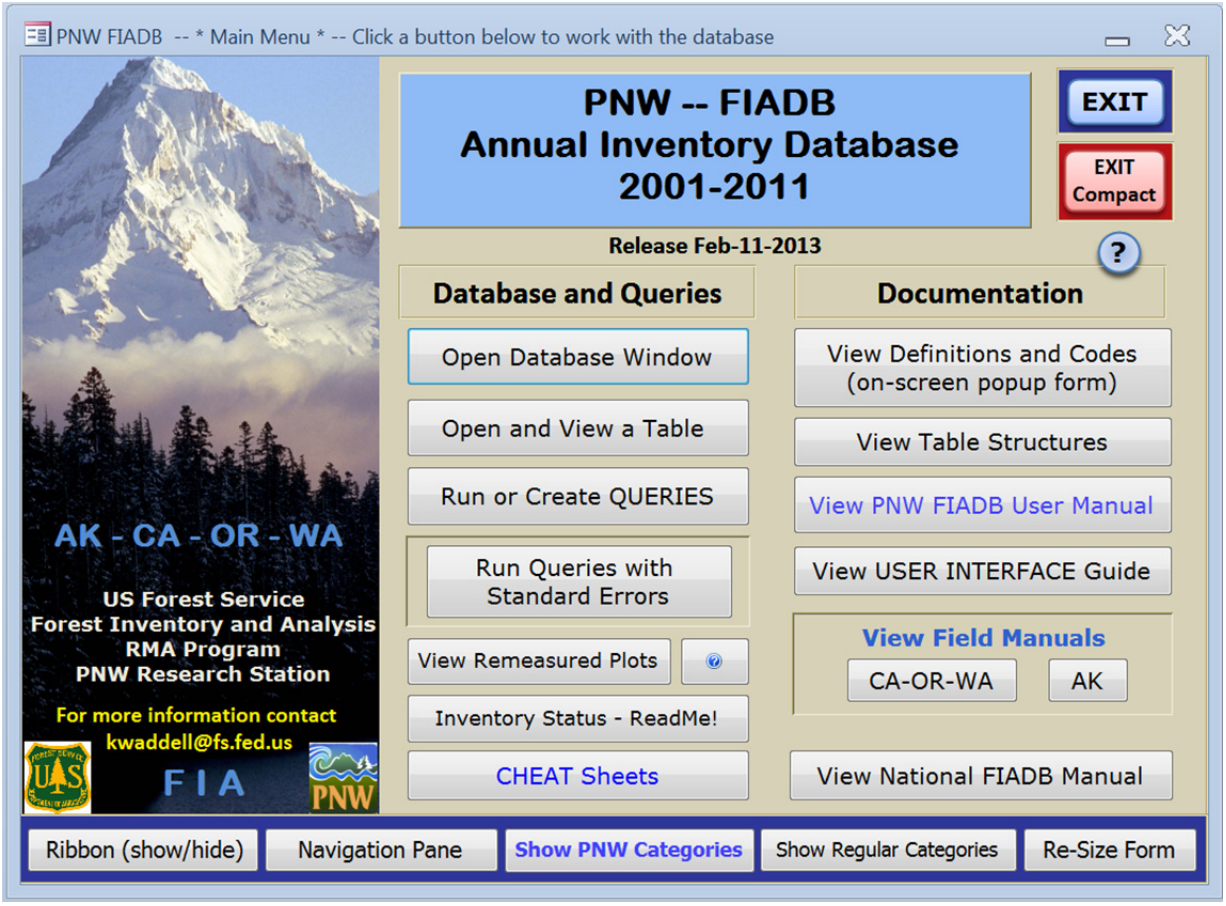
PNW – FIADB User Guide

A guide to the PNW-FIADB User Interface

Pacific Northwest Research Station's
Forest Inventory and Analysis Database

Annual forest inventory data for
Alaska, California, Oregon and Washington
2001 -2011



Karen Waddell

Forest Inventory and Analysis
Resource Monitoring and Assessment Program
Pacific Northwest Research Station
Portland, Oregon

February 11, 2013

For help and more information contact:

Karen Waddell
503-808-2046
kwaddell@fs.fed.us

Joe Donnegan
503-808-2053
jdonnegan@fs.fed.us

Glenn Christensen
503-808-2064
gchristensen@fs.fed.us

Sharon Stanton
503-808-2019
sharonmstanton@fs.fed.us

Olaf Kuegler
503-808-2028
okuegler@fs.fed.us

Joel Thompson
503-808-2041
joelthompson@fs.fed.us

Introduction

The Pacific Northwest Research Station's Forest Inventory and Analysis (FIA) program collects data on field plots installed across Alaska, California, Oregon and Washington. Data are collected annually and include measurements of live and dead trees, forest conditions, down woody material, under story vegetation, occurrence of insects and diseases, disturbance, and other attributes of the forest stand.

This user guide describes an application that was built around the PNW-FIADB, a Microsoft Access database that contains inventory data collected from 2001 to 2011. The goal of this application is to make it easy for users to work with FIA data and quickly query and summarize data to answer individual questions. The application includes the PNW-FIADB, which is a customized regional version of the national FIADB, including core inventory data as well as data only collected by the PNW FIA work unit. It also includes a user interface, which is an Access Form containing a series of push-buttons that execute a variety of commands when clicked. The interface serves as a 'Main Menu' giving you, the user, an immediate entry point into the FIA inventory database, complete with pre-linked relational tables; pre-built queries; a pop-up form to search, select, and display column definitions and codes; and a variety of documentation files at your finger-tips. Both regional and national FIADB manuals are available, along with field manuals for all four states.

The PNW research station's FIA program has long realized that the easier our data are to work with, the faster our users will begin analysis and summary of the vast amount of information that FIA has to offer.
The PNW – FIADB User Guide is meant to document the functionality of the User Interface, which is the first step to learning and understanding the Forest Inventory and Analysis Database.

The PNW-FIADB has a User Manual that is a data dictionary for the columns and tables in the database . It also contains information on the FIA inventory and provides instructions on how to use the data. The User Manual is the key reference document for the database, and is accessible by clicking one of the buttons on the User Interface.

Field manuals also serve as important references while working with the data, and are accessible by clicking one of the buttons on the User Interface.

And finally, the national FIADB User Manual is another valuable reference, especially for users who download data from the national website for states beyond the Pacific Northwest. This manual is also accessible by clicking one of the buttons on the User Interface.

The data in this database were collected by hundreds of FIA field crew members in Alaska, California, Oregon and Washington. The data were compiled and loaded into corporate Oracle databases by FIA Information Management staff, and this final Access database was assembled and developed by the FIA Inventory, Reporting, Analysis and Mapping (IRAM) team.

Although the database and interface have been extensively tested, it is difficult to review every aspect of the application in detail. If you discover problems with the database or interface, please send an email to Karen Waddell kwaddell@fs.fed.us or Joe Donnegan jdonnegan@fs.fed.us. We would appreciate it!

Getting Started -- loading the data and enabling macros

1. This application is distributed as a self-extracting zipped file (.exe) on CD. It is also available as a standard zip file (.zip), because some computers restrict the use of executables for security reasons.

2. Drag or copy the following file from the CD to a location on your hard drive:
   PNWFIADB_2011.exe
   Once the file is on your computer, double click on the file to extract the PNW FIADB.
   You will be asked where you want to store the file. Browse to a folder of your choice.

3. IMPORTANT! Choose a folder name that :
   - does not have **spaces** in the name– i.e. don't store it in "My Documents"
   - does not have an extremely long or complex filename
   - does not have a lot of unusual characters in it (!,$,&…)

(This can cause problems for Access when executing some of the visual basic code inside)

4. Click the UNZIP button.
   It should create a series of folders that look like this:

A group of PNW FIADB folders will be visible as shown below:

_PNW_FIADB_2011
Database
Documentation
Field_Manuals
Standard_error_files
The_FIA_Factsheets

The structure and names of these folders and files must remain intact, exactly as shown above. However, the entire set of folders can be stored, intact, anywhere the user desires (i.e. you can move the entire **_PNW_FIADB_2011** folder to another drive or location). If the set of folders is stored inside another folder, the application works most reliably if this folder name is not too complex or long.
In addition, the files within each of the folders above must remain in the original folder with the original name. The reason for this is that the User Interface has buttons that open files in specific folders – if these are changed the buttons will no longer work.

5. Fire up the PNW-FIADB!
   Go to the **Database** folder and double click on the database file:
   PNWFIADB_2011.accdb

6. The main application should pop up and you're almost ready to go!

7. You still need to do one final step – "**Enable all Macros**"

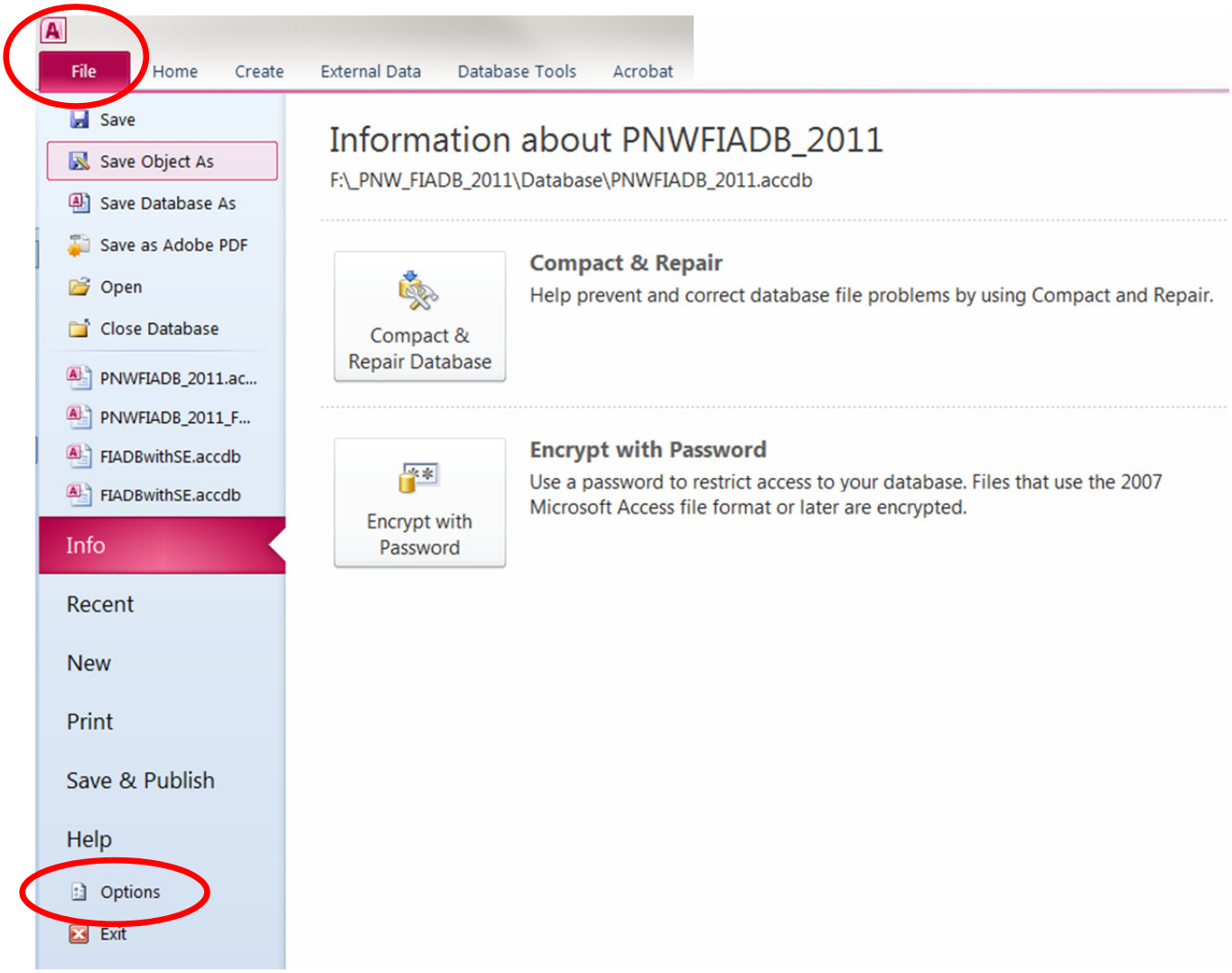
Enabling Macros

The User Interface has macros and visual basic program code embedded behind the buttons, so it is important to check that your copy of Access has the macros enabled in the Access Trust Center. If you open the database displaying the Main Menu form, and some buttons do nothing when clicked, this probably means that your macros have not been enabled!

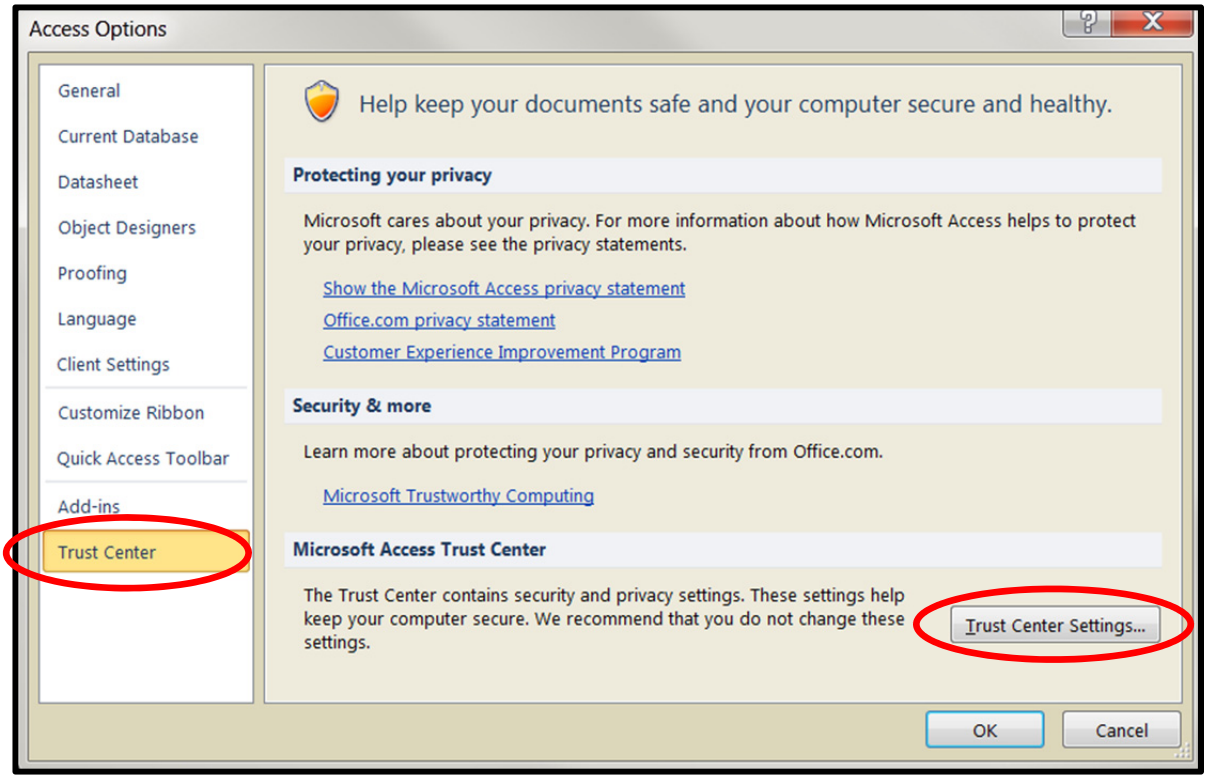
To enable macros, follow these steps:

For Access 2010:

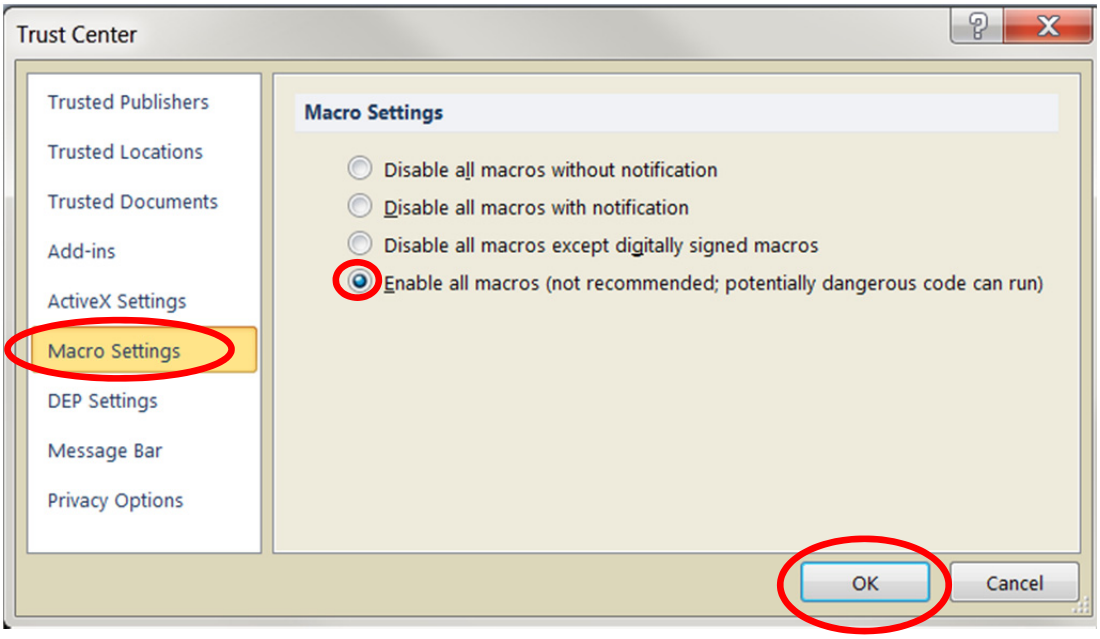
1. Click on the **FILE tab** at the top left of the screen. Then click on the **OPTIONS** link.



2. When the following screen appears, click on “Trust Center”:
Then, click on “Trust Center Settings”:



Click on **Macro Settings**, and be sure the ‘**Enable all Macros’** setting is checked:



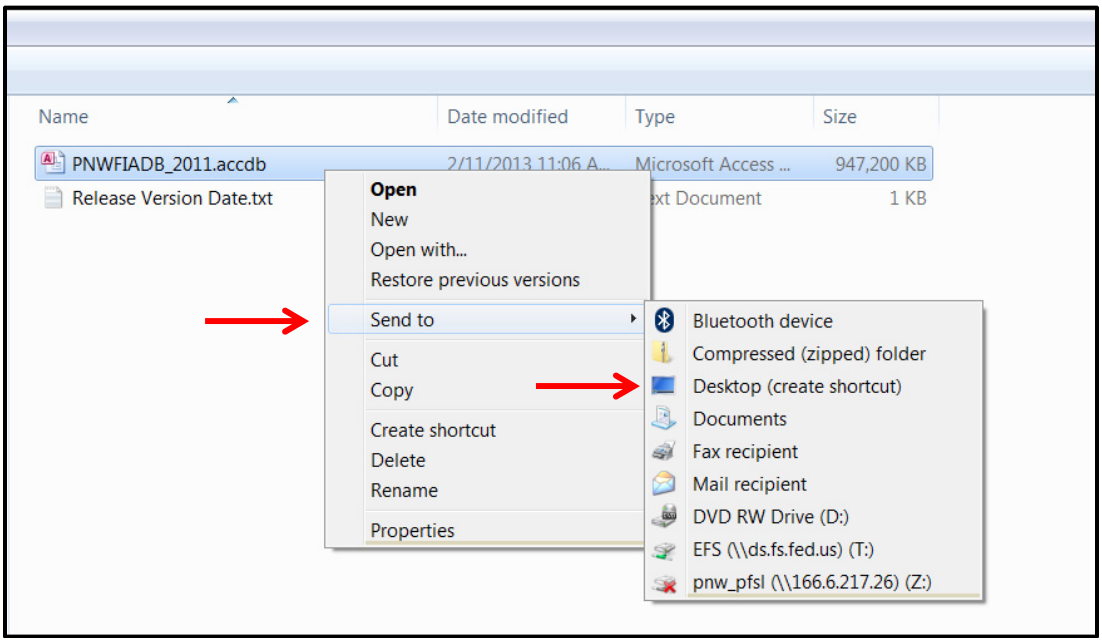
You might need to add the folder to your Trusted Locations (see above), too.

