existing workbook

Recently Used:

- 2007 user manual worksheet 1
- AAA Terminated Sites in NC
- Active NSP Criteria Mons in Region 9-by type pe...
- Qrtly Completeness

☐ **Create a new workbook**

Select the objects to display in the worksheet

☒ Title

☒ Page Items

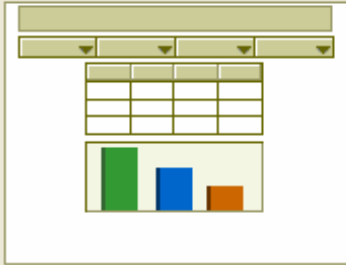
☐ Crosstab ☒ Table

☒ Graph

Placement: Graph below Table

☐ Text Area

Example:



Buttons: Help, Properties..., Show SQL..., < Back, **Next >**, Finish, Cancel

Only 5 steps!

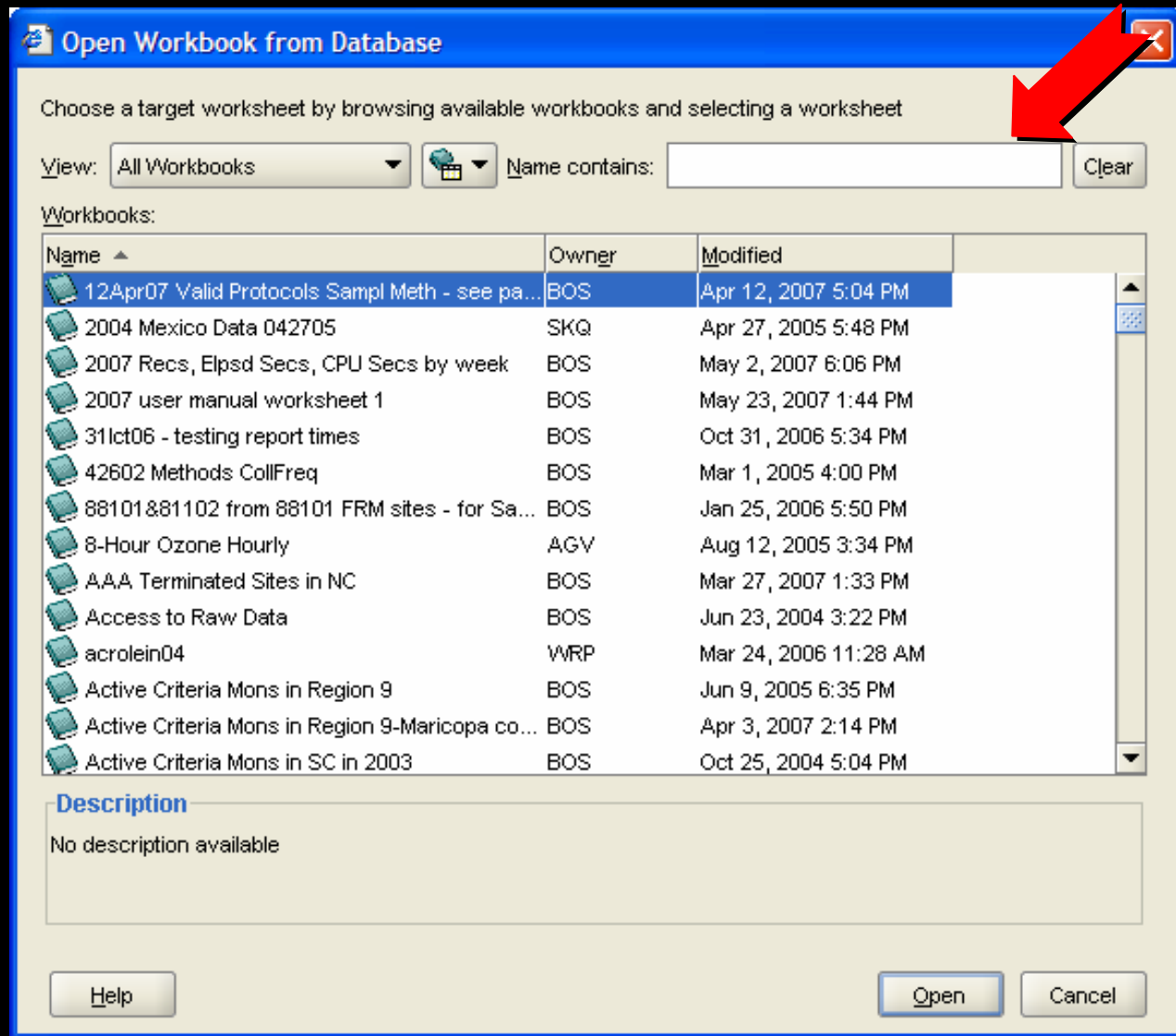
03 CO PM2.5 SO2 NOX PB VOC

# Open Workbook

Filter  
name

Browse  
existing  
workbooks

Sort by  
Name,  
Owner, or  
Date  
Modified



O3 CO PM2.5 SO2 NOX PB VOC

# New Look – Everything visible on one screen

2007 Conference - New Features Demo1 - OracleBI Discoverer - Microsoft Internet Explorer

File Edit View Format Tools Help

Available Items: **1** Items available in business area.

Also Conditions and Calculations

Count of Monitors by County  
for State Code = '37', Last Sampling Date >= '01-JAN-2007'  
03-JUN-07 01:26:21 PM **3** Worksheet Title

Items Conditions Calculations **4** Page Items

List: AQS basic

County Name Count of Monitors

**5** Table Area

**6** Graph Area

**2** Items selected from business area

States  
State Abbr  
Sites V  
County Name  
My Conditions  
State Code = '37'  
Last Sampling Date >= '01-JAN-2007'  
My Calculations  
Count of Monitors

Double-click here to edit the text area **7** Text Area

Sheet 1 NC monitors by pollutant and county NC monitors count by county

County Name	Count of Monitors
1 Alamance	3
2 Alexander	1
3 Avery	2
4 Beaufort	1
5 Buncombe	9
6 Caswell	5
7 Catawba	4
8 Chatham	22
9 Cumberland	72
10 Davidson	1
11 Davie	3
12 Duplin	5
13 Durham	5
14 Edgecombe	67
15 Forsyth	1
16 Franklin	8
17 Gaston	2
18 Graham	1
19 Granville	15
20 Guilford	3
21 Haywood	1
22 Henderson	11
23 Jackson	83
24 Lenoir	1
25 Lincoln	15
26 McDowell	11
27 Mecklenburg	107
28 Mitchell	3
29 Montgomery	3
30 New Hanover	7

Count of Monitors

# Improved Interactivity: Layout

*Add items to worksheet*

The image displays two overlapping windows of a software application, likely a data management or analysis tool. The left window shows a sidebar with a tree view of available items. A red callout box labeled "Right Click" points to the "County Name" item, which has a blue "Add to Worksheet" button next to it. The right window shows a worksheet with a table of data. A red callout box labeled "Click and Drag" points to the "County Code" item in the tree view, which is being dragged into the worksheet. The worksheet table has columns for State Code, State Abbr, Site ID, City Name, and Street Address. The data rows show various sites with their corresponding information.

