

Discoverer:

version 10 release 2

New Look & New Features

2007 AQS Conference

Pittsburgh

Bonnie Johnson

**A new look and feel,
and an improved interface
with new features**



**. . . create, modify, and analyze
reports.**

Overview

1. Improved Connectivity and New Worksheet Wizard
2. Improved Interactivity
3. Intuitive UI to Add Calculations to Worksheets
4. Improved Sorting and Formatting Features
5. Improved Graph Features
6. Improved Print Functionality
7. New Export Formats

Improved Connectivity and New Workbook Wizard

Old connection screen



OracleAS Discoverer - Microsoft Internet Explorer

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

Oracle Application Server

Discoverer Plus

[Help](#)

Connect to Discoverer Plus

To connect to OracleAS Discoverer, click the corresponding Connection in the table below. If the connection you are looking for isn't in the list, click [Create Connection](#).

[Create Connection](#)

Details	Connection ▾	Description	Update	Delete
(No connections found.)				

[Help](#)

Connect using Private connections you create that are stored on the PC.

New connection screen

2 ways to connect

Connect to Discoverer - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites Folders

Address <https://asint.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
▶ Show	agsprod			
▶ Show	EIMS_PUBLIC	EIMS Public Connection		

Connect Directly

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

* Indicates required field.

Connect To

OracleBI Discoverer

* User Name

* Password

* Database

End User Layer

Locale

Locale retrieved from browser

Go

Return to Top

Help

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About OracleBI Discoverer Plus Version 10.1.2.48.18

Oracle Technology Network

Done Trusted sites

1

5

New connection screen

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

Connect Directly

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

* Indicates required field.

Connect To

* User Name


* Password

* Database

End User Layer

Locale

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[About Oracle Discoverer](#) [Oracle Technology Network](#)



Change Password

ORACLE Discoverer Plus
Business Intelligence

Help

Connect Directly

Connect to OracleBI Discoverer

ORACLE Discoverer Plus
Business Intelligence

Help

Update Connection

Use this page to enter the details of the connection that you wish to create. Choose a name that is easy to remember, followed by an optional description and locale. Enter the account details for this connection before proceeding.

Cancel Apply Apply and Connect

Connection Details

* Indicates required field.

Connect To OracleBI Discoverer

* Name aqsprod

Description

Locale Locale retrieved from browser

Account Details

* User Name BOS

* Password

* Database aqsprod

Change Password

TIP You will be prompted to select an End User Layer and/or an Applications Responsibility if more than one exists.

Cancel Apply Apply and Connect

Help

connection details directly.

Create Connection

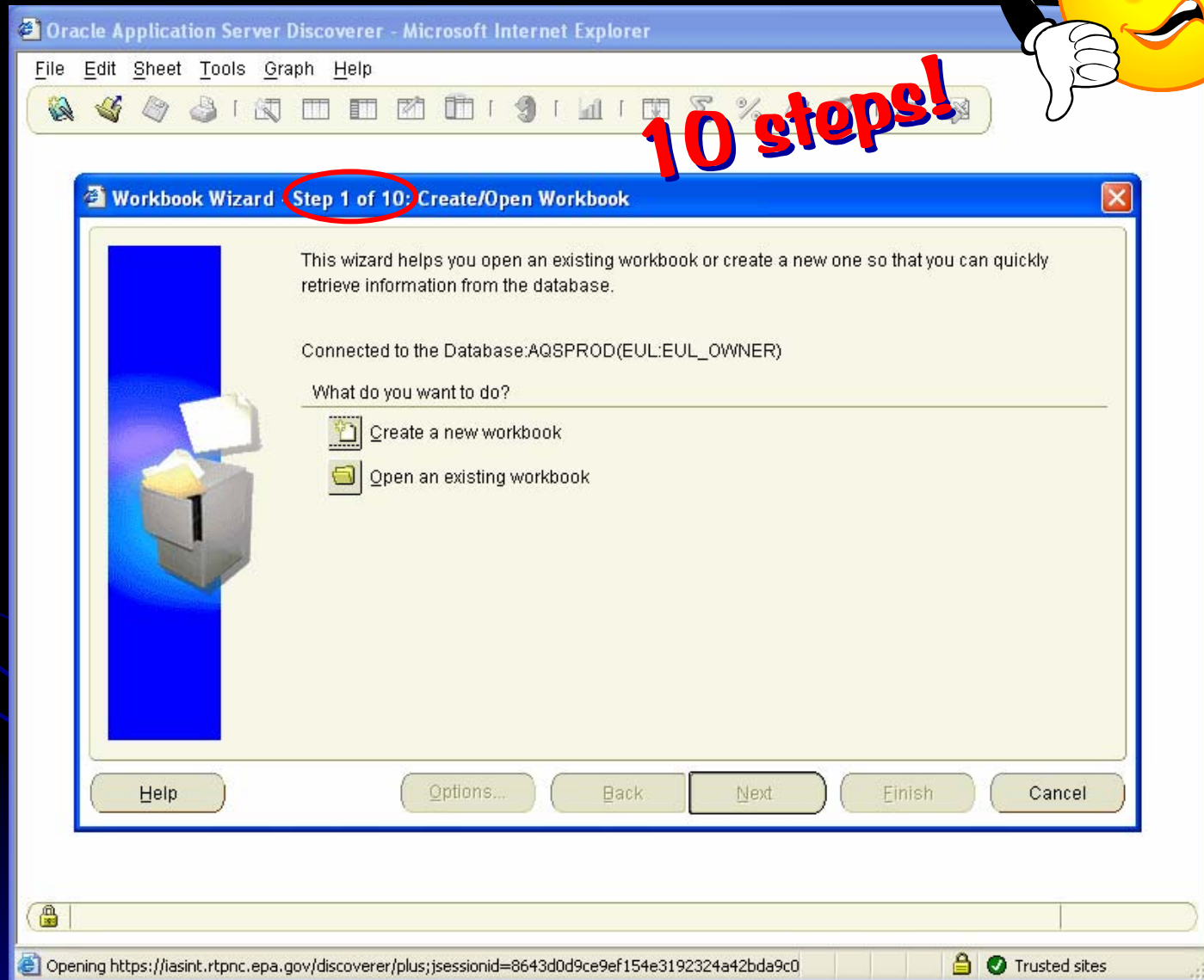
Update Delete

Return to Top

er.

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About OracleBI Discoverer Plus Version 10.1.2.48.18
Oracle Technology Network

Old Workbook Wizard





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

Browse...

☒ 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:

Help Properties... Show SQL... < Back Next > Finish Cancel



Open Existing Workbook

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 Conference - New Features Demo1
- 2007 user manual worksheet 1
- hourly load rates by week
- Max 8 Hour Ozone

☒ Create a new workbook

Select the objects to display in the worksheet

☒ Title

☒ Page Items

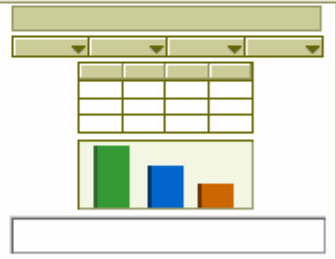
☐ Crosstab ☒ Table

☒ Graph

Placement: Graph below Table

☒ Text Area

Example:



Help Properties... Show SQL... < Back Next > Finish Cancel



Browse Workbooks

All workbooks
available to you
appear in the
Workbooks area

Open Workbook from Database

Choose a target worksheet by browsing available workbooks and selecting a worksheet

View: All Workbooks ▼ 📁 Name contains: Clear

Workbooks:

Name ▲	Owner	Modified
📁 12Apr07 Valid Protocols Sampl Meth - see pa...	BOS	Apr 12, 2007 5:04 PM
📁 2004 Mexico Data 042705	SKQ	Apr 27, 2005 5:48 PM
📁 2007 Recs, Elpsd Secs, CPU Secs by week	BOS	May 2, 2007 6:06 PM
📁 2007 user manual worksheet 1	BOS	May 23, 2007 1:44 PM
📁 31Ict06 - testing report times	BOS	Oct 31, 2006 5:34 PM
📁 42602 Methods CollFreq	BOS	Mar 1, 2005 4:00 PM
📁 88101&81102 from 88101 FRM sites - for Sa...	BOS	Jan 25, 2006 5:50 PM
📁 8-Hour Ozone Hourly	AGV	Aug 12, 2005 3:34 PM
📁 AAA Terminated Sites in NC	BOS	Mar 27, 2007 1:33 PM
📁 Access to Raw Data	BOS	Jun 23, 2004 3:22 PM
📁 acrolein04	WRP	Mar 24, 2006 11:28 AM
📁 Active Criteria Mons in Region 9	BOS	Jun 9, 2005 6:35 PM
📁 Active Criteria Mons in Region 9-Maricopa co...	BOS	Apr 3, 2007 2:14 PM
📁 Active Criteria Mons in SC in 2003	BOS	Oct 25, 2004 5:04 PM

Description

No description available

Help Open Cancel



Filter Workbooks

Open Workbook from Database

Choose a target worksheet by browsing available workbooks and selecting a worksheet

View: All Workbooks 📅 Name contains: Clear

Workbooks:

Name ▲	Owner	Modified
📄 8-Hour Ozone Hourly	AGV	Aug 12, 2005 3:34 PM
📄 hourly load rates by week	BOS	Oct 27, 2006 2:05 PM
📄 hourly load rates by week 1Jan05-27Nov05	BOS	May 2, 2007 11:35 AM
📄 Max 8 Hour Ozone	BOS	Sep 6, 2005 4:01 PM
📄 Wind data - hourly	HDY	Apr 3, 2007 2:38 PM
📄 Wind data - hourly - mod	BOS	Apr 2, 2007 5:14 PM

Description

Help Open Cancel

**Enter name or any
portion of the name
for a workbook**



View and View as drop-downs

View as

Open Workbook from Database

Choose a target worksheet by browsing available workbooks and selecting a worksheet

View: All Workbooks

Workbooks: All Workbooks, My Workbooks (BOS), Database Workbooks, Scheduled Workbooks

Name contains: hour

Name	Modified
8-h	Aug 12, 2005 3:34 PM
ho	Jun 1, 2007 2:27 PM
hourly load rates by week 1Jan05-27Nov05	May 2, 2007 11:35 AM
Max 8 Hour Ozone	Sep 6, 2005 4:01 PM
Wind data - hourly	Apr 3, 2007 2:38 PM
Wind data - hourly - mod	Apr 2, 2007 5:14 PM

Description

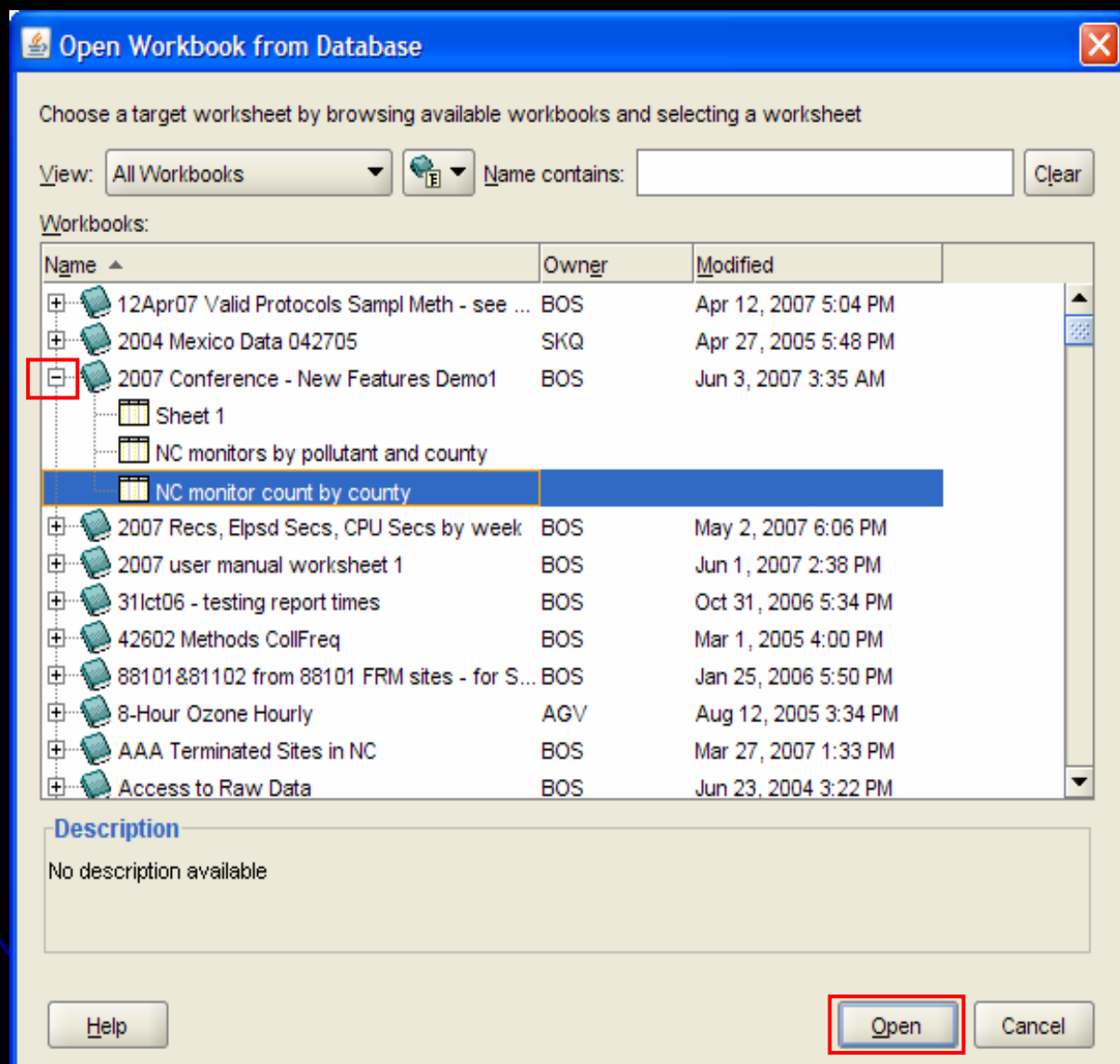
Help Open Cancel



Expand workbook
to see worksheets
within it

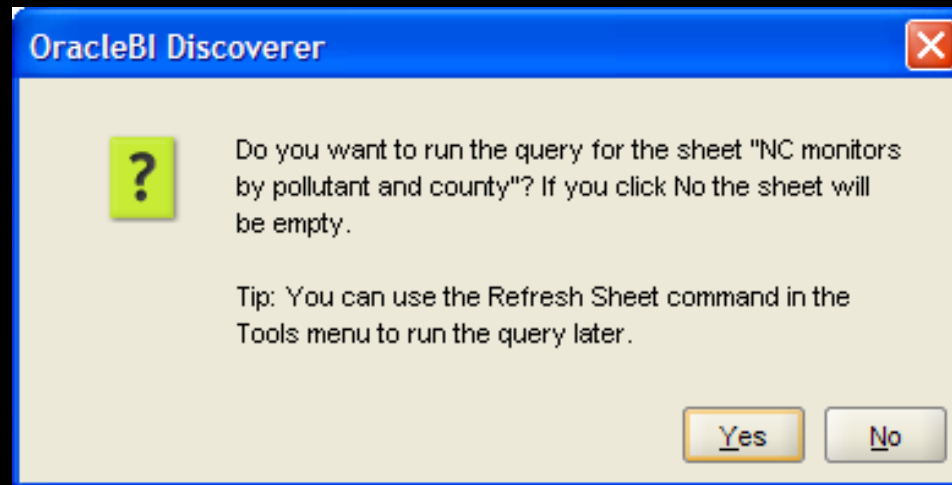
Open workbook
or individual
worksheet

Workbook Tree

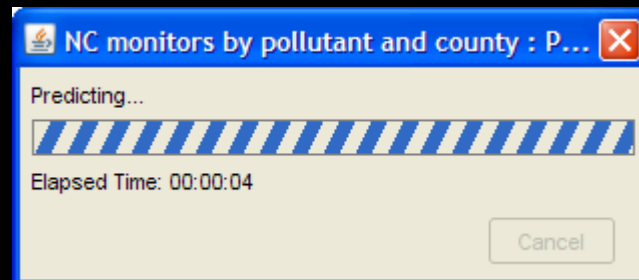




Run Query



Watch Progress





New Look

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

4 Page Items

5 Table Area

6 Graph Area

7 Text Area

8 Worksheet Tab

2 Items selected from business area

Selected Items:

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

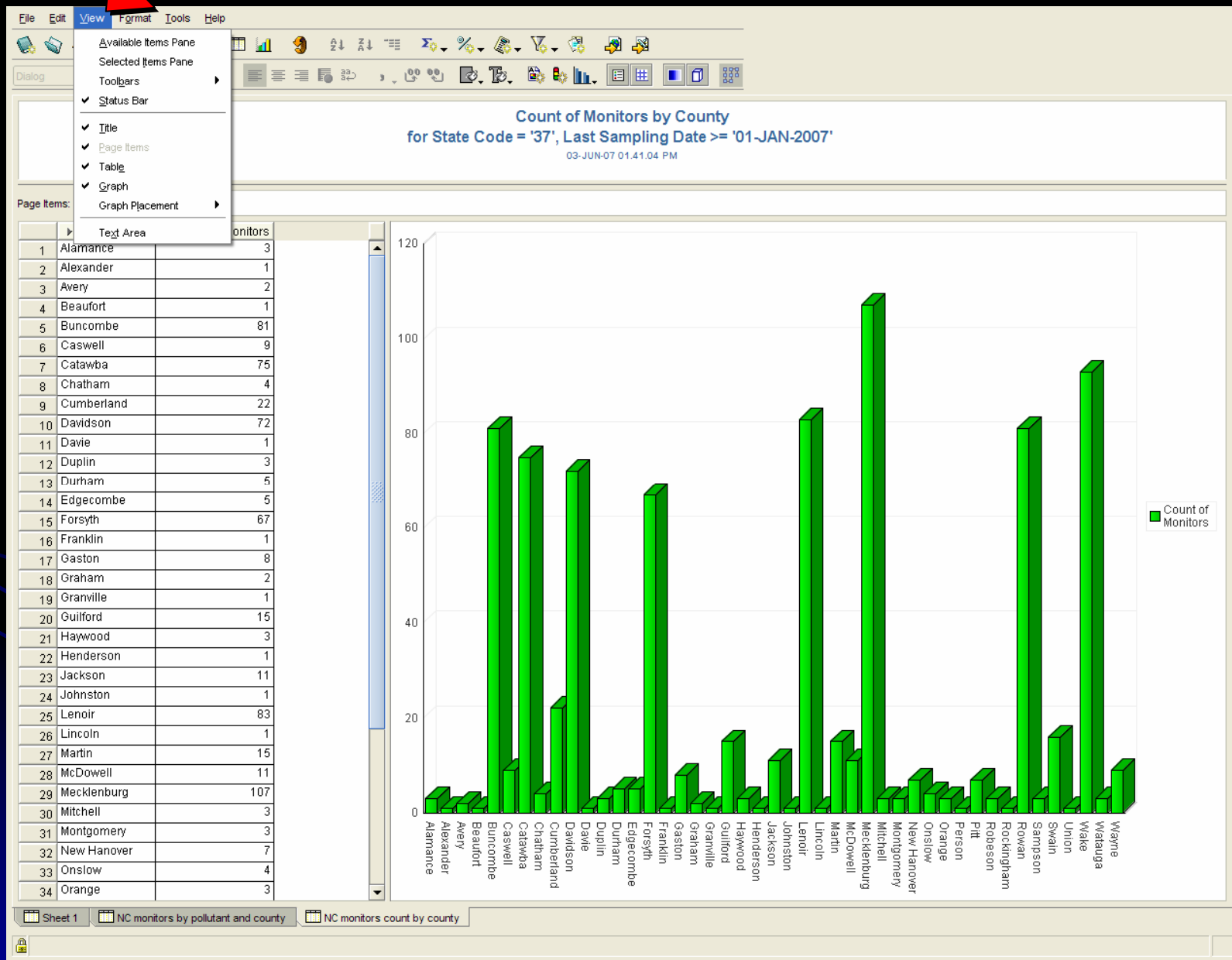
County Name	Count of Monitors
1 Alamance	3
2 Alexander	1
3 Avery	2
4 Beaufort	1
5 Buncombe	1
6 Caswell	9
7 Catawba	5
8 Chatham	4
9 Cumberland	22
10 Davidson	72
11 Davie	1
12 Duplin	3
13 Durham	5
14 Edgecombe	5
15 Forsyth	67
16 Franklin	1
17 Gaston	8
18 Graham	2
19 Granville	1
20 Guilford	15
21 Haywood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