Access 2007:

1. Click on the Office Button in the upper left hand corner of the screen.
2. Click on “Access Options”, in the lower right hand section of that screen.
3. Click on Trust Center
4. Click on Trust Settings
5. Click on Macro Settings -- enable all macros.
6. Click OK!

Create a shortcut for your Desktop

For convenience, you may want to create a shortcut on your desktop for easy access.
To do this, put your cursor on the database file name (PNWFIADB_2011.accdb), and **right click.**
Select **Send To**, then choose **Desktop**. Look for the Icon on your desktop – you can edit the text on the icon if you want. When you want to open up the PNW-FIADB, just double click on the icon.



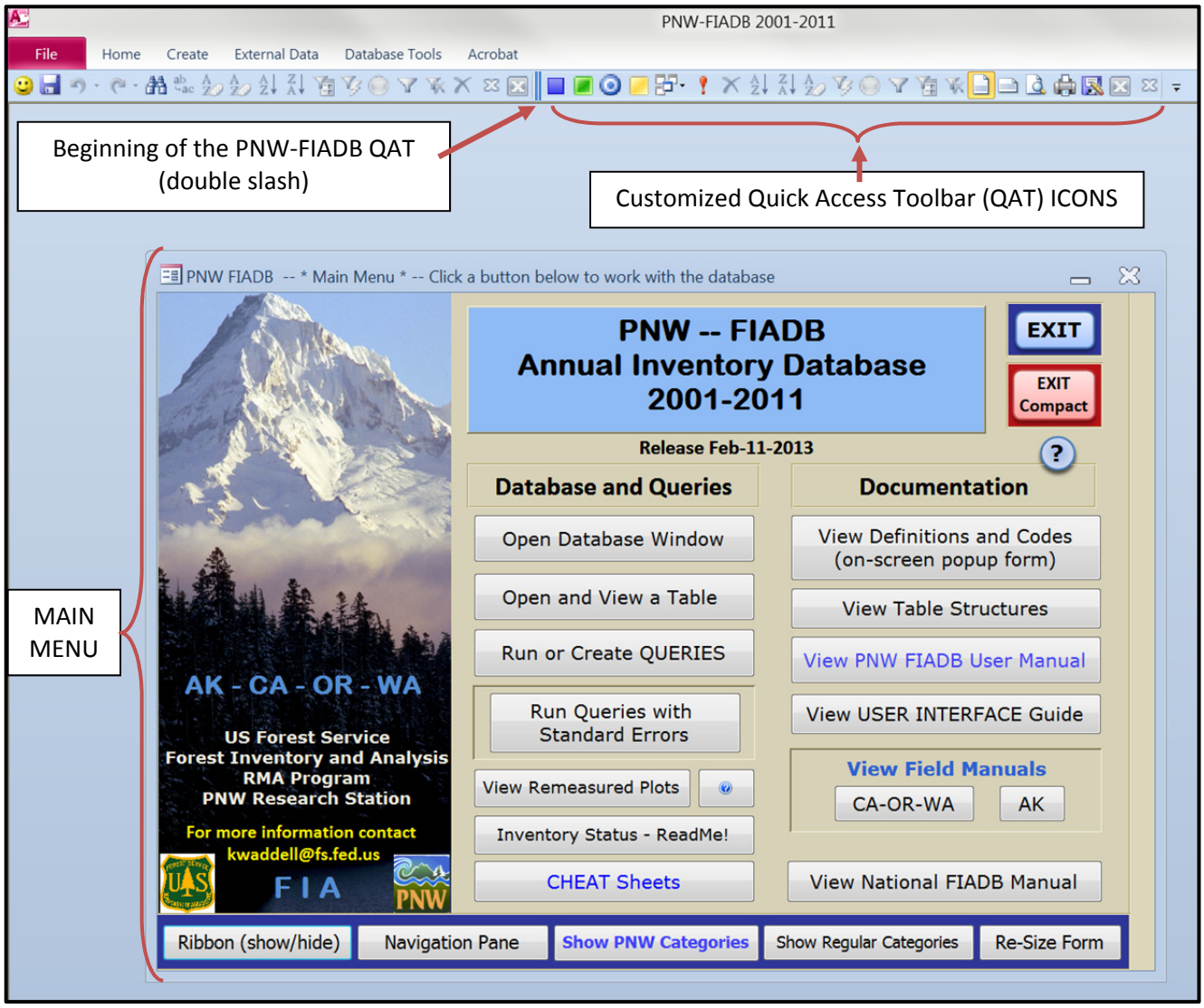
Open the Database and View the User Interface

To open the User Interface, simply go to the **Database** folder and double click on the Access database called:

PNWFIADB_2011.accdb.

Or, click on the desktop icon that you created earlier.

The database will open and the Interface will appear as shown below. Notice that the form called "Main Menu" is displayed in the center of your screen along with a customized Quick Access Toolbar (QAT). This toolbar is associated with the PNW-FIADB and will always be displayed with the database. It is the portion of the toolbar that starts after the double vertical lines.



Quick Access Toolbar (QAT)

Before you start: When working with the PNW-FIADB, it is recommended that you move the QAT below the Ribbon. This will put the customized QAT closer to the work space, making it easier for you to click on commonly used icons. In addition, the customized PNW-FIADB QAT contains icons for macros that will be used often while working with the PNW-FIADB application.

To do this, right click on either the Ribbon or QAT, and select "Show quick access toolbar below the ribbon".

The customized PNW-FIADB Quick Access Toolbar was created to make it easy to find a series of buttons that are used often while working with the database. It will always appear to the **right** of your own toolbar, if one is present. Each button is described below.

MAIN MENU – Purple Box

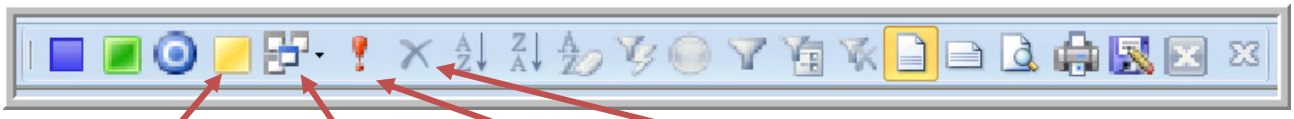
Click on this box to bring up the Main Menu at any time. This will display the user interface on top of your other work.
VERY HANDY!

Export to EXCEL – Green Box

Click on this box to export your query results into an Excel spreadsheet. This will instantly create a spreadsheet with the name of the query you just ran. VERY HANDY!

Export to WORD – Blue Circle

Click on this icon to export your query results into a Word document. This will instantly create a Word doc with the name of the query you just ran. VERY HANDY!



DISPLAY DEFINITIONS
Yellow Box

Displays a pop-up form that lets you search, select and view a column definition or set of codes for any table.

SWITCH WINDOWS

Cascade or tile all open windows. It also shows a list of open windows within Access, such as tables or queries you are working with. These can be hidden from view.

RUN icon

Runs or executes a query that is displayed in the query window.

X Clear the Grid **X**

When the query window is open, clicking on this icon will clear out all your entries in the query design grid. You can then start entering new fields or criteria.

SORT icons

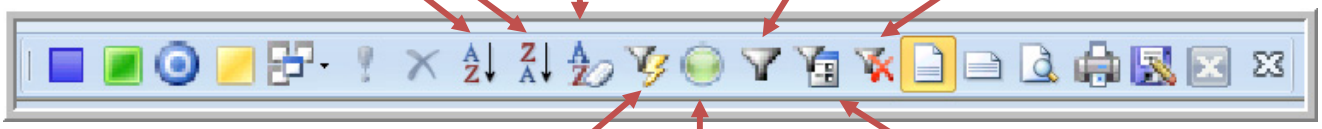
Sorts data in a table or in a query, in either ascending or descending order.

Clear all Sorts

Toggles Filter

Toggles back and forth between being filtered or not.

Clear the FILTER



FILTERING ICONS !

FILTER by SELECTION

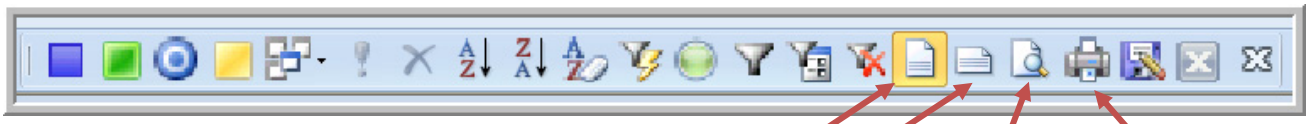
Click on a cell in a table or in query output that contains the value you want to select <u>for</u>. Then click this icon, and only the records (rows) that have the same value in the selected cell will be shown.
Greatly speeds up filtering.

FILTER by EXCLUDING the SELECTION

Does the opposite of 'Filter by Selection'. Click on a cell in a table or query , then click this icon. All records with the same value in the selected cell will be <u>excluded</u> from view.
Greatly speeds up filtering.

FILTER by FORM

Brings up a form to enter your own filter criteria. Can enter multiple criteria, or simple to complex expressions.



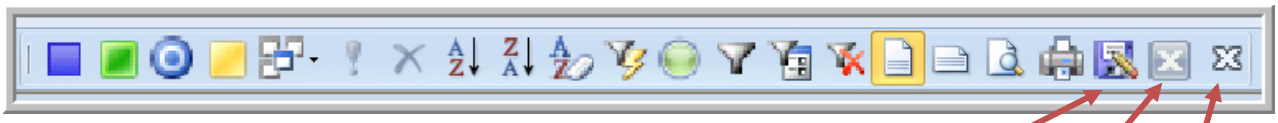
PRINT !

PORTRAIT – LANDSCAPE DISPLAYS

This is often needed to adjust the page layout of query results. Some displays are very wide, and need to be switched into Landscape mode before printing.

PRINT PREVIEW

Use this when you are viewing query results, before printing. Use the Page Setup icon to adjust various items of the layout.



SAVE AS

This is the normal save-as command, where you save a file with a new name. Use this when you modify and edit an existing FIADB query, to give the query a new name.

CLOSE an open WINDOW

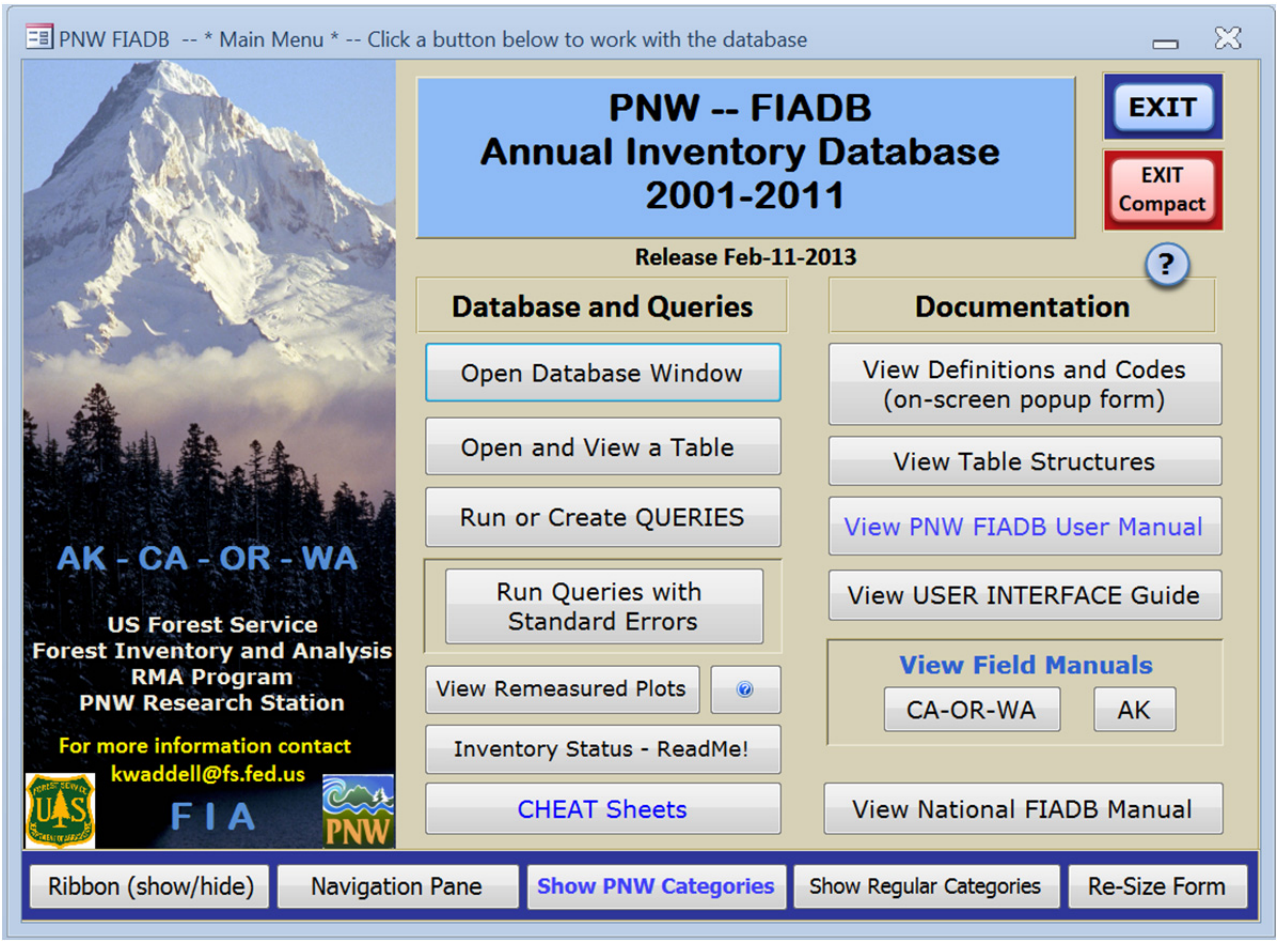
There are different options for closing open windows. At times, MS Access does not enable the close button, so we provide additional options to close an open window.

MAIN MENU

When the PNW-FIADB is opened, the Main Menu form appears. By clicking on a button below, you will gain access to the entire database including tables, queries, reports either by opening up the Database Window, or by choosing one table or query from a list to open, view, or run. In the pages that follow, all the buttons will be explained and illustrated. Note that there are two EXIT buttons: the top button will do a quick exit without compacting. The second button, will compact the entire database before exiting – this takes more time but is beneficial in cleaning up unused space. It is recommended to compact once a day – performance will improve and the size of the database will stay under control. MS Access has a 2 gigabyte limit, after which it can act erratically if the limit has been reached.

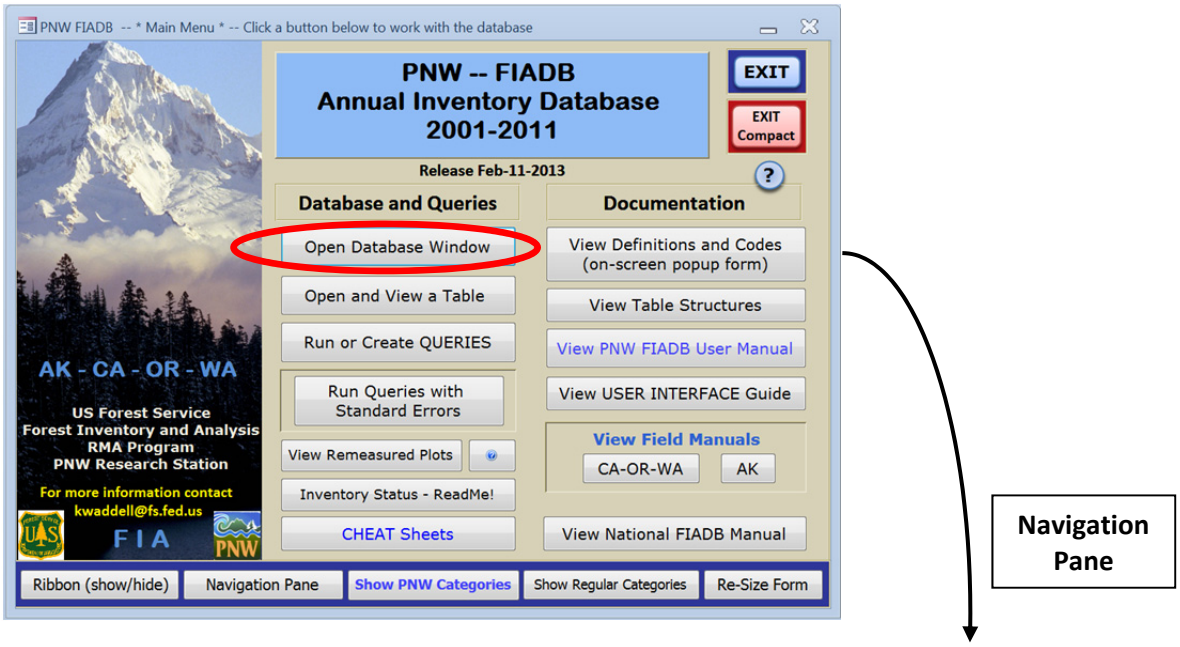
The left column of buttons gives you access to the data and queries, while the right column of buttons connects you to a variety of documents that will serve as immediate references as you work with the data.

Remember! You can click on the purple box in the QAT to bring up the main menu at any time!

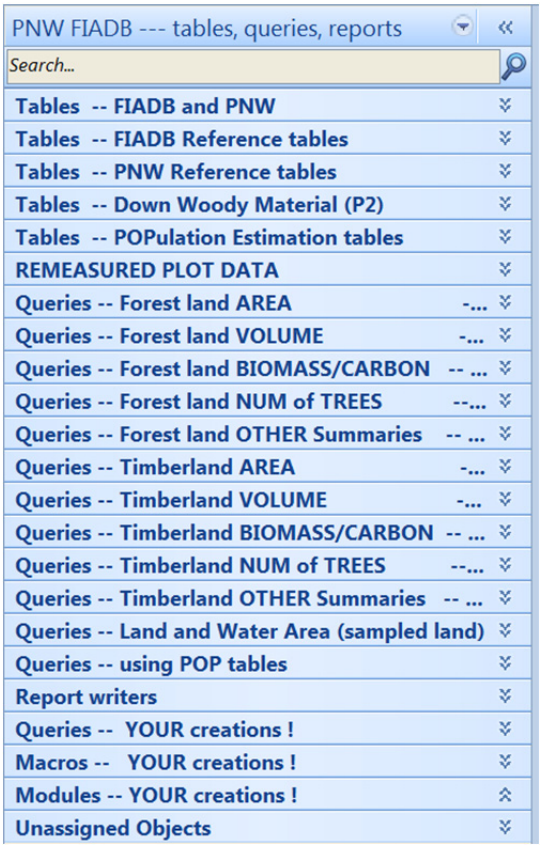


OPEN DATABASE WINDOW

When you Click the 'Open Database Window' button, the Navigation Pane is displayed.