**Available Items:**

- Sampling Methodologies
- Screening Groups
- Sites V
  - Tribal Code
  - State
  - County Name
  - Site ID
  - Status Indicator
  - StateCountySite
  - TribeSite

**Selected Items:**

- State Abbr
- State Code
- Site ID
- City Name
- Street Address

**Worksheet Data:**

	State Code	State Abbr	Site ID	City Name	Street
1	01	AL	0004	Not in a city	9494 EXP
2	01	AL	0003	Not in a city	1801 BRU
3	01	AL	0037	Not in a city	TVA WIDC
4	01	AL	9000	Not in a city	Sipsy Wild
5	01	AL	2003	Not in a city	SPUR OIL
6	01	AL	1009	Not in a city	HAMILTON
7	01	AL	0012	Not in a city	WATER W
8	01	AL	0001	Not in a city	MOULTON
9	01	AL	0035	Not in a city	2.65 MI NI
10	01	AL	0027	Not in a city	5.4 MI NN
11	01	AL	0044	Not in a city	TVA COLE
12	01	AL	0010	Not in a city	0.6 MI EN
13	01	AL	0002	Not in a city	0.7 MI WN
14	01	AL	0002	Not in a city	437 COU
15	01	AL	1001	Not in a city	CORPS O
16	01	AL	0002	Not in a city	SUMTER
17	01	AL	0001	Not in a city	WYLS US
18	01	AL	0006	Not in a city	PELHAM I
19	01	AL	3001	Not in a city	CITY HAL
20	01	AL	2002	Not in a city	RADAR S
21	01	AL	1016	Not in a city	COLONIA
22	01	AL	1015	Not in a city	BALTIMOF
23	01	AL	1014	Not in a city	COMMUN



# Improved Interactivity: Pivoting

File Edit View Format Tools Help

Undo Edit Sheet Ctrl-Z

Copy Ctrl-C

Delete

Select All Ctrl-A

Remove from Worksheet Delete

Worksheet...

Worksheet Layout...

Table...

Graph...

Title...

Text Area...

Add Worksheet...

Delete Worksheet...

Move Worksheet...

Rename Worksheet...

Duplicate Worksheet

Worksheet Properties...

Find... Ctrl-F

Find Next F3

Find Previous Shift-F3

City Name

Street Address

Select the objects in the worksheet

Worksheet Wizard - Step 1 of 5: Worksheet Layout

Worksheet Layout Select Items Table Layout Sort Parameters

Select the objects to display in the worksheet

☒ Title

☐ Page Items

☒ Table

☒ Graph

Placement: Graph below Table

☐ Text Area

Example:

State Abbr	County Name	Site ID	City Name	Street Address	
1	AL	Clarke	0001	Not in a city	CLARKE STREET (GROVE HILL)
2	AL	Clarke	0002	Not in a city	GROVE HILL MEMORIAL HOSPITAL HWY 4

**Make State Abbr a page item**

# Improved Interactivity: Pivoting

The screenshot shows a software interface with a menu bar (File, Edit, View, Format, Tools, Help) and a toolbar. On the left, there are panels for 'Available Items' and 'Selected Items'. The 'Available Items' panel shows a tree structure with 'County Name' selected. The 'Selected Items' panel shows 'State Abbr', 'Site ID', 'City Name', and 'Street Address'. The main area displays a pivot table with columns: State Abbr, County Name, Site ID, City Name, and Street Address. A right-click context menu is open over the 'State Abbr' column header, showing options like 'Copy', 'Remove from Worksheet', 'Move To', 'Format Data...', 'Format Heading...', 'Edit Heading...', 'Format Table...', 'Conditional Formats...', 'Column Width...', 'Column Auto Size', 'Group Sort', 'Sort Low To High', 'Sort High To Low', 'Drill...', and 'Manage Links...'. The 'Move To' option is highlighted, and a sub-menu is open showing 'Column Header' and 'Page Items'. The 'Page Items' option is highlighted in the sub-menu.

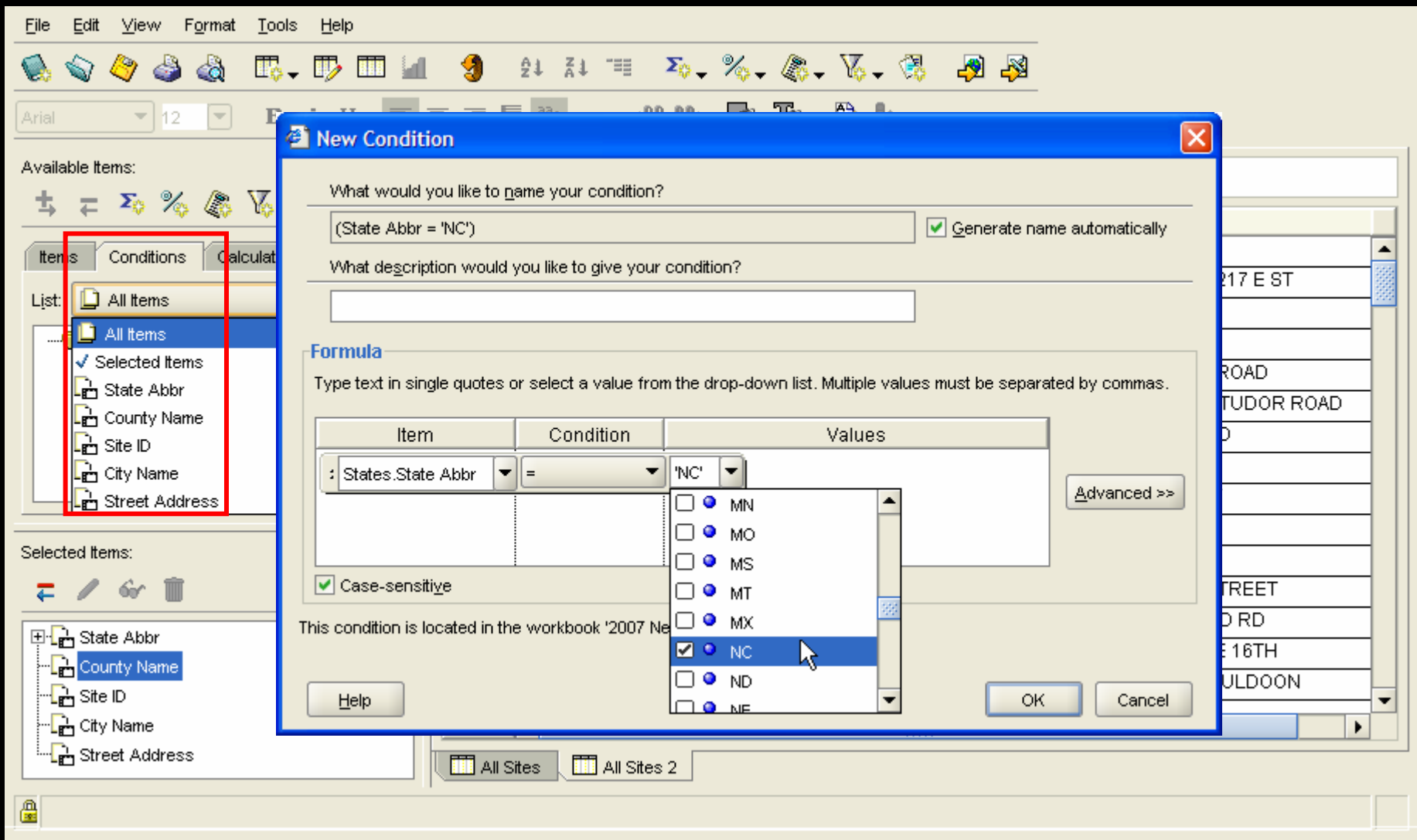
Right Click

	State Abbr	County Name	Site ID	City Name	Street Address
1	AL			Not in a city	CLARKE STREET (GROVE HILL)
2	AL			Not in a city	GROVE HILL MEMORIAL HOSPITAL HWY 4
3	AL				DLER RESIDENCE FT MORGAN STA
4	AL				CHICAGO (ROBER
5	AL				T, ROBERTSDA
6	AL			Not in a city	CORPS OF ENGINEERS BLDG HOLT LOC
7	AL			Not in a city	MILDRED ST CO HEALTH DEPT
8	AL			Not in a city	152ND ARMORY BLDG, 8TH AVE AT 13TH
9	AL			Not in a city	PELHAM HIGH SCHOOL
10	AL			Not in a city	RT 1 BOX 93-B FINLEY ISLAND ROAD
11	AL			Not in a city	WOODALL ROAD
12	AL			Not in a city	AXIS DEAD LK RD MIM'S RESIDENCE
13	AL			Not in a city	INTERSTATE SURVEILLANCE PROJECT M
14	AL			Not in a city	WKRG RADIO STA OLD TELEGRAPH RD (
15	AL			Not in a city	THEODORE GAS CO HWY 90
16	AL			Not in a city	SALCO-CAIN'S SERVICE STATION
17	AL			Not in a city	THEODORE INDUSTRIAL PARK BIG SNIFF
18	AL	Mobile	0027	Not in a city	PHILLIP'S RESIDENCE, LAURENDINE RO