Double-click here to edit the text area

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



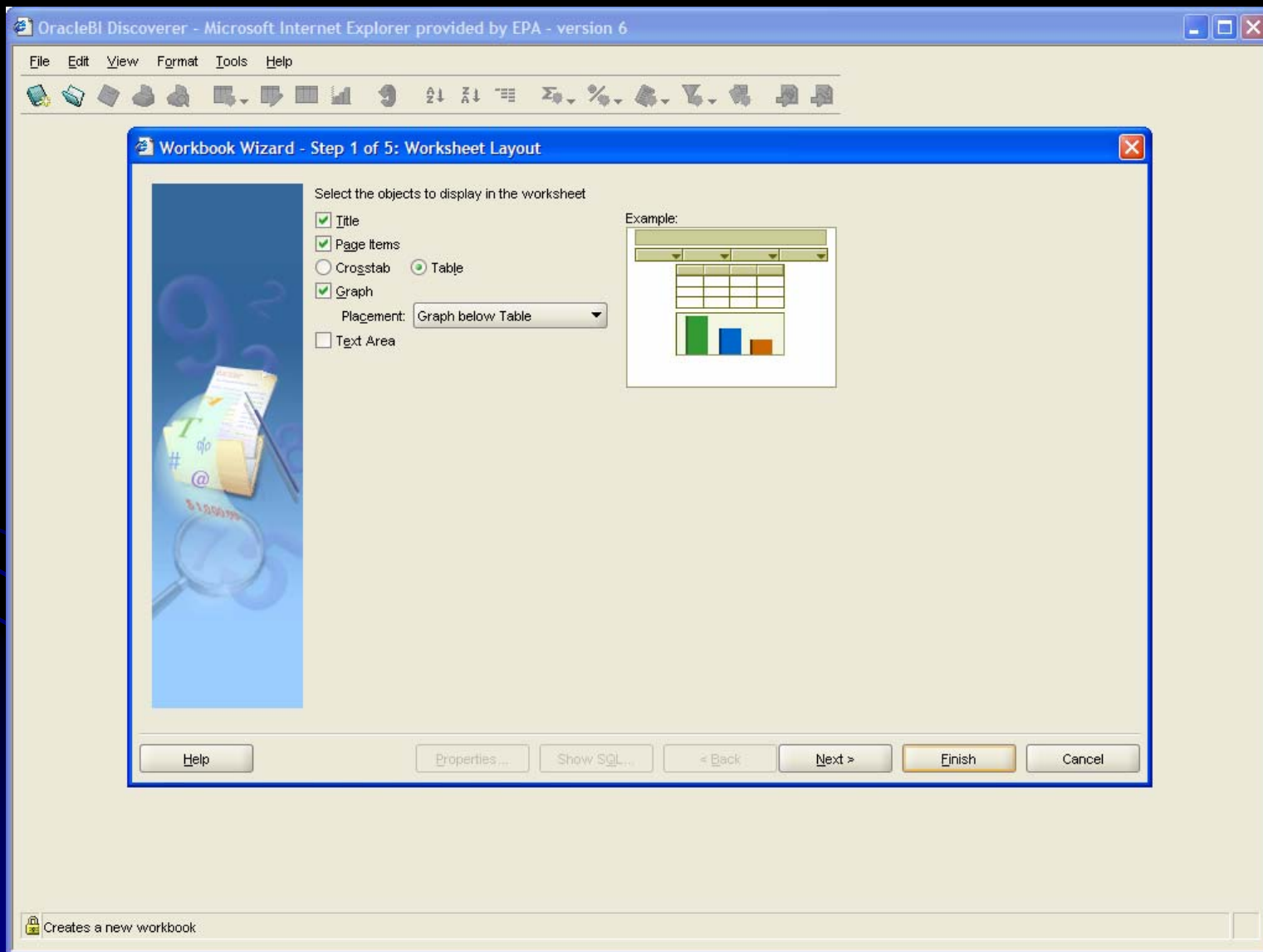
Simplified New Look



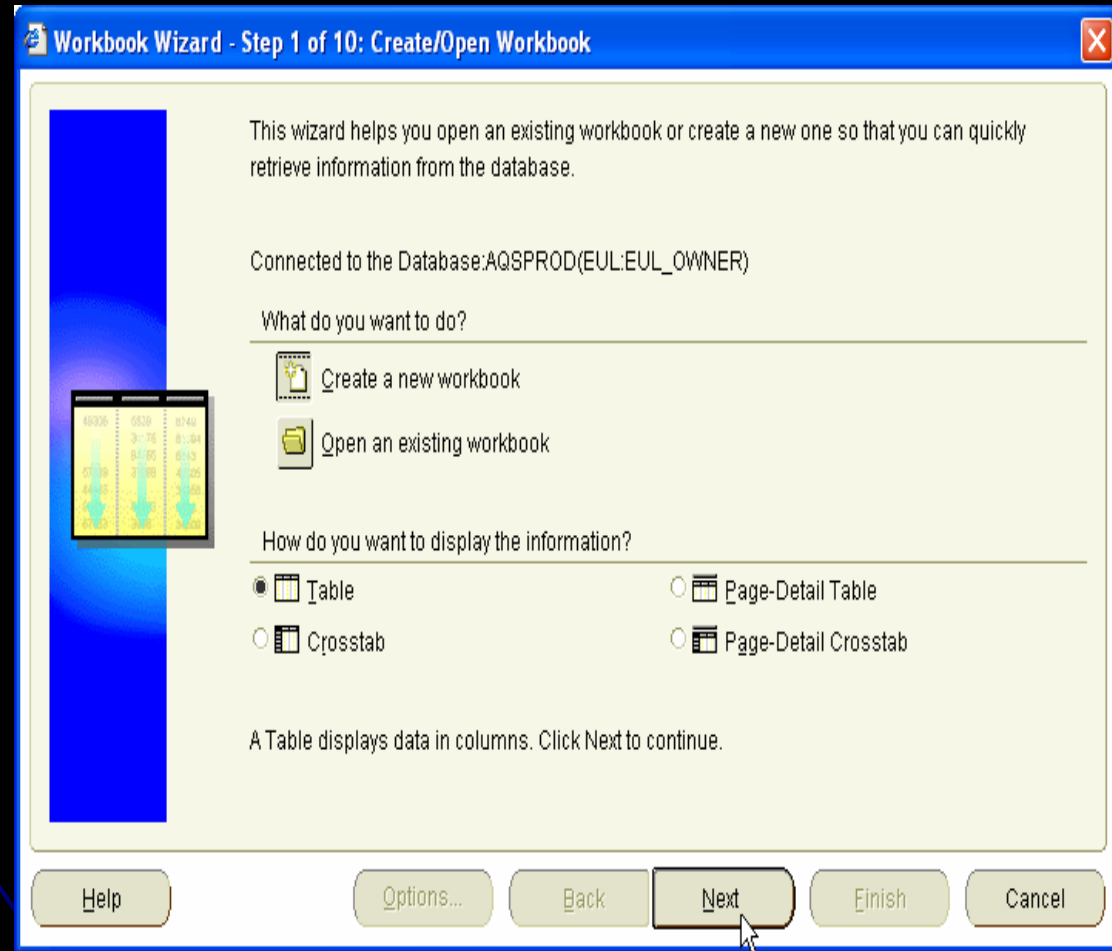
Goal: Find all sites



Starting from Scratch: Create a New Workbook



Remember the old way ?



Goal: Find all sites



Create New Workbook

Workbook Wizard - Step 1 of 5: Worksheet Layout

Select the objects to display in the worksheet

☐ Title

☒ Page Items

☐ Crosstab ☒ Table

☐ Graph

Placement: Graph below Table

☐ Text Area

Example:

Help Properties... Show SQL... < Back Next > Finish Cancel

Goal: Find all sites



Workbook Wizard - Step 2 of 5: Select Items

To add items to your worksheet, select them from the Available list and move them to the Selected list.

Available

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
Monitor Collocation Periods V

Production AQS database (without re...

Find

To find an item or folder, select an option in the drop down list and type a word in the text field, then select the "Go" button. When the search is complete, select an item from the list and click "OK" to locate the item.

Search in: AQSprod
Search by: Contains
Search for: sites
☐ Case-sensitive

Results:

Name	Location	Type
Count of Collocated ... Reporting Organization Precision Sum...		Data Point
Sites V	Sites V	Folder

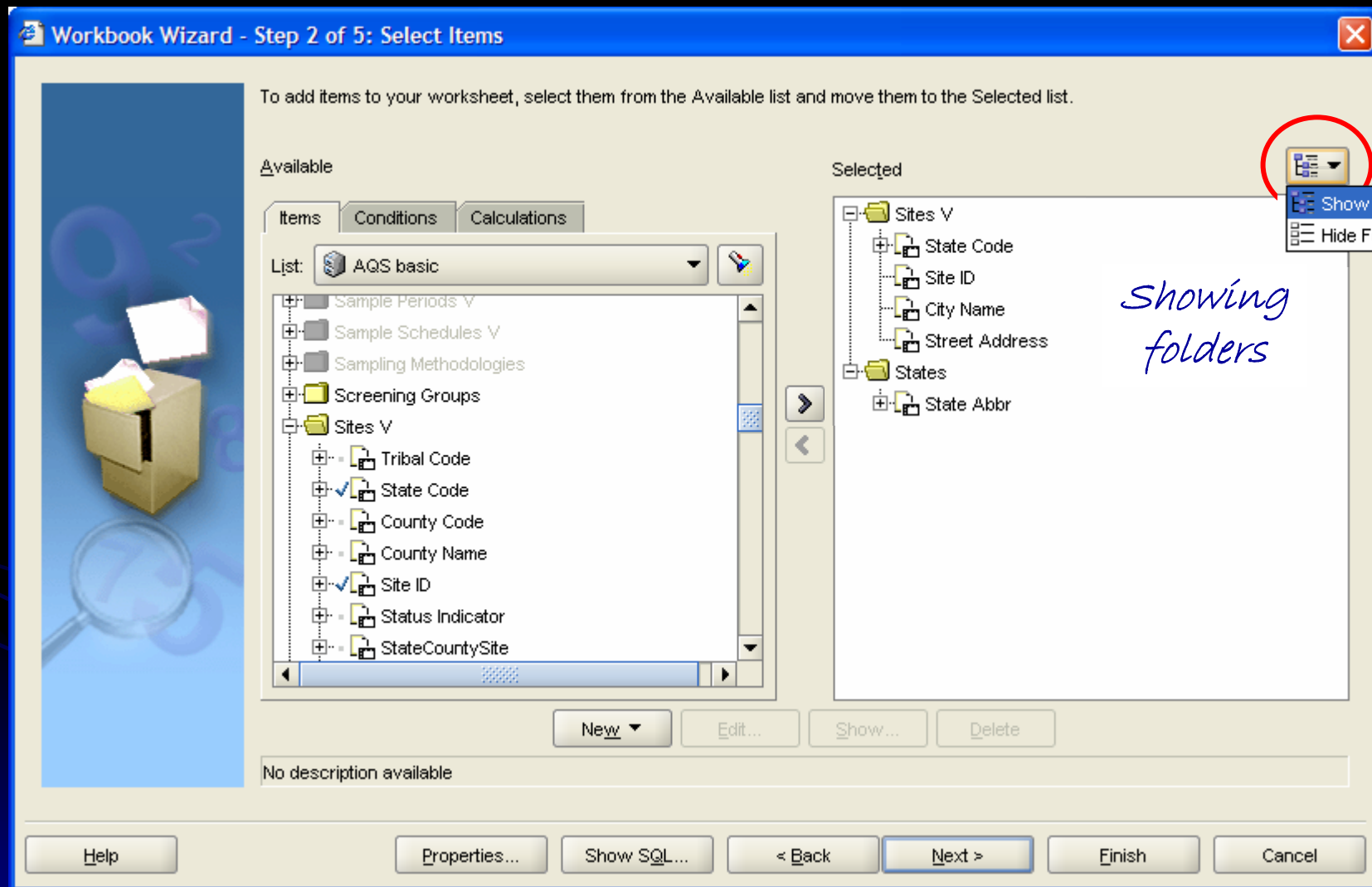
Description

Info about AQS sites including geographical location & established/terminated dates.

Help OK Cancel



Goal: Find all sites





Goal: Find all sites

Workbook Wizard - Step 2 of 5: Select Items

To add items to your worksheet, select them from the Available list and move them to the Selected list.

Available

Items: Conditions Calculations

List: All Items

My Conditions

Selected

Sites V

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

States

- State Abbr

New Edit... Show... Delete

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



Goal: Find all sites

Workbook Wizard - Step 3 of 5: Table Layout

To change the layout of information in your worksheet, click and drag the column headings to the location you want. To change format settings, click the 'Properties...' button.

☐ Show Page Items ☐ Hide Duplicate Rows

	State Code	Site ID	City Name	Street Address	State Abbr
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					

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



Goal: Find all sites

Done!

File Edit View Format Tools Help

Arial 10 B z U

	State Code	Site ID	City Name	Street Address	State Abbr
1	01	0004	Not in a city	9494 EXPERIMENTAL LOOP	AL
2	01	1009	Not in a city	1801 BRUCE SHAW ROAD	AL
3	01	0037	Not in a city	TVA WIDOWS CRK 25 4.52 MI	AL
4	01	9000	Not in a city	Sipsy Wilderness	AL
5	01	2003	Not in a city	SPUR OIL BLAKELY ISLAND	AL
6	01	1009	Not in a city	HAMILTON BLVD HOLLINGER	AL
7	01	0012	Not in a city	WATER WORKS RD & BAYOU	AL
8	01	0001	Not in a city	MOULTON HIGH SCHOOL, CO	AL
9	01	0035	Not in a city	2.65 MI NNE OF WIDOWS CR	AL
10	01	0027	Not in a city	5.4 MI NNW OF WIDOWS CR	AL
11	01	0044	Not in a city	TVA COLBERT 14 3.98 MI	AL
12	01	0010	Not in a city	0.6 MI ENE OF OACD	AL
13	01	0002	Not in a city	0.7 MI WNW OF OACD	AL
14	01	0002	Not in a city	437 COUNTY ROAD 8, CLIO,	AL
15	01	1001	Not in a city	CORPS OF ENGINEERS BLD	AL
16	01	0002	Not in a city	SUMTER CO., KINTERBISH S	AL
17	01	0001	Not in a city	WYLS US HWY #11	AL
18	01	0006	Not in a city	PELHAM HIGH SCHOOL	AL
19	01	3001	Not in a city	CITY HALL CITRONELLE	AL
20	01	2002	Not in a city	RADAR STATION BAY FRONT	AL
21	01	1016	Not in a city	COLONIAL OAKS CIRCLE NE	AL

Sheet 1



Goal: Find all sites

Rename worksheet (Optional)

Worksheet Properties dialog box (General tab):

Name:	Identifier:	Description:
All sites	1	Demo for New Look & Feel of Discoverer Simple query for baseline

Worksheet Properties...
Delete Worksheet...
Move Worksheet...

Worksheet Properties...
Delete Worksheet...
Move Worksheet...

Worksheet Properties...
Delete Worksheet...
Move Worksheet...



Table Format Options

File Edit View Format Tools Help

Undo Worksheet Properties Ctrl-Z

Arial

Worksheet Properties

General **Table Format** Aggregation

Table headers

☒ Show column headings ☒ Show row numbers

Table data area

☒ Show vertical gridlines ☒ Show horizontal gridlines Gridline color:

Sheet content

Show null values as:

Example

Table

	Column1	Column2	Column3
1	51	32	10
2	50	65	19
3	44	73	25
4	81	62	18

Help OK Cancel

Sheet 1

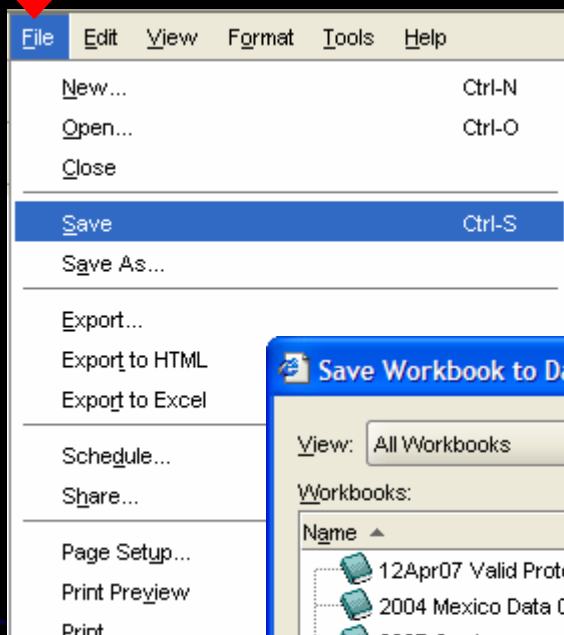
Renames the worksheet

20 01 2002 Not in a city RADAR STATION BAY FRONT AL

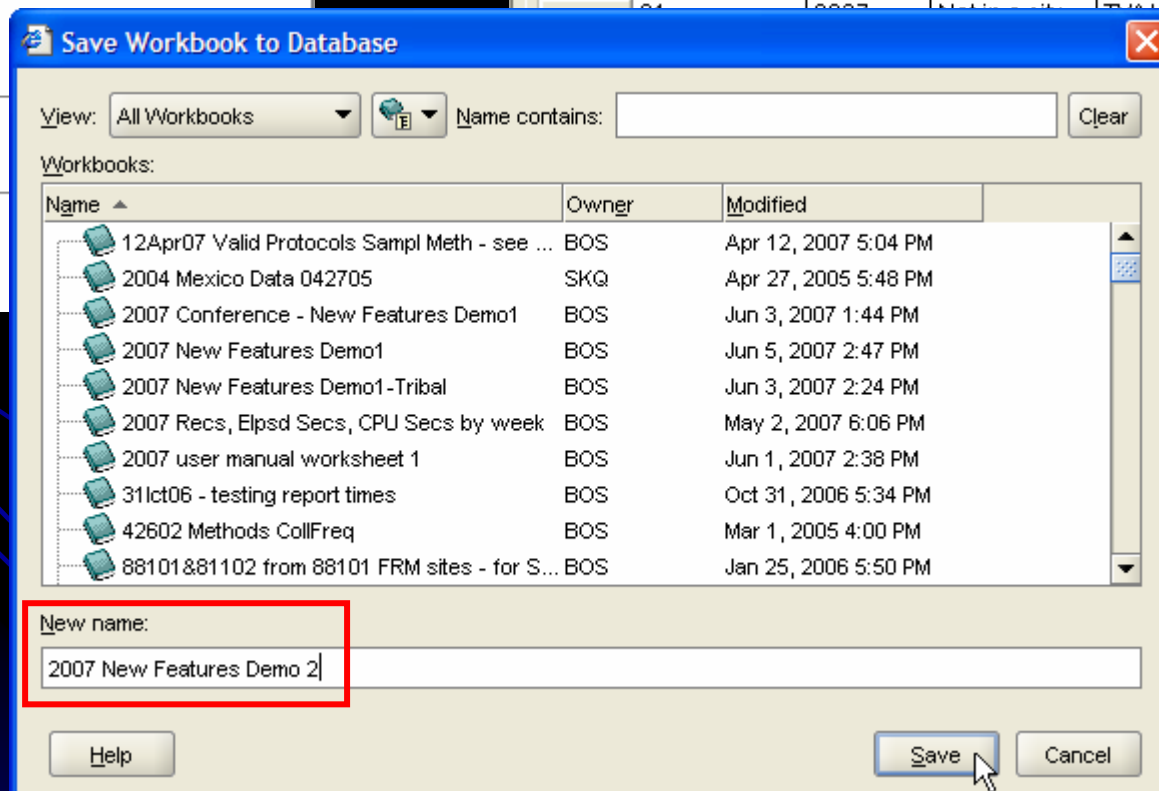
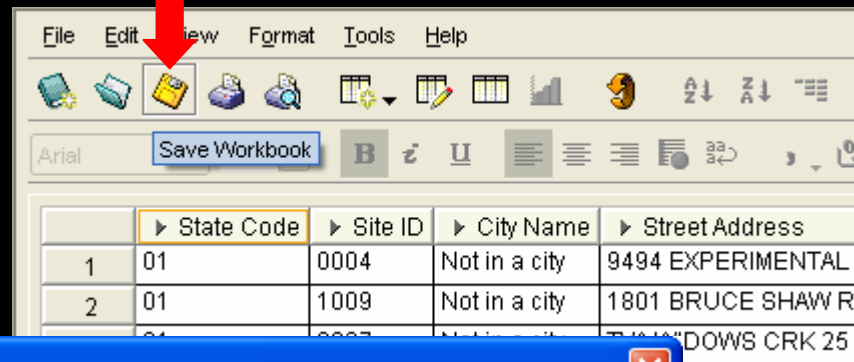
21 01 1016 Not in a city COLONIAL OAKS CIRCLE N AL



Save workbook



or



Suggested Exercise 1: Improved Connectivity and New Workbook Wizard

1. Use the Direct Connect option to connect to the aqspod database.
2. Browse all available workbooks.
 - ☐ Change the view (view as) to see all workbooks by user tree. Expand one user to see the workbooks that user has shared with you.
 - ☐ Change the view to see all workbooks by table. Can you still see the userid of the workbook creator?
 - ☐ Sort the list of workbooks by the modified date. (ascending/descending)
 - ☐ Browse the list of your workbooks and see how the list changes depending on the view (workbook tree, user tree, table).
 - ☐ Filter the list of all workbooks or database workbooks to show only those containing MAX in the name. (Notice how the list changes as you type in each letter.)
3. Find (but don't open) a workbook named '2007 New Features Demo 1' or '2007 New Features Demo 1 - Tribal'.
 - ☐ How many worksheets are in that workbook?
 - ☐ Open and run only the last worksheet in that workbook.
 - ☐ Move the graph to the top.
 - ☐ Change the view so that the graph is in a separate window. Can you find the graph?
4. Create a new workbook. This workbook will list all of the duration codes, descriptions and status indicators.
 - ☐ Use the Find button to find the item duration codes. Select these items: duration codes, duration descriptions, and the status indicator for the duration code.
 - ☐ Show the folders of the selected items
 - ☐ Rename the worksheet. Save the workbook.

Improved Interactivity: Layout

Old Table Layout screen

Workbook Wizard - Step 3 of 10: Table Layout

To change the layout of information in your worksheet, click and drag the column headings to the location you want. To change format settings, click the Options button.

☐ Show Page Items ☐ Hide Duplicate Rows

	State Code	State Abbr	State Name	EPA Region Code
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				

Help Options... Back **Next** Finish Cancel

New Table Layout screen

Workbook Wizard - Step 3 of 5: Table Layout

To change the layout of information in your worksheet, click and drag the column headings to the location you want. To change format settings, click the 'Properties...' button.

☐ Show Page Items ☐ Hide Duplicate Rows

	State Code	Site ID	City Name	Street Address	State Abbr
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					

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

Almost identical!



Improved Interactivity: Layout

The screenshot illustrates a software interface for managing data, likely a database or spreadsheet application. The main window displays a table with the following columns: State Code, Site ID, City Name, Street Address, and State Abbr. The data is organized into rows, with the first two rows showing entries for '01' (State Code) and '0004' (Site ID).

A red circle highlights the 'State Code' column header, indicating a focus on rearranging items. A mouse cursor is positioned over the 'State Abbr' column header, suggesting an interaction with the table structure.

A second, larger table is overlaid on the bottom right, showing a different layout with columns: State Code, State Abbr, Site ID, City Name, and Street Address. This table contains 10 rows of data, including entries for '01' (State Code) and 'AL' (State Abbr).

	State Code	Site ID	City Name	Street Address	State Abbr
1	01	0004	Not in a city	9494 EXPERIMENTAL LOOP	AL
2	01	1009	Not in a city	1801 BRUCE SHAW ROAD	AL

	State Code	State Abbr	Site ID	City Name	Street Address
1	01	AL	0004	Not in a city	9494 EXPERIMENTAL LOOP
2	01	AL	1009	Not in a city	1801 BRUCE SHAW ROAD
3	01	AL	0037	Not in a city	TVA WIDOWS CRK 25 4.52
4	01	AL	9000	Not in a city	Sipsy Wilderness
5	01	AL	2003	Not in a city	SPUR OIL BLAKELY ISLAND
6	01	AL	1009	Not in a city	HAMILTON BLVD HOLLINGER
7	01	AL	0012	Not in a city	WATER WORKS RD & BAYO
8	01	AL	0001	Not in a city	MOULTON HIGH SCHOOL, CO
9	01	AL	0035	Not in a city	2.65 MI NNE OF WIDOWS CR
10	01	AL	0027	Not in a city	5.4 MI NNW OF WIDOWS CR

Rearrange items - Click and drag

Improved Interactivity: Layout

The screenshot shows a software interface with a menu bar (File, Edit, View, Format, Tools, Help) and a toolbar. Below the toolbar is a table with columns: State Code, Site ID, City Name, Street Address, and State Abbr. A right-click context menu is open over the 'State Abbr' column header. The menu includes options like Copy, Remove from Worksheet, Move To, Format Data..., Format Heading..., Edit Heading..., Format Table..., Conditional Formats..., Column Width..., Column Auto Size (checked), Group Sort, Sort Low To High, Sort High To Low, Drill..., and Manage Links.... The 'Move To' sub-menu is open, showing options to move the column before various other columns.

	State Code	Site ID	City Name	Street Address	State Abbr
1	01	0004	Not in a city	9494 EXPERIMENTAL LOOP	AL
2	01	1009	Not in a city	1801 BRUCE SHAW ROAD	AL
3	01	0037	Not in a city	TVA WIDOWS CRK 25 4.52	AL
4	01	9000	Not in a city	Sipsy Wilderness	AL
5	01	2003	Not in a city	SPUR OIL BLAKELY ISLAND	AL
6	01	1009	Not in a city	HAMILTON BLVD HOLLINGER	AL
7	01	0012	Not in a city	WATER WORKS RD & BAYO	AL
8	01	0001	Not in a city	MOULTON HIGH SCHOOL, CO	AL
9	01	0035	Not in a city	2.65 MI NNE OF WIDOWS CR	AL
10	01	0027	Not in a city	5.4 MI NNW OF WIDOWS CR	AL
11	01	0044	Not in a city	TVA COLBERT 14 3.98 MI	AL
12	01	0010	Not in a city	0.6 MI ENE OF OACD	AL
13	01	0002	Not in a city	0.7 MI WNW OF OACD	AL
14	01	0002	Not in a city	437 COUNTY ROAD 8, CLIO,	AL
15	01	1001	Not in a city	CORPS OF ENGINEERS BLD	AL
16	01	0002	Not in a city	SUMTER CO., KINTERBISH ST	AL
17	01	0001	Not in a city	WYLS US HWY #11	AL
18	01	0006	Not in a city	PELHAM HIGH SCHOOL	AL
19	01	3001	Not in a city	CITY HALL CITRONELLE	AL
20	01	2002	Not in a city	RADAR STATION BAY FRON	AL
21	01	1016	Not in a city	COLONIAL OAKS CIRCLE N	AL
22	01	1015	Not in a city	BALTIMORE PARK OAKDALE	AL
23	01	1014	Not in a city	COMMUNITY HOUSE WHISTL	AL
24	01	1011	Not in a city	LAUNDROMAT IRVINGTON	AL
25	01	1010	Not in a city	TATUMS SERVICE STATION	AL
26	01	1008	Not in a city	AMMUNITION DUMP THEO	AL

Right Click

- Copy
- Remove from Worksheet
- Move To
 - Column Header
 - Before State Code
 - Before Site ID
 - Before City Name
 - Before Street Address
 - Page Items
- 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...