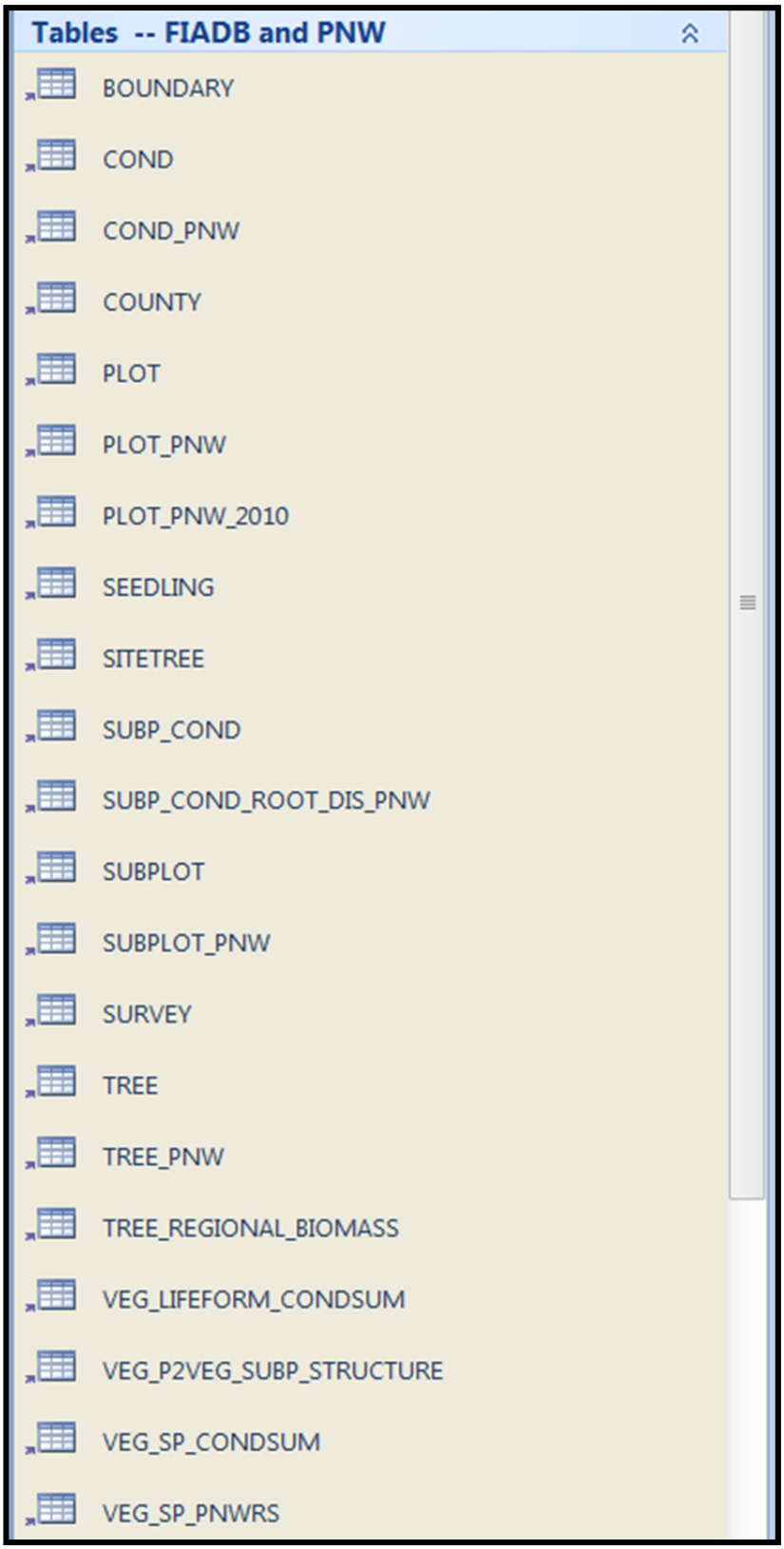


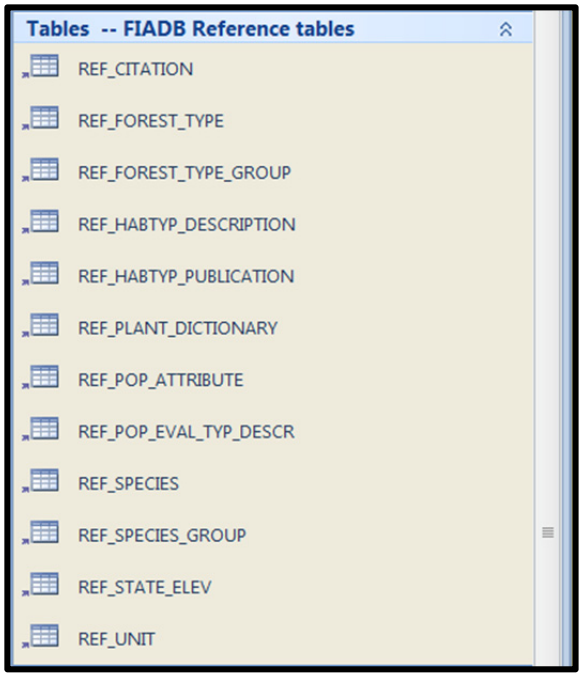
In the PNW-FIADB, custom 'categories' have been set up to help organize all of the 'objects' into meaningful groups as follows:

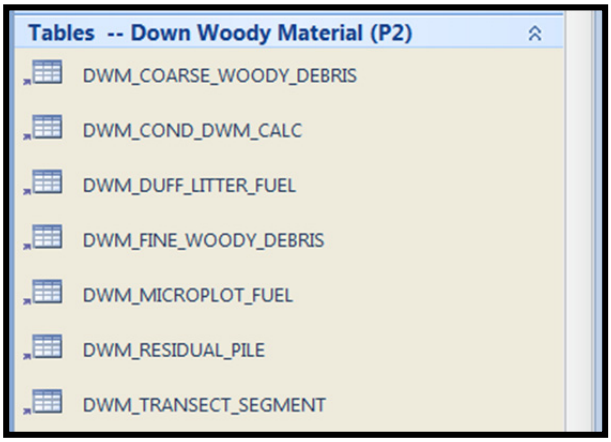


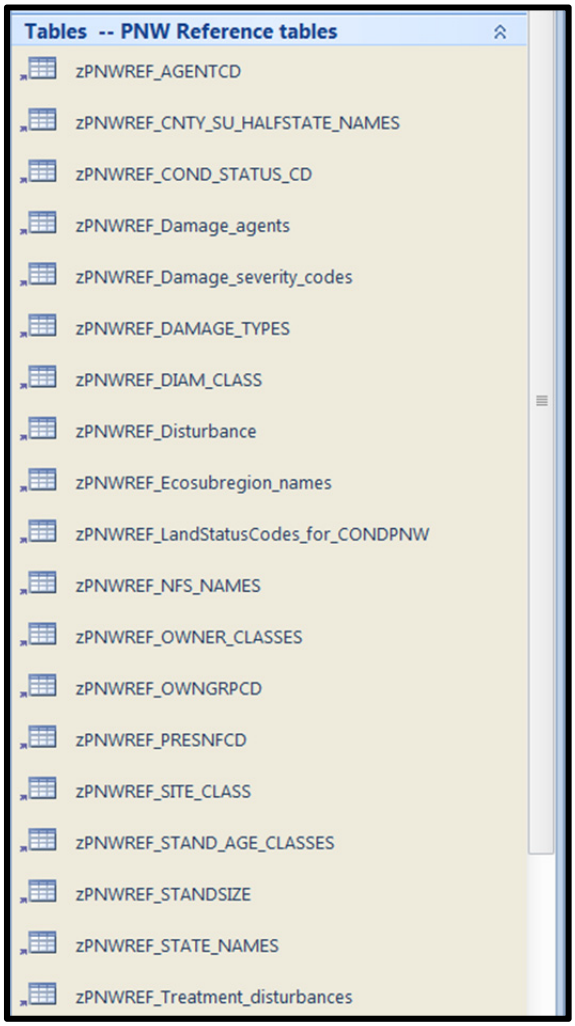
Data tables, includes basic Plot, Condition and Tree
Reference (crosswalk) tables from the national FIADB.
Reference (crosswalk) tables designed for the PNW FIADB.
Down woody material tables.
Population estimation tables. Needed for estimating standard errors.
Remeasured plot, condition, & tree data (2001 and 2011, CA & OR only)
Queries –pre-built queries that estimate forest land area
Queries –pre-built queries that estimate forest land tree volumes
Queries -pre-built queries that estimate forest land tree biomass/carb.
Queries –pre-built queries that estimate forest land number of trees
Queries –pre-built queries -- Understory Vegetation and Down Wood
Queries –pre-built queries that estimate timberland area
Queries –pre-built queries that estimate timberland tree volumes
Queries -pre-built queries that estimate timberland tree biomass/carb.
Queries –pre-built queries that estimate timberland number of trees
Queries –pre-built queries -- Understory Vegetation and Down Wood
Queries –pre-built queries that estimate land area
Queries –sample queries using the full set of POP tables
Report writers storage area
Queries –Store your own queries here. Drag & drop from 'Unassigned'
Macros –Store your own macros here. Drag & drop from 'Unassigned'
Modules –Store your own modules and VBA code here.
This is where Access stores your newly created queries and tables.

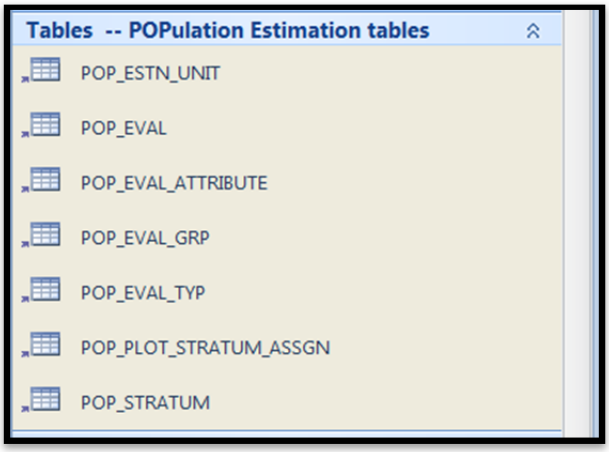
TABLES in the database

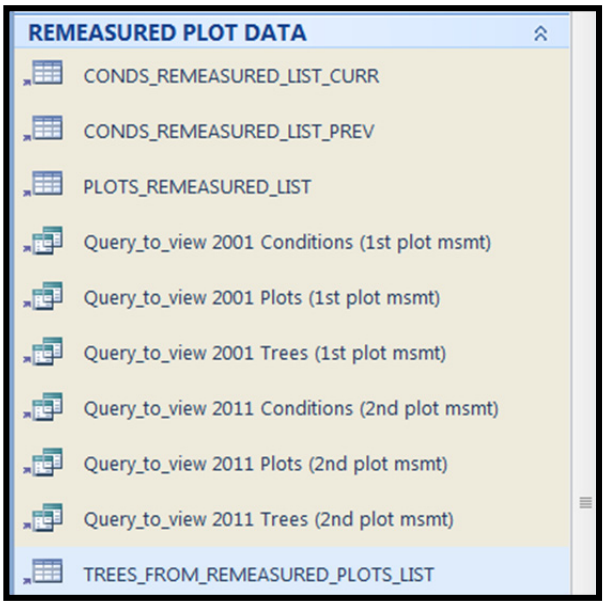



Tables -- FIADB Reference tables
REF_CITATION
REF_FOREST_TYPE
REF_FOREST_TYPE_GROUP
REF_HABTYP_DESCRIPTION
REF_HABTYP_PUBLICATION
REF_PLANT_DICTIONARY
REF_POP_ATTRIBUTE
REF_POP_EVAL_TYP_DESCR
REF_SPECIES
REF_SPECIES_GROUP
REF_STATE_ELEV
REF_UNIT


Tables -- Down Woody Material (P2)
DWM_COARSE_WOODY_DEBRIS
DWM_COND_DWM_CALC
DWM_DUFF_LITTER_FUEL
DWM_FINE_WOODY_DEBRIS
DWM_MICROPLOT_FUEL
DWM_RESIDUAL_PILE
DWM_TRANSECT_SEGMENT


Tables -- PNW Reference tables
zPNWREF_AGENTCD
zPNWREF_CNTY_SU_HALFSTATE_NAMES
zPNWREF_COND_STATUS_CD
zPNWREF_Damage_agents
zPNWREF_Damage_severity_codes
zPNWREF_DAMAGE_TYPES
zPNWREF_DIAM_CLASS
zPNWREF_Disturbance
zPNWREF_Ecosubregion_names
zPNWREF_LandStatusCodes_for_CONDPNW
zPNWREF_NFS_NAMES
zPNWREF_OWNER_CLASSES
zPNWREF_OWNGRPCD
zPNWREF_PRESNFCD
zPNWREF_SITE_CLASS
zPNWREF_STAND_AGE_CLASSES
zPNWREF_STANDSIZE
zPNWREF_STATE_NAMES
zPNWREF_Treatment_disturbances

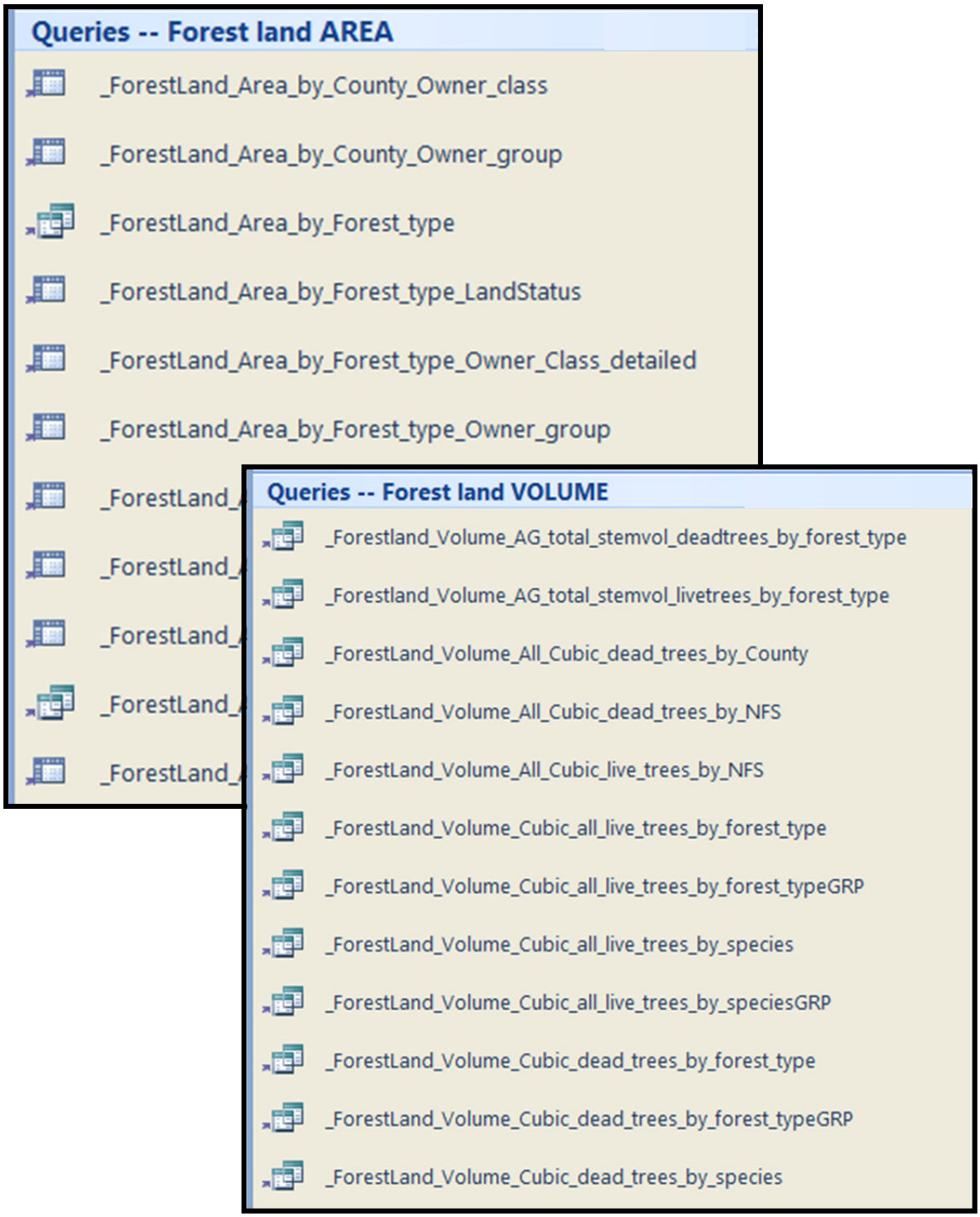

Tables -- POPulation Estimation tables
POP_ESTN_UNIT
POP_EVAL
POP_EVAL_ATTRIBUTE
POP_EVAL_GRP
POP_EVAL_TYP
POP_PLOT_STRATUM_ASSGN
POP_STRATUM


REMEASURED PLOT DATA
CONDS_REMEASURED_LIST_CURR
CONDS_REMEASURED_LIST_PREV
PLOTS_REMEASURED_LIST
Query_to_view 2001 Conditions (1st plot msmt)
Query_to_view 2001 Plots (1st plot msmt)
Query_to_view 2001 Trees (1st plot msmt)
Query_to_view 2011 Conditions (2nd plot msmt)
Query_to_view 2011 Plots (2nd plot msmt)
Query_to_view 2011 Trees (2nd plot msmt)
TREES_FROM_REMEASURED_PLOTS_LIST

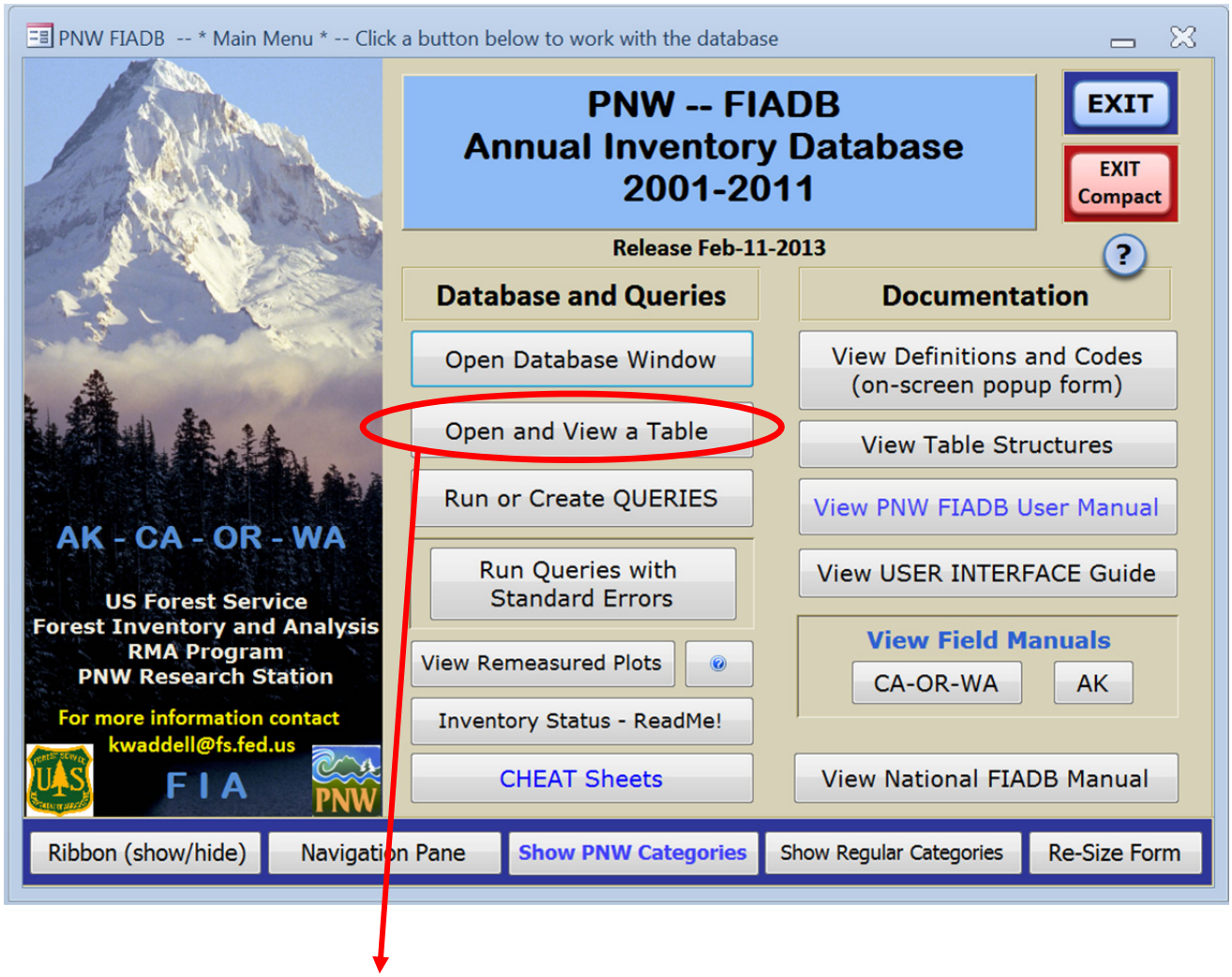
Queries – pre-built queries available in the database

Numerous queries have been pre-built for you to use directly, or to use as a starting point for your own customized set of queries. The names begin with forest land or timberland, and key words are included in the query name to let you easily understand what the query summarizes.