All Sites All Sites 2

Another way to make State Abbr a page item

# Intuitive UI: Conditions



Create new Condition

# Intuitive UI: Calculations

File Edit View Format Tools Help

Available Items:

Items Conditions **Calculations**

List: All Items

- My Calculations
- My Percentages
- My Totals

Selected Items:

- State Abbr
- County Name
- Site ID
- City Name
- Street Address
- State Abbr = 'NC'

Page Items: State Abbr: NC

	County Name	Site ID	City Name	Street Address
1	Hertford	0001	Ahoskie	PEMBROKE ST
2	Hertford	0002	Ahoskie	NO. CATHERINE ST.
3	Wake	0019	Apex	2420 RELIANCE AVENUE APEX NC 27502
4	Buncombe	0001	Asheville	GROVE ARCADE BLDG BATTERY PARK AVENUE
5	Buncombe	0002	Asheville	FIRE DEPT ROOF HAYWOOD ROAD
6	Buncombe	0003	Asheville	HEALTH & SOCIAL SERVICES BLDG WOODFIN ST
7	Buncombe	0004	Asheville	LONDON ROAD
8	Buncombe	0005	Asheville	FIRE DEPT-ROOF MERRIMON AVE
9	Buncombe	0030	Asheville	ROUT 191 SOUTH BREVARD RD
10	Buncombe	0032	Asheville	LONDON RD ASHVILLE NC 28803
11	Buncombe	0034	Asheville	175 BINGHAM ROAD ASHEVILLE NC
12	Buncombe	0035	Asheville	AB TECH COLLEGE
13	Watauga	0001	Boone	APPALACHIAN STATE UNIV SCIENCE BLDG
14	Watauga	0003	Boone	361 JEFFERSON ROAD, BOONE
15	Alamance	0001	Burlington	1136 E.WEBB AVE.BURLINGTON,N.C.
16	Alamance	0002	Burlington	827 S GRAHAM & HOBEDALE RD

All Sites All Sites 2 All Sites 3

Create new Calculation

# Intuitive UI: Calculations

**New Calculation**

What do you want to name this calculation?

Calculation1

Select items and functions from the list on the left and paste them into the calculation.

Show: Selected Items

- Arithmetic Mean (Annual)
- Monitor ID
- Parameter Code
- Summary Year (Annual)

Paste

Calculation:

Description: No description available

Insert Formula from Template

Help OK Cancel

Available Items:

- My Calculations
- My Percentages
- My Totals

List: All Items

Selected Items:

- Monitor ID
- Summary Year (Annual)
- Arithmetic Mean (Annual)
- Parameter Code
- "Summary Year (Annual)" = 2006
- Parameter Code = '44201' AND Duration Code = '1'
- State Abbr = 'NC'

Year (Annual): 2006

(Annual)

.05610

Rank

- f(x) Percent Rank
- f(x) Difference
- f(x) Percent Difference
- f(x) Preceding Value
- f(x) Following Value
- f(x) Running Total
- f(x) Percent Running Contribution
- f(x) Moving Total
- f(x) Group Total
- f(x) Percent Contribution
- f(x) Band by Value
- f(x) Band by Rank

17 37-075-0001-44201-1

37-075-0001-44201-1

.05750

.05520

.05840

.05970

All Sites All Sites 2 All Sites 3 Sheet 4

# Intuitive UI: Calculations

The screenshot shows a software application with a menu bar (File, Edit, View, Format, Tools, Help) and a toolbar. On the left, there are panels for 'Available Items' and 'Selected Items'. The 'Available Items' panel has a search bar with 'Arial' and '12', and a list of items: 'My Calculations', 'My Percentages', and 'My Totals'. The 'Selected Items' panel shows a tree view of items: 'Monitor ID', 'Summary Year (A)', 'Arithmetic Mean (A)', 'Parameter Code', 'Summary Year (A)', 'Parameter Code =', and 'State Abbr = 'NC''. A 'Rank' dialog box is open in the center, with a blue title bar and a red close button. The dialog box contains the following text: 'Rank', 'Ranks values within groups based on the first item and breaks ties using the second item.', and a tip: 'TIP Use this template to find your top / bottom N customers, products, etc.'. Below this, there are two dropdown menus: 'Rank based on:' with 'Arithmetic Mean (Annual)' selected, and 'Then rank based on:' with '< NONE >' selected. To the right of these dropdowns are two buttons: 'Lowest Value Ranked 1' and 'Highest Value Ranked First'. Below these is a section 'Restart ranking at each change in:' with a list of items: 'Parameter Code', 'Summary Year (Annual)', 'Monitor ID', and 'Arithmetic Mean (Annual)'. Each item has a checkbox. Below this is a 'Rank Ties:' section with two radio buttons: 'Normal (example: 1,1,3,4,4,6)' and 'Dense (example: 1,1,2,3,3,4)'. At the bottom is a 'Calculation:' section with a text area containing the SQL query: 'RANK() OVER (PARTITION BY Parameter Code, Summary Year (Annual) ORDER BY Arithmetic Mean (Annual) ASC)'. At the bottom right of the dialog box are 'OK' and 'Cancel' buttons. In the background, a data table is visible with a dropdown menu set to '2006'. The table has columns for 'Summary Year (Annual)' and 'Arithmetic Mean (Annual)'. The data rows are: 610, 070, 270, 460, 560, 330, 520, 520, 940, 540, 520, 540, 630, 530, 750, 520, 840, 970.

File Edit View Format Tools Help

Rank

Ranks values within groups based on the first item and breaks ties using the second item.

☒ TIP Use this template to find your top / bottom N customers, products, etc.

Rank based on: Arithmetic Mean (Annual) Lowest Value Ranked 1

Then rank based on: < NONE > Highest Value Ranked First

Restart ranking at each change in:

- ☒ Parameter Code
- ☒ Summary Year (Annual)
- ☐ Monitor ID
- ☐ Arithmetic Mean (Annual)

Rank Ties:

- ☒ Normal (example: 1,1,3,4,4,6)
- ☐ Dense (example: 1,1,2,3,3,4)

Calculation:

RANK() OVER (PARTITION BY Parameter Code, Summary Year (Annual) ORDER BY Arithmetic Mean (Annual) ASC)

Help OK Cancel

Summary Year (Annual): 2006

Summary Year (Annual)	Arithmetic Mean (Annual)
610	
070	
270	
460	
560	
330	
520	
520	
940	
540	
520	
540	
630	
530	
750	
520	
840	
970	

# Improved Sorting and Formatting

The screenshot displays a software application with a menu bar (File, Edit, View, Format, Tools, Help) and a toolbar. On the left, there is a sidebar with 'Available Items' and 'Selected Items' sections. The main area shows a table with columns: State, County Name, Site ID, City Name, and Street Address. A right-click context menu is open over the 'County Name' column, with a red callout bubble labeled 'Right Click' pointing to the menu. The menu options are: Copy, Remove from Worksheet, Move To, Format Data..., Format Heading..., Edit Heading..., Format Table..., Conditional Formats..., Column Width..., ☒ Column Auto Size, **Group Sort** (highlighted by the mouse), Sort Low To High, Sort High To Low, Drill..., and Manage Links... The table data includes rows for Wrangell Petersburg, Fairbanks North Star, and Anchorage.