Rearrange items in Right Mouse Menu

Improved Interactivity: Layout

Available Items:

Items Conditions Calculations

List: AQS basic

Right Click

Add to Worksheet

Remove from Worksheet

	State Code	State Abbr	Site ID	City Name	Street Address
1	01	AL	0004	Not in a city	9494 EXPERIMENTAL LOOP
2	01	AL	1009	Not in a city	1801 BRUCE SHAW ROAD
3	01	AL	0037	Not in a city	TVA WIDOWS CRK 25 4.52 MI SSW WDCK
4	01	AL	9000	Not in a city	Sipsy Wilderness
5	01	AL	2003	Not in a city	SPUR OIL BLAKELY ISLAND
6	01	AL	1009	Not in a city	HAMILTON BLVD HOLLINGERS ISLAND
7	01	AL	0012	Not in a city	WATER WORKS RD & BAYOU LA BATRE GR
8	01	AL	0001	Not in a city	MOULTON HIGH SCHOOL, COLLEGE STRE
9	01	AL	0035	Not in a city	2.65 MI NNE OF WIDOWS CREEK
10	01	AL	0027	Not in a city	5.4 MI NNW OF WIDOWS CREEK STEAM PL
11	01	AL	0044	Not in a city	TVA COLBERT 14 3.98 MI SE COLBERT
12	01	AL	0010	Not in a city	0.6 MI ENE OF OACD
13	01	AL	0002	Not in a city	0.7 MI WNW OF OACD
14	01	AL	0002	Not in a city	437 COUNTY ROAD 8, CLIO, ALABAMA
15	01	AL	1001	Not in a city	CORPS OF ENGINEERS BLDG HOLT LOCK
16	01	AL	0002	Not in a city	SUMTER CO., KINTERBISH STATE WILDLIF
17	01	AL	0001	Not in a city	WYLS US HWY #11
18	01	AL	0006	Not in a city	PELHAM HIGH SCHOOL
19	01	AL	3001	Not in a city	CITY HALL CITRONELLE
20	01	AL	2002	Not in a city	RADAR STATION BAY FRONT RD MOBILE
21	01	AL	1016	Not in a city	COLONIAL OAKS CIRCLE N FOREST HILLS
22	01	AL	1015	Not in a city	BALTIMORE PARK OAKDALE
23	01	AL	1014	Not in a city	COMMUNITY HOUSE WHISTLER

Selected Items:

State Abbr

State Code

Site ID

City Name

Street Address

All Sites All Sites 2

Add items to worksheet - Right mouse menu

Improved Interactivity: Layout

The screenshot displays a software application window with a menu bar (File, Edit, View, Format, Tools, Help) and a toolbar. The main area contains a worksheet with a table of site data. A red arrow points from a 'Click and Drag' callout to the 'State Abbr' column header. The sidebar on the left shows 'Available Items' and 'Selected Items' lists.

Available Items:

- Sampling Methodologies
- Screening Groups
- Sites V
 - Tr
 - St
 - County Code
 - County Name
 - Site ID
 - Status Indicator
 - StateCountySite

Selected Items:

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

Worksheet Data:

	State Code	State Abbr	Site ID	City Name	Street Address
1	01	AL	3004	Not in a city	9494 EXPERIMENTAL LOOP
2	01	AL	0009	Not in a city	1801 BRUCE SHAW ROAD
3	01	AL	0037	Not in a city	TVA WIDOWS CRK 25 4.52 MI SSW WDCK
4	01	AL	0000	Not in a city	Sipsy Wilderness
5	01	AL	0003	Not in a city	SPUR OIL BLAKELY ISLAND
6	01	AL	1009	Not in a city	HAMILTON BLVD HOLLINGERS ISLAND
7	01	AL	0012	Not in a city	WATER WORKS RD & BAYOU LA BATRE GF
8	01	AL	0001	Not in a city	MOULTON HIGH SCHOOL, COLLEGE STRE
9	01	AL	0035	Not in a city	2.65 MI NNE OF WIDOWS CREEK
10	01	AL	0027	Not in a city	5.4 MI NNW OF WIDOWS CREEK STEAM PL
11	01	AL	0044	Not in a city	TVA COLBERT 14__ 3.98 MI SE COLBERT
12	01	AL	0010	Not in a city	0.6 MI ENE OF OACD
13	01	AL	0002	Not in a city	0.7 MI WNW OF OACD
14	01	AL	0002	Not in a city	437 COUNTY ROAD 8, CLIO, ALABAMA
15	01	AL	1001	Not in a city	CORPS OF ENGINEERS BLDG HOLT LOCK
16	01	AL	0002	Not in a city	SUMTER CO., KINTERBISH STATE WILDLIF
17	01	AL	0001	Not in a city	WYLS US HWY #11
18	01	AL	0006	Not in a city	PELHAM HIGH SCHOOL
19	01	AL	3001	Not in a city	CITY HALL CITRONELLE
20	01	AL	2002	Not in a city	RADAR STATION BAY FRONT RD MOBILE
21	01	AL	1016	Not in a city	COLONIAL OAKS CIRCLE N FOREST HILLS
22	01	AL	1015	Not in a city	BALTIMORE PARK OAKDALE
23	01	AL	1014	Not in a city	COMMUNITY HOUSE WHISTLER

Add items to worksheet - Click and drag

Improved Interactivity: Layout

Available Items:

Items: Conditions Calculations

List: AQS basic

Right Click

Add to Worksheet

Remove from Worksheet

	State Code	State Abbr	County Name	Site ID	City Name	Street Address
1	01	AL	Clarke	0001	Not in a city	CLARKE STREET (GROVE HILL
2	01	AL	Clarke	0002	Not in a city	GROVE HILL MEMORIAL HOSPI
3	01	AL	Baldwin	0001	Not in a city	CHANDLER RESIDENCE FT MC
4	01	AL	Baldwin	0002	Not in a city	COR PENNSYLVANIA & CHICAO
5	01	AL	Baldwin	0003	Not in a city	RACINE AND MICHIGAN ST, RO
6	01	AL	Tuscaloosa	1001	Not in a city	CORPS OF ENGINEERS BLDG
7	01	AL	Shelby	0002	Not in a city	MILDRED ST CO HEALTH DEPT
8	01	AL	Shelby	0003	Not in a city	152ND ARMORY BLDG, 8TH AV
9	01	AL	Shelby	0006	Not in a city	PELHAM HIGH SCHOOL
10	01	AL	Morgan	0009	Not in a city	RT 1 BOX 93-B FINLEY ISLAND
11	01	AL	Morgan	2001	Not in a city	WOODALL ROAD
12	01	AL	Mobile	0013	Not in a city	AXIS DEAD LK RD MIM'S RESID
13	01	AL	Mobile	0018	Not in a city	INTERSTATE SURVEILLANCE P
14	01	AL	Mobile	0019	Not in a city	WKRG RADIO STA OLD TELEGI
15	01	AL	Mobile	0021	Not in a city	THEODORE GAS CO HWY 90
16	01	AL	Mobile	0024	Not in a city	SALCO-CAIN'S SERVICE STATI
17	01	AL	Mobile	0025	Not in a city	THEODORE INDUSTRIAL PARK
18	01	AL	Mobile	0027	Not in a city	PHILLIP'S RESIDENCE, LAURE
19	01	AL	Mobile	1004	Not in a city	AIRPORT BLVD BATES FIELD
20	01	AL	Mobile	1005	Not in a city	OLD SHELL RD & FOREST HIL
21	01	AL	Mobile	1007	Not in a city	EARL ST CHURCH MAGAZINE P
22	01	AL	Mobile	1008	Not in a city	AMMUNITION DUMP THEOD

Selected Items:

State Abbr

State Code

Site ID

City Name

Street Address

County Name

All Sites All Sites 2

County Name has now been added to the table.

Remove item from Worksheet (Method 1)

Improved Interactivity: Layout

File Edit View Format Tools Help

Arial 12 B I U

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:

Right Click

Name: State Code
Folder: Sites V

	State Code	State Abbr	County Name	Site ID	City Name	Street Address
1	01	AL	Clarke	0001	Not in a city	CLARKE STREET (GROVE HILL
2	01	AL	Clarke	0002	Not in a city	GROVE HILL MEMORIAL HOSPI
3	01	AL	Baldwin	0001	Not in a city	CHANDLER RESIDENCE FT MC
4	01	AL	Baldwin	0002	Not in a city	COR PENNSYLVANIA & CHICAO
5	01	AL	Baldwin	0003	Not in a city	RACINE AND MICHIGAN ST, RO
6	01	AL	Tuscaloosa	1001	Not in a city	CORPS OF ENGINEERS BLDG
7	01	AL	Shelby	0002	Not in a city	MILDRED ST CO HEALTH DEPT
8	01	AL	Shelby	0003	Not in a city	152ND ARMORY BLDG, 8TH AV
9	01	AL	Shelby	0006	Not in a city	PELHAM HIGH SCHOOL
10	01	AL	Morgan	0009	Not in a city	RT 1 BOX 93-B FINLEY ISLAND
11	01	AL	Morgan	2001	Not in a city	WOODALL ROAD
12	01	AL	Mobile	0013	Not in a city	AXIS DEAD LK RD MIM'S RESID
13	01	AL	Mobile	0018	Not in a city	INTERSTATE SURVEILLANCE F
14	01	AL	Mobile	0019	Not in a city	WKRG RADIO STA OLD TELEGI
15	01	AL	Mobile	0021	Not in a city	THEODORE GAS CO HWY 90
16	01	AL	Mobile	0024	Not in a city	SALCO-CAIN'S SERVICE STATI
17	01	AL	Mobile	0025	Not in a city	THEODORE INDUSTRIAL PARK
18	01	AL	Mobile	0027	Not in a city	PHILLIP'S RESIDENCE, LAURE
19	01	AL	Mobile	1004	Not in a city	AIRPORT BLVD BATES FIELD
20	01	AL	Mobile	1005	Not in a city	OLD SHELL RD & FOREST HIL
21	01	AL	Mobile	1007	Not in a city	EARL ST CHURCH MAGAZINE F
22	01	AL	Mobile	1008	Not in a city	AMMUNITION DUMP THEOD

All Sites All Sites 2

Remove item from Worksheet (2)

Improved Interactivity: Layout

The screenshot shows a software interface with a menu bar (File, Edit, View, Format, Tools, Help) and a toolbar. Below the toolbar is a text area with the font 'Arial' and various formatting icons. A table is displayed with columns: State Code, State Abbr, Site ID, City Name, and Street Address. A right-click context menu is open over the 'State Code' column header. The menu options are: Copy, Remove from Worksheet (highlighted in blue), Move To, Format Data..., Format Heading..., Edit Heading..., Format Table..., Conditional Formats..., Column Width..., Column Auto Size (checked), Group Sort, Sort Low To High, Sort High To Low, Drill..., and Manage Links....

	State Code	State Abbr	Site ID	City Name	Street Address
1	01			Not in a city	9494 EXPERIMENTAL LOOP
2	01			Not in a city	1801 BRUCE SHAW ROAD
3	01			Not in a city	TVA WIDOWS CRK 25 4.52
4	01			Not in a city	Sipsy Wilderness
5	01			Not in a city	SPUR OIL BLAKELY ISLAND
6	01			Not in a city	HAMILTON BLVD HOLLINGER
7	01			Not in a city	WATER WORKS RD & BAYO
8	01			Not in a city	MOULTON HIGH SCHOOL, CO
9	01			Not in a city	2.65 MI NNE OF WIDOWS CR
10	01			Not in a city	5.4 MI NNW OF WIDOWS CR
11	01			Not in a city	TVA COLBERT 14___3.98 MI
12	01			Not in a city	0.6 MI ENE OF OACD
13	01			Not in a city	0.7 MI WNW OF OACD
14	01			Not in a city	437 COUNTY ROAD 8, CLIO,
15	01			Not in a city	CORPS OF ENGINEERS BLD
16	01			Not in a city	SUMTER CO., KINTERBISH S
17	01			Not in a city	WYLS US HWY #11
18	01	AL	0006	Not in a city	PELHAM HIGH SCHOOL
19	01	AL	3001	Not in a city	CITY HALL CITRONELLE

Remove item from Worksheet (3 & 4)

If view doesn't include Available/Selected Items panes:

**Right click on column header and Remove item from Worksheet,
or Click column header and press Delete key**

Improved Interactivity: Layout

File Edit View Format Tools Help

Arial 12 B i U

Available Items:

Items Conditions Calculations

List: AQS basic

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

Selected Items:

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

	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 43
3	AL	Baldwin	0001	Not in a city	CHANDLER RESIDENCE FT MORGAN STA
4	AL	Baldwin	0002	Not in a city	COR PENNSYLVANIA & CHICAGO (ROBER
5	AL	Baldwin	0003	Not in a city	RACINE AND MICHIGAN ST, ROBERTSDAL
6	AL	Tuscaloosa	1001	Not in a city	CORPS OF ENGINEERS BLDG HOLT LOCK
7	AL	Shelby	0002	Not in a city	MILDRED ST CO HEALTH DEPT
8	AL	Shelby	0003	Not in a city	152ND ARMORY BLDG, 8TH AVE AT 13TH S
9	AL	Shelby	0006	Not in a city	PELHAM HIGH SCHOOL
10	AL	Morgan	0009	Not in a city	RT 1 BOX 93-B FINLEY ISLAND ROAD
11	AL	Morgan	2001	Not in a city	WOODALL ROAD
12	AL	Mobile	0013	Not in a city	AXIS DEAD LK RD MIM'S RESIDENCE
13	AL	Mobile	0018	Not in a city	INTERSTATE SURVEILLANCE PROJECT M
14	AL	Mobile	0019	Not in a city	WKRG RADIO STA OLD TELEGRAPH RD (M
15	AL	Mobile	0021	Not in a city	THEODORE GAS CO HWY 90
16	AL	Mobile	0024	Not in a city	SALCO-CAIN'S SERVICE STATION
17	AL	Mobile	0025	Not in a city	THEODORE INDUSTRIAL PARK BIG SNIFF
18	AL	Mobile	0027	Not in a city	PHILLIP'S RESIDENCE, LAURENDINE ROA
19	AL	Mobile	1004	Not in a city	AIRPORT BLVD BATES FIELD
20	AL	Mobile	1005	Not in a city	OLD SHELL RD & FOREST HILL RD MOBIL
21	AL	Mobile	1007	Not in a city	EARL ST CHURCH MAGAZINE POINT
22	AL	Mobile	1008	Not in a city	AMMUNITION DUMP THEODORE
23	AL	Mobile	1010	Not in a city	TATUMS SERVICE STATION BAYLEYS COR

All Sites All Sites 2

Results after moving State Abbr to front,
adding County Name, and removing State Code

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 - method 1

Improved Interactivity: Pivoting

Worksheet Wizard - Step 3 of 5: Table Layout

Worksheet Layout | Select Items | **Table Layout** | Sort | Parameters

To change the layout of information in your worksheet, click and drag the column headings to the location you want. To change format settings, click the 'Properties...' button.

☒ Show Page Items ☐ Hide Duplicate Rows

Page Items:

	County Name	Site ID	City Name	Street Address
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				

Help Properties... Show SQL... OK Cancel

Make State Abbr a page item - method 1a

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 (checked), 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' (both highlighted).

Available Items:

- Sampling Methodologies
- Screening Groups
- Sites V
 - Tribal Code
 - State Code
 - County Code
 - County Name

Selected Items:

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

Right Click

Move To

Column Header

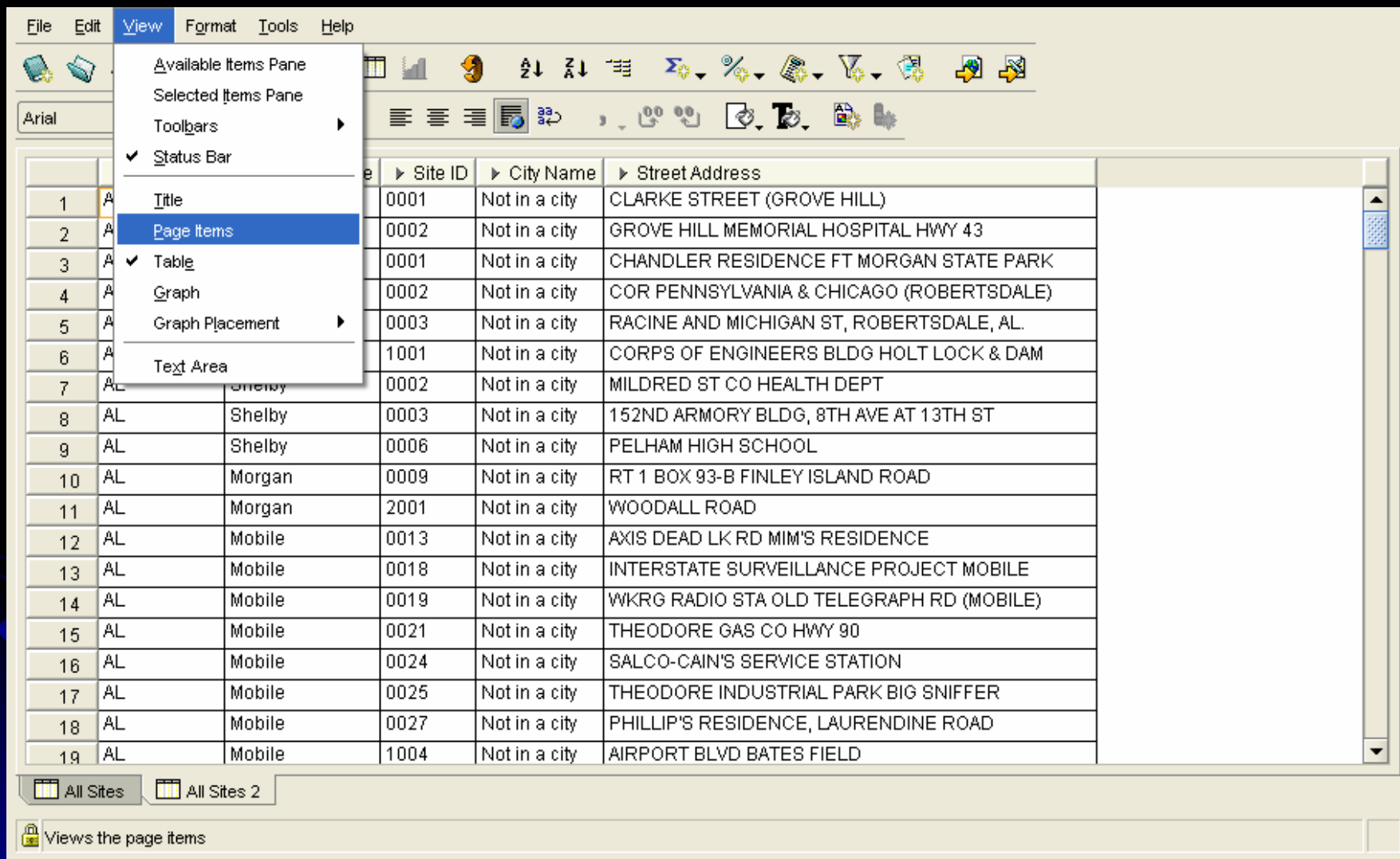
Page Items

	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	PHILLIP'S RESIDENCE, LAURENDINE RO

All Sites All Sites 2

Make State Abbr a page item - method 2

Improved Interactivity: Pivoting



The screenshot shows a software application window with a menu bar (File, Edit, View, Format, Tools, Help) and a toolbar. The 'View' menu is open, displaying options: Available Items Pane, Selected Items Pane, Toolbars, Status Bar (checked), Title, Page Items (highlighted), Table (checked), Graph, Graph Placement, and Text Area. Below the menu, a table displays site data. The table has columns for Site ID, City Name, and Street Address. The data rows are numbered 1 through 19. At the bottom of the window, there are two tabs: 'All Sites' and 'All Sites 2'. A status bar at the bottom indicates 'Views the page items'.

	Site ID	City Name	Street Address
1	0001	Not in a city	CLARKE STREET (GROVE HILL)
2	0002	Not in a city	GROVE HILL MEMORIAL HOSPITAL HWY 43
3	0001	Not in a city	CHANDLER RESIDENCE FT MORGAN STATE PARK
4	0002	Not in a city	COR PENNSYLVANIA & CHICAGO (ROBERTSDALE)
5	0003	Not in a city	RACINE AND MICHIGAN ST, ROBERTSDALE, AL.
6	1001	Not in a city	CORPS OF ENGINEERS BLDG HOLT LOCK & DAM
7	0002	Not in a city	MILDRED ST CO HEALTH DEPT
8	0003	Not in a city	152ND ARMORY BLDG, 8TH AVE AT 13TH ST
9	0006	Not in a city	PELHAM HIGH SCHOOL
10	0009	Not in a city	RT 1 BOX 93-B FINLEY ISLAND ROAD
11	2001	Not in a city	WOODALL ROAD
12	0013	Not in a city	AXIS DEAD LK RD MIM'S RESIDENCE
13	0018	Not in a city	INTERSTATE SURVEILLANCE PROJECT MOBILE
14	0019	Not in a city	WKRG RADIO STA OLD TELEGRAPH RD (MOBILE)
15	0021	Not in a city	THEODORE GAS CO HWY 90
16	0024	Not in a city	SALCO-CAIN'S SERVICE STATION
17	0025	Not in a city	THEODORE INDUSTRIAL PARK BIG SNIFFER
18	0027	Not in a city	PHILLIP'S RESIDENCE, LAURENDINE ROAD
19	1004	Not in a city	AIRPORT BLVD BATES FIELD

Make State Abbr a page item - method 3

Improved Interactivity: Pivoting

File Edit View Format Tools Help

Arial 12 B i U

Page Items:

	▶ 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 43
3	AL	Baldwin	0001	Not in a city	CHANDLER RESIDENCE FT MORGAN STATE PARK
4	AL	Baldwin	0002	Not in a city	COR PENNSYLVANIA & CHICAGO (ROBERTSDALE)
5	AL	Baldwin	0003	Not in a city	RACINE AND MICHIGAN ST, ROBERTSDALE, AL.
6	AL	Tuscaloosa	1001	Not in a city	CORPS OF ENGINEERS BLDG HOLT LOCK & DAM
7	AL	Shelby	0002	Not in a city	MILDRED ST CO HEALTH DEPT
8	AL	Shelby	0003	Not in a city	152ND ARMORY BLDG, 8TH AVE AT 13TH ST
9	AL	Shelby	0006	Not in a city	PELHAM HIGH SCHOOL
10	AL	Morgan	0009	Not in a city	RT 1 BOX 93-B FINLEY ISLAND ROAD
11	AL	Morgan	2001	Not in a city	WOODALL ROAD
12	AL	Mobile	0013	Not in a city	AXIS DEAD LK RD MIM'S RESIDENCE
13	AL	Mobile	0018	Not in a city	INTERSTATE SURVEILLANCE PROJECT MOBILE
14	AL	Mobile	0019	Not in a city	WKRG RADIO STA OLD TELEGRAPH RD (MOBILE)
15	AL	Mobile	0021	Not in a city	THEODORE GAS CO HWY 90
16	AL	Mobile	0024	Not in a city	SALCO-CAIN'S SERVICE STATION
17	AL	Mobile	0025	Not in a city	THEODORE INDUSTRIAL PARK BIG SNIFFER

All Sites All Sites 2

Improved Interactivity: Pivoting

The screenshot shows a web application interface with a menu bar (File, Edit, View, Format, Tools, Help) and a toolbar. Below the toolbar is a 'Page Items' section with a dropdown menu set to 'State Abbr: AK'. A table with 17 rows and 5 columns is displayed. The columns are County Name, Site ID, City Name, and Street. The data in the table is as follows:

	County Name	Site ID	City Name	Street
1	Anchorage	0001	Anchorage	6TH AVE
2	Anchorage	0002	Anchorage	GR ANCH
3	Anchorage	0003	Anchorage	527 E 4TH
4	Anchorage	0005	Anchorage	CITY FIRE
5	Anchorage	0006	Anchorage	MULDOO
6	Anchorage	0007	Anchorage	BOROUGH
7	Anchorage	0009	Anchorage	TUDOR #
8	Anchorage	0010	Anchorage	HIDEAWAY
9	Anchorage	0012	Anchorage	CITY FIRE
10	Anchorage	0013	Anchorage	7TH & C/8
11	Anchorage	0015	Anchorage	1300 E &
12	Anchorage	0016	Anchorage	OLD COM
13	Anchorage	0017	Anchorage	SPENARD
14	Anchorage	0018	Anchorage	TRINITY C
15	Anchorage	0019	Anchorage	1/4 MILE S
16	Anchorage	0020	Anchorage	1045 WES
17	Anchorage	0021	Anchorage	SAND LA

A 'Choose Value' dialog box is open, showing a list of US state abbreviations from AK to MT. The 'OK' and 'Cancel' buttons are at the bottom.