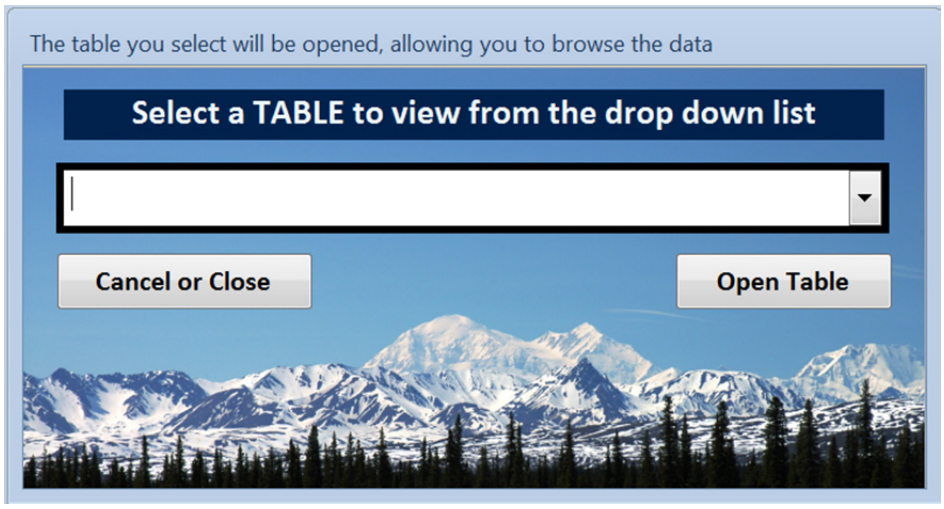
Here is the beginning of a long list of queries available to you.



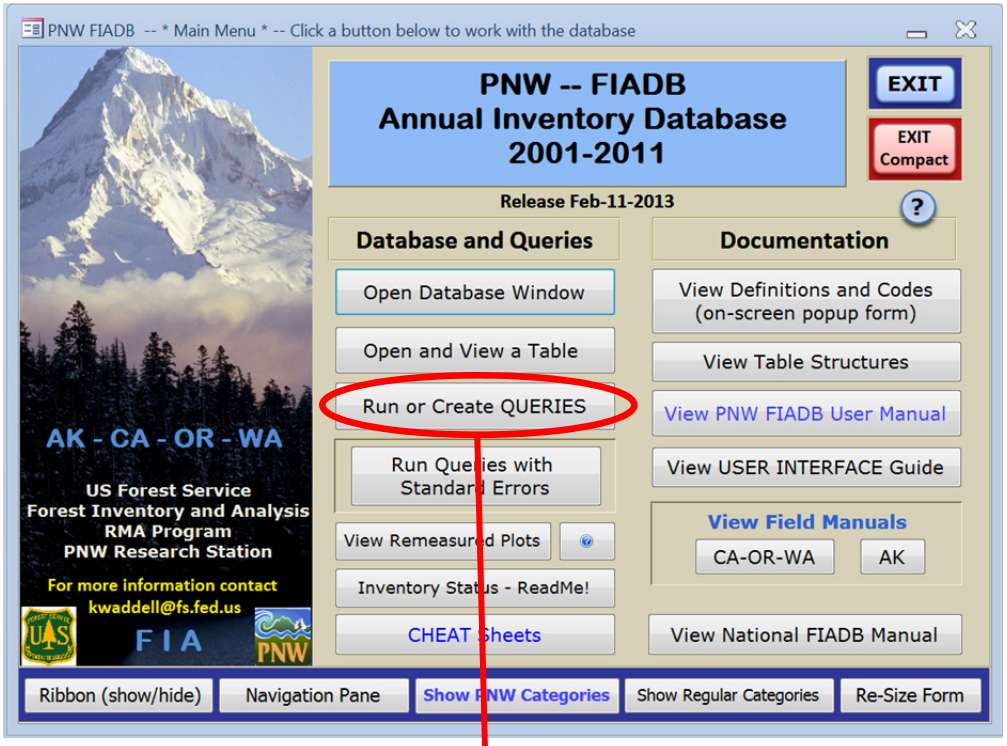
Open and quickly view any table!



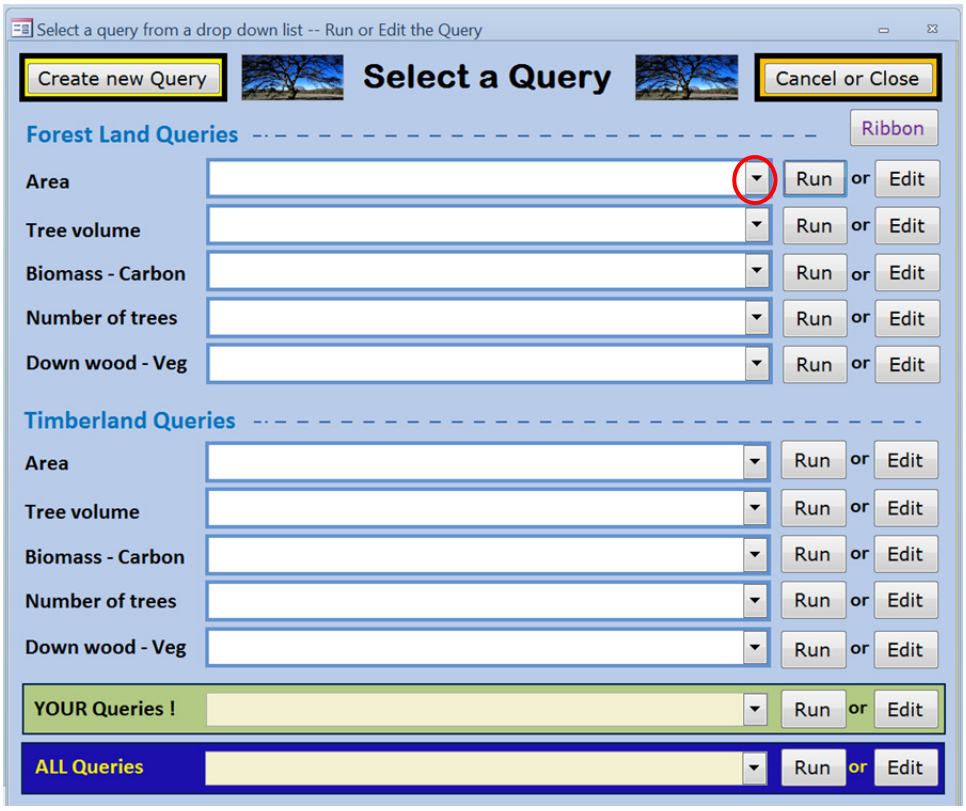
A form pops up to ask you for the table you want to view.
Select a table from the dropdown list and click 'Open Table'.



Run or edit pre-built queries – or create new ones !

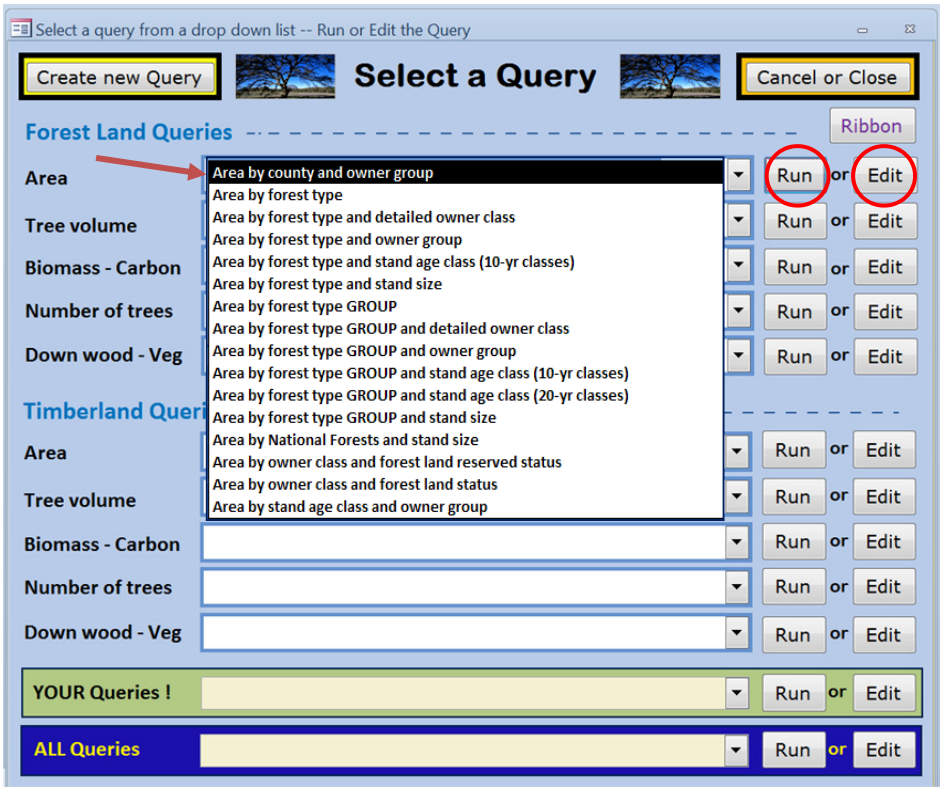


Select a Query from the drop-down list and click ‘Run’ or ‘Edit’.



Queries are organized by Forest land and Timberland, and by the attribute that will be summarized. Area, volume, biomass, carbon, numbers of trees, down woody material, and understory vegetation are some of the attributes than can be selected.

For example, if you want to estimate the number of acres of forest land by county and owner, you can select the first query on the list below, and then click Run.



The results might look something like this:

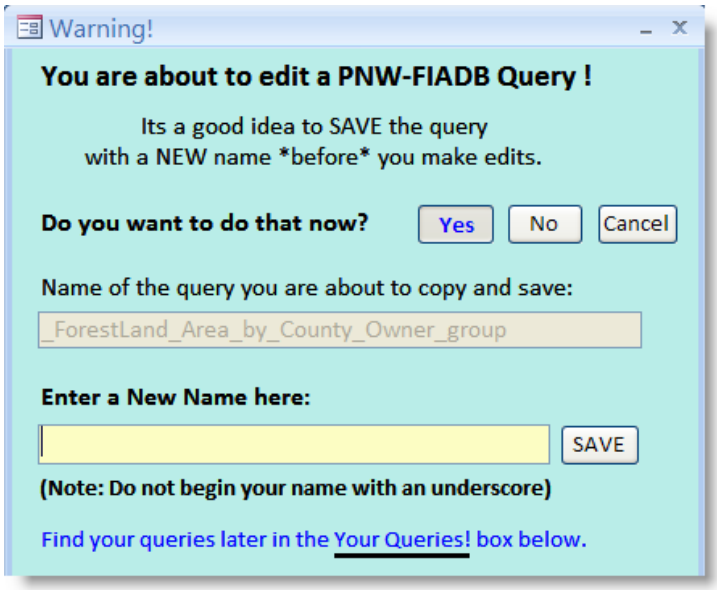
STATENM	County--Forest Land--Thous acres	TOTAL	Forest Service	Other Federal	State and Local Govt	Private
Oregon	Baker	775.24	610.09	58.19	5.49	101.48
Oregon	Benton	294.48	30.64	67.51	21.45	174.88
Oregon	Clackamas	849.00	526.57	21.84	11.94	288.67
Oregon	Clatsop	441.64		2.23	109.56	329.85
Oregon	Columbia	328.66		5.59	10.41	312.66
Oregon	Coos	851.22	64.13	173.89	76.67	536.52
Oregon	Crook	1,014.02	361.11	289.61	13.06	350.24
Oregon	Curry	966.15	575.20	42.22	17.21	331.52
Oregon	Deschutes	1,217.96	878.19	179.37	17.32	143.08
Oregon	Douglas	2,780.37	924.00	645.04	68.29	1,143.04
Oregon	Gilliam	6.00				6.00
Oregon	Grant	1,882.10	1,510.72	49.58	16.09	305.71
Oregon	Harney	925.98	461.62	329.48	36.05	98.83
Oregon	Hood River	283.88	201.14	6.60	24.85	51.29
Oregon	Jackson	1,529.72	546.21	355.74	27.12	600.65
Oregon	Jefferson	610.20	217.62	5.87		386.71
Oregon	Josephine	915.28	367.93	311.04	42.13	194.19
Oregon	Klamath	2,983.72	1,688.07	347.80	42.50	905.34
Oregon	Lake	1,460.18	912.70	204.81	5.39	337.28

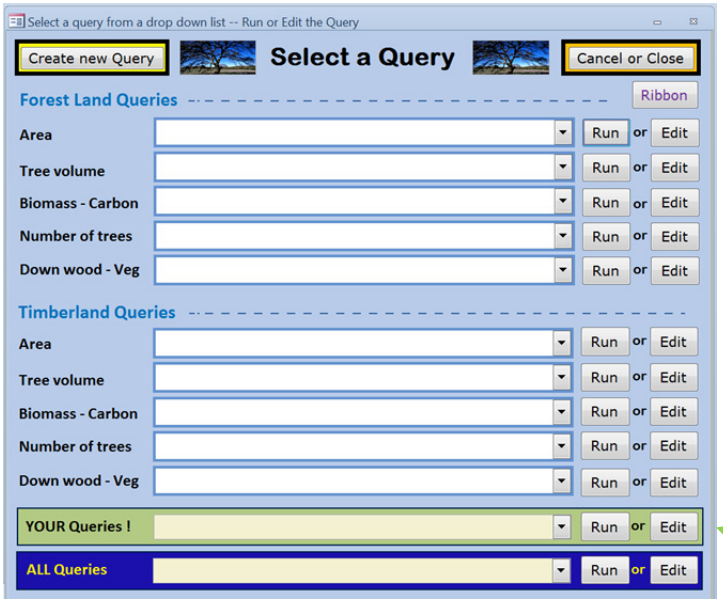
Editing Queries

You can select a query from the drop down list and then choose to EDIT it before running the query. When you do this, you are starting with a PNW-FIADB query. In general you will want to save the query first and give it a new name, to insure the original query remains intact.

When you click EDIT, a popup box is displayed, which will ask you if you want to save the Query with a new name or if you want to continue without renaming it.

Click YES to give it a new name, save it, and then open it in the query window to work with.
Click NO to go right to the query window, and edit the original query. If you accidentaly save the edited query with the original name, you will have to import a new copy of the query from your PNW-FIADB CD.

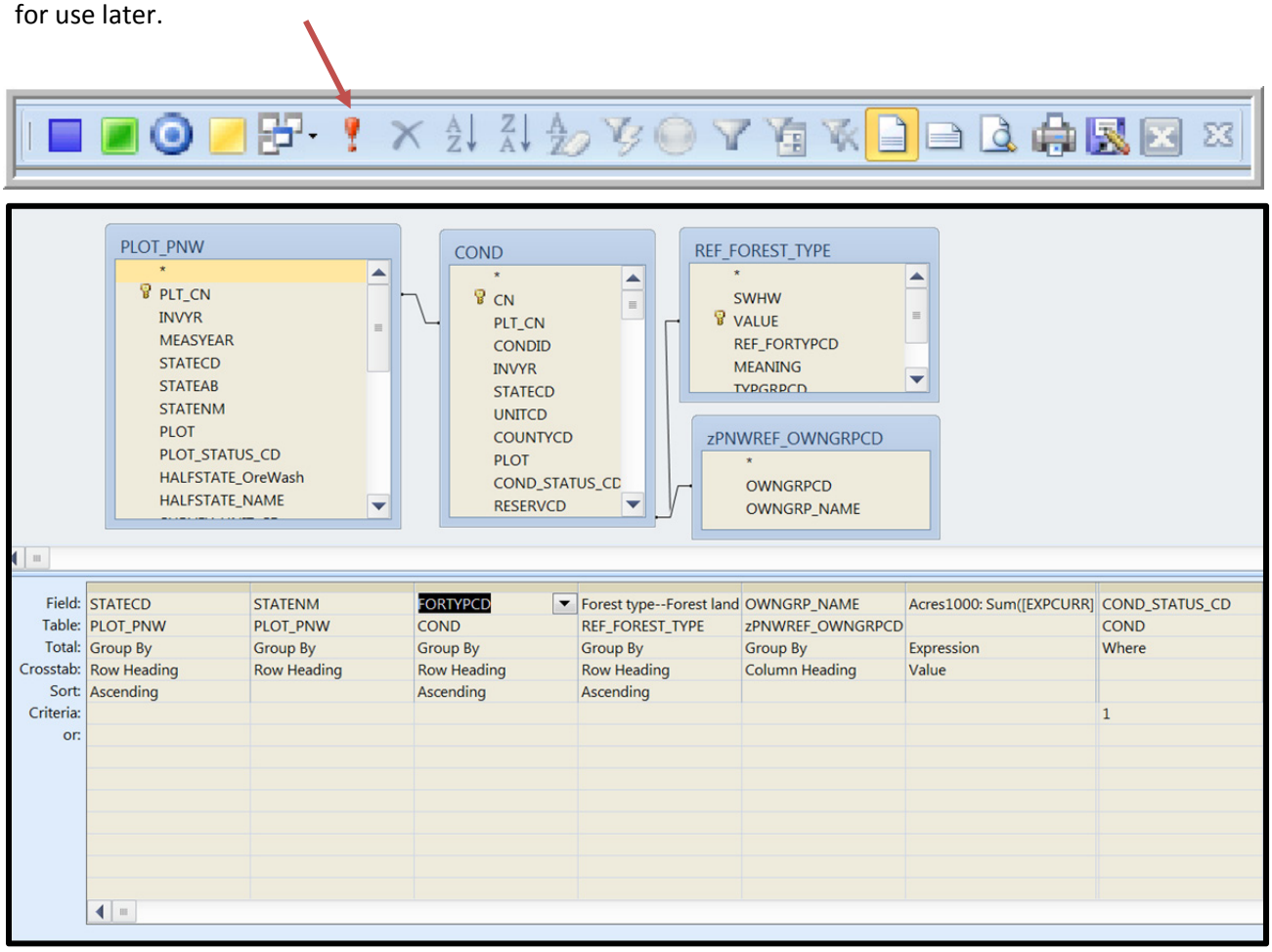




For your convenience, all of your saved queries will be available to you later in the 'YOUR Queries ! ' box at the bottom of the Select-a-Query form.

The screen below is an example of choosing to edit before running. The query is displayed in design mode. You can select a state, or add any column or criteria to the query to answer the question that you have.

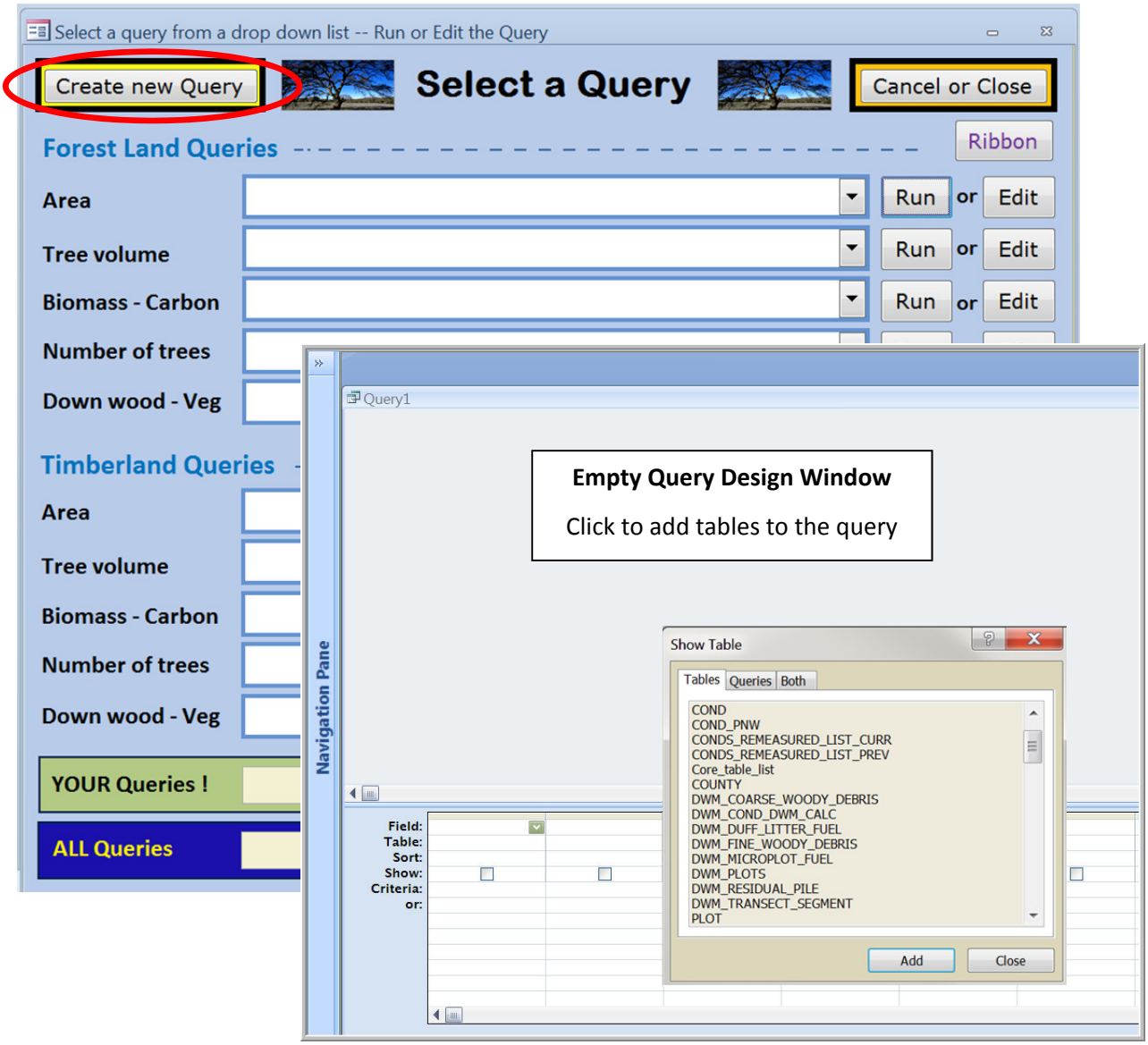
When you are ready to run the query, click on the exclamation mark in the QAT to execute the query.
The results will show up in the output window, which can then be printed or exported to either Excel or Word for use later.