File Edit View Format Tools Help

Available Items:

Items Conditions Calculations

List: AQS basic

Accuracy Summary Protocols V

AGENCIES

Annual Summaries V

Cities

Comments V

Counties

Daily Summaries V

Epa Regions

Exceptional Data Types

Monitor Accuracy Summaries V

Monitor Agency Roles V

Selected Items:

Page Items: State

Right Click

Copy

Remove from Worksheet

Move To

Format Data...

Format Heading...

Edit Heading...

Format Table...

Conditional Formats...

Column Width...

☒ Column Auto Size

**Group Sort**

Sort Low To High

Sort High To Low

Drill...

Manage Links...

	State	County Name	Site ID	City Name	Street Address
38		Wrangell Petersburg			D AVIATION AGENCY REMOTE RECEIVER SITE
39		Wrangell Petersburg			LLIAM KREPPS RESIDENCE
40		Northwest Arctic			mbler
41		Fairbanks North Star			IRBANKS INTL AIRPORT (FAIRBANKS)
42		Fairbanks North Star			IV PARK SCHOOL UNIV AVE (FAIRBANKS)
43		Fairbanks North Star			OKER FLAT RESEARCH RANGE NE OF FAIRBANKS
44		Fairbanks North Star			DOF OF AERS BLDG. COLLEGE, ALASKA 99701
45		Fairbanks North Star			ORTHPOLE HIGH SCHOOL OFF SIXTH AVENUE
46		Fairbanks North Star			O & A A SITE 11/4 MI GRENAC ROAD
47		Fairbanks North Star			ORTH POLE ELEMENTARY SCHOOL (NORTHPOLE)
48		Fairbanks North Star			ORTH POLE WATER TREATMENT PLANT
49		Anchorage			001 BARONOF ST, EAGLE RIVER
50		Anchorage			900 EAGLE RIVER RD, EAGLE RIVER
51		Anchorage			216 BARONOF ST, EAGLE RIVER
52		Anchorage			ARIBOU/18001 BARANOF ST, EAGLE RIVER
53		Anchorage			PRK GATE EAGLE RIVER EAGLE RIVER

All Sites All Sites 2



# Improved Sorting and Formatting

The screenshot shows a software interface with a menu bar (File, Edit, View, Format, Tools, Help) and a toolbar. A red circle highlights the 'Group Sort' button in the toolbar. Below the toolbar is a 'Page Items' section with a dropdown menu set to 'State Abbr: AK'. The main area displays a table with the following data:

	County Name	Site ID	City Name	Street Address
38	Wrangell Petersburg	0001	Not in a city	FED AVIATION AGENCY REMOTE RECEIVER SITE
39	Wrangell Petersburg	0002	Not in a city	WILLIAM KREPPS RESIDENCE
40	Northwest Arctic	9000	Not in a city	Ambler
41	Fairbanks North Star	0007	Not in a city	FAIRBANKS INTL AIRPORT (FAIRBANKS)
42	Fairbanks North Star	0008	Not in a city	UNIV PARK SCHOOL UNIV AVE (FAIRBANKS)
43	Fairbanks North Star	0030	Not in a city	POKER FLAT RESEARCH RANGE NE OF FAIRBANKS
44	Fairbanks North Star	0099	Not in a city	ROOF OF AERS BLDG. COLLEGE, ALASKA 99701
45	Fairbanks North Star	1009	Not in a city	NORTHPOLE HIGH SCHOOL OFF SIXTH AVENUE
46	Fairbanks North Star	0004	Not in a city	N O & A A SITE 11/4 MI GRENAC ROAD
47	Fairbanks North Star	0005	Not in a city	NORTH POLE ELEMENTARY SCHOOL (NORTHPOLE)
48	Fairbanks North Star	1001	Not in a city	NORTH POLE WATER TREATMENT PLANT
49	Anchorage	0033	Not in a city	18001 BARONOF ST, EAGLE RIVER
50	Anchorage	0038	Not in a city	10900 EAGLE RIVER RD, EAGLE RIVER
51	Anchorage	0039	Not in a city	18216 BARONOF ST, EAGLE RIVER
52	Anchorage	0040	Not in a city	CARIBOU/18001 BARANOF ST, EAGLE RIVER
53	Anchorage	1004	Not in a city	PARKGATE-EAGLE RIVER, EAGLE RIVER

The interface also includes a left sidebar with 'Available Items' and 'Selected Items' sections, and a bottom status bar with 'Group Sort' and 'All Sites' buttons.

One Button Group Sort

# Improved Sorting and Formatting

The screenshot displays a software interface with a menu bar (File, Edit, View, Format, Tools, Help) and a toolbar. The main workspace shows a table with columns: County Name, Site ID, City Name, and Street Address. A context menu is open over the table, listing options such as Copy, Remove from Worksheet, Move To, Format Data..., Format Heading..., Edit Heading..., Format Table..., Conditional Formats..., Column Width..., Column Auto Size, Group Sort, Sort Low To High, Sort High To Low, Drill..., and Manage Links... The 'Format Data...' option is highlighted. A 'Format Data' dialog box is open, showing the 'Breaks' tab. The dialog has three tabs: Format, Text, and Breaks. Under the 'Breaks' tab, there are options for 'When item is group sorted, at each change in value:'. The 'Insert' checkbox is checked, and the 'Line' option is selected with a value of 3. The 'Blank Row' checkbox is also checked, and the 'Page Break' checkbox is unchecked. Two red arrows point to the 'Line' and 'Blank Row' options. The 'Format Data' dialog box has 'Help', 'OK', and 'Cancel' buttons at the bottom.

Available Items:

Items: Conditions Calculations

List: AQS basic

Selected Items:

State Abbr  
County Name  
Site ID  
City Name  
Street Address

Page Items: State Abbr: AK

County Name Site ID City Name Street Address

38 ANCHORAGE TIMES BLDG-820 W. 4TH STREET

39

40

41

42 Fairbanks M

43

44

45

46

47

48

49

50

51

52

All Sites All Sites 2

Format Data

Format Text Breaks

When item is group sorted, at each change in value:

Insert: ☒ Line 3

☒ Blank Row 1

☐ Page Break

Help OK Cancel

Formatting Data

# Improved Sorting and Formatting

File Edit View Format Tools Help

Available Items:

Items Conditions Calculations

List: AQS basic

Accuracy Summary Protocols V

AGENCIES

Annual Summaries V

Cities

Comments V

Selected Items:

State Abbr

County Name

Site ID

City Name

Street Address

Page Items: State Abbr: AK

	County Name	Site ID	City Name	Street Address
37		0048	Anchorage	3201 TURNAGAIN STREET
38		0049	Anchorage	8851 JEWEL LAKE ROAD
39		0050	Anchorage	11700 GREGORY RD
40		1003	Not in a city	FIRE STATION BOX 241 (EAGLE RIVER)
41		1004	Not in a city	PARKGATE-EAGLE RIVER, EAGLE RIVER
42	Fairbanks North Star	0001	Fairbanks	WOOLWORTH'S STORE 3RD & CUSHMAN
43		0002	Fairbanks	FEDERAL BLDG/2ND & CUSHMAN
44		0004	Not in a city	N O & A A SITE 11/4 MI GRENAC ROAD
45		0005	Not in a city	NORTH POLE ELEMENTARY SCHOOL (NORTHPOLE)
46		0006	Fairbanks	HUNTER SCHOOL 16TH 17TH & GILLAM WAY
47		0007	Not in a city	FAIRBANKS INTL AIRPORT (FAIRBANKS)
48		0008	Not in a city	UNIV PARK SCHOOL UNIV AVE (FAIRBANKS)
49		0009	Fairbanks	JOY SCHOOL LEMETA STREET
50		0010	Fairbanks	STATE OFFICE BUILDING/675 7TH AVE

All Sites All Sites 2

Formatting Data with line break

# Improved Sorting and Formatting - Conditional & Stoplight

The screenshot shows a software application with a menu bar (File, Edit, View, Format, Tools, Help) and a toolbar. The 'Format' menu is open, showing options like Heading..., Data..., Columns, Item Formats..., and Conditional Formats... The 'Conditional Formats...' option is selected. The 'Conditional Formats' dialog box is open, displaying a list of items to format. The 'List formats for:' dropdown is set to 'All Items'. The 'New Stoplight Format...' button is highlighted with a red box. The background shows a data table with columns for Monitor ID, NAAQS Date/Time, and Arithmetic Mean (NAAQS).