Result - There is a page with the data for each State

Improved Interface: Conditions and Calculations

File Edit View Format Tools Help

Arial 12 B i U

Available Items:

Items Conditions Calculations

List:

- All Items
- All Items
- Selected Items
- State Abbr
- County Name
- Site ID
- City Name
- Street Address

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
1	Anchorage	0001	Anchorage	6TH AVE & K ST
2	Anchorage	0002	Anchorage	GR ANCHORAGE AREA HLTH DEPT 217 E ST
3	Anchorage	0003	Anchorage	527 E 4TH AVE
4	Anchorage	0005	Anchorage	CITY FIRE STATION/7TH & C ST
5	Anchorage	0006	Anchorage	MULDOON 109 NORTH BOUNDARY ROAD
6	Anchorage	0007	Anchorage	BOROUGH DOG POUND 3600 EAST TUDOR ROAD
7	Anchorage	0009	Anchorage	TUDOR #1 - 3500 EAST TUDOR ROAD
8	Anchorage	0010	Anchorage	HIDEAWAY TRAILS
9	Anchorage	0012	Anchorage	CITY FIRE STATION 7TH & C STREET
10	Anchorage	0013	Anchorage	7TH & C/625 C ST
11	Anchorage	0015	Anchorage	1300 E & 4TH AVE
12	Anchorage	0016	Anchorage	OLD COMMUNITY HOSPITAL 825 L STREET
13	Anchorage	0017	Anchorage	SPENARD & BENSON/2902 SPENARD RD
14	Anchorage	0018	Anchorage	TRINITY CHRISTIAN CHURCH/3000 E 16TH
15	Anchorage	0019	Anchorage	1/4 MILE S OILWELL RD & 3/4 MILE MULDOON
16	Anchorage	0020	Anchorage	1045 WEST 8TH STREET

All Sites All Sites 2

Create new Condition

Improved Interface: Conditions and Calculations

The screenshot displays a software application with a menu bar (File, Edit, View, Format, Tools, Help) and a toolbar. A 'New Condition' dialog box is open, prompting the user to name and describe the condition. The 'Name' field contains '(State Abbr = 'NC')' and the 'Generate name automatically' checkbox is checked. The 'Description' field is empty. Below the description is a 'Formula' section with instructions: 'Type text in single quotes or select a value from the drop-down list. Multiple values must be separated by commas.' The formula table has three columns: 'Item', 'Condition', and 'Values'. The first row shows 'States.State Abbr' as the item, '=' as the condition, and a dropdown menu for 'Values' which is currently set to 'NC'. A list of state abbreviations (MN, MO, MS, MT, MX, NC, ND, NE) is shown in a dropdown menu, with 'NC' selected. The 'Case-sensitive' checkbox is checked. At the bottom of the dialog, it says 'This condition is located in the workbook '2007 Ne...'. Buttons for 'Help', 'OK', and 'Cancel' are present. In the background, a list of street addresses is visible, including 'EPT 217 E ST', 'ARY ROAD', 'AST TUDOR ROAD', 'ROAD', 'REET', 'L STREET', 'NARD RD', '000 E 16TH', and 'LE MULDOON'. A tree view on the left shows 'Selected Items' with 'State Abbr' and 'County Name' selected.

File Edit View Format Tools Help

Available Items:

Items Conditions Ca

List: All Items

My Conditions

Selected Items:

State Abbr

County Name

Site ID

City Name

Street Address

New Condition

What would you like to name your condition?

(State Abbr = 'NC')

Generate name automatically

What description would you like to give your condition?

Formula

Type text in single quotes or select a value from the drop-down list. Multiple values must be separated by commas.

Item	Condition	Values
States.State Abbr	=	'NC'

Case-sensitive

This condition is located in the workbook '2007 Ne...

Help OK Cancel

Advanced >>

MIN

MO

MS

MT

MX

NC

ND

NE

EPT 217 E ST

ARY ROAD

AST TUDOR ROAD

ROAD

REET

L STREET

NARD RD

000 E 16TH

LE MULDOON

All Sites

All Sites 2

Setting condition using LOV

Improved Interface: Conditions and Calculations

File Edit View Format Tools Help

Arial 12 B I U

Available Items:

Items Conditions Calculations

List: All Items

My Conditions

State Abbr = 'NC'

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 & HOBDALE RD

All Sites All Sites 2 All Sites 3

Result of condition

Improved Interface: Conditions and Calculations

File Edit View Format Tools Help

Arial 12 B i U

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

Improved Interface: Conditions and Calculations

The screenshot displays a software application window with a menu bar (File, Edit, View, Format, Tools, Help) and a toolbar. The interface is divided into several sections:

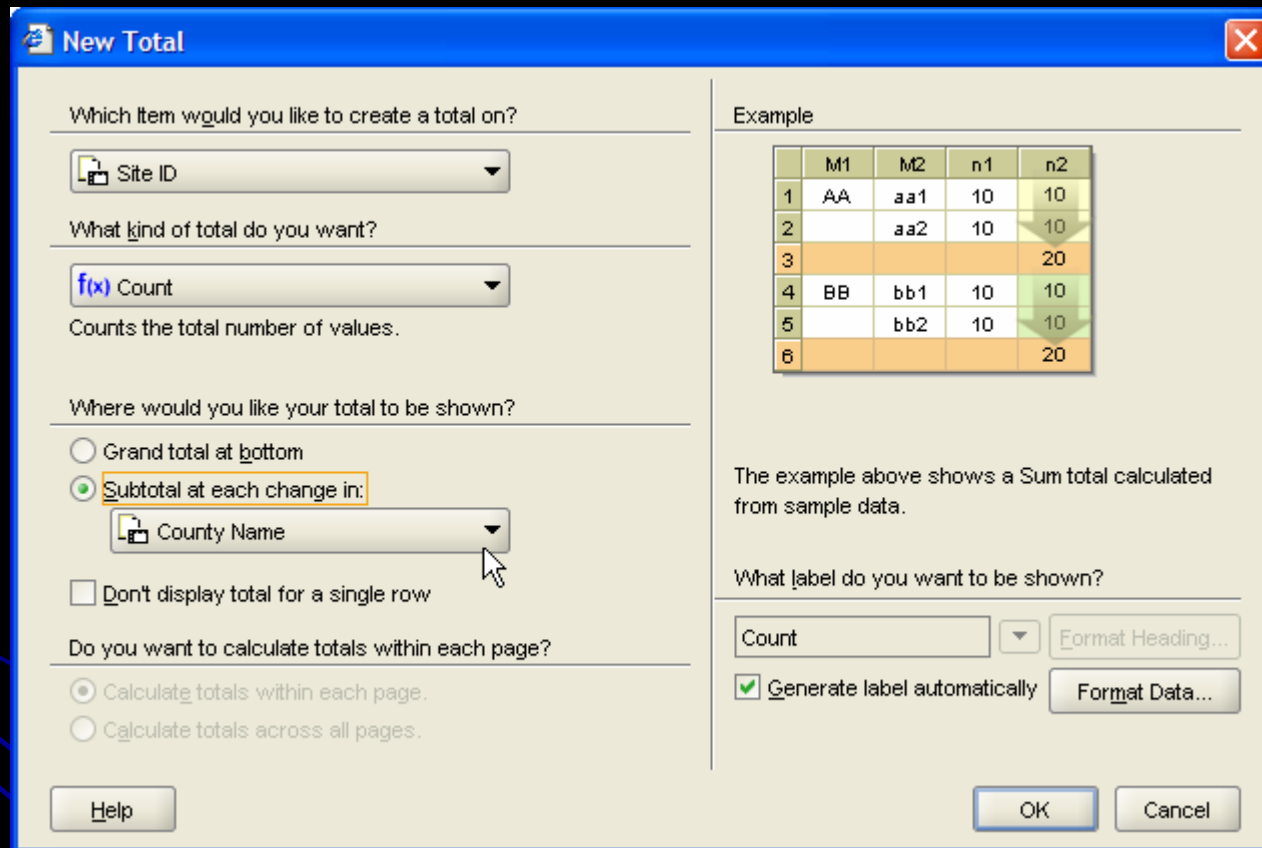
- Available Items:** A section on the left with tabs for 'Items', 'Conditions', and 'Calculations'. The 'Calculations' tab is active, showing a list of items including 'My Calculations', 'My Percentages', 'My Totals', and a 'New Total...' button.
- Selected Items:** A section below 'Available Items' showing a list of selected items: 'State Abbr', 'County Name', 'Site ID', 'City Name', 'Street Address', and 'State Abbr = 'NC''.
- Page Items:** A dropdown menu showing 'State Abbr: NC'.
- Data Table:** A table with 5 columns: 'County Name', 'Site ID', 'City Name', and 'Street Address'. The table contains 15 rows of data, with the first row highlighted in yellow.

	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 & HOBDALE RD

At the bottom of the window, there are three tabs labeled 'All Sites', 'All Sites 2', and 'All Sites 3'.

How many sites in each county?

Improved Interface: Conditions and Calculations



New Total

Which item would you like to create a total on?

Site ID

What kind of total do you want?

f(x) Count

Counts the total number of values.

Where would you like your total to be shown?

☐ Grand total at bottom

☒ Subtotal at each change in:

County Name

☐ Don't display total for a single row

Do you want to calculate totals within each page?

☒ Calculate totals within each page.

☐ Calculate totals across all pages.

Help

Example

	M1	M2	n1	n2
1	AA	aa1	10	10
2		aa2	10	10
3				20
4	BB	bb1	10	10
5		bb2	10	10
6				20

The example above shows a Sum total calculated from sample data.

What label do you want to be shown?

Count

Format Heading...

☒ Generate label automatically

Format Data...

OK Cancel

How many sites in each county?

Improved Interface: Conditions and Calculations

File Edit View Format Tools Help

Available Items:

Items Conditions Calculations

List: Site ID

- My Calculations
- My Percentages
- My Totals
- County Name Count for Site ID

Selected Items:

- State Abbr
- County Name
- Site ID
- City Name
- Street Address
- County Name Count for Site ID

Page Items: State Abbr: NC

	County Name	Site ID	City Name	Street Address
1	Alamance	1001	Graham	CITY HALL 201 S MAIN ST
2		0002	Burlington	827 S GRAHAM & HOPEDALE RD
3		0001	Burlington	1136 E.WEBB AVE.BURLINGTON,N.C.
4		Count: 3		
5	Alexander	0001	Not in a city	MAIN AVE DRIVE TAYLORSVILLE
6		0003	Not in a city	324 MINNIGAN LANE, TAYLORSVILLE
7		0004	Not in a city	106 WAGGIN' TRAIL, TAYLORSVILLE
8		Count: 3		
9	Alleghany	0001	Not in a city	NO SITE ADDRESS
10		Count: 1		
11	Ashe	0001	Not in a city	FIRE DEPT WEST JEFFERSON
12		Count: 1		
13	Avery	0001	Not in a city	7510 BLUE RIDGE PARKWAY SPUR
14		0002	Not in a city	7510 BLUE RIDGE PARKWAY SPUR
15		8001	Not in a city	ROARING CREEK RD., PISGAH N.F.
16		Count: 3		

All Sites All Sites 2 All Sites 3

Results: How many sites in each county?

Improved Interface: Creating a Crosstab

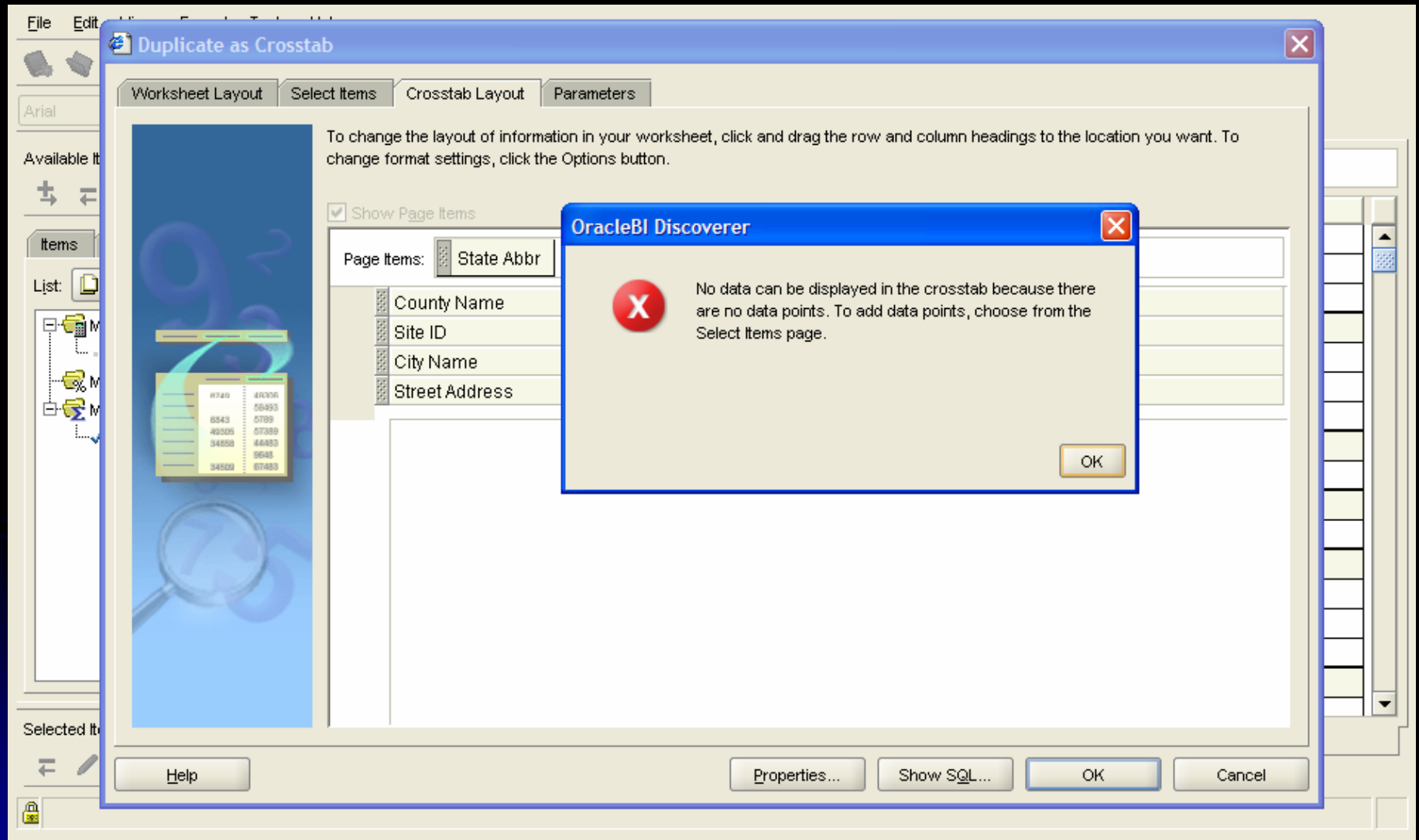
The screenshot shows a software application with a menu bar (File, Edit, View, Format, Tools, Help) and a toolbar. The 'Edit' menu is open, showing options like Undo, Copy, Delete, Select All, and Duplicate Worksheet. The 'Duplicate Worksheet' option is selected, and a sub-menu is displayed with 'As Table' and 'As Crosstab' options. The 'As Crosstab' option is highlighted.

The main window displays a table of site data. The table has columns for County Name, Site ID, City Name, and Street Address. The data is organized by county, with rows for each site. The status bar at the bottom indicates the current view is 'Mecklenburg Co NC 8-hr Ozone' and 'NC Sites by County- crosstab'.

	County Name	Site ID	City Name	Street Address
1	Alamance	0002	Burlington	827 S GRAHAM & HOPEDALE RD
2		1001	Graham	CITY HALL 201 S MAIN ST
3		0001	Burlington	1136 E.WEBB AVE.BURLINGTON,N.C.
4		Count: 3		
5	Alexander	0004	Not in a city	106 WAGGIN' TRAIL, TAYLORSVILLE
6		0003	Not in a city	324 MINNIGAN LANE, TAYLORSVILLE
7		0001	Not in a city	MAIN AVE DRIVE TAYLORSVILLE
8		Count: 3		
9	Alleghany	0001	Not in a city	NO SITE ADDRESS
10		Count: 1		
		0001	Not in a city	FIRE DEPT WEST JEFFERSON
		Count: 1		
13	Avery	0002	Not in a city	7510 BLUE RIDGE PARKWAY SPUR
14		8001	Not in a city	ROARING CREEK RD., PISGAH N.F.
15		0001	Not in a city	7510 BLUE RIDGE PARKWAY SPUR
16		Count: 3		
17	Beaufort	0002	Not in a city	SR 1933
18		0001	Not in a city	PLATFORM SERVICE RD 1/60 GAYLORDS BAY
19		0006	Not in a city	NC 306 @ PCS ENTRANCE
20		0099	Not in a city	GUM POINT ROAD
21		0150	Not in a city	POBOX 48 AURORA NC HWY 306 SOUTH SIDE
22		0151	Not in a city	POBOX 48 AURORA NC HWY 306 NORTH SIDE
23		0003	Not in a city	NC HIGHWAY 306
24		1003	Washington	400 E.THIRD ST.WASH.,N.C.
25		1002	Washington	NO. MARKET ST.
26		1001	Washington	FIRE STATION 5TH & MARKET STS
27		0005	Washington	SLATESTONE ROAD (NEAR WATER TOWER)
28		0004	Not in a city	SOUTH FERRY LANDING PAMLICO RIVER
29		Count: 12		
30	Bertie	0001	Not in a city	US 17 S BY-PASS WINDSOR
31		Count: 1		
32	Brunswick	0004	Not in a city	STATE ROAD 1163
33		0003	Not in a city	LINCOLN SCHOOL (LELAND)
34		0002	Not in a city	LELAND VOLUNTEER FIRE DEPT
35		0001	Not in a city	COUNTY SCH BLDG US 74 & 76 W LELAND
36		Count: 4		
37	Buncombe	0011	Not in a city	BELL SCHOOL
38		0012	Not in a city	TRANTHAMS FOOD STORE
39		0013	Not in a city	LUTHERIDGE

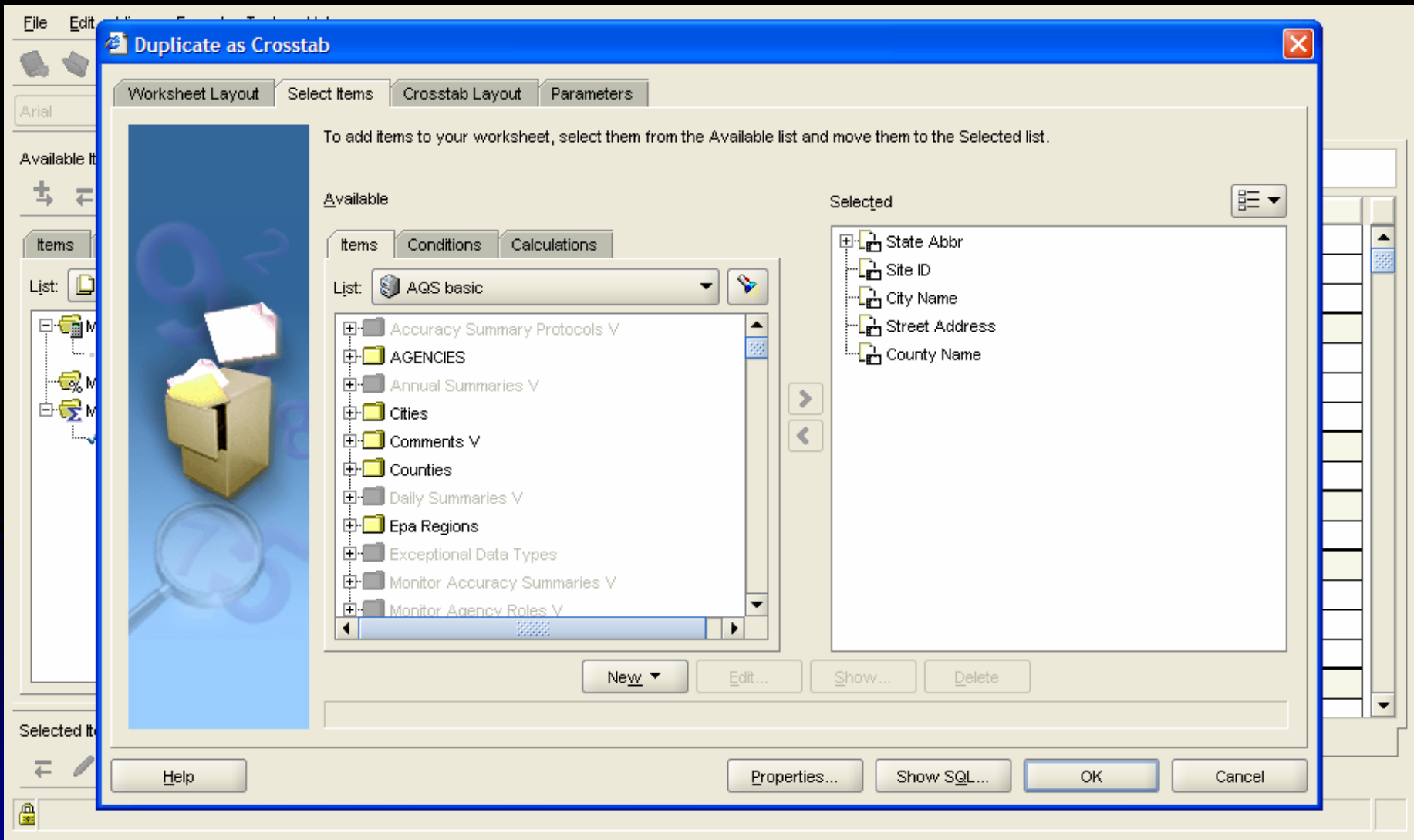
The status bar at the bottom shows the following tabs: All Sites, All Sites 2, NC Sites by County, Mecklenburg Co NC 8-hr Ozone, NC Sites by County- crosstab, and Sheet 6. The 'NC Sites by County- crosstab' tab is currently selected.