Remember—you can save the output results of your query in Excel or Word.

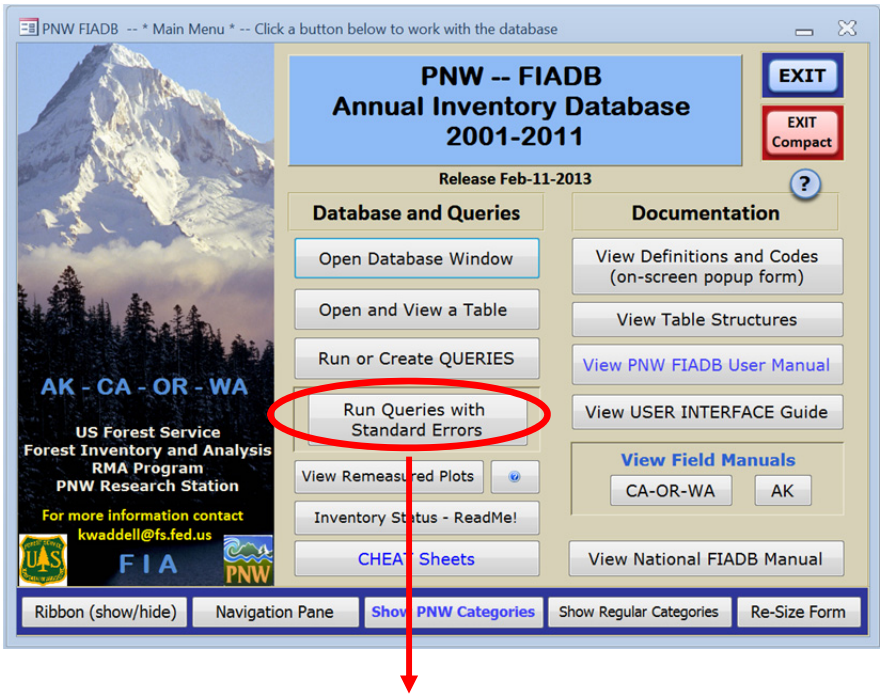
If you click on the GREEN Box in the QAT below, the results will be displayed and saved in Excel.
If you click on the Blue circle in the QAT below, the results will be displayed and saved in Word.

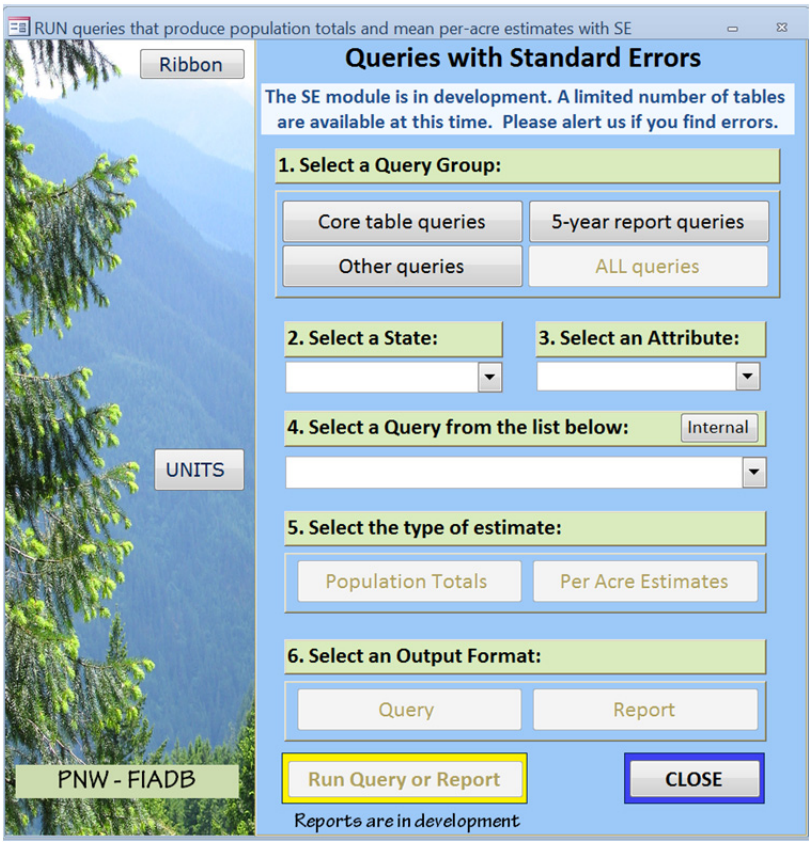
Another option is to create a new query from scratch. To do this, either click CREATE on the Access Ribbon, or click “Create New Query” on the Query form below, and the Query Design Window will open. Proceed to add tables and criteria.



Note: Tables will automatically link properly as you add them to your query. The relational links have been pre-defined in the PNW-FIADB for you.

Another button called ‘Run Queries with SE ‘ allows you to select from a limited set of queries to calculate population estimates, per-acre estimates, and standard errors for both. You must select from a number of pre-defined queries within 3 query groups. As development continues, more queries and additional flexibility will be built into the system.





“Core Tables” are a set of nationally agreed upon summary tables that all FIA units will produce. “5-year report queries” are another set of queries that PNW FIA will publish in the State Reports we publish every 5 years.

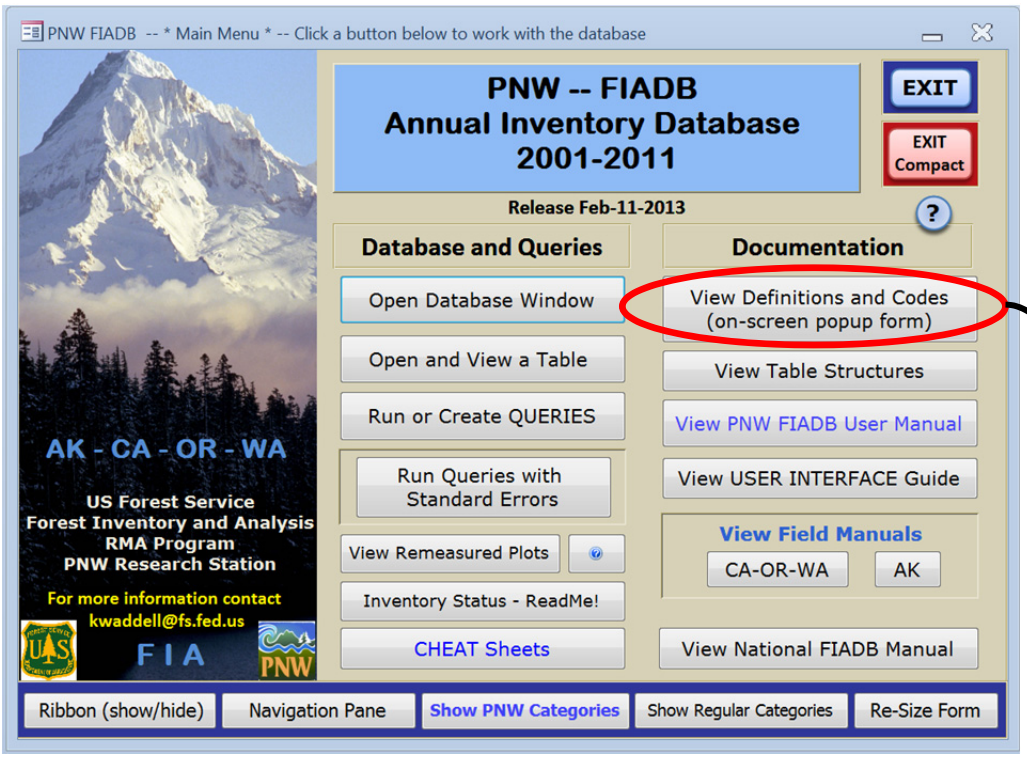
Running these queries is a 6-step process. Go through each step to create the query.

At this time, finalized Reports using the Access Report Writer are not yet available.

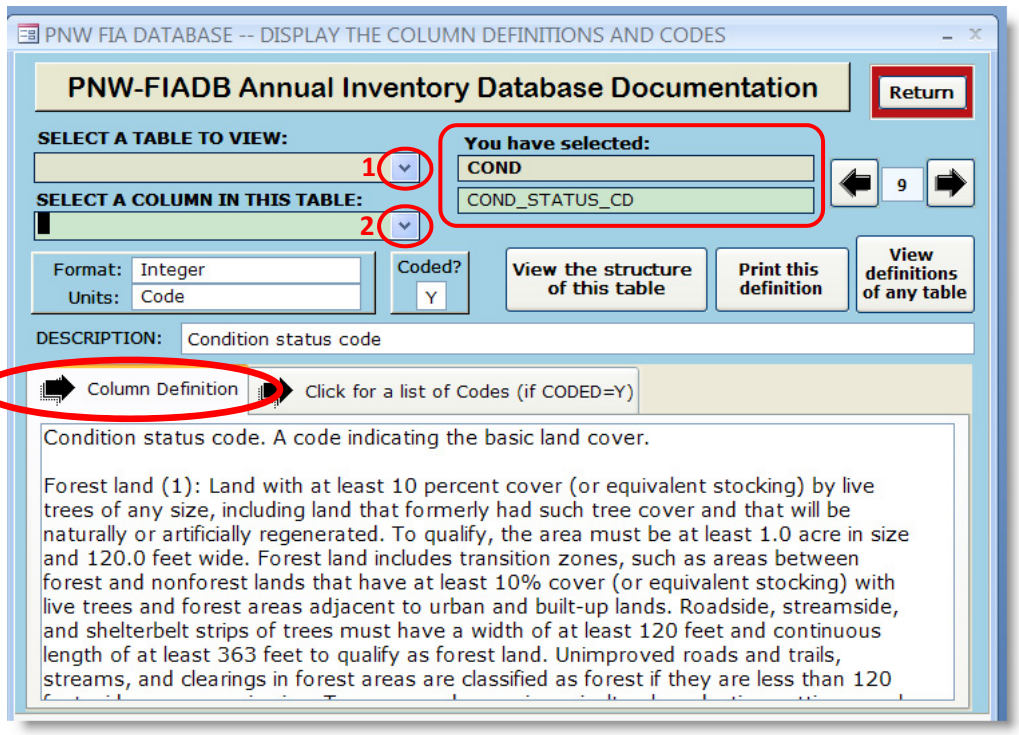
Notice that in addition to standard population estimates, this query module will also produce mean per-acre estimates for many attributes.

DOCUMENTATION at your fingertips

Open a pop-up form to quickly select and view definitions and codes for any column and any table:

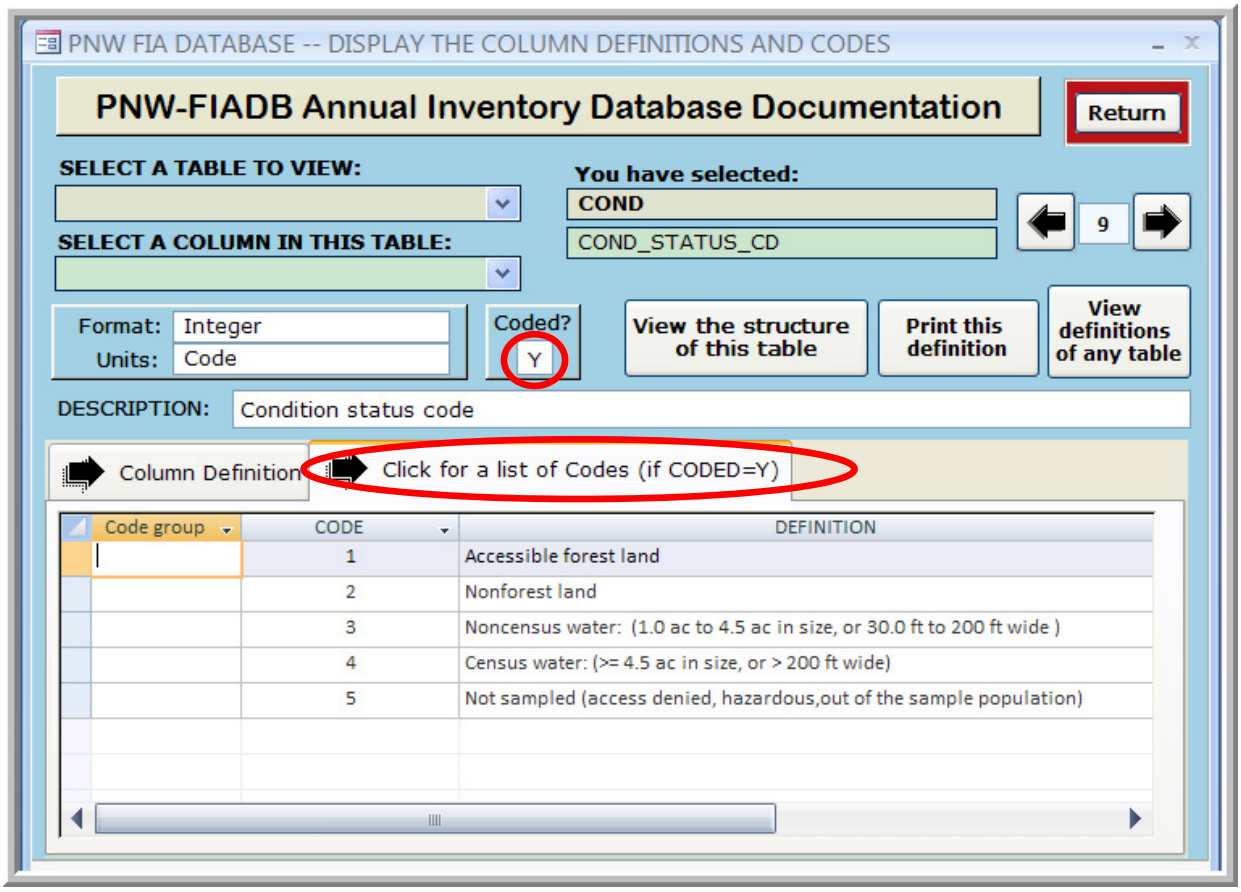


View the DEFINITION for the selected column



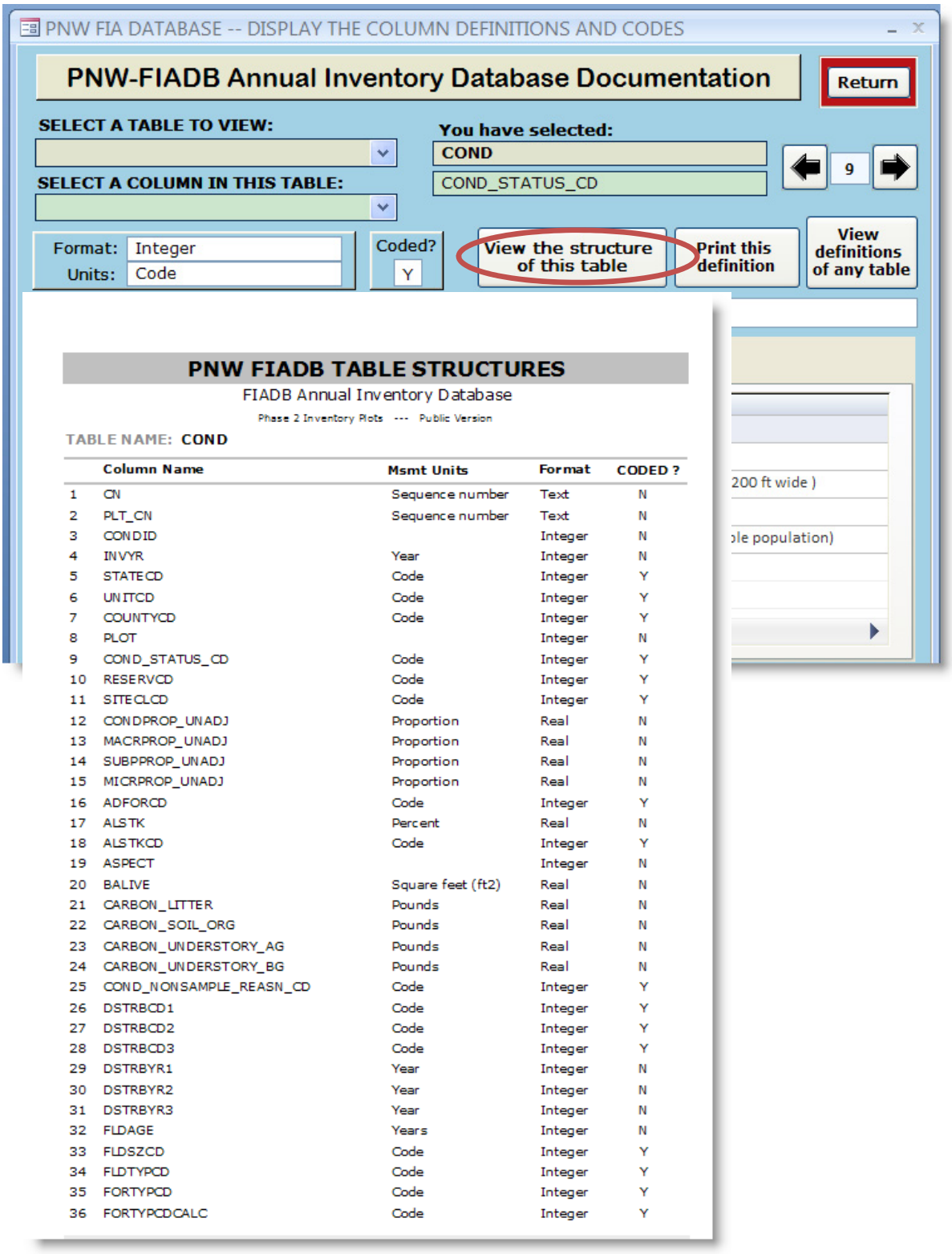
View the CODES for the selected column.

This is a handy way to find valid codes for a column when filtering data or building queries and reports. Simply click on the second tab on the screen to see the codes.