Page Items: Parameter Code: 44201 State Code: 37 County Name: Mecklenburg

Monitor ID NAAQS Date/Time Arithmetic Mean (NAAQS)

Monitor ID	NAAQS Date/Time	Arithmetic Mean (NAAQS)
		.08000
		.09300
		.08600
		.08000
		.08100
		.09100
		.09500
		.08600
		.09900
		.09900
		.10400
		.10700
		.10200
		.11000
		.11000
		.10200
		.10600
		.09700
		.10200
		.08800
		.10600

Mecklenburg Co NC 8-hr Ozone

# Improved Sorting and Formatting - Conditional & Stoplight

The screenshot displays a software application window with a menu bar (File, Edit, View, Format, Tools, Help) and a toolbar. The main window shows a data table with columns: Monitor ID, NAAQS Date/Time, and Arithmetic Mean (NAAQS). A dialog box titled "Edit Stoplight Format" is open, allowing users to configure stoplight formatting for the "Arithmetic Mean (NAAQS)" column.

**Available Items:**

- Parameter Code = '44201' AND
- State Code IN ('37')
- "NAAQS Date/Time" BETWEEN
- "Arithmetic Mean (NAAQS)"
- County Code = '119'

**Selected Items:**

- NAAQS Averages v
- Monitor ID
- NAAQS Date/Time
- Arithmetic Mean (NAAQS)
- Sites v
- County Name
- My Conditions
- Parameter Code = '44201' AND
- State Code IN ('37')
- "NAAQS Date/Time" BETWEEN

**Page Items:** Parameter Code: 44201, State Code: 37, County Name: Mecklenburg

**Table Data:**

Monitor ID	NAAQS Date/Time	Arithmetic Mean (NAAQS)
60	37-119-0041-44201-1	2005Jul25 13:00
61	37-119-0041-44201-1	2005Jul25 13:00
62	37-119-0041-44201-1	2005Jul25 14:00
63	37-119-0041-44201-1	2005Jul25 15:00
64	37-119-0041-44201-1	2005Jul25 16:00
65	37-119-0041-44201-1	2005Jul25 17:00
66	37-119-0041-44201-1	2005Jul25 18:00
67	37-119-0041-44201-1	2005Jul25 19:00
68	37-119-0041-44201-1	2005Jul25 20:00
69	37-119-0041-44201-1	2005Jul25 21:00
70	37-119-0041-44201-1	2005Jul25 22:00
71	37-119-0041-44201-1	2005Jul25 23:00
72	37-119-0041-44201-1	2005Jul26 00:00
73	37-119-0041-44201-1	2005Jul26 01:00
74	37-119-0041-44201-1	2005Jul26 02:00
75	37-119-0041-44201-1	2005Jul26 03:00
76	37-119-0041-44201-1	2005Jul26 04:00
77	37-119-0041-44201-1	2005Jul26 05:00
78	37-119-0041-44201-1	2005Jul26 06:00
79	37-119-0041-44201-1	2005Jul26 07:00
80	37-119-0041-44201-1	2005Jul26 08:00
81	37-119-0041-44201-1	2005Jul26 09:00
82	37-119-0041-44201-1	2005Jul26 10:00
83	37-119-0041-44201-1	2005Jul26 11:00
84	37-119-0041-44201-1	2005Jul26 12:00
85	37-119-0041-44201-1	2005Jul26 13:00
86	37-119-0041-44201-1	2005Jul26 14:00
87	37-119-0041-44201-1	2005Jul26 15:00
88	37-119-0041-44201-1	2005Jul26 16:00
89	37-119-0041-44201-1	2005Jul26 17:00
90	37-119-0041-44201-1	2005Jul26 18:00
91	37-119-0041-44201-1	2005Jul26 19:00
92	37-119-0041-44201-1	2005Jul26 20:00
93	37-119-0041-44201-1	2005Jul26 21:00
94	37-119-0041-44201-1	2005Jul26 22:00
95	37-119-0041-44201-1	2005Jul26 23:00
96	37-119-0041-44201-1	2005Jul27 00:00
97	37-119-0041-44201-1	2005Jul27 01:00
98	37-119-0041-44201-1	2005Jul27 02:00
99	37-119-0041-44201-1	2005Jul27 03:00
100	37-119-0041-44201-1	2005Jul27 04:00

**Edit Stoplight Format Dialog:**

What would you like to name your stoplight format?

Mean (NAAQS) :  $\geq 0.107$  Unacceptable,  $\leq 0.08$  Desirable ☒ Generate name automatically

Which data point would you like to format?

Arithmetic Mean (NAAQS)

What are the thresholds for unacceptable and desirable data ranges?

Unacceptable: 0.107

Acceptable: Between 0.107 and 0.08

Desirable: 0.08 [Edit Colors...](#)

☐ Hide data values for stoplight formats

Description:  $\geq 0.107$  0.08 - 0.107  $\leq 0.08$

[Help](#) [OK](#) [Cancel](#)

# Improved Sorting and Formatting - Conditional & Stoplight

File Edit View Format Tools Help

Available Items:

Items Conditions Calculations

List: All Items

My Conditions

- Parameter Code = '44201' AND Duration Code = 'W'
- State Code IN ('37')
- "NAAQS Date/Time" BETWEEN '2005Apr01 00:00' AND '2005Oct01 00:00'

Selected Items:

- Arithmetic Mean (NAAQS)
- Sites V
  - County Name
- My Conditions
  - Parameter Code = '44201' AND Duration Code = 'W'
  - State Code IN ('37')
  - "NAAQS Date/Time" BETWEEN '2005Apr01 00:00' AND '2005Oct01 00:00'

Page Items: Parameter Code: 44201 State Code: 37 County Name: Mec

	Monitor ID	NAAQS Date/Time	Arithmetic Mean (NAAQS)
60	37-119-1009-44201-1	2005Jul25 13:00	.08000
61	37-119-0041-44201-1	2005Jul25 13:00	.09300
62	37-119-0041-44201-1	2005Jul25 14:00	.08600
63	37-119-1009-44201-1	2005Jul25 14:00	.08000
64	37-119-0041-44201-1	2005Jul26 07:00	.08100
65	37-119-1005-44201-1	2005Jul26 08:00	.09100
66	37-119-0041-44201-1	2005Jul26 08:00	.09500
67	37-119-1009-44201-1	2005Jul26 08:00	.08600
68	37-119-1009-44201-1	2005Jul26 09:00	.09900
69	37-119-1005-44201-1	2005Jul26 09:00	.09900
70	37-119-0041-44201-1	2005Jul26 09:00	.10400
71	37-119-1009-44201-1	2005Jul26 10:00	.10700
72	37-119-1005-44201-1	2005Jul26 10:00	.10200
73	37-119-0041-44201-1	2005Jul26 10:00	.11000
74	37-119-0041-44201-1	2005Jul26 11:00	.11000
75	37-119-1005-44201-1	2005Jul26 11:00	.10200
76	37-119-1009-44201-1	2005Jul26 11:00	.11100
77	37-119-1009-44201-1	2005Jul26 12:00	.11000