Improved Interface: Creating a Crosstab



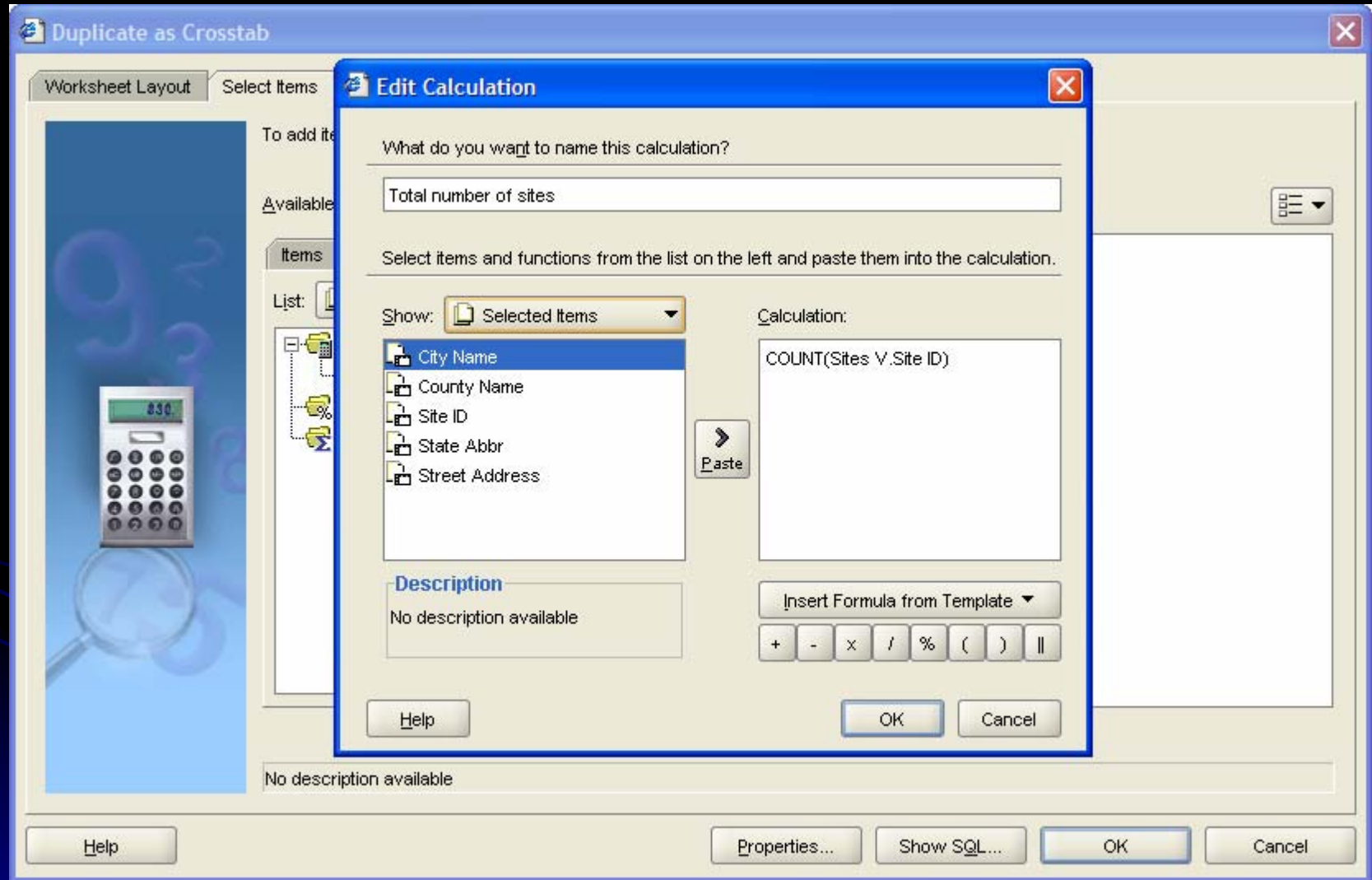
OK

Improved Interface: Creating a Crosstab

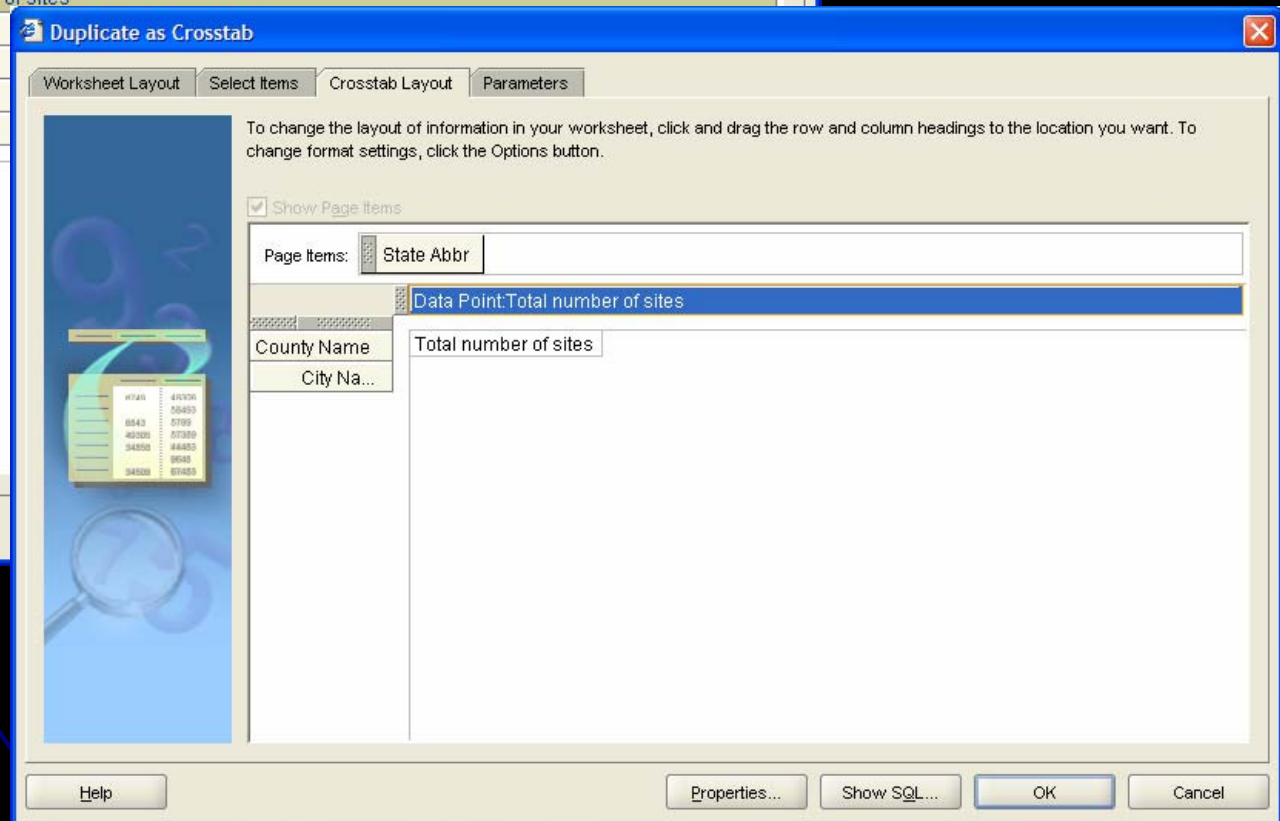
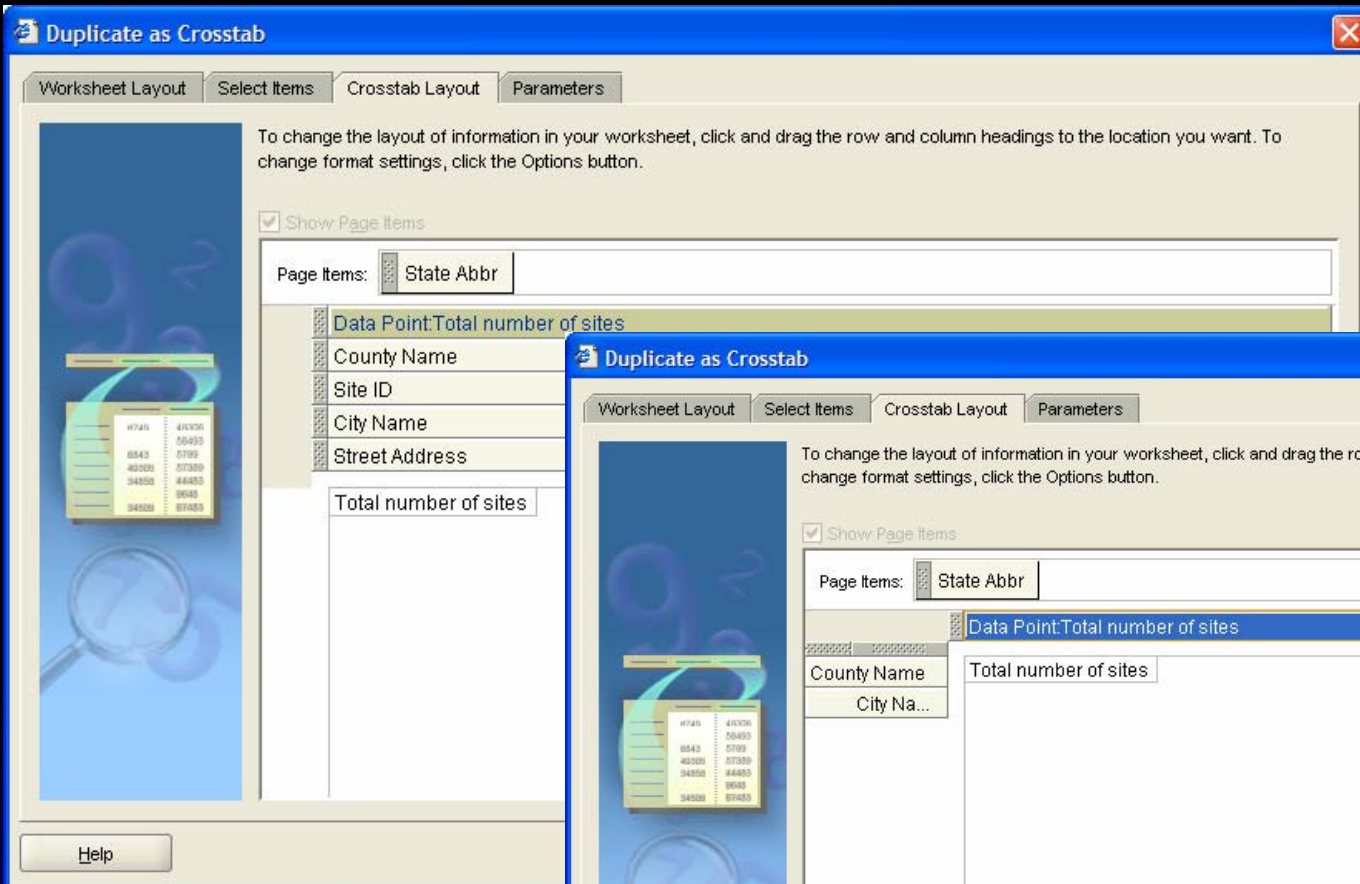


What happened to the Total Count of Sites?

Improved Interface: Creating a Crosstab



Improved Interface: Creating a Crosstab



Improved Interface: Creating a Crosstab

File Edit View Format Tools Help

Available Items:

Items Conditions Calculations

List: All Items

- My Calculations
 - Total number of sites
- My Percentages
- My Totals

Page Items: State Abbr: NC

	Total number of sites
▶ Alamance	3
▶ Burlington	2
▶ Graham	1
▶ Alexander	3
▶ Not in a city	3
▶ Alleghany	1
▶ Not in a city	1
▶ Ashe	1
▶ Not in a city	1
▶ Avery	3
▶ Not in a city	3
▶ Beaufort	12
▶ Not in a city	8
▶ Washington	4
▶ Bertie	1
▶ Not in a city	1
▶ Brunswick	4
▶ Not in a city	4
▶ Buncombe	37

Selected Items:

Mecklenburg Co NC 8-hr Ozone All Sites All Sites 2 NC Sites by County Sheet 6 NC Sites by County 2

Result (Formatted count to drop decimals.)

Improved Interface: Creating a Crosstab

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
- Monitor Collocation Periods V

Selected Items:

Page Items: State Abbr: NC

	Total number of sites
▶ Alamance	3
▶ Burlington	2
▶ Graham	1
▶ Alexander	3
▶ Not in a city	3
▶ Alleghany	1
▶ Not in a city	1
▶ Ashe	
▶ Not in a city	
▶ Avery	
▶ Not in a city	
▶ Beaufort	
▶ Not in a city	
▶ Washington	
▶ Bertie	
▶ Not in a city	1
▶ Brunswick	4
▶ Not in a city	4
▶ Buncombe	37

Copy

Format Data...

Format Crosstab...

Conditional Formats...

Drill...

Manage Links...

All Sites All Sites 2 NC Sites by County

Mecklenburg Co NC 8-hr Ozone NC Sites by County- crosstab Sheet 6 NC Sites by County 2

Improved Interface: Creating a Crosstab

Worksheet Properties

General Crosstab Format Aggregation

Crosstab headers

☐ Show item labels ☒ Show heading gridlines

Crosstab style: **Outline** ☐ 3D heading gridlines

Crosstab data area

☒ Show vertical gridlines ☒ Show horizontal gridlines Gridline color:

Sheet content

Show null values as: -

Example

Crosstab

	Column1	Column2
Row1	105	170
Row1,1	51	32
Row1,2	10	65
Row1,3	44	73

Page Items: State Abbr: NC

		Total number of sites
▶ Alamance	▶ Burlington	2
	▶ Graham	1
▶ Alexander	▶ Not in a city	3
▶ Alleghany	▶ Not in a city	1
▶ Ashe	▶ Not in a city	1
▶ Avery	▶ Not in a city	3
▶ Beaufort	▶ Not in a city	8
	▶ Washington	4
▶ Bertie	▶ Not in a city	1
▶ Brunswick	▶ Not in a city	4

Inline

Page Items: State Abbr: NC

		Total number of sites
▶ Alamance		3
▶ Burlington		2
▶ Graham		1
▶ Alexander		3
▶ Not in a city		3
▶ Alleghany		1
▶ Not in a city		1
▶ Ashe		1
▶ Not in a city		1
▶ Avery		3
▶ Not in a city		3

Outline

Counting with Tables or Crosstabs

The screenshot shows a software interface with a menu bar (File, Edit, View, Format, Tools, Help) and a toolbar. On the left, under 'Available Items', there is a list of items including 'County Name', 'Site ID', 'COUNT', 'MIN', 'MAX', 'Status Indicator', 'StateCountySite', 'TribeSite', 'Latitude', 'Longitude', 'UTM Zone', and 'UTM Easting'. The 'COUNT' item is highlighted. On the right, there is a table with the following data:

	Total number of sites	Site ID COUNT
▶ Alamance	3	3
▶ Burlington	2	2
▶ Graham	1	1
▶ Alexander	3	3
▶ Not in a city	3	3
▶ Alleghany	1	1
▶ Not in a city	1	1
▶ Ashe	1	1
▶ Not in a city	1	1
▶ Avery	3	3
▶ Not in a city	3	3
▶ Beaufort	12	12
▶ Not in a city	8	8
▶ Washington	4	4
▶ Bertie	1	1
▶ Not in a city	1	1
▶ Brunswick	4	4
▶ Not in a city	4	4
▶ Buncombe	37	37

At the bottom, there are buttons for 'All Sites', 'All Sites 2', 'Mecklenburg Co NC 8-hr Ozone', and 'NC Sites by County- crosstab'. A red arrow points from the 'COUNT' item in the list to the 'Site ID COUNT' header in the table.

Be aware that it's not always necessary to use Totals or Calculations for a Count.

Improved Interface: Conditions and Calculations

File Edit View Format Tools Help

Arial 12 B i U

Available Items:

Items Conditions Calculations

List: All Items

My Conditions

- State Abbr = 'NC'
- "Summary Year (Annual)" = 2006
- Parameter Code = '44201' AND Duration Code

Selected Items:

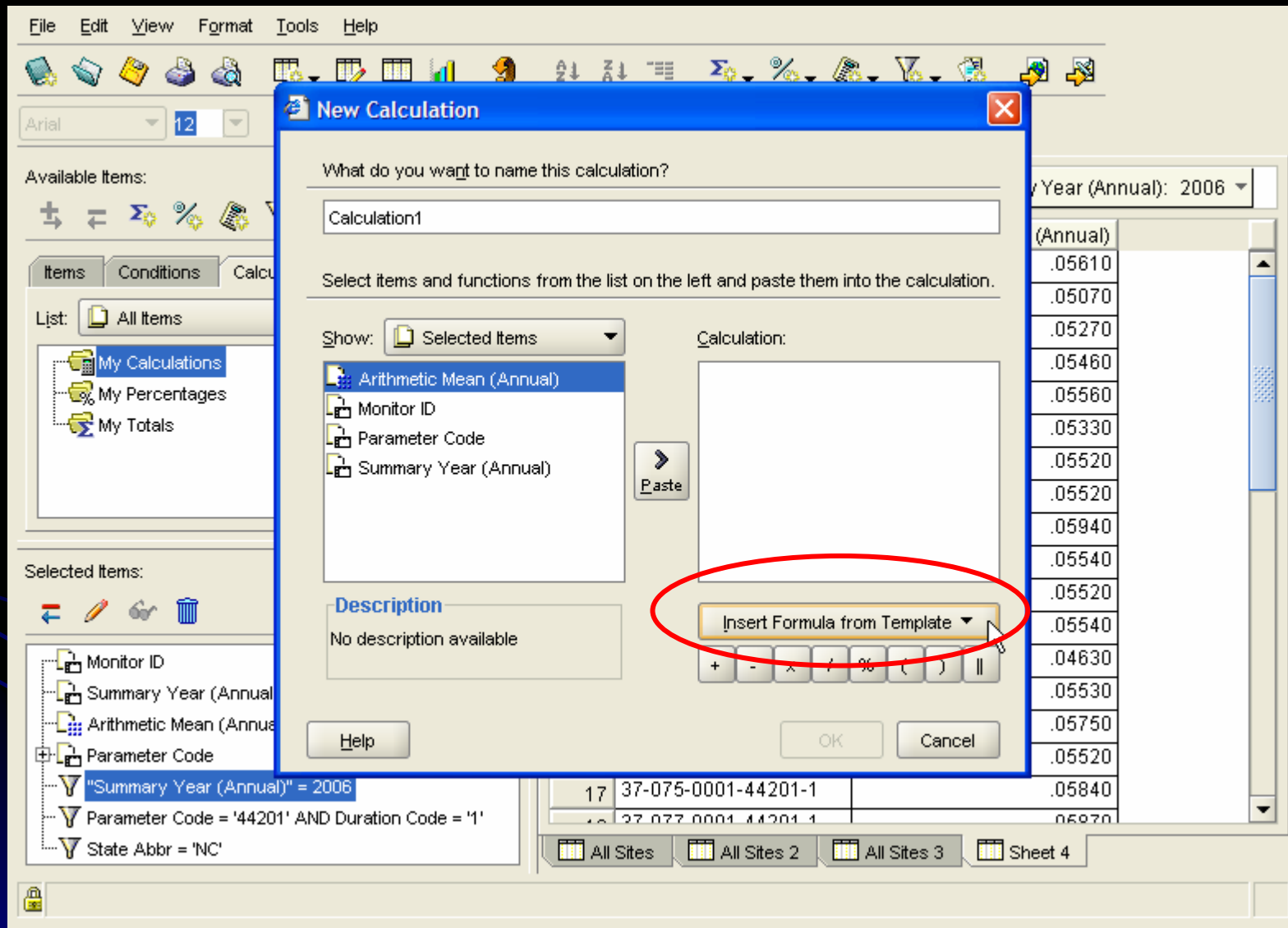
- Monitor ID
- Summary Year (Annual)
- Arithmetic Mean (Annual)
- Parameter Code
- "Summary Year (Annual)" = 2006
- Parameter Code = '44201' AND Duration Code = '1'
- State Abbr = 'NC'

Page Items: Parameter Code: 44201 Summary Year (Annual): 2006

	Monitor ID	Arithmetic Mean (Annual)
1	37-003-0004-44201-1	.05610
2	37-011-0002-44201-1	.05070
3	37-021-0030-44201-1	.05270
4	37-027-0003-44201-1	.05460
5	37-033-0001-44201-1	.05560
6	37-037-0004-44201-1	.05330
7	37-051-0008-44201-1	.05520
8	37-051-1003-44201-1	.05520
9	37-059-0002-44201-1	.05940
10	37-063-0013-44201-1	.05540
11	37-065-0099-44201-1	.05520
12	37-067-0022-44201-1	.05540
13	37-067-0028-44201-1	.04630
14	37-067-0030-44201-1	.05530
15	37-067-1008-44201-1	.05750
16	37-069-0001-44201-1	.05520
17	37-075-0001-44201-1	.05840
18	37-077-0001-44201-1	.05970

All Sites All Sites 2 All Sites 3 Sheet 4

Improved Interface: Conditions and Calculations



Improved Interface: Conditions and 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)

Description: No description available

Help

Available Items:

- My Calculations
- My Percentages
- My Totals

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'

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

Summary Year (Annual): 2006

(Annual)
.05610
.05070
.05270
.05460
.05560
.05330
.05520
.05520
.05940
.05540
.05520
.05540
.04630
.05530
.05750
.05520
.05840
.05970

17 37-075-0001-44201-1

All Sites All Sites 2 All Sites 3 Sheet 4

Improved Interface: Conditions and Calculations

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

Available Items:

Items Conditions

List: All Items

My Calculations

My Percentages

My Totals

Selected Items:

Monitor ID

Summary Year (Annual)

Arithmetic Mean (Annual)

Parameter Code

Summary Year (Annual)

Parameter Code =

State Abbr = 'NC'

Summary Year (Annual): 2006

610

070

270

460

560

330

520

520

940

540

520

540

630

530

750

520

840

970

Improved Interface: Conditions and Calculations

File Edit View Format Tools Help

Arial 12 B i U

Available Items:

Items Conditions Calculations

List: All Items

- My Calculations
 - Rank
- My Percentages
- My Totals

Selected Items:

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

Page Items: Parameter Code: 44201 Summary Year (Annual): 2006

	Monitor ID	Arithmetic Mean (Annual)	Rank
1	37-003-0004-44201-1	.05610	23
2	37-011-0002-44201-1	.05070	3
3	37-021-0030-44201-1	.05270	5
4	37-027-0003-44201-1	.05460	10
5	37-033-0001-44201-1	.05560	21
6	37-037-0004-44201-1	.05330	8
7	37-051-0008-44201-1	.05520	12
8	37-051-1003-44201-1	.05520	12
9	37-059-0002-44201-1	.05940	34
10	37-063-0013-44201-1	.05540	17
11	37-065-0099-44201-1	.05520	12
12	37-067-0022-44201-1	.05540	17
13	37-067-0028-44201-1	.04630	1
14	37-067-0030-44201-1	.05530	16
15	37-067-1008-44201-1	.05750	29
16	37-069-0001-44201-1	.05520	12
17	37-075-0001-44201-1	.05840	31
18	37-077-0001-44201-1	.05970	32

All Sites All Sites 2 All Sites 3 NC ozone monitors ranked for 2006

Suggested Exercise 2: Improved Interactivity and Interface

1. Connect to the aqspod database.
2. Open BOS.New Features Ex 2 (worksheet 'All Sites') or 'All Tribal Sites' ñ do NOT run it.

- ☐ Save the workbook under your userid

There are several ways to do the next steps. Try more than one to get familiar with the improved flexibility.

- ☐ Add a condition for your state/tribal code. You may need to refresh to see your data.

(Note to tribes : If you have less than about 20 sites, please pick another tribe or use a state. You will not be able to see the functionality of the remaining steps if there are not enough sites in your results.)

- ☐ Improve the layout. Move State Abbr or Tribal Desc to front; delete the Zip Code; add a new column ñ Date Site Established

- ☐ Pivot the State Abbr or Tribal Desc to page item.

- ☐ Rename this worksheet (e.g., Sites w page) Save your changes. (Do not close the workbook.)

3. Create a Total for the number of sites within your state/tribe.

- ☐ Convert your worksheet (Sites w page) to a crosstab.

- ☐ Create a new calculation for the number of sites in each state/tribe

- ☐ Rename this worksheet (e.g., Sites w crosstab) and save your workbook.

Your workbook should have 2 worksheets ñ one table (with the page item) and one crosstab.