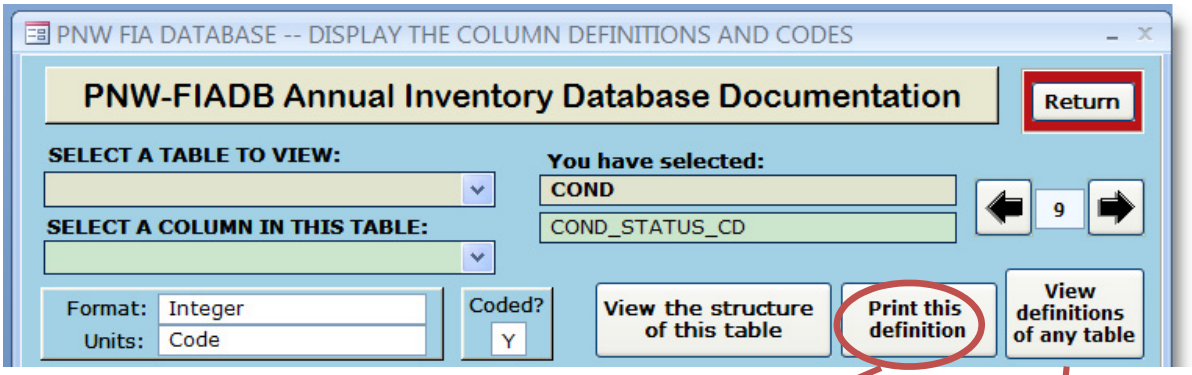


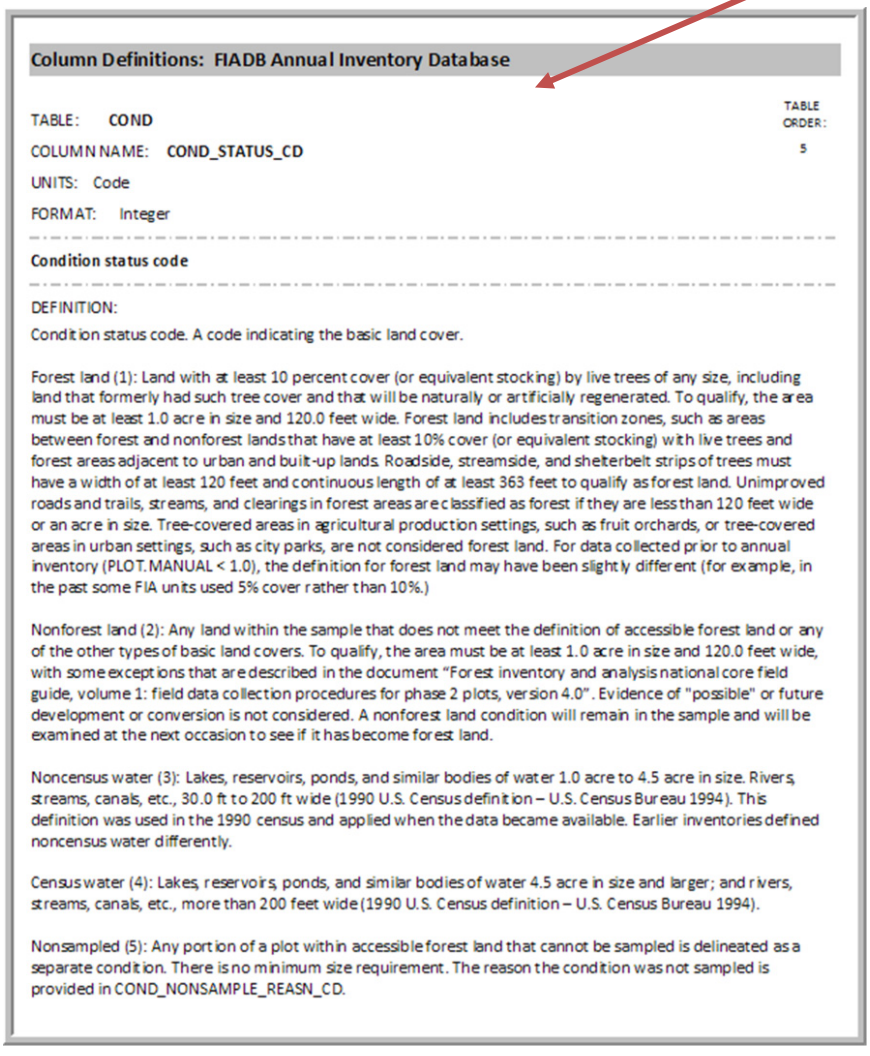
View the table structure where this column is stored, and see a listing of all other columns in the table you have selected.

This is a printable report -- it can be a handy reference as you work with the data.



View a formatted page containing the definition of the selected column. This can be printed as a quick reference or just viewed while working with the data.





Column Definitions: FIADB Annual Inventory Database

TABLE: COND

TABLE ORDER: 5

COLUMN NAME: COND_STATUS_CD

UNITS: Code

FORMAT: Integer

Condition status code

DEFINITION:

Condition status code. A code indicating the basic land cover.

Forest land (1): Land with at least 10 percent cover (or equivalent stocking) by live trees of any size, including land that formerly had such tree cover and that will be naturally or artificially regenerated. To qualify, the area must be at least 1.0 acre in size and 120.0 feet wide. Forest land includes transition zones, such as areas between forest and nonforest lands that have at least 10% cover (or equivalent stocking) with live trees and forest areas adjacent to urban and built-up lands. Roadside, streamside, and shelterbelt strips of trees must have a width of at least 120 feet and continuous length of at least 363 feet to qualify as forest land. Unimproved roads and trails, streams, and clearings in forest areas are classified as forest if they are less than 120 feet wide or an acre in size. Tree-covered areas in agricultural production settings, such as fruit orchards, or tree-covered areas in urban settings, such as city parks, are not considered forest land. For data collected prior to annual inventory (PLOT.MANUAL < 1.0), the definition for forest land may have been slightly different (for example, in the past some FIA units used 5% cover rather than 10%.)

Nonforest land (2): Any land within the sample that does not meet the definition of accessible forest land or any of the other types of basic land covers. To qualify, the area must be at least 1.0 acre in size and 120.0 feet wide, with some exceptions that are described in the document "Forest inventory and analysis national core field guide, volume 1: field data collection procedures for phase 2 plots, version 4.0". Evidence of "possible" or future development or conversion is not considered. A nonforest land condition will remain in the sample and will be examined at the next occasion to see if it has become forest land.

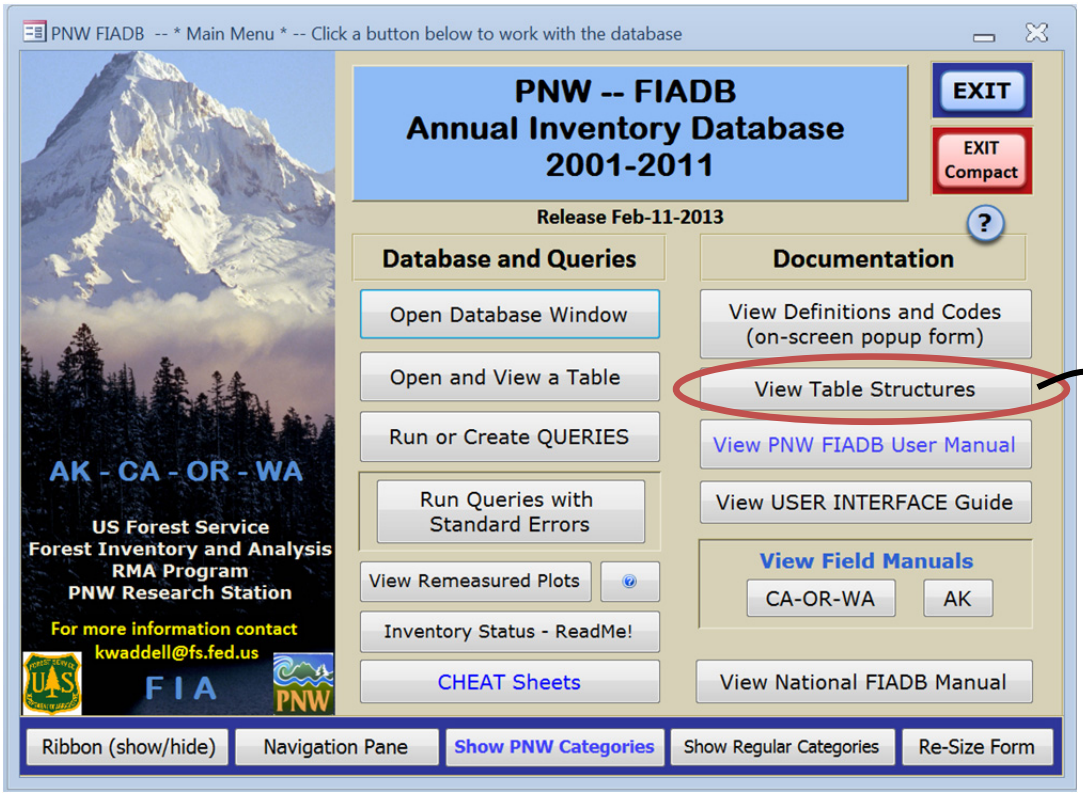
Noncensus water (3): Lakes, reservoirs, ponds, and similar bodies of water 1.0 acre to 4.5 acre in size. Rivers, streams, canals, etc., 30.0 ft to 200 ft wide (1990 U.S. Census definition – U.S. Census Bureau 1994). This definition was used in the 1990 census and applied when the data became available. Earlier inventories defined noncensus water differently.

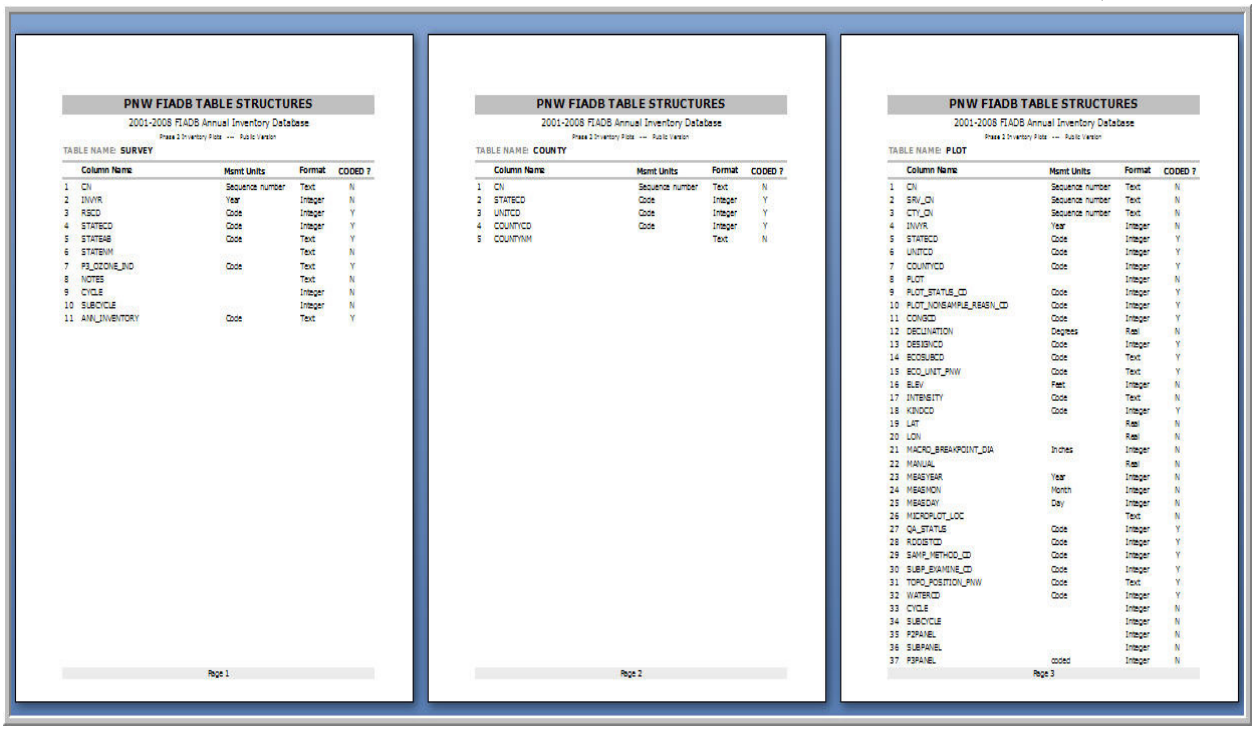
Census water (4): Lakes, reservoirs, ponds, and similar bodies of water 4.5 acre in size and larger; and rivers, streams, canals, etc., more than 200 feet wide (1990 U.S. Census definition – U.S. Census Bureau 1994).

Nonsampled (5): Any portion of a plot within accessible forest land that cannot be sampled is delineated as a separate condition. There is no minimum size requirement. The reason the condition was not sampled is provided in COND_NONSAMPLE_REASN_CD.

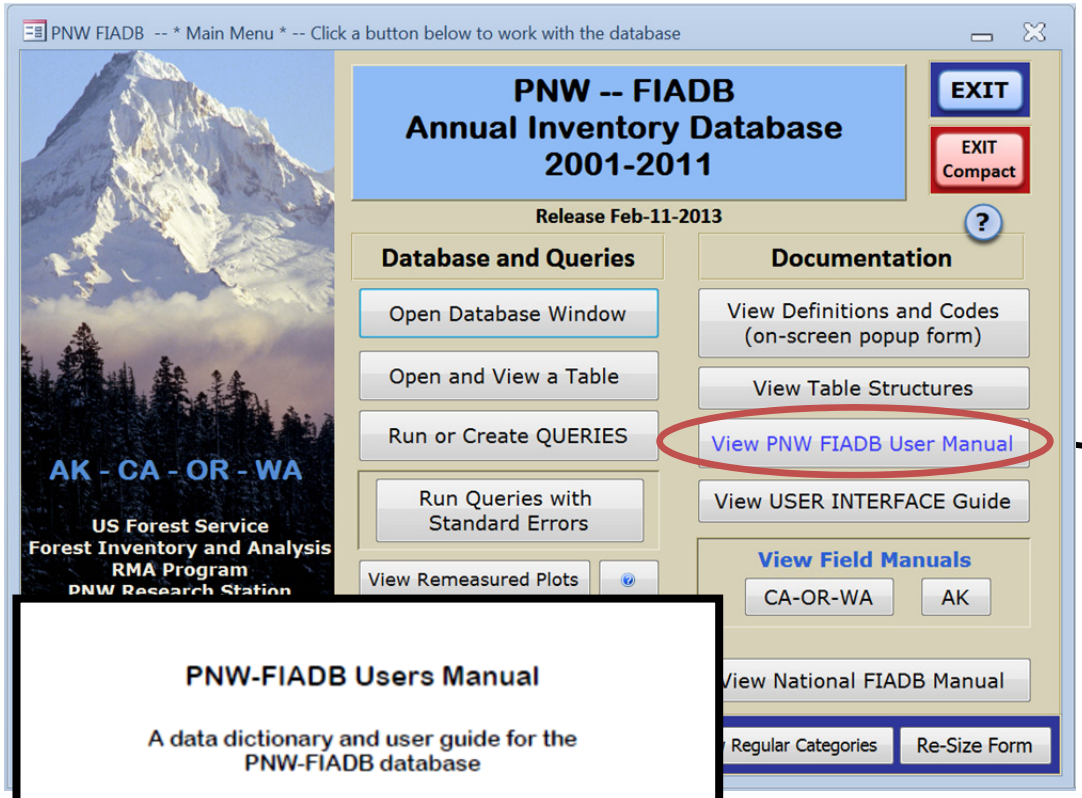
Or, view the definitions of any table in the database.

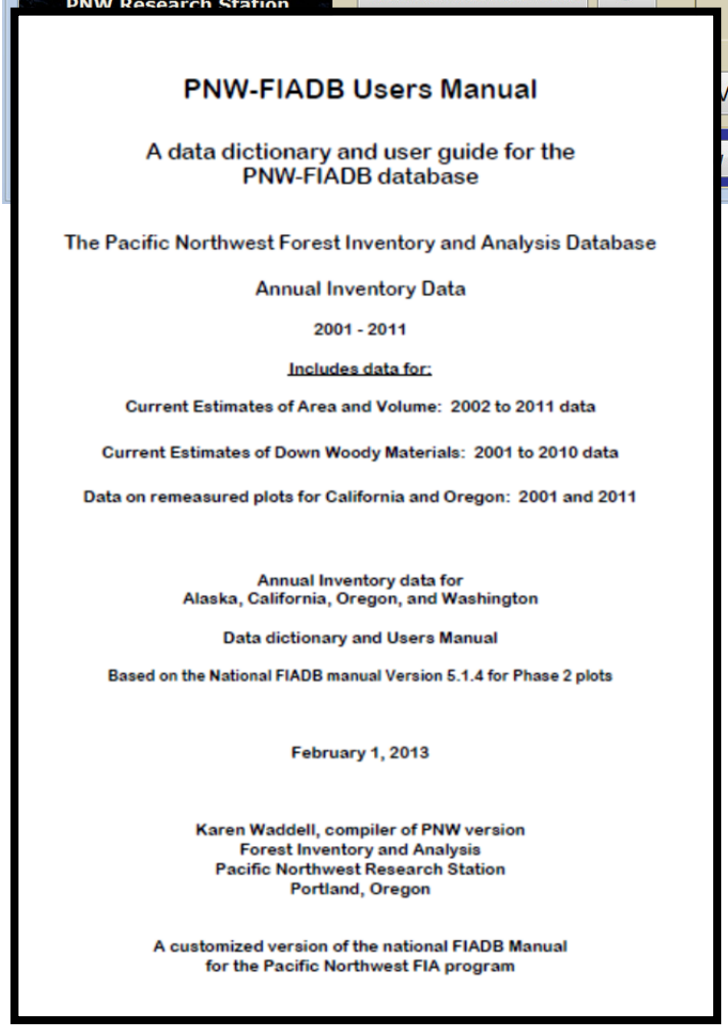
View the structure of all tables:





Open and View Documentation files: Click the PNW-FIADB User Manual button to open up a PDF document that describes every column and table in the database.





PNW-FIADB Users Manual

A data dictionary and user guide for the PNW-FIADB database

The Pacific Northwest Forest Inventory and Analysis Database

Annual Inventory Data

2001 - 2011

Includes data for:

Current Estimates of Area and Volume: 2002 to 2011 data

Current Estimates of Down Woody Materials: 2001 to 2010 data

Data on remeasured plots for California and Oregon: 2001 and 2011

Annual Inventory data for
Alaska, California, Oregon, and Washington

Data dictionary and Users Manual

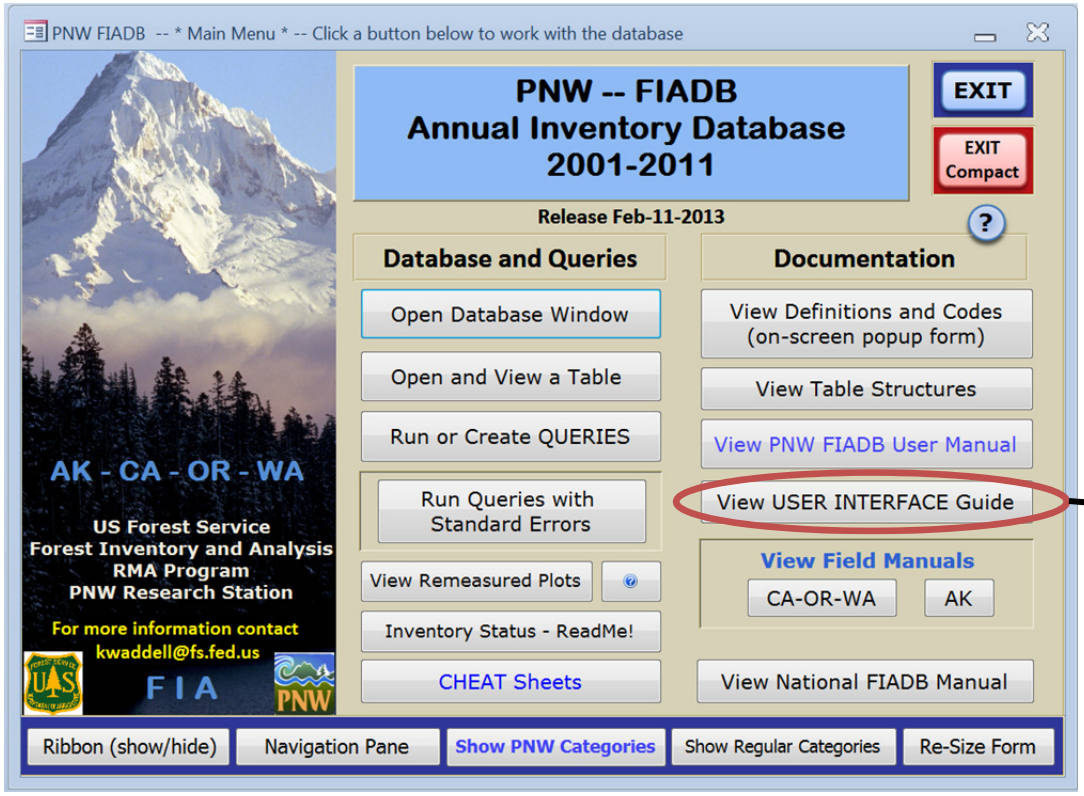
Based on the National FIADB manual Version 5.1.4 for Phase 2 plots