All Sites All Sites 2 NC Sites by County Mecklenburg Co NC 8-hr Ozone

Resulting view of data with stoplight applied

# Improved Graphing Features

File Edit View Format Tools Help

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Available Items:

Items Conditions Calculations

List: All Items

My Conditions

- Parameter Code = '44201'
- State Code IN ('37')
- "NAAQS Date/Time" BETWEEN
- "Arithmetic Mean (NAAQS)"
- County Code = '119'

Selected Items:

- Parameter Code
- NAAQS Averages V
  - Monitor ID
  - NAAQS Date/Time
  - Arithmetic Mean (NAAQS)
- Sites V
  - County Name
- My Conditions
  - Parameter Code = '44201' Ar
  - State Code IN ('37')
  - "NAAQS Date/Time" BETWEEN
  - "Arithmetic Mean (NAAQS)"
  - County Code = '119'

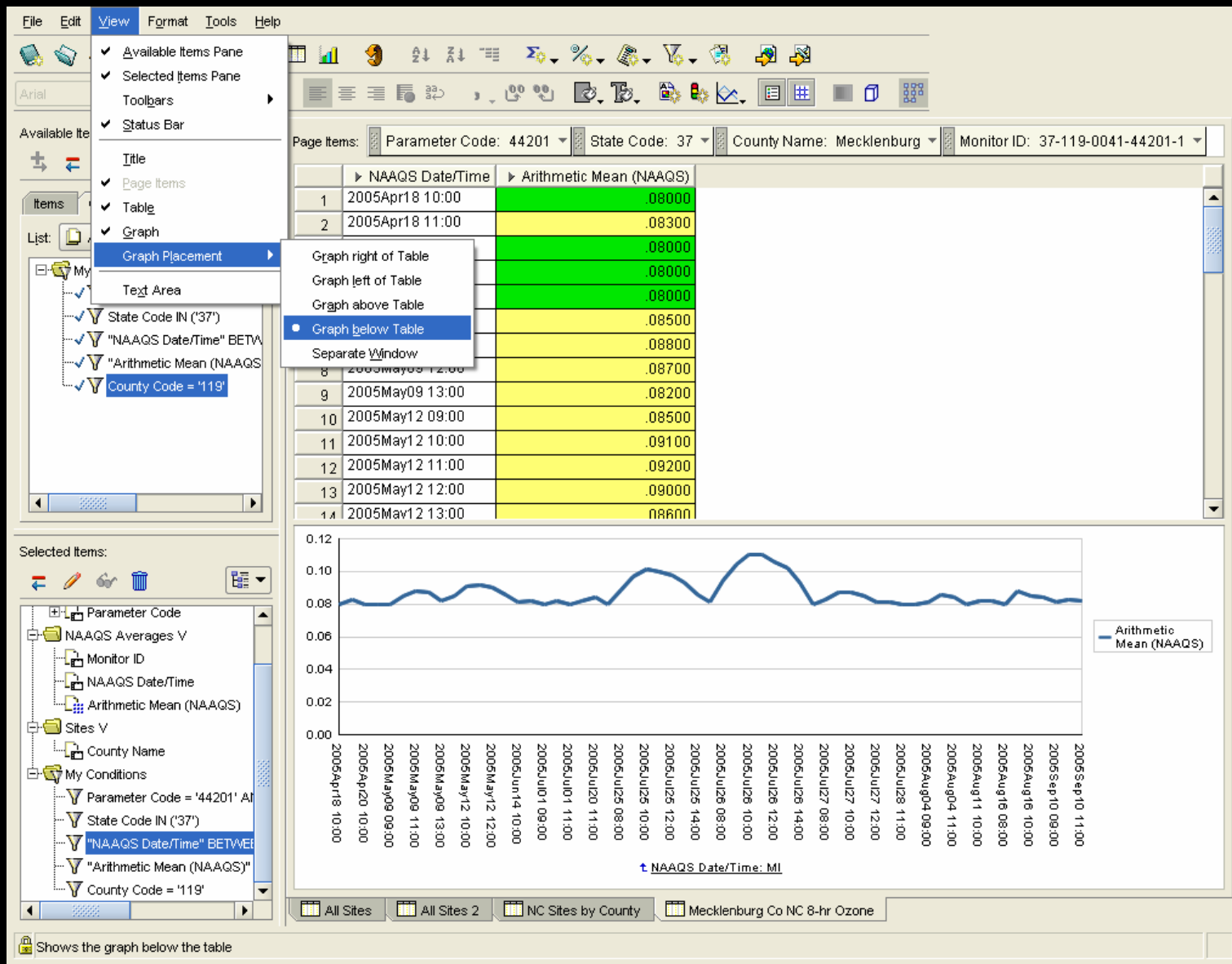
Page Items: Parameter Code: 44201 State Code: 37 County Name: Mecklenburg Monitor ID: 37-119-0041-44201-1

	NAAQS Date/Time	Arithmetic Mean (NAAQS)
1	2005Apr18 10:00	.08000
2	2005Apr18 11:00	.08300
3	2005Apr20 10:00	.08000
4	2005Apr20 11:00	.08000
5	2005May09 09:00	.08000
6	2005May09 10:00	.08500
7	2005May09 11:00	.08800
8	2005May09 12:00	.08700
9	2005May09 13:00	.08200
10	2005May12 09:00	.08500
11	2005May12 10:00	.09100
12	2005May12 11:00	.09200
13	2005May12 12:00	.09000
14	2005May12 13:00	.08600
15	2005Jun14 10:00	.08100
16	2005Jun14 11:00	.08200
17	2005Jul01 09:00	.08000
18	2005Jul01 10:00	.08200
19	2005Jul01 11:00	.08000
20	2005Jul20 10:00	.08200
21	2005Jul20 11:00	.08400
22	2005Jul21 10:00	.08000
23	2005Jul25 08:00	.08900
24	2005Jul25 09:00	.09700
25	2005Jul25 10:00	.10100
26	2005Jul25 11:00	.10000
27	2005Jul25 12:00	.09800
28	2005Jul25 13:00	.09300
29	2005Jul25 14:00	.08600