Improved Sorting and Formatting

File Edit View Format Tools Help

Arial 12 B i U

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 Abbr: AK

	County Name	Site ID	City Name	Street Address
38	Anchorage	0022	Anchorage	ANCHORAGE TIMES BLDG-620 W. 4TH STREET
39	Anchorage	0023	Anchorage	ANCHORAGE CITY HALL - 4TH STREET
40	Northwest Arctic	9000	Not in a city	Ambler
41	Fairbanks North S	0007	Not in a city	FAIRBANKS INTL AIRPORT (FAIRBANKS)
42	Fairbanks North S	0008	Not in a city	UNIV PARK SCHOOL UNIV AVE (FAIRBANKS)
43	Fairbanks North S	0030	Not in a city	POKER FLAT RESEARCH RANGE NE OF FAIRBANK
44	Fairbanks North S	0099	Not in a city	ROOF OF AERS BLDG. COLLEGE, ALASKA 99701
45	Fairbanks North S	1009	Not in a city	NORTHPOLE HIGH SCHOOL OFF SIXTH AVENUE
46	Fairbanks North S	0004	Not in a city	N O & A A SITE 11/4 MI GRENAC ROAD
47	Fairbanks North S	0005	Not in a city	NORTH POLE ELEMENTARY SCHOOL (NORTHPOLE)
48	Fairbanks North S	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

All Sites All Sites 2

Before sorting

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 include: Copy, Remove from Worksheet, Move To, Format Data..., Format Heading..., Edit Heading..., Format Table..., Conditional Formats..., Column Width..., Column Auto Size (checked), 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			DOOF 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

1 - Sort using Right Mouse Menu

Improved Sorting and Formatting

File Edit View Format Tools Help

Available Items:

- 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:

Group Sort

Page Items: State Abbr: AK

	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

All Sites All Sites 2

2 - Sort using One Button Group Sort

Improved Sorting and Formatting

File Edit View Format Tools Help

Available Items:

- Accuracy Summary
- AGENCIES
- Annual Summaries V
- Cities
- Comments V

Selected Items:

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

Tools Menu:

- Drill ...
- Collapse
- Manage Links ...
- Sort...** (Sorts data)
- Conditional Calculations...
- Percentages...
- Totals...
- Parameters...
- Parameter Values...
- Refresh Sheet
- ✓ Auto Refresh
- Retrieve All Rows
- Show SQL...
- Manage Workbooks...
- Manage Schedules...
- Options...

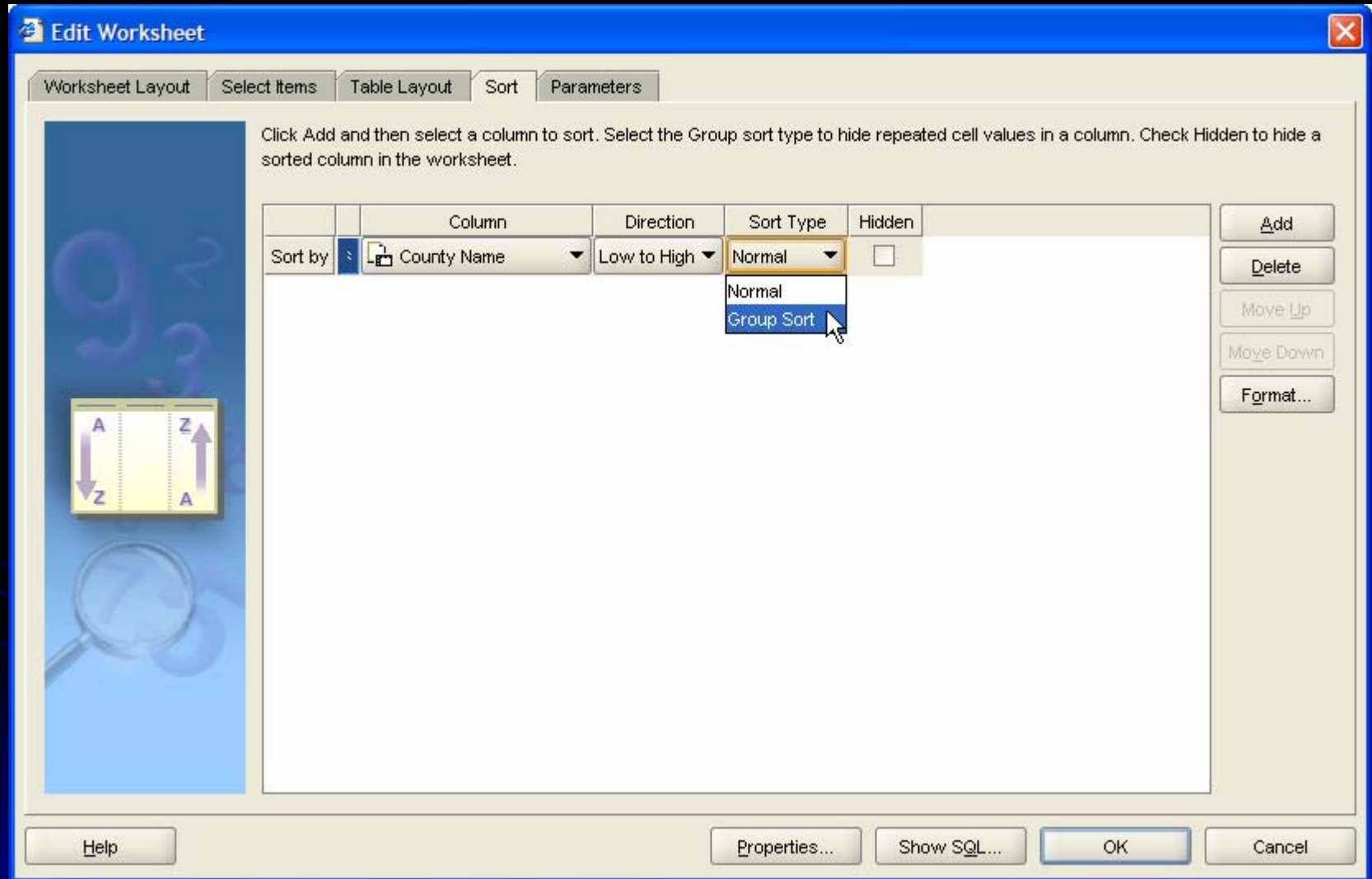
State Abbr: AK

County Name	Site ID	City Name	Street Address
Wrangell Petersburg	0001	Not in a city	FED AVIATION AGENCY REMOTE RECEIVER SITE
Wrangell Petersburg	0002	Not in a city	WILLIAM KREPPS RESIDENCE
Northwest Arctic	9000	Not in a city	Ambler
Fairbanks North Star	0007	Not in a city	FAIRBANKS INTL AIRPORT (FAIRBANKS)
Fairbanks North Star	0008	Not in a city	UNIV PARK SCHOOL UNIV AVE (FAIRBANKS)
Fairbanks North Star	0030	Not in a city	POKER FLAT RESEARCH RANGE NE OF FAIRBANKS
Fairbanks North Star	0099	Not in a city	ROOF OF AERS BLDG. COLLEGE, ALASKA 99701
Fairbanks North Star	1009	Not in a city	NORTHPOLE HIGH SCHOOL OFF SIXTH AVENUE
Fairbanks North Star	0004	Not in a city	N O & A A SITE 11/4 MI GRENAC ROAD
Fairbanks North Star	0005	Not in a city	NORTH POLE ELEMENTARY SCHOOL (NORTHPOLE)
Fairbanks North Star	1001	Not in a city	NORTH POLE WATER TREATMENT PLANT
Anchorage	0033	Not in a city	18001 BARONOF ST, EAGLE RIVER
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

Sorts data

3 - Sort using Tools (Wizard)

Improved Sorting and Formatting



Sort using Wizard

Improved Sorting and Formatting

File Edit View Format Tools Help

Arial 12 B i U

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 Abbr: AK

	County Name	Site ID	City Name	Street Address
38		0022	Anchorage	ANCHORAGE TIMES BLDG-820 W. 4TH STREET
39		0019	Anchorage	1/4 MILE S OILWELL RD & 3/4 MILE MULDOON
40		0020	Anchorage	1045 WEST 8TH STREET
41		0021	Anchorage	SAND LAKE DISTICT/3426 RASPBERRY RD
42	Fairbanks North S	0022	Fairbanks	NOEL WIEN LIBRARY #2,COWLES & AIRPORT RD
43		0025	Fairbanks	HERTZ BLDG/AIRPORT WY & STACIA ST
44		0027	Fairbanks	WEST PARK/STEELHEAD RD AT DARTMOUTH
45		0001	Fairbanks	WOOLWORTH'S STORE 3RD & CUSHMAN
46		0002	Fairbanks	FEDERAL BLDG/2ND & CUSHMAN
47		0006	Fairbanks	HUNTER SCHOOL 16TH 17TH & GILLAM WAY
48		0021	Fairbanks	675 7TH AVE
49		0020	Fairbanks	HUNTER ELEM/17TH & GILLIAM WY
50		0019	Fairbanks	NOEL WEIN LIBRARY #1-COWLES & AIRPORT RD
51		0017	Fairbanks	NORDALE ELEMENTARY SCHOOL HAMILTON-EUREK
52		0016	Fairbanks	4TH AND LACEY (BOROUGH OFFICES)
53		0015	Fairbanks	NEW BOROUGH BLDG SITE #1 4TH & LACEY

All Sites All Sites 2

Group Sort - result

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

38 ANCHORAGE TIMES BLDG-820 W. 4TH STREET

39 1/4 MILE S OILWELL RD & 3/4 MILE MULDOON

40 1045 WEST 8TH STREET

41 SAND LAKE DISTICT/3426 RASPBERRY RD

42 Fairbanks NOEL WIEN LIBRARY #2,COWLES & AIRPORT RD

43 HERTZ BLDG/AIRPORT WY & STACIA ST

44 WEST PARK/STEELHEAD RD AT DARTMOUTH

45 WOOLWORTH'S STORE 3RD & CUSHMAN

46 FEDERAL BLDG/2ND & CUSHMAN

47 HUNTER SCHOOL 16TH 17TH & GILLAM WAY

48 675 7TH AVE

49 HUNTER ELEM/17TH & GILLIAM WY

50 NOEL WEIN LIBRARY #1-COWLES & AIRPORT RD

51 NORDALE ELEMENTARY SCHOOL HAMILTON-EUREK

52 4TH AND LACEY (BOROUGH OFFICES)

NEW BOROUGH BLDG SITE #1 4TH & LACEY

All Sites All Sites 2

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...

Formatting Data

Improved Sorting and Formatting

File Edit View Format Tools Help

Format Data

Format Text Breaks

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

Insert: ☒ Line 1

☐ Blank Row 1

☐ Page Break

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

ES BLDG-820 W. 4TH STREET

LL RD & 3/4 MILE MULDOON

STREET

CT/3426 RASPBERRY RD

ARY #2,COWLES & AIRPORT RD

PORT WY & STACIA ST

ELHEAD RD AT DARTMOUTH

STORE 3RD & CUSHMAN

END & CUSHMAN

L 16TH 17TH & GILLAM WAY

7TH & GILLIAM WY

ARY #1-COWLES & AIRPORT RD

ENTARY SCHOOL HAMILTON-EUREK

(BOROUGH OFFICES)

BLDG SITE #1 4TH & LACEY

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

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

ES BLDG-820 W. 4TH STREET

LL RD & 3/4 MILE MULDOON

STREET

CT/3426 RASPBERRY RD

ARY #2,COWLES & AIRPORT RD

PORT WY & STACIA ST

ELHEAD RD AT DARTMOUTH

STORE 3RD & CUSHMAN

END & CUSHMAN

L 16TH 17TH & GILLAM WAY

7TH & GILLIAM WY

ARY #1-COWLES & AIRPORT RD

ENTARY SCHOOL HAMILTON-EUREK

(BOROUGH OFFICES)

BLDG SITE #1 4TH & LACEY

Formatting Breaks

Improved Sorting and Formatting

File Edit View Format Tools Help

Arial 12 B i U

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

Example: Formatted Break
with additional sort on Site ID

Improved Sorting and Formatting – Conditional & Stoplight Formats

File Edit View Format Tools Help

Arial 12 B i U

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'
- ✓ "Arithmetic Mean (NAAQS)" >= 0.08
- ✓ 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 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: Mecklenburg

	Monitor ID	NAAQS Date/Time	Arithmetic Mean (NAAQS)
60	37-119-1009-44201-1	2005Jul25 13:00	.00000
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
78	37-119-0041-44201-1	2005Jul26 12:00	.10600
79	37-119-1005-44201-1	2005Jul26 12:00	.09700
80	37-119-0041-44201-1	2005Jul26 13:00	.10200
81	37-119-1005-44201-1	2005Jul26 13:00	.08800
82	37-119-1009-44201-1	2005Jul26 13:00	.10600

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

Example: Mecklenburg Co. NC NAAQS 8-hr Ozone

Improved Sorting and Formatting – Conditional & Stoplight Formats

File Edit View **Format** Tools Help

Heading...
Data...
Columns
Item Formats...
Conditional Formats...

Available Items:

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

Monitor ID NAAQS Date/Time Arithmetic Mean (NAAQS)

Conditional Formats

Select the conditional formats that you want to apply to the item. You can add new conditional formats or edit the existing ones.

List formats for: All Items

New Conditional Format...
New Stoplight Format...
Edit Format...
Delete Format
Edit Stoplight Colors...

Click New Conditional Format to create a new conditional format.

Description

Help OK Cancel

Monitor ID	NAAQS Date/Time	Arithmetic Mean (NAAQS)	County Name
		.08000	
		.09300	
		.08600	
		.08000	
		.08100	
		.09100	
		.09500	
		.08600	
		.09900	
		.09900	
		.10400	
		.10700	
		.10200	
		.11000	
		.11000	
		.10200	
		.11100	
		.11000	
		.10600	
		.09700	
		.10200	
		.08800	
		.10600	

Mecklenburg Co NC 8-hr Ozone

Improved Sorting and Formatting – Conditional & Stoplight Formats

Edit Stoplight Format

What would you like to name your stoplight format?

Mean (NAAQS) : ≥ 0.107 Unacceptable, ≤ 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: ≥ 0.107 0.08 - 0.107 ≤ 0.08

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

County Name: Mecklenburg

Monitor ID	State Code	Date/Time	Arithmetic Mean (NAAQS)
80	37-119-0041-44201-1	2005Jul26 13:00	.10200
81	37-119-1005-44201-1	2005Jul26 13:00	.08800
82	37-119-1009-44201-1	2005Jul26 13:00	.10600

Available 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:

- NAAQS Averages v
 - Monitor ID
 - NAAQS Date/Time
 - Arithmetic Mean (NAAQS)
- Sites V
 - County Name

Mecklenburg Co NC 8-hr Ozone

Improved Sorting and Formatting – Conditional & Stoplight Formats

The screenshot displays a software interface for data management. The main window shows a table of data with columns: Monitor ID, NAAQS Date/Time, and Arithmetic Mean (NAAQS). The data is filtered by Parameter Code: 44201, State Code: 37, and County Name: Mec. The 'Arithmetic Mean (NAAQS)' column is formatted with stoplights: green for values between 0.08000 and 0.09900, yellow for values between 0.09900 and 0.10200, and red for values above 0.10200. The side panels show the 'Available Items' and 'Selected Items' lists, with the 'My Conditions' list containing three conditions: 'Parameter Code = '44201' AND Duration Code = 'W'', 'State Code IN ('37')', and '"NAAQS Date/Time" BETWEEN '2005Apr01 00:00' AND '2005Oct01 00:00'.

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'

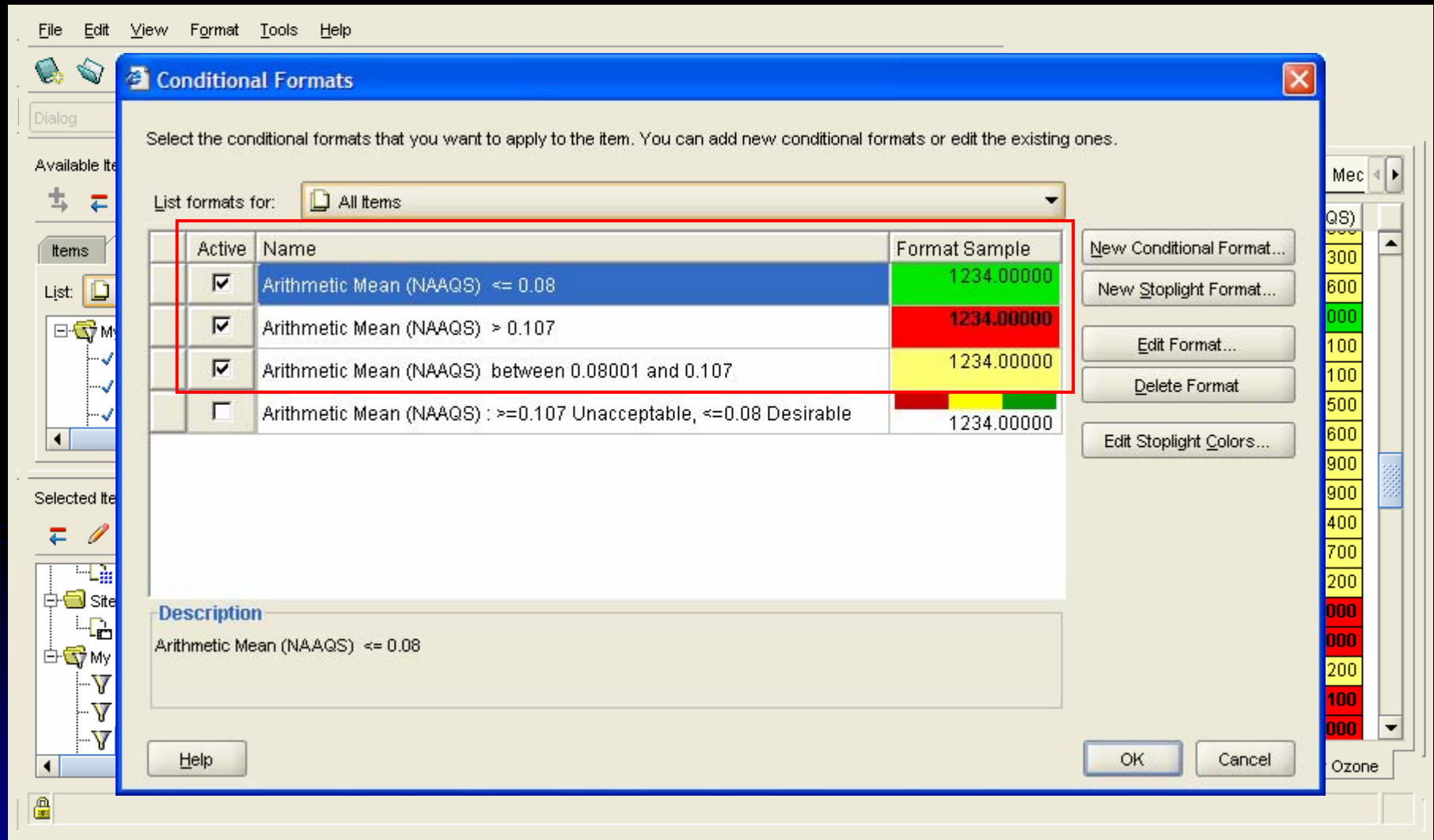
Page Items: Parameter Code: 44201 State Code: 37 County Name: Mec

	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 stoplights applied

Improved Sorting and Formatting – Conditional & Stoplight Formats



Similar view with conditional formatting requires 3 separate conditions

Improved Graph Features

The screenshot displays a software application window with a menu bar (File, Edit, View, Format, Tools, Help) and a toolbar. The 'View' menu is open, showing options like 'Available Items Pane', 'Selected Items Pane', 'Toolbars', 'Status Bar', 'Title', 'Page Items', 'Table', 'Graph' (highlighted), 'Graph Placement', and 'Text Area'. The 'Available Items' pane on the left shows a tree structure with 'My' conditions selected. The 'Selected Items' pane shows a list of items including 'Parameter Code', 'NAAQS Averages V', 'Monitor ID', 'NAAQS Date/Time', 'Arithmetic Mean (NAAQS)', 'Sites V', 'County Name', and 'My Conditions'. The main data table has columns for 'NAAQS Date/Time' and 'Arithmetic Mean (NAAQS)'. The table contains 29 rows of data, with some rows highlighted in green and others in yellow. The status bar at the bottom shows 'Views the graph'.

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

Views the graph

View/Graph

Improved Graph Features

File Edit View Format Tools Help

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:

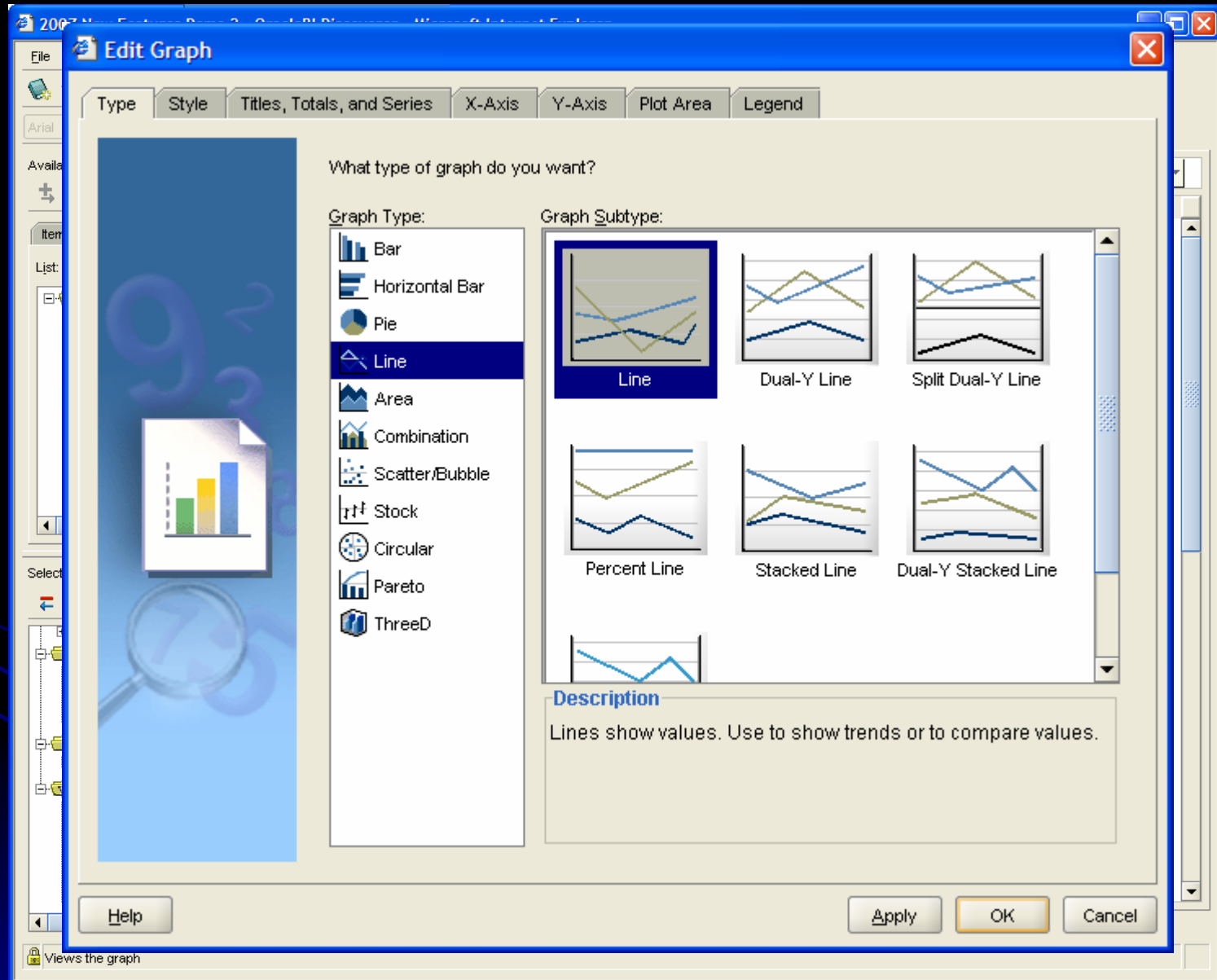
- Parameter Code
- NAAQS Averages V
 - Monitor ID
 - NAAQS Date/Time
 - Arithmetic Mean (NAAQS)
- Sites V
 - County Name
- My Conditions
 - Parameter Code = '44201' A
 - State Code IN ('37')
 - "NAAQS Date/Time" BETWEEN
 - "Arithmetic Mean (NAAQS)"
 - County Code = '119'

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 Graph Features



Some new and some different options

Improved Graph Features

The screenshot shows a software interface with a 'View' menu open. The 'Graph Placement' sub-menu is visible, showing options: 'Graph right of Table', 'Graph left of Table', 'Graph above Table', 'Graph below Table' (selected), and 'Separate Window'. The main window displays a table of NAAQS data and a line graph below it.