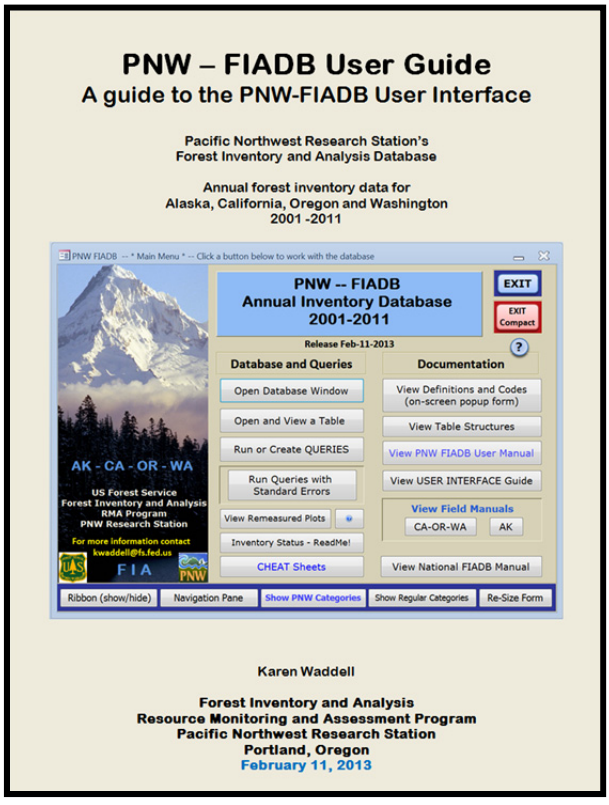
February 1, 2013

Karen Waddell, compiler of PNW version
Forest Inventory and Analysis
Pacific Northwest Research Station
Portland, Oregon

A customized version of the national FIADB Manual
for the Pacific Northwest FIA program

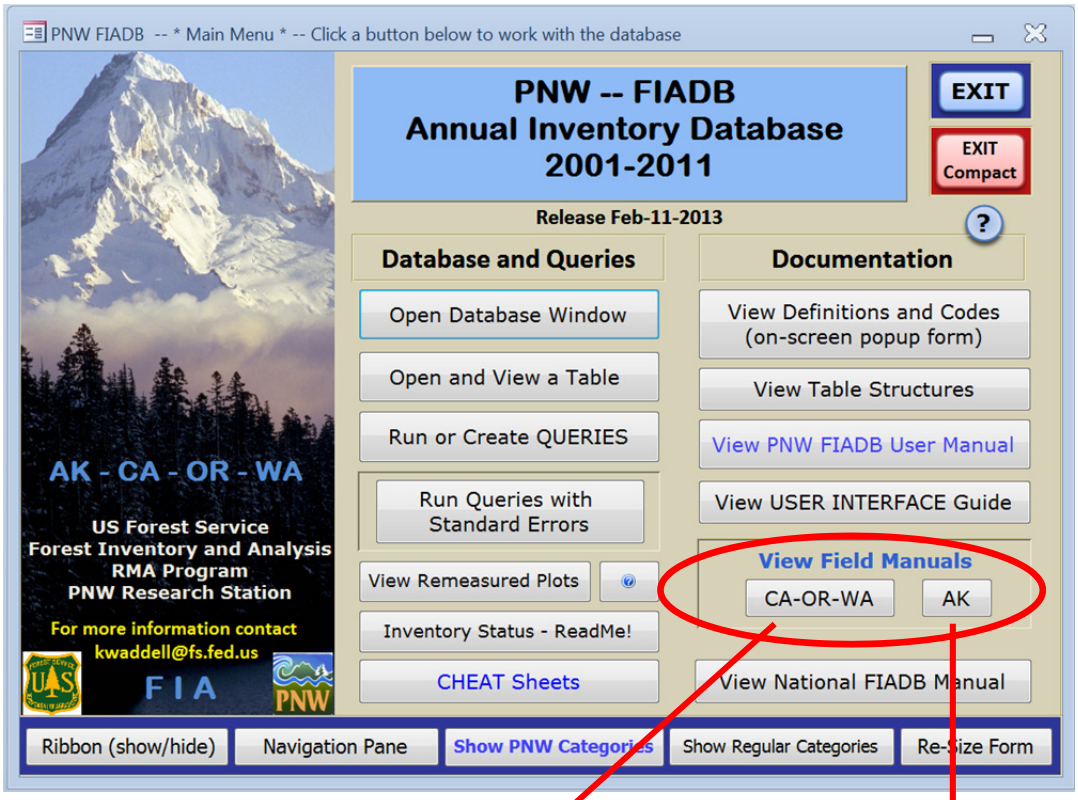
Open and View Documentation files: Click the User Interface Guide to open up a PDF document of the guide that you are reading right now!

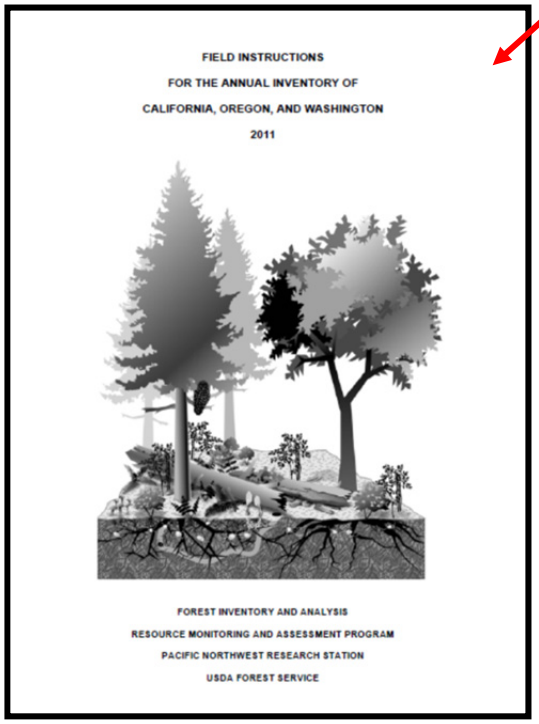


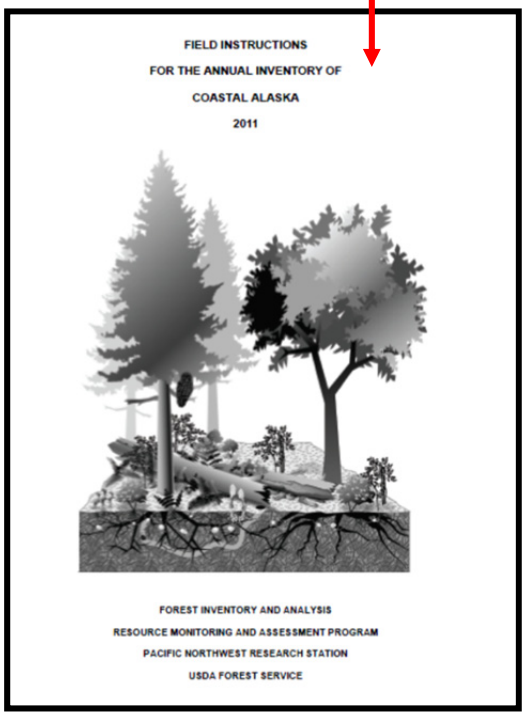


This Document !

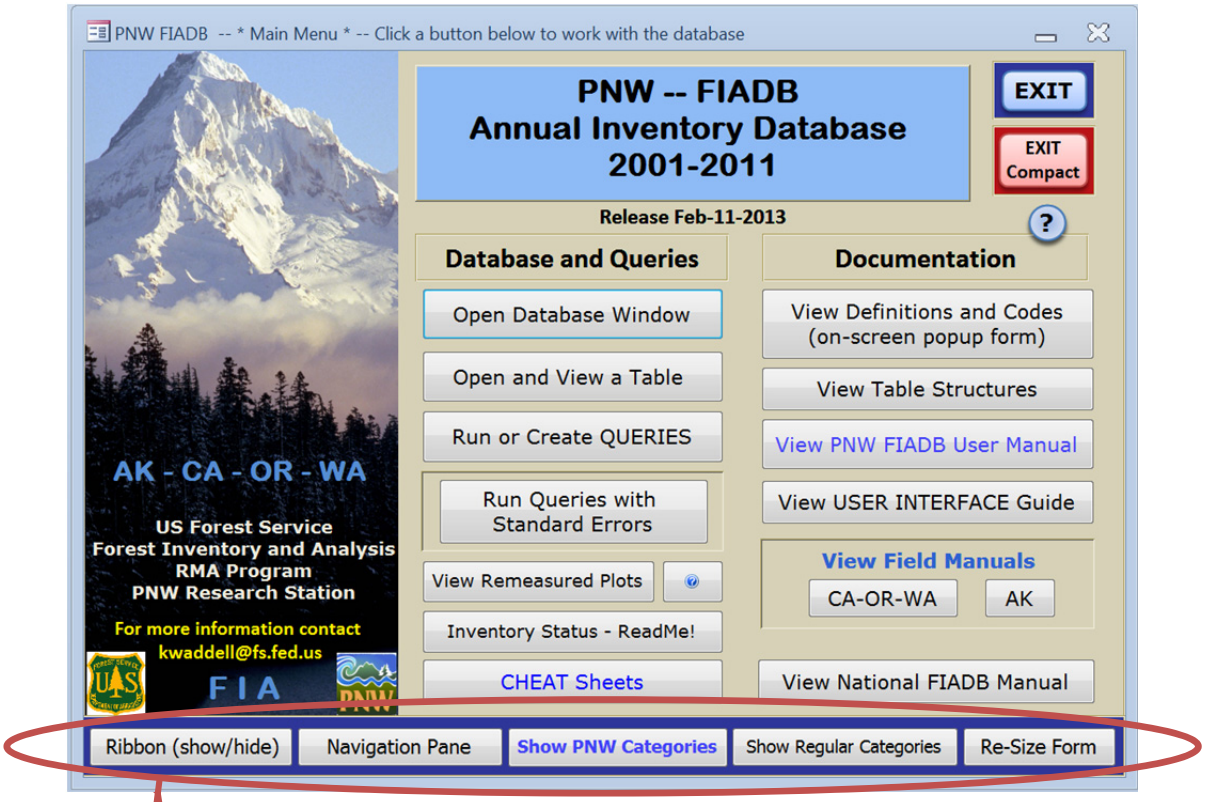
Open and View the current field manuals for a state—this is helpful to review details about how data were collected and to read more information and explanation about measured columns:





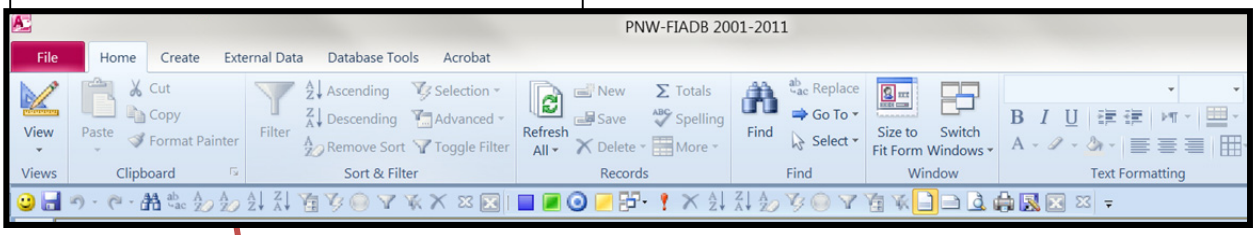


Other helpful buttons to use when working in Access:



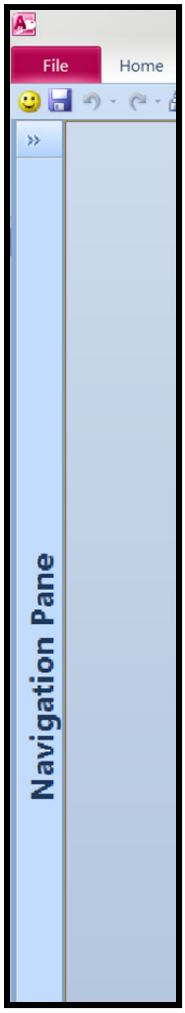
Click to show or hide the ribbon at the top of the screen. This expands or collapses the ribbon.

Expanded -- Show full Ribbon



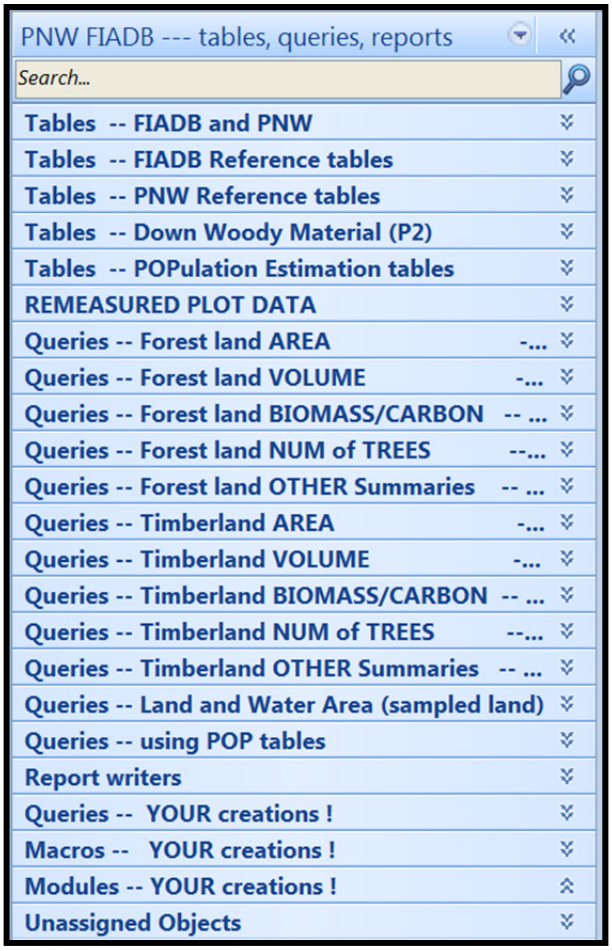
Collapsed – Hide the ribbon

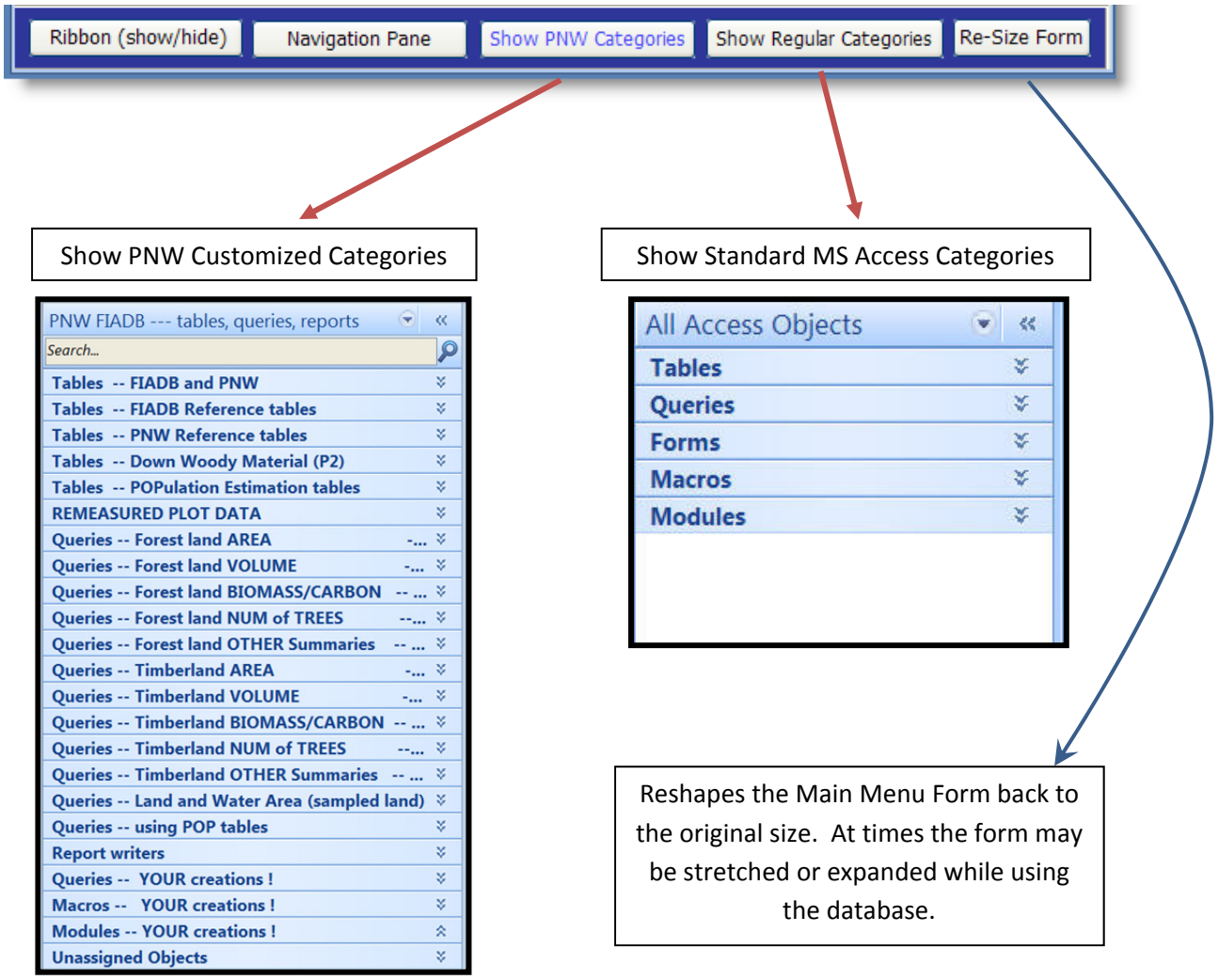
Repeated clicks on these buttons will toggle back and forth between showing and hiding the Ribbon or Pane