All Sites All Sites 2 NC Sites by County Mecklenburg Co NC 8-hr Ozone

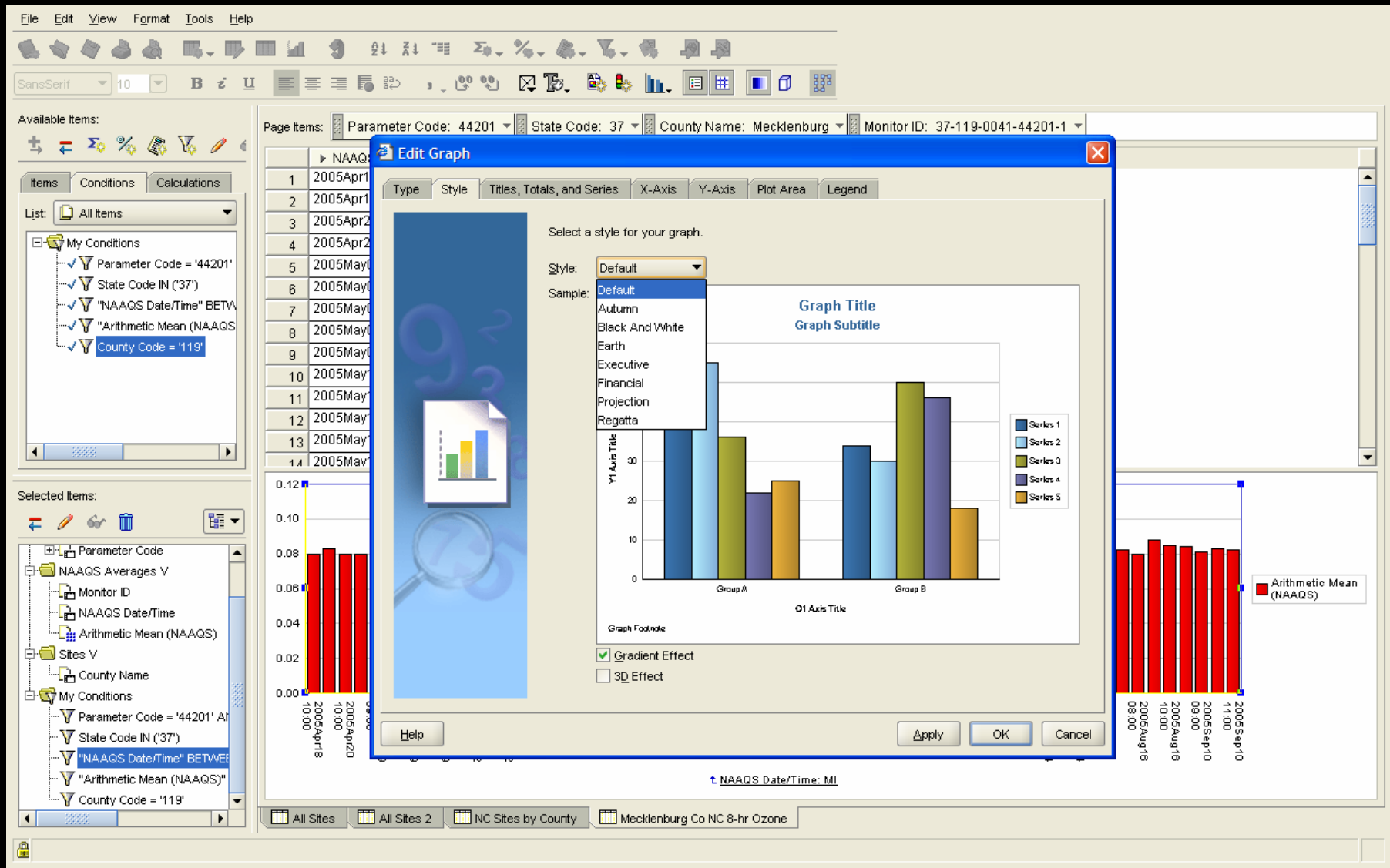


# Improved Graphing Features



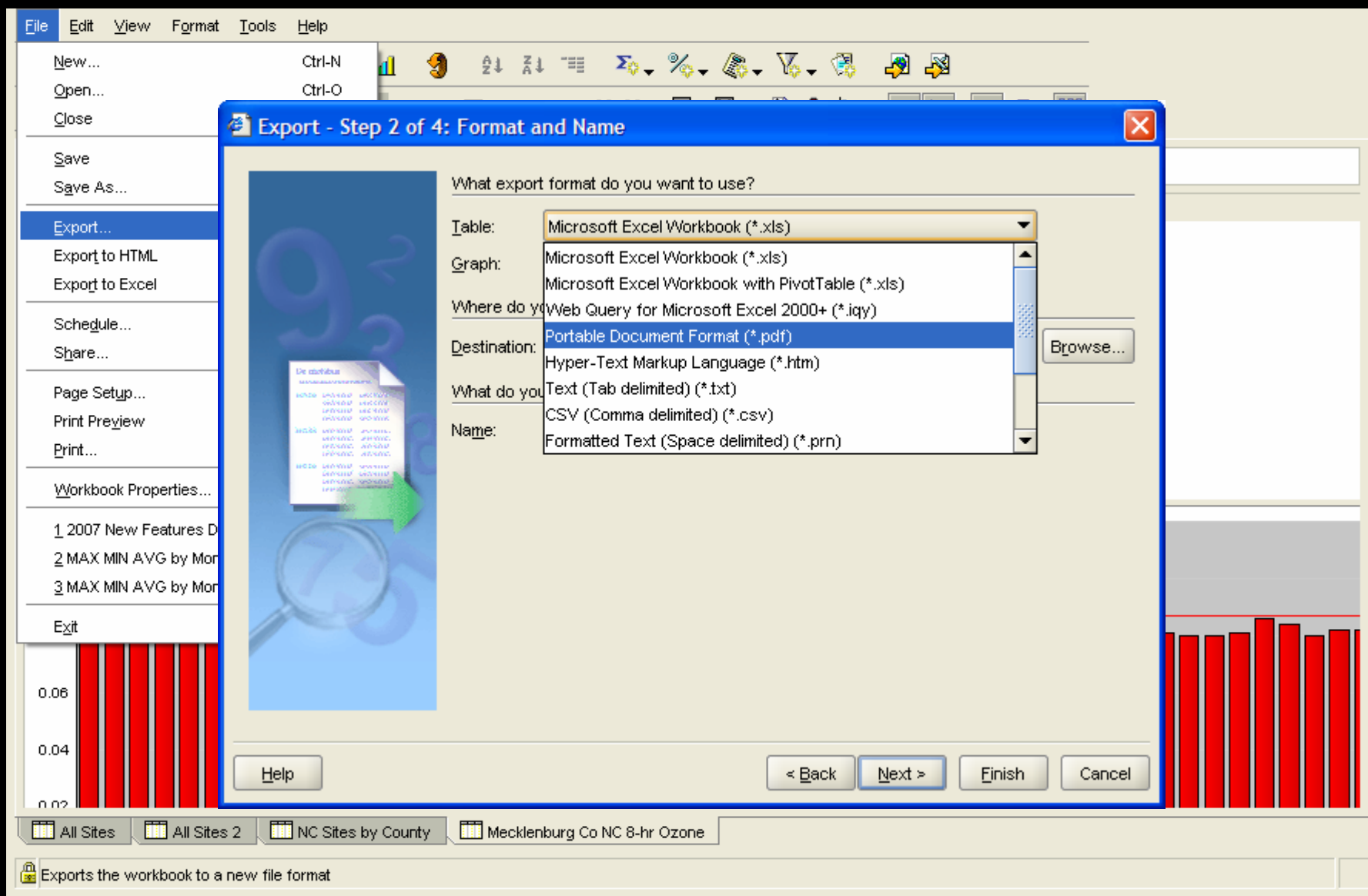
Options for graph placement

# Improved Graphing Features



Styles offer pre-selected color combinations

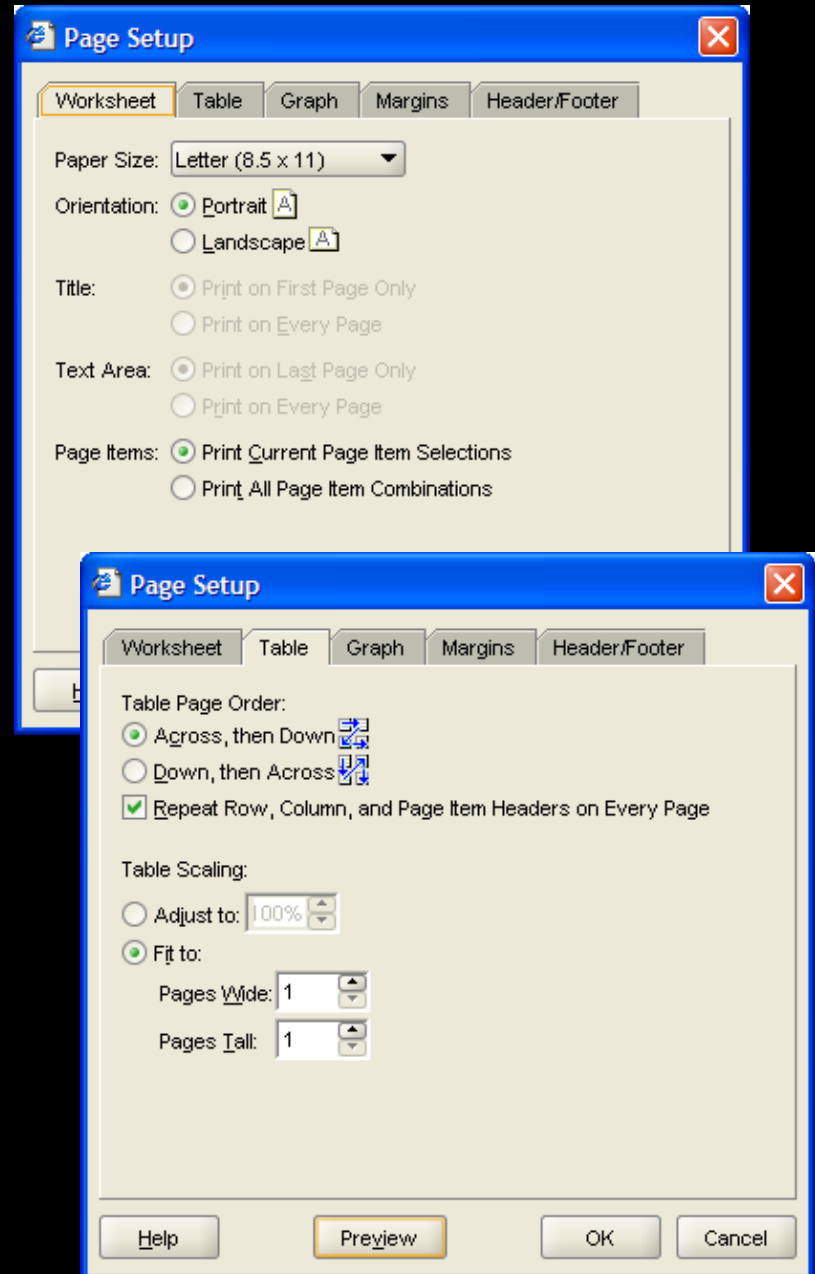
# New Export Formats



# Improved Print Functions

## Page Setup includes:

1. Set orientation (portrait or landscape)
2. Set header/footer or borders
3. Print worksheet with or without graph
4. Adjust the scale ( $\leq 100\%$ ) to fit page
5. Preview print
6. More....



*This web version does almost  
everything the desktop version  
can do and it does a few things  
... even better!*



Discoverer Plus now works a lot like most of the  
Office desktop products we've come to depend on.

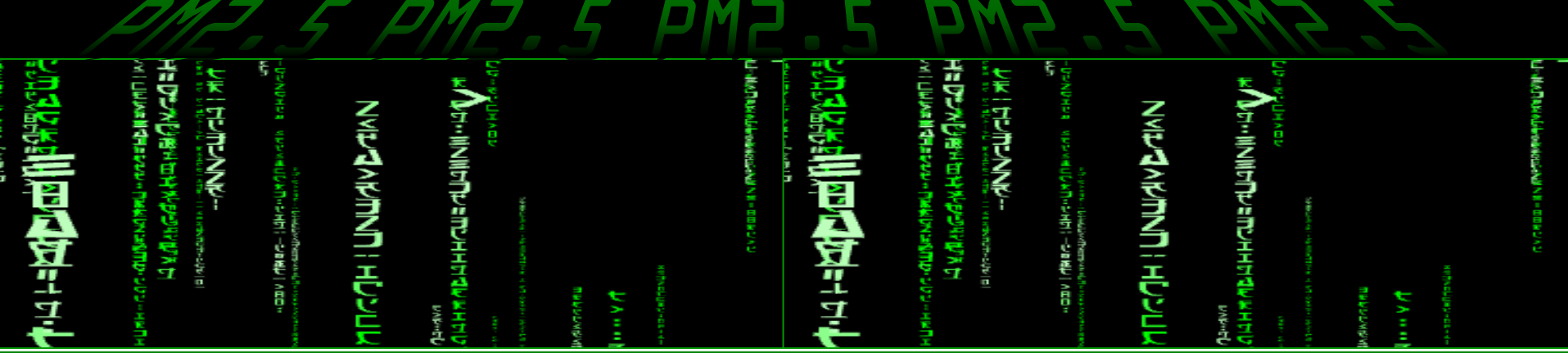
There are several ways to do just about  
everything. And if you prefer to do things the  
old way, you can mimic that, too.

*The fine print:*