Table Data:

	NAAQS Date/Time	Arithmetic Mean (NAAQS)
1	2005Apr18 10:00	.08000
2	2005Apr18 11:00	.08300
		.08000
		.08000
		.08000
		.08500
		.08800
		.08700
9	2005May09 12:00	.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

Graph Data:

The graph shows the Arithmetic Mean (NAAQS) over time. The x-axis represents time from 2005Apr18 10:00 to 2005Sep10 11:00. The y-axis represents the Arithmetic Mean (NAAQS) from 0.00 to 0.12. The graph shows a fluctuating line representing the data.

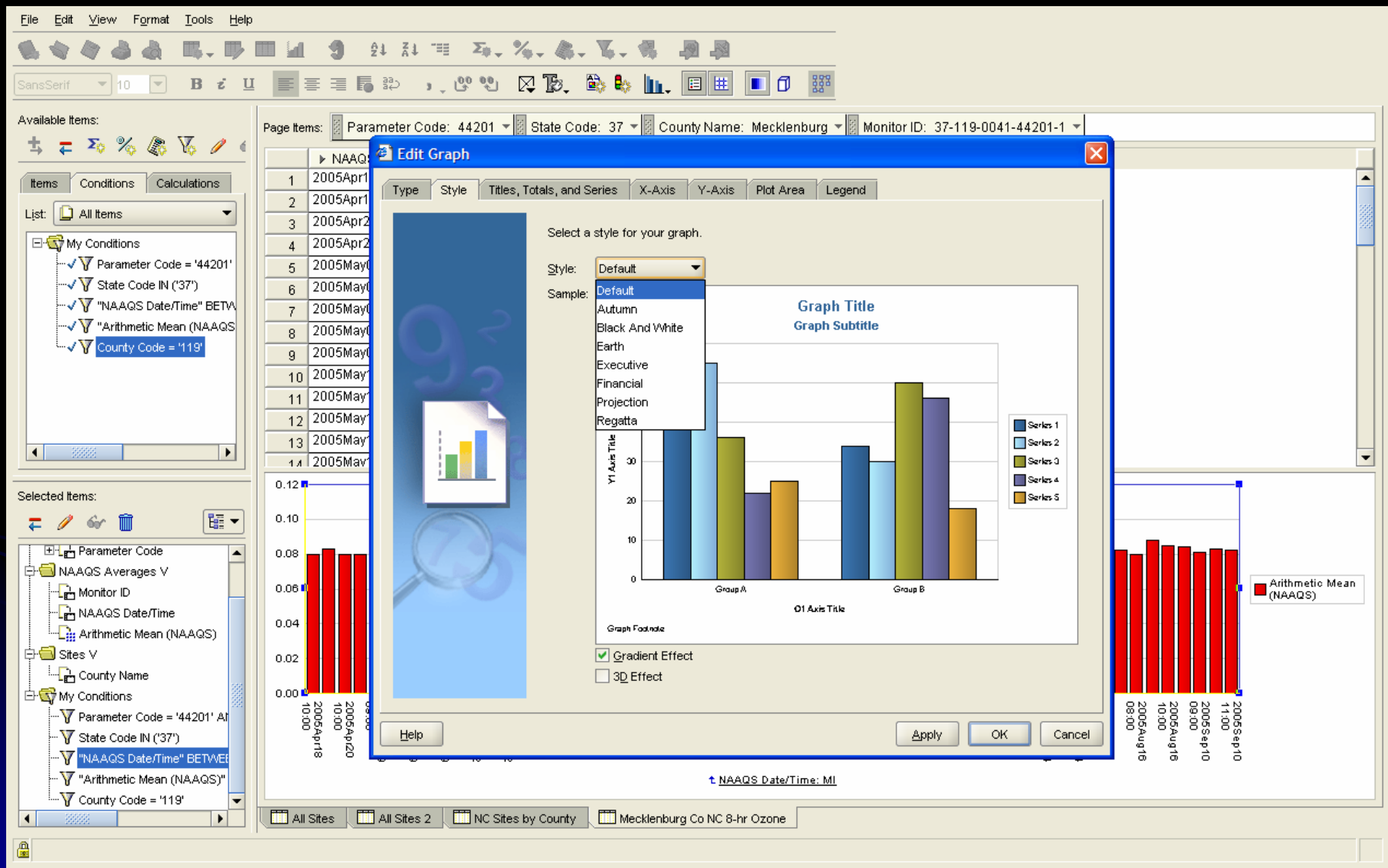
Selected Items:

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

Shows the graph below the table

Options for graph placement

Improved Graph Features



Styles offer pre-selected color combinations

Improved Graph Features

Edit Graph

Titles, Totals, and Series

Type text for your title, select totals, and select series.

☐ Show Title

Insert Title Font...

What would you like to display in your graph?

☒ Data only

☐ Totals only

☐ Both data and totals

☒ Show null values as zero

Graph series by :

☒ Columns ☐ Rows Pie Chart Options...

X-Axis : NAAQS Date/Time
Series : Arithmetic Mean (NAAQS)

Help Apply OK Cancel

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:

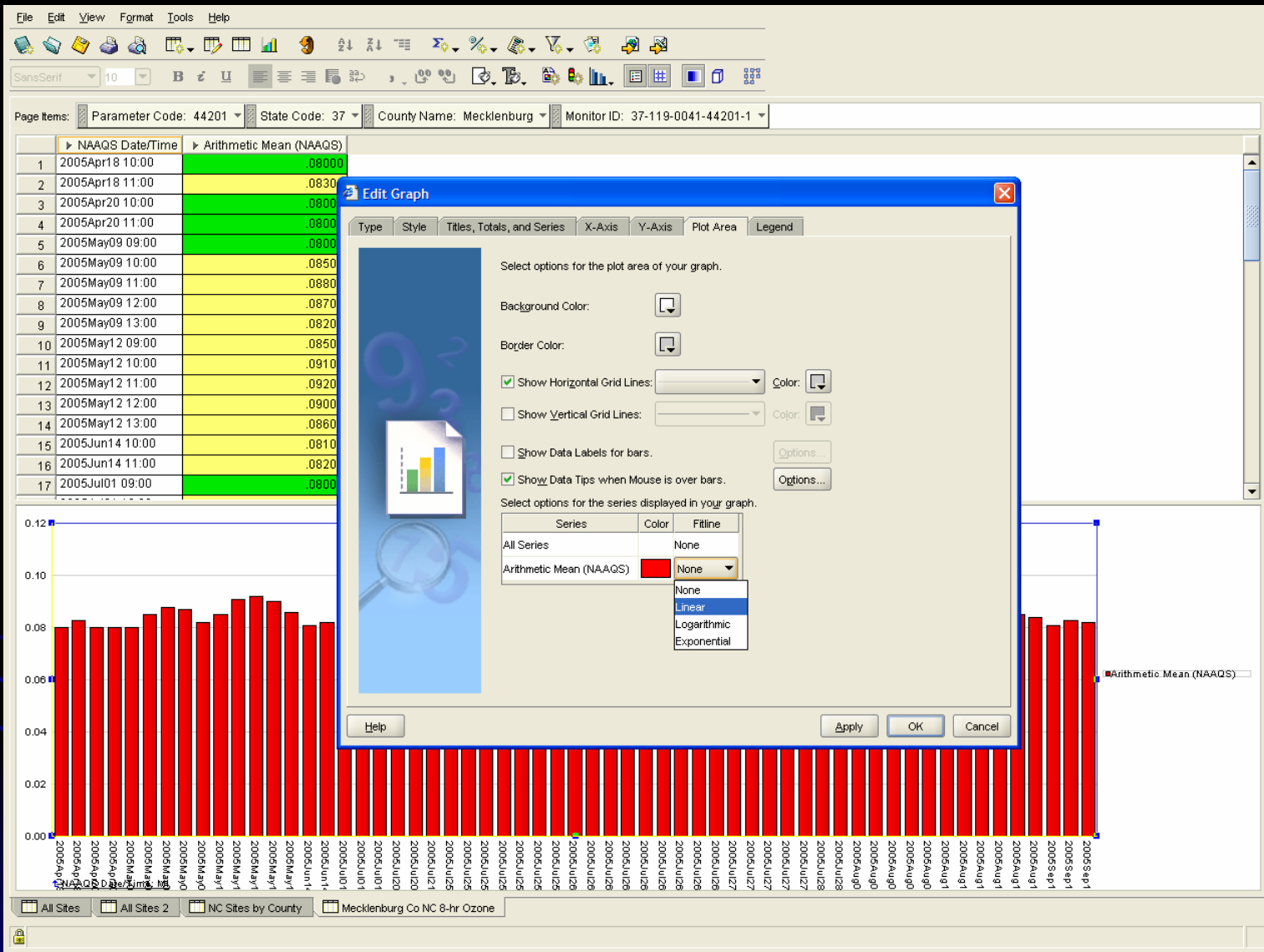
- Parameter Code
- NAAQS Averages V
- Monitor ID
- NAAQS Date/Time
- Arithmetic Mean (NAAQS)
- Sites V
- County Name
- My Conditions
- Parameter Code = '44201' Ar
- State Code IN ('37')
- "NAAQS Date/Time" BETWEEN
- Arithmetic Mean (NAAQS)
- County Code = '119'

Arithmetic Mean (NAAQS)

Date	Arithmetic Mean (NAAQS)
2005Aug18 10:00	1.100
2005Sep10 09:00	1.100
2005Sep10 11:00	1.100
2005Sep10 13:00	1.100
2005Sep10 15:00	1.100
2005Sep10 17:00	1.100
2005Sep10 19:00	1.100
2005Sep10 21:00	1.100
2005Sep10 23:00	1.100
2005Sep10 25:00	1.100
2005Sep10 27:00	1.100
2005Sep10 29:00	1.100
2005Sep10 31:00	1.100

Determine if nulls should show as zero or not.

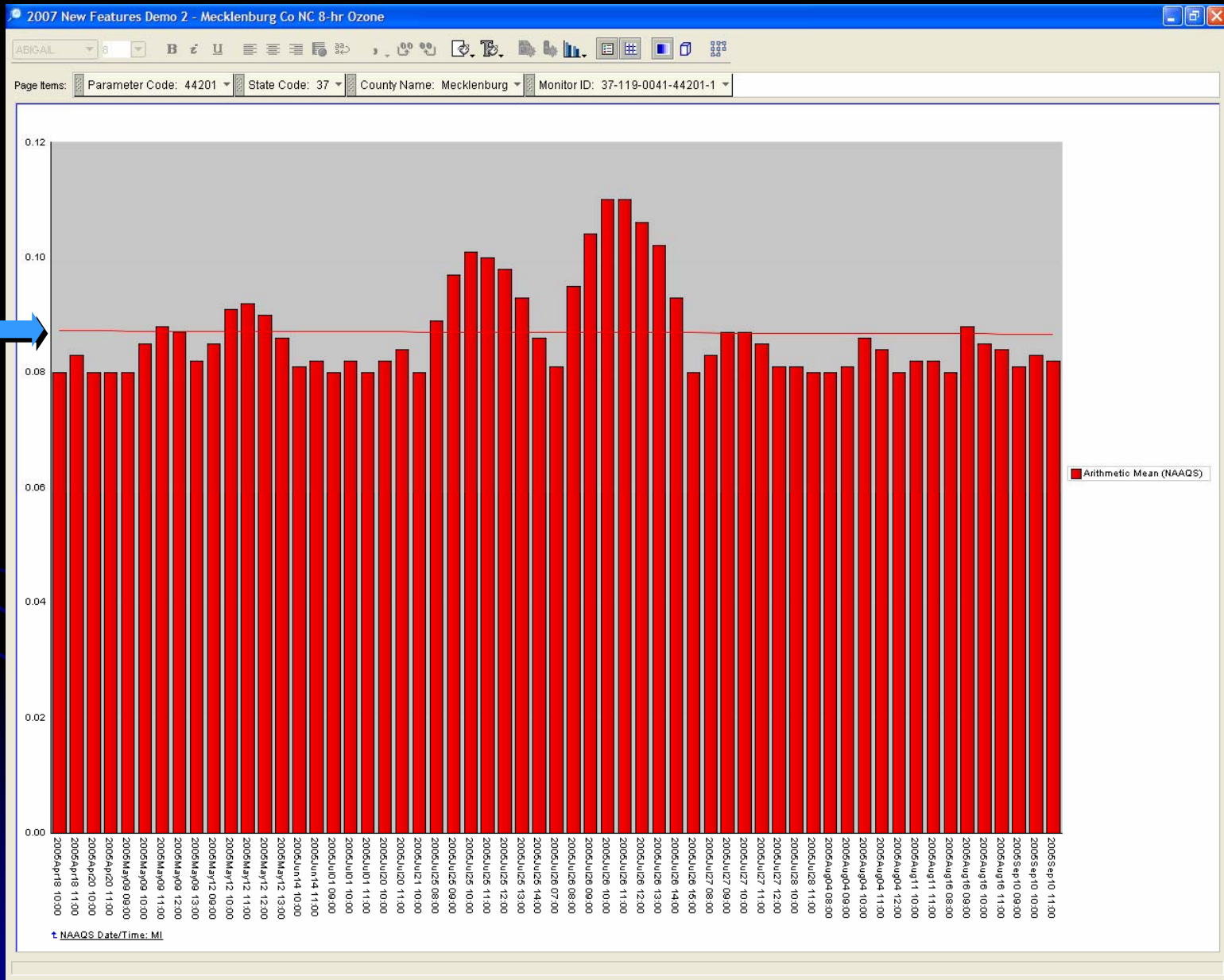
Improved Graph Features



New for Plot Area: Fitline

Improved Graph Features

Fitline



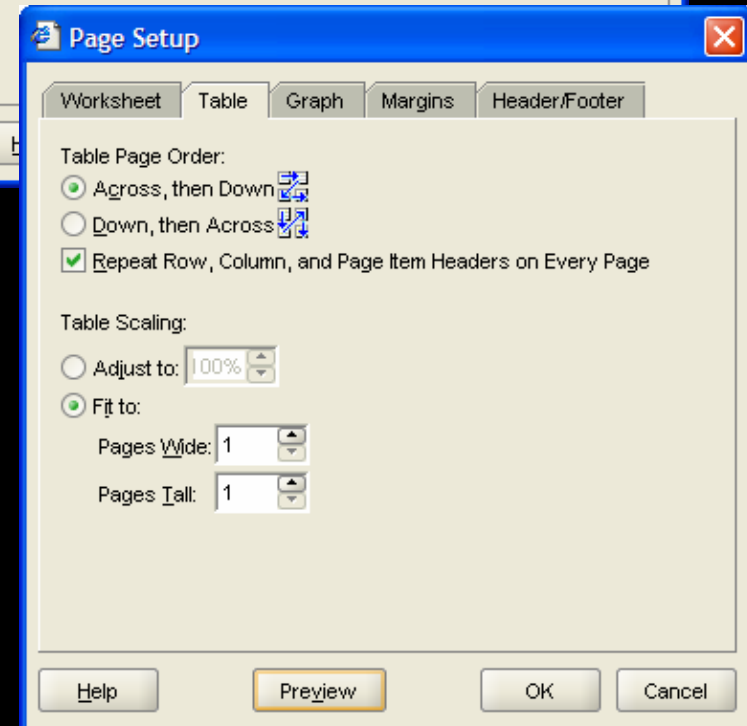
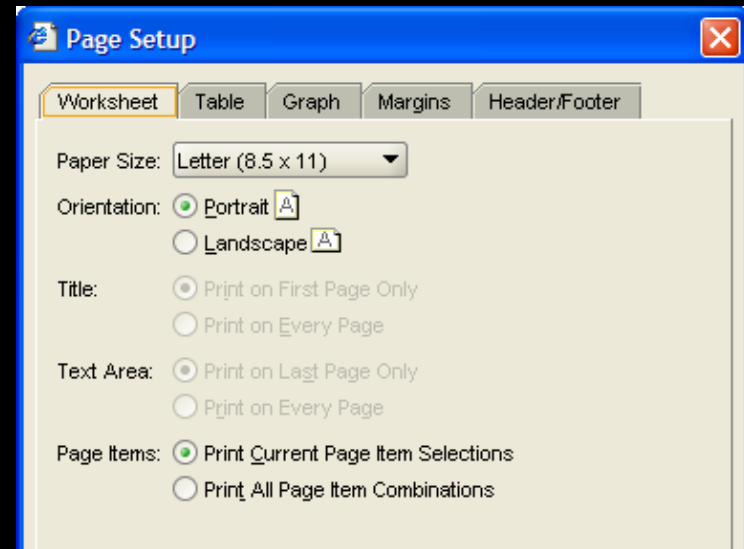
Suggested Exercise 3: Sorting and Formatting, Graphing

1. **Connect to the aqsprod database.**
2. **Open and run your worksheet from exercise 2: Sites w page**
 - ☐ Sort on Date Site Established column. Try using the right mouse button for a normal sort, then use the one button group sort icon. If your state/tribe established several sites on the same date, you should be able to spot that easily with a group sort.
 - ☐ Add a thick line (your choice of color) to further highlight the break in the group sort.
3. **Open and run your crosstab worksheet from exercise 2**
 - ☐ Add a conditional format (Stoplight) based on the Date Site Established column. Your thresholds may vary depending on the actual count of sites in your worksheet. E.g., you could set the 'unacceptable' amount at 1 and the 'desirable' at 10. (Do NOT infer from this exercise that any set number of sites is actually desirable or unacceptable. This is strictly for the experience of using the stoplight function.)
4. **Duplicate this worksheet as a crosstab. On this new crosstab, delete all items except for the county/tribe/site and the count of the number of sites.**
 - ☐ Create a graph. Use the graph icon or View/Graph or Edit/Graph.
 - ☐ Edit the graph to change the style
 - ☐ Open the Titles, Totals and Series tab. Enter a title and/or choose items to insert into the title.

Improved Print Functionality

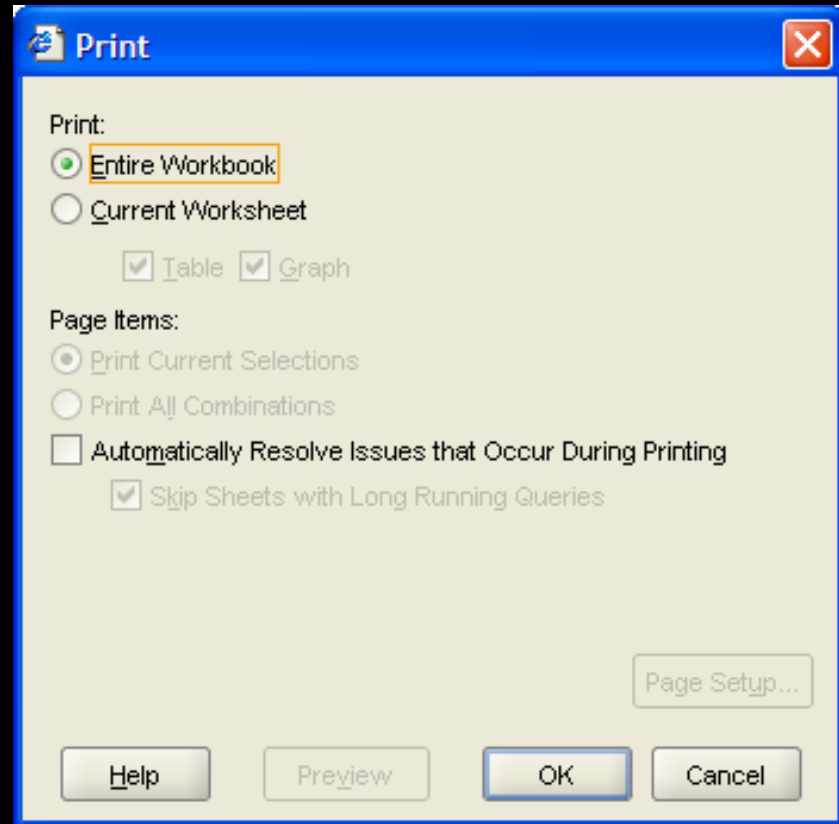
Page Setup includes:

- **Set orientation (portrait or landscape)**
- **Set header/footer or borders**
- **Print worksheet with or without graph**
- **Adjust the scale ($\leq 100\%$) to fit page**
- **Preview print**
- **More . . .**

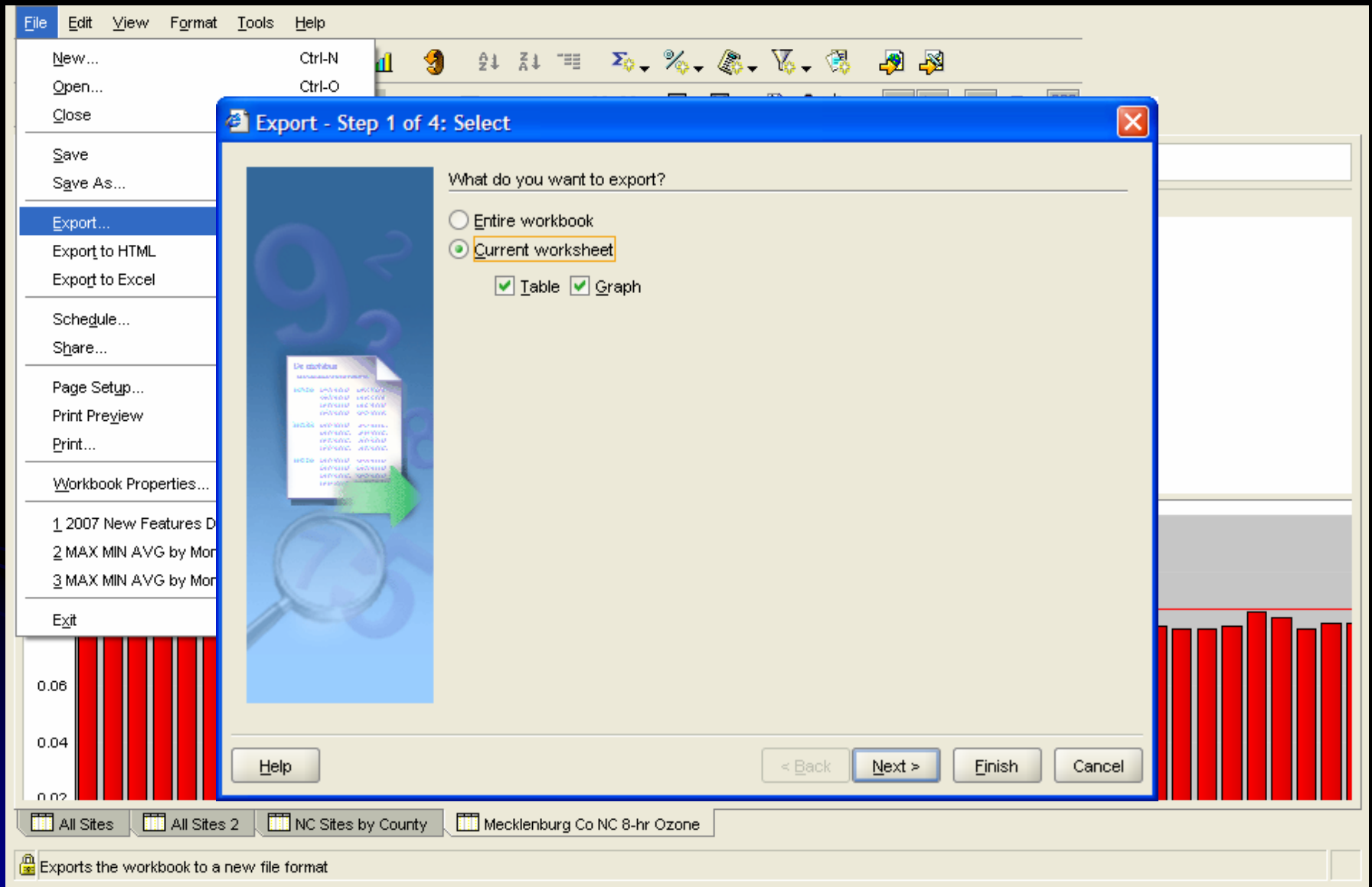


Improved Print Functionality

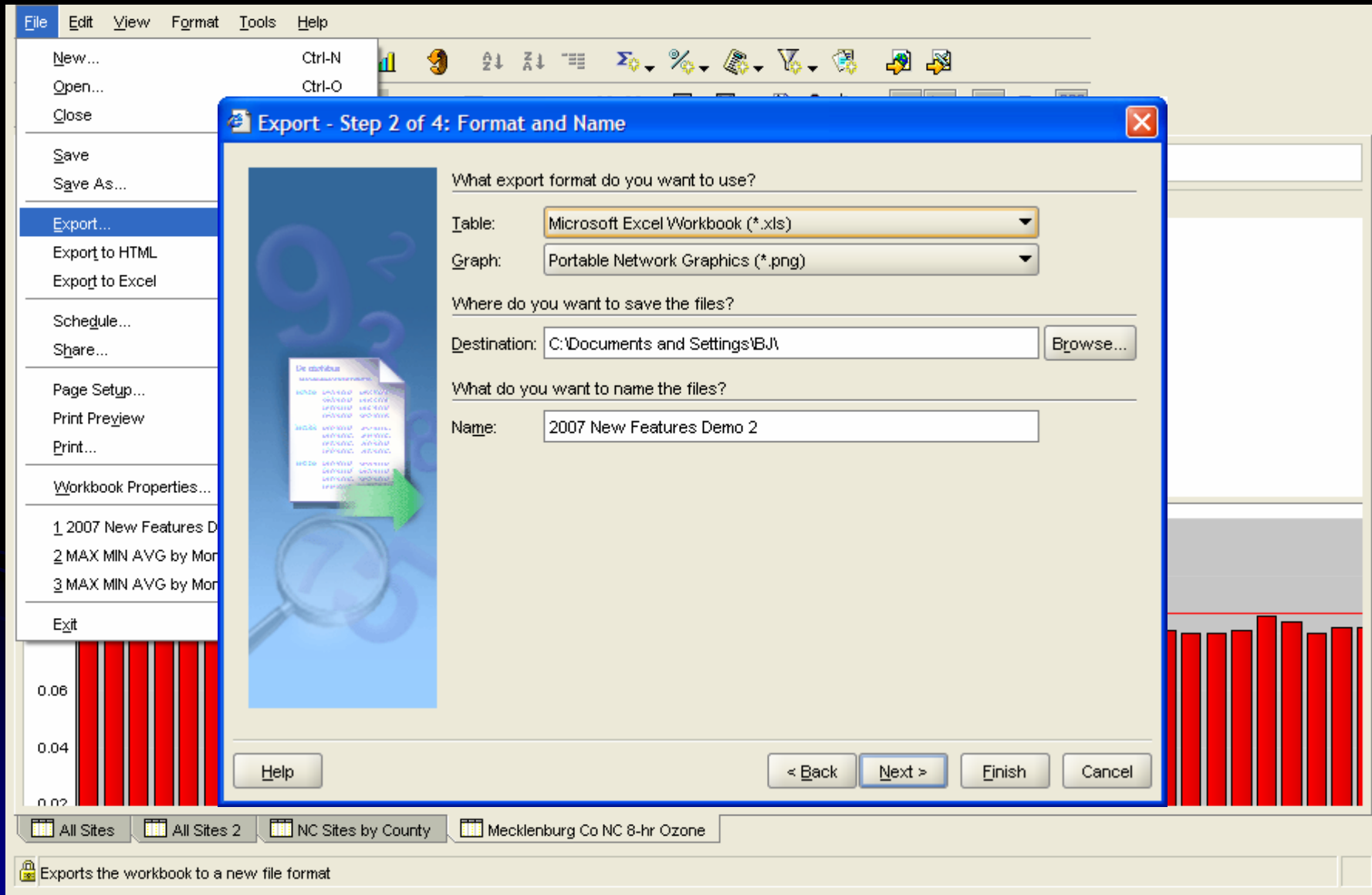
**Print entire workbook or
only the current worksheet**



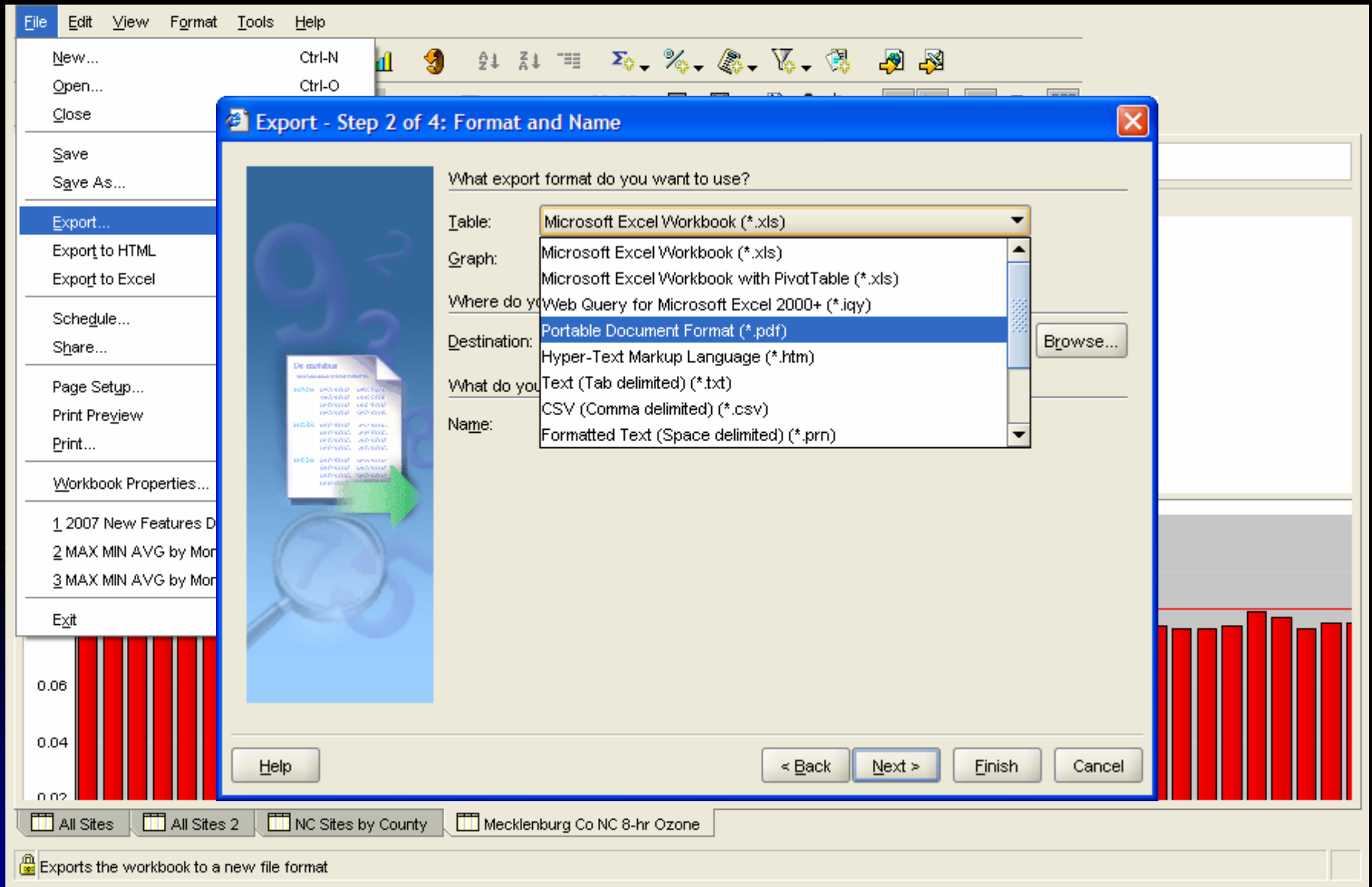
New Export Formats



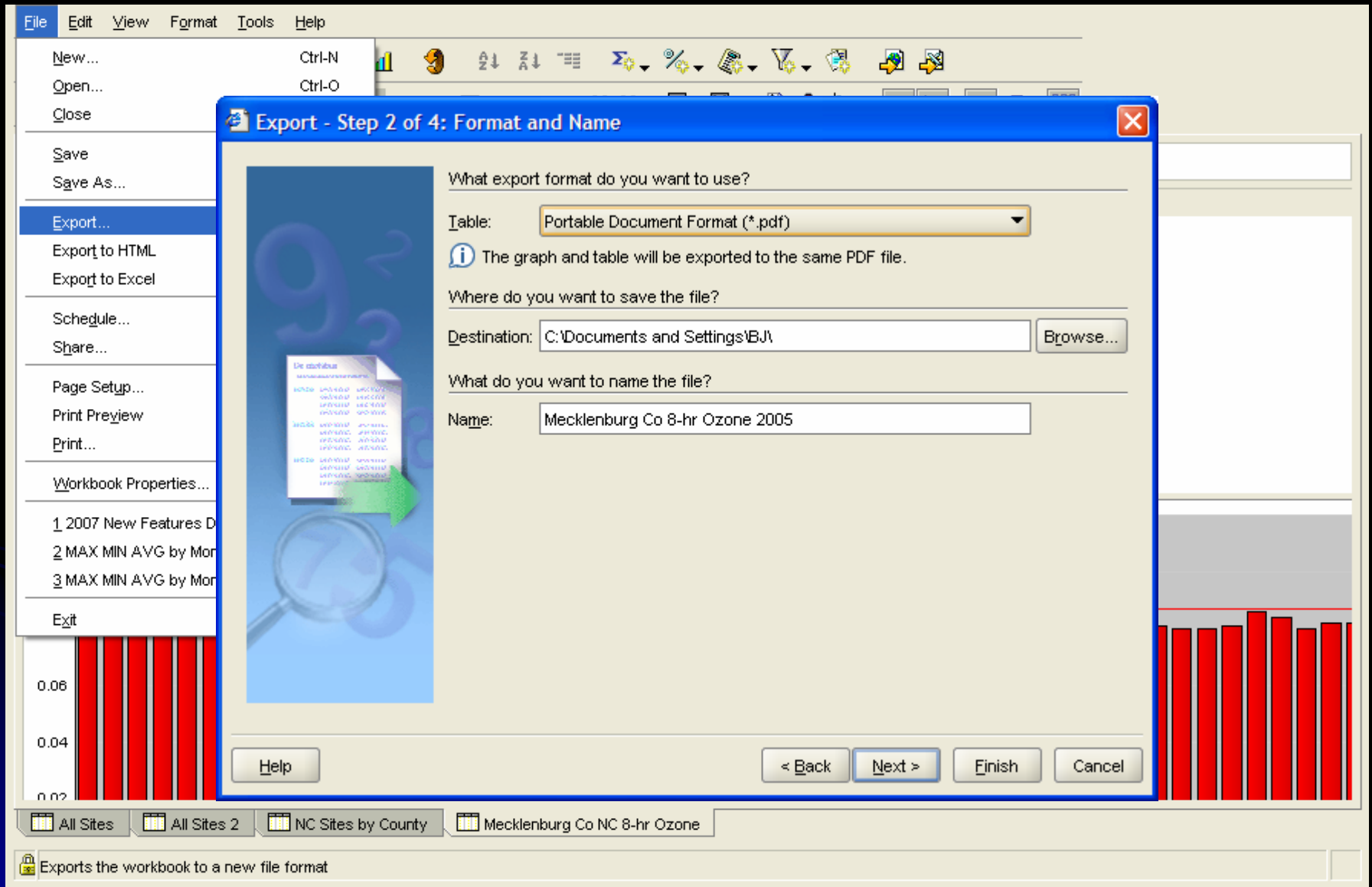
New Export Formats



New Export Formats



New Export Formats



New Export Formats

File Edit View Format Tools Help

ABIGAIL 8 B U

Page Items: Parameter

Export - Step 3 of 4: Graph

How do you want to export the graph?

☒ Use Current On Screen Size

☐ Specify

Height: Inches

Width: Inches

☒ Preserve the Ratio of Height and Width

☒ Preserve the On Screen Font Size

Help Back Next Finish Cancel

Arithmetic Mean (NAAQS)

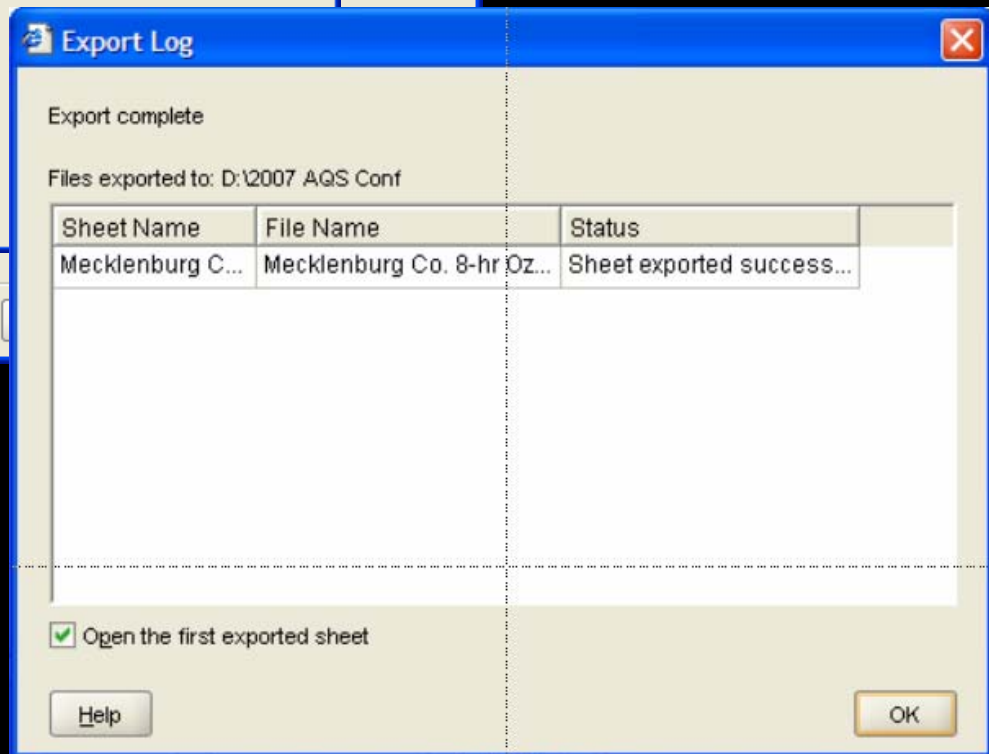
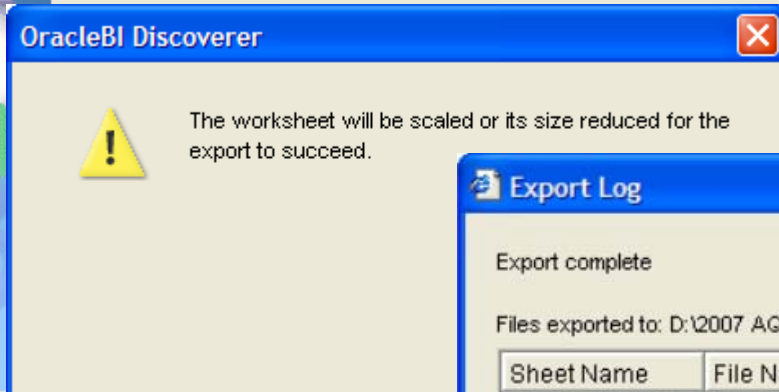
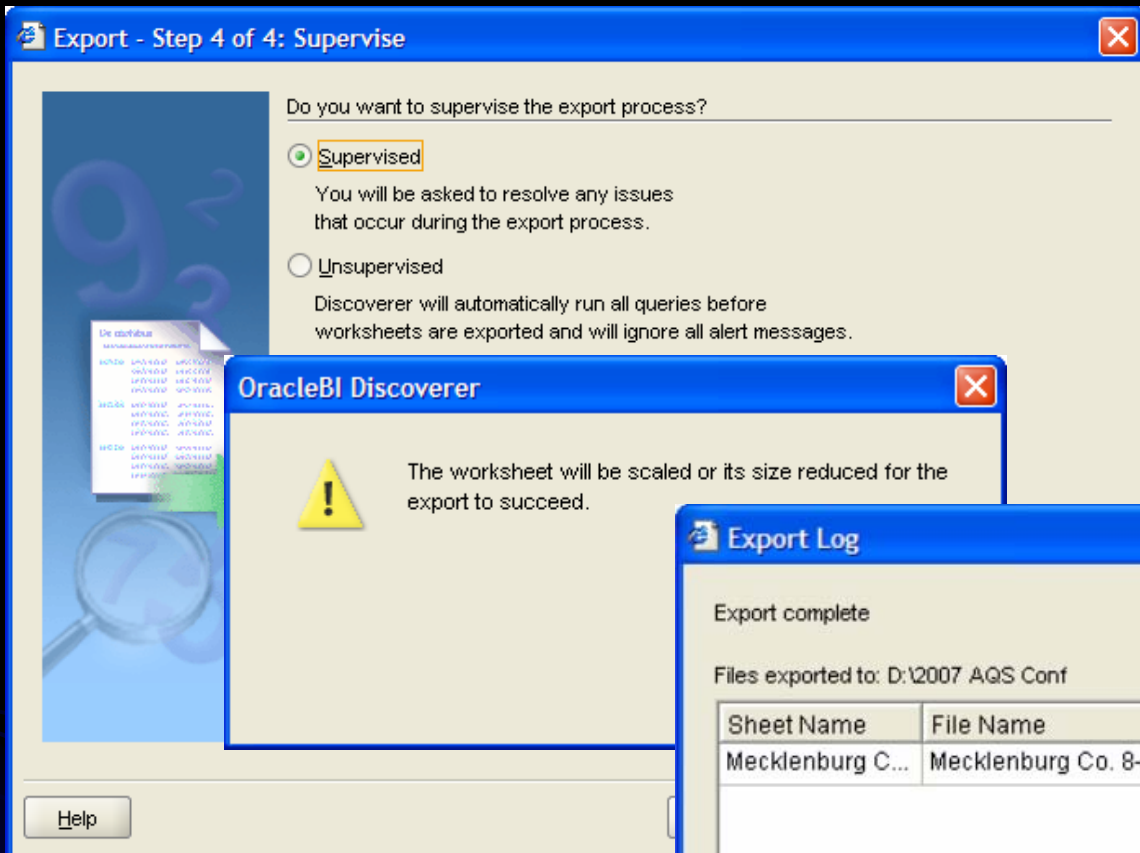
0.12
0.10
0.08
0.06
0.04
0.02
0.00

2005Apr18 10:00 2005Apr18 11:00 2005Apr20 10:00 2005Apr20 11:00 2005May09 09:00 2005May09 10:00 2005May09 11:00 2005May09 12:00 2005May09 13:00 2005May12 09:00 2005May12 10:00 2005May12 11:00 2005May12 12:00 2005May12 13:00 2005Jun14 10:00 2005Jun14 11:00 2005Jul01 09:00 2005Jul01 10:00 2005Jul01 11:00

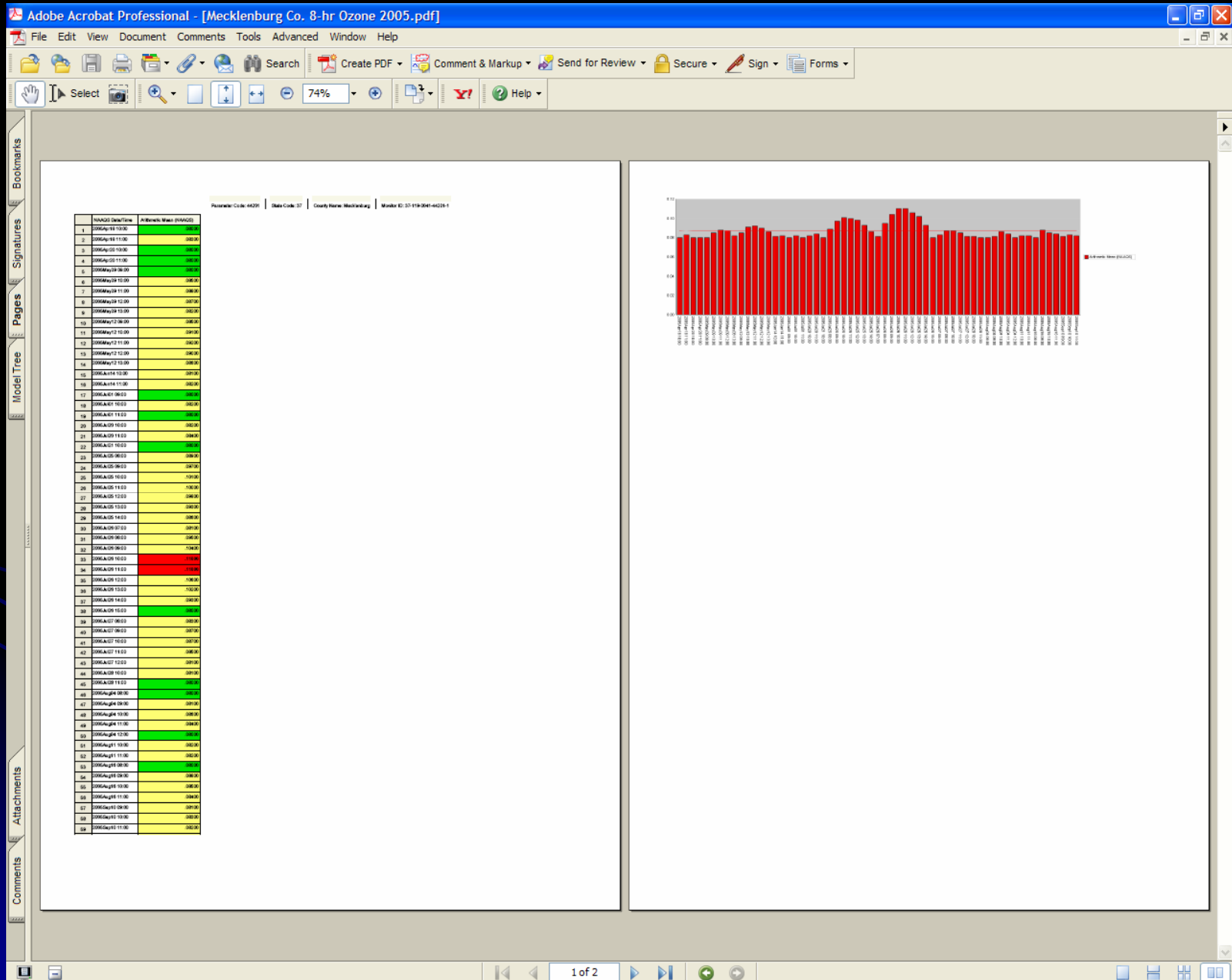
↑ NAAQS Date/Time: MI

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

New Export Formats



New Export Formats



*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:

V10r2 cannot save worksheets to your pc

V10r2 cannot perform subqueries

Users must still become familiar with the database