*BI Discoverer Plus cannot save worksheets to your PC*

*BI Discoverer Plus cannot perform subqueries*

*Users must still become familiar with AQS data*



File Edit View Format Tools Help

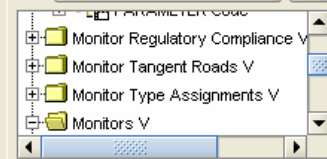


Available items:

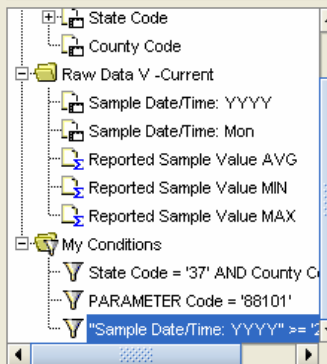


Items Conditions Calculations

List: AQSprd



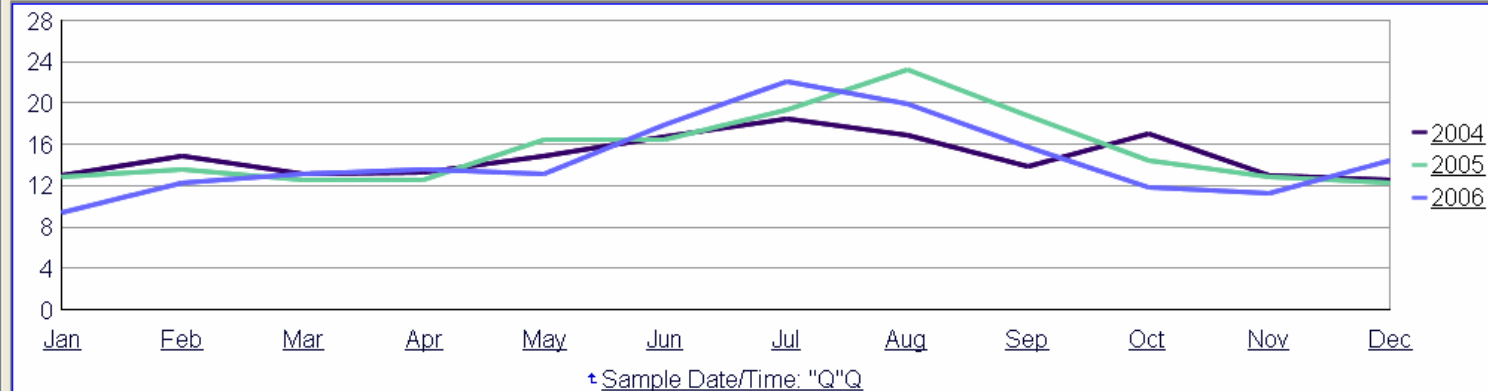
Selected items:



### Avg Monthly PM 2.5 (Local Conditions) Site 0041, Mecklenburg Co., NC 2004-2006

Page items: State Code: 37 County Code: 119 Site ID: 0041 Data Point: AVG

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2004	12.95667	14.91200	13.14815	13.30345	14.81786	16.69310	18.45333	16.85667	13.89655	17.07742	12.97917	12.58667
2005	12.83226	13.57778	12.49655	12.56800	16.48966	16.48519	19.39200	23.18750	18.77407	14.43333	12.79333	12.27037
2006	9.31724	12.25714	13.06667	13.56400	13.16774	17.83103	22.07097	19.96774	15.70370	11.89655	11.30333	14.38667



Sheet 1 Sheet 2 Sheet 3

Data in

The End

Information out