Hide Navigation Pane

Show or expand the Navigation Pane





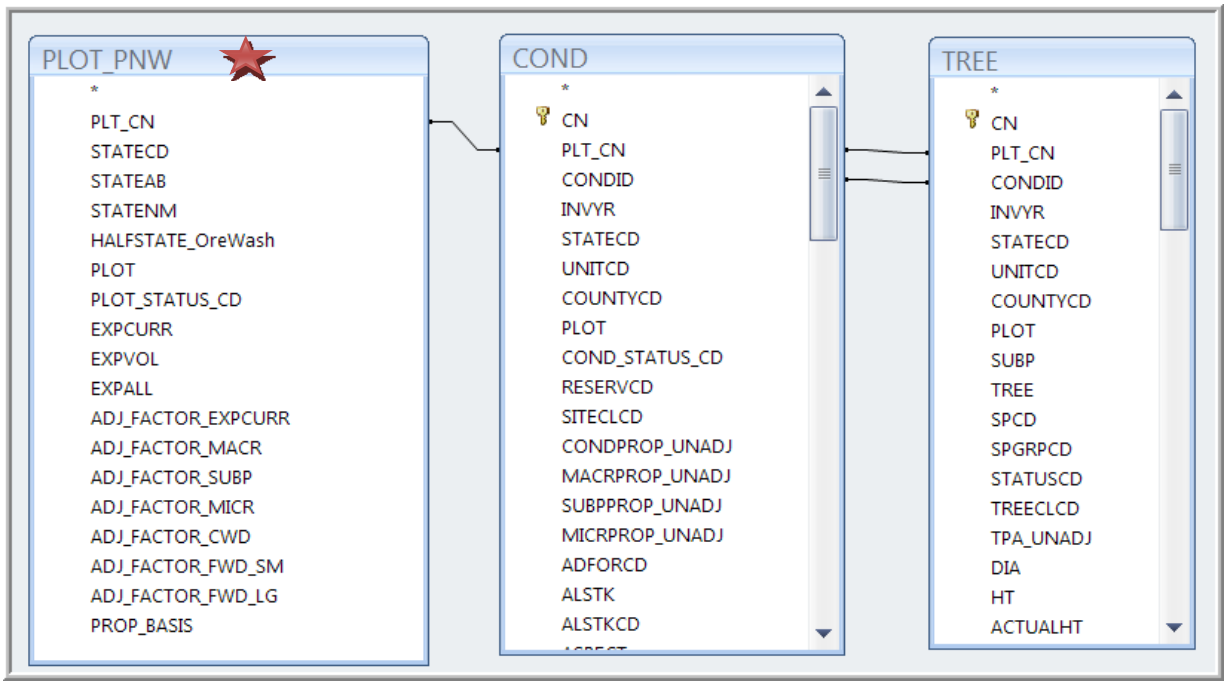
Categories

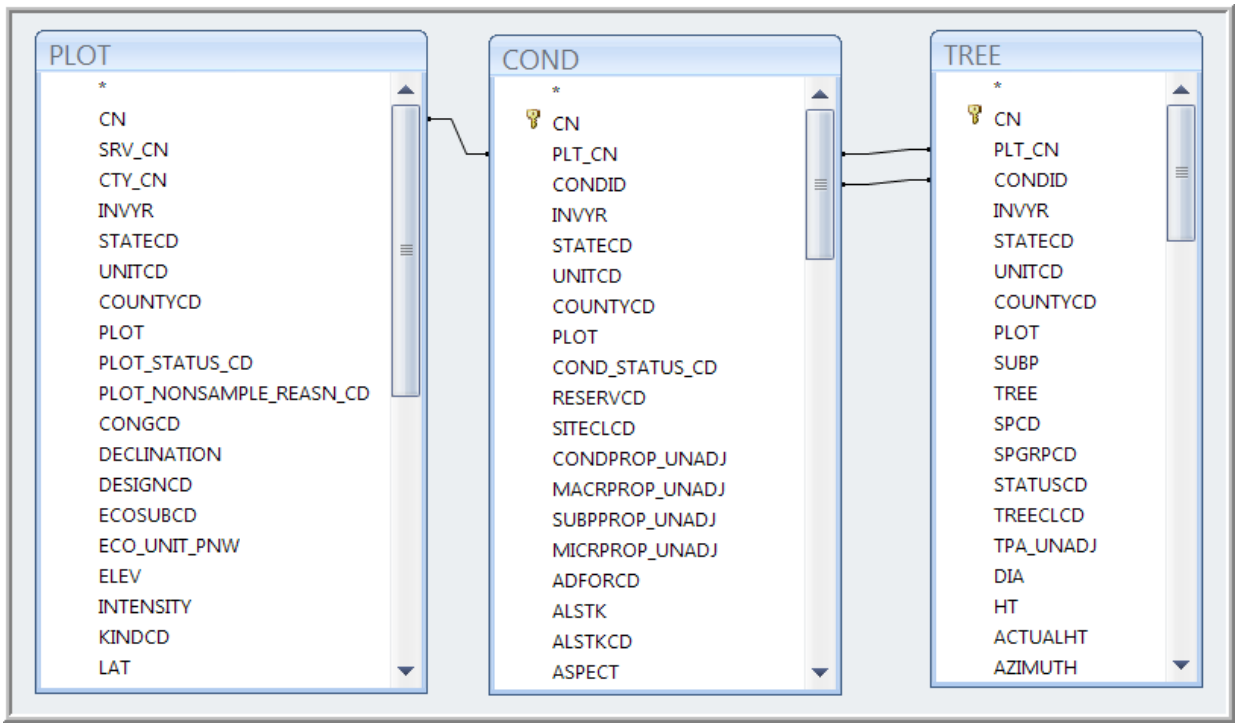
Categories are a way to organize the objects in the database. MS Access has a default category group shown above on the right. All tables are shown within one group, all queries are shown in another group, etc. This can make it difficult to find what you are looking for.

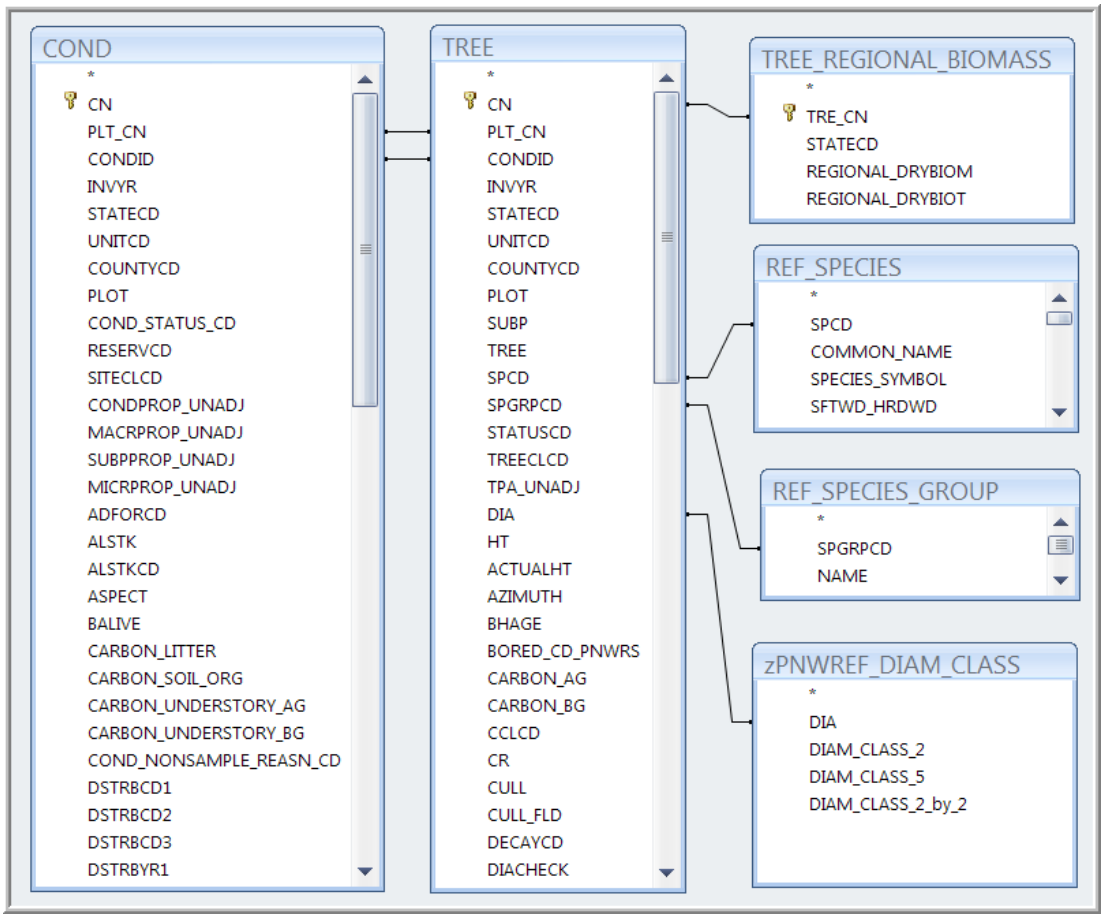
In the PNW-FIADB, custom categories were created to make it easier to find related objects**.** For example, the first group contains both national and regional tables of basic data. The second and third groups contain reference tables that can be used as crosswalks; the fourth group has regional down woody material tables; and the fifth group has all of the 'POP' Population Estimation tables; and so on. All the queries are organized into meaningful groups for ease of use. Note that the custom categories contain shortcuts to the actual objects. If you need to rename or delete an object (table or query), click on the Show Regular Categories button first, to display a list of the actual objects, and then rename. However we strongly suggest that you never rename the queries that come with the PNW-FIADB – rather copy them and create a new query with a new name.

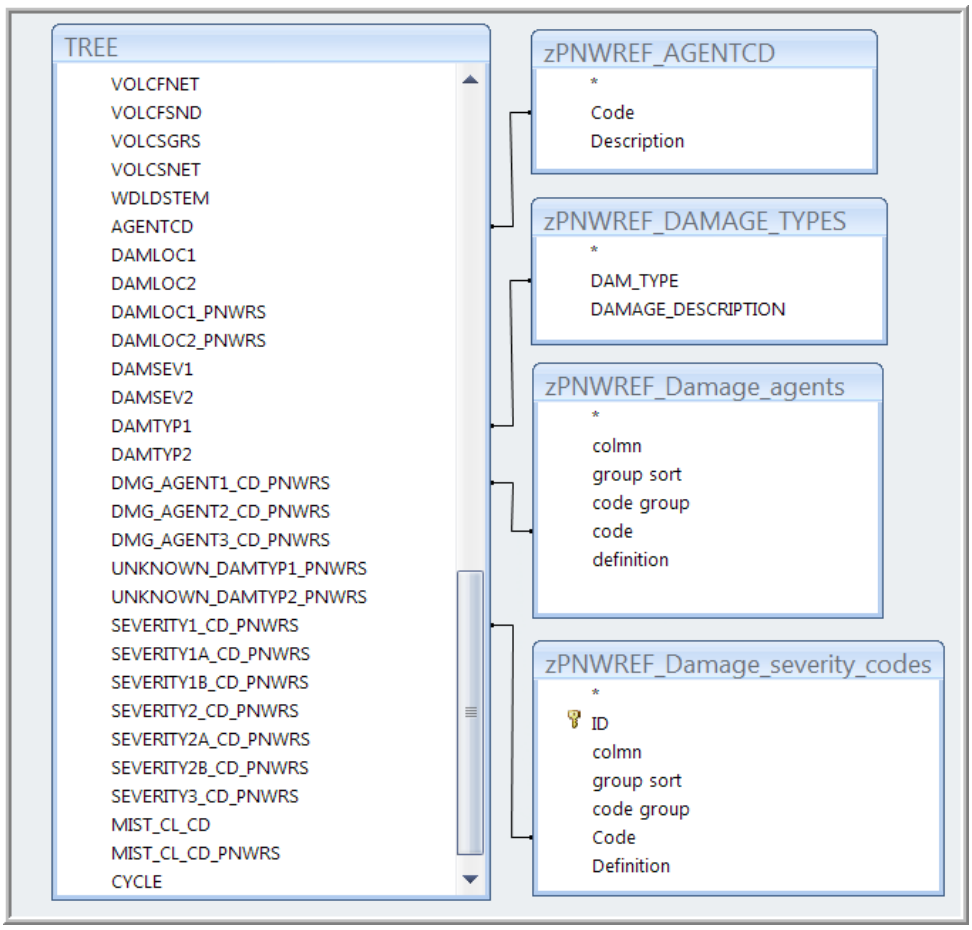
Appendix A. Tables and relational links in the database

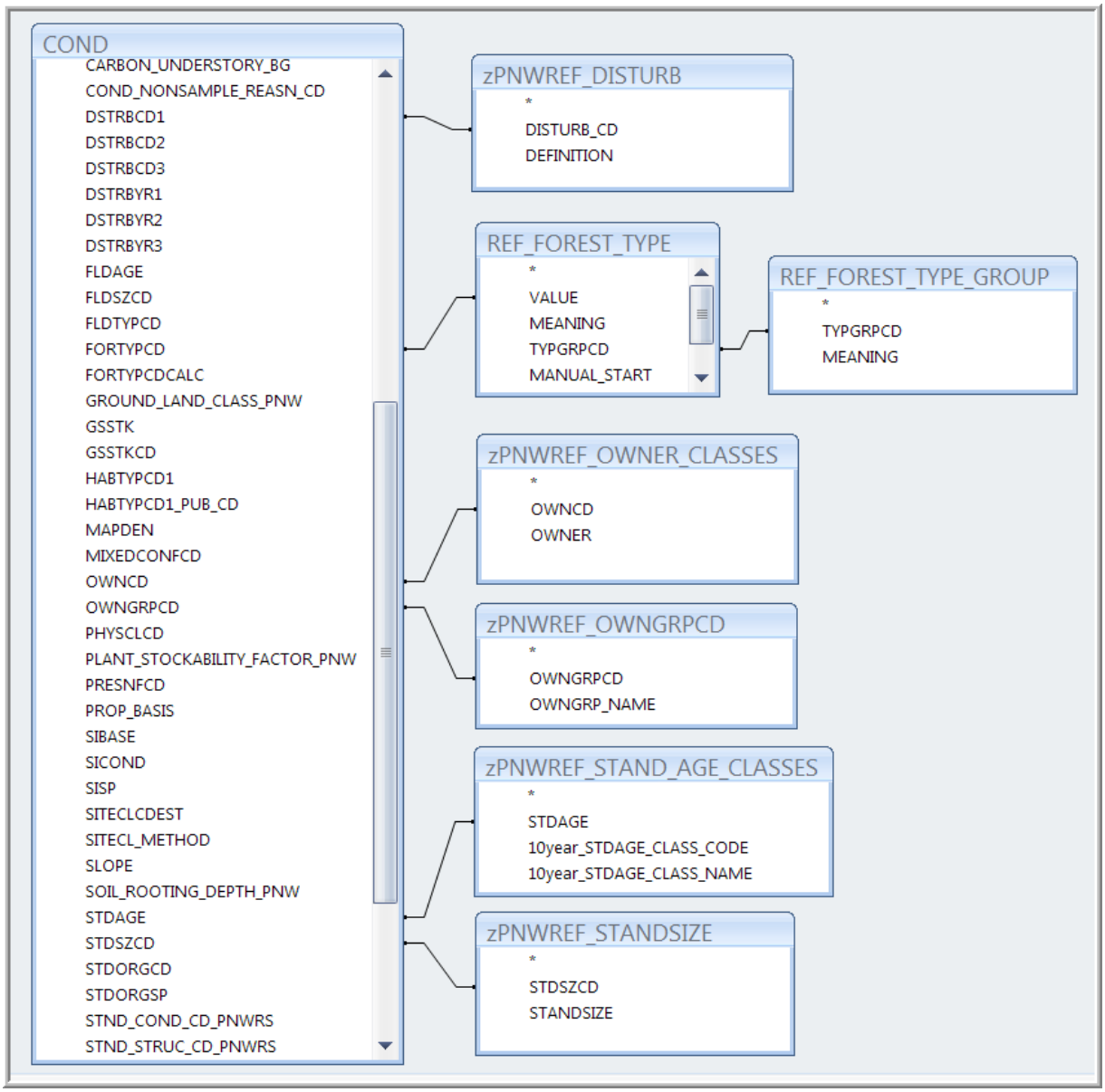
PNW FIADB linkages –Some of the relationships among tables in the database

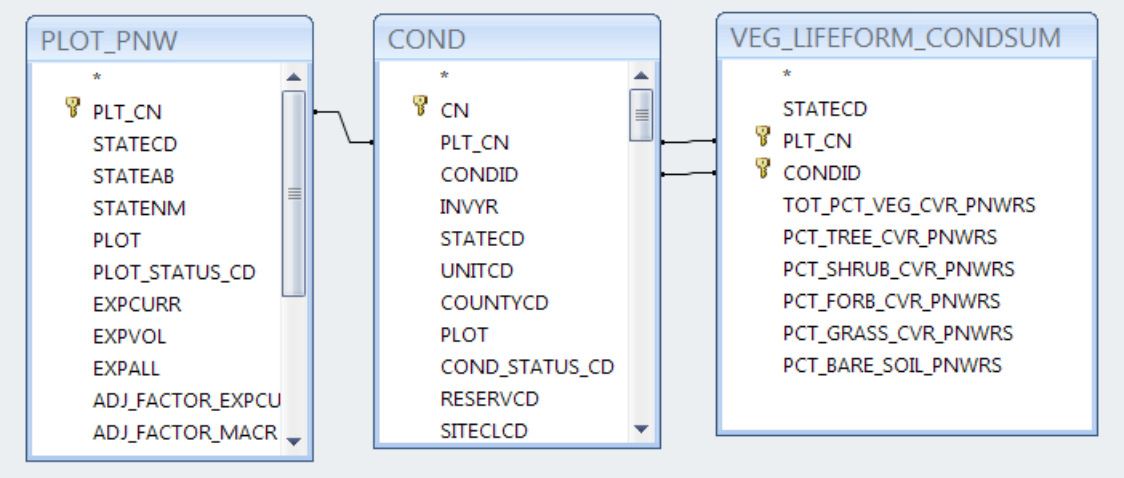


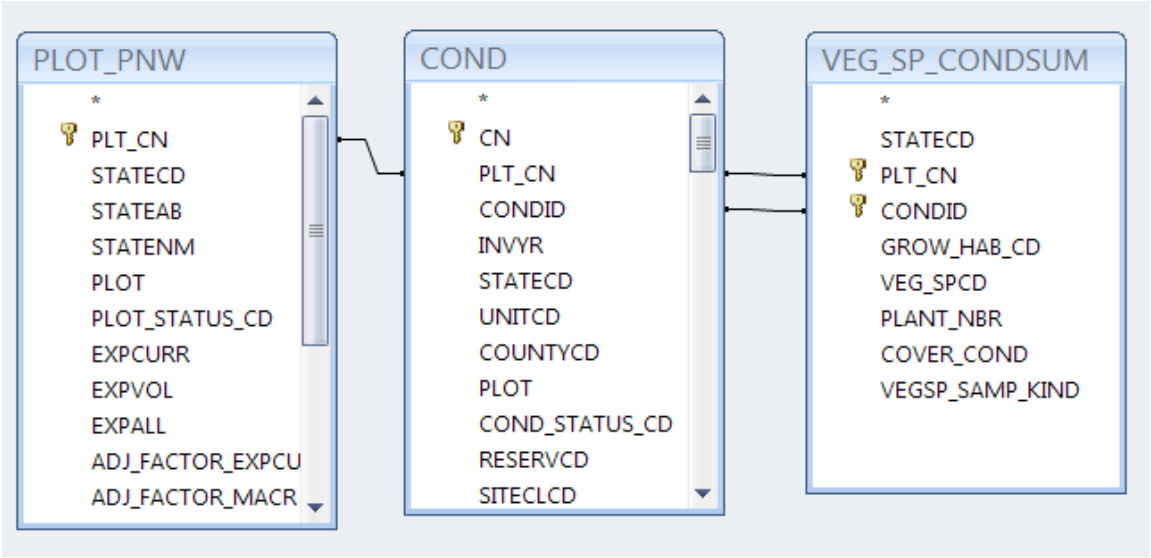


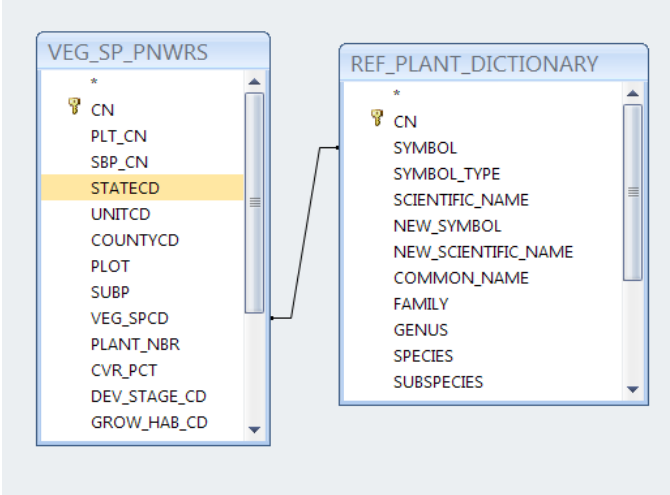

COND
*
CN
PLT_CN
CONDID
INVYR
STATECD
UNITCD
COUNTYCD
PLOT
COND_STATUS_CD
RESERVCD
SITECLCD
CONDPROP_UNADJ
MACRPROP_UNADJ
SUBPPROP_UNADJ
MICRPROP_UNADJ
ADFORCD
ALSTK
ALSTKCD
ASPECT
BALIVE
CARBON_LITTER
CARBON_SOIL_ORG
CARBON_UNDERSTORY_AG
CARBON_UNDERSTORY_BG
COND_NONSAMPLE_REASN_CD
DSTRBCD1
DSTRBCD2
DSTRBCD3
DSTRBYR1
TREE
*
CN
PLT_CN
CONDID
INVYR
STATECD
UNITCD
COUNTYCD
PLOT
SUBP
TREE
SPCD
SPGRPCD
STATUSCD
TREECLCD
TPA_UNADJ
DIA
HT
ACTUALHT
AZIMUTH
BHAGE
BORED_CD_PNWRS
CARBON_AG
CARBON_BG
CCLCD
CR
CULL
CULL_FLD
DECAYCD
DIACHECK
TREE_REGIONAL_BIOMASS
*
TRE_CN
STATECD
REGIONAL_DRYBIOM
REGIONAL_DRYBIOT
REF_SPECIES
*
SPCD
COMMON_NAME
SPECIES_SYMBOL
SFTWD_HRDWD
REF_SPECIES_GROUP
*
SPGRPCD
NAME
zPNWREF_DIAM_CLASS
*
DIA
DIAM_CLASS_2
DIAM_CLASS_5
DIAM_CLASS_2_by_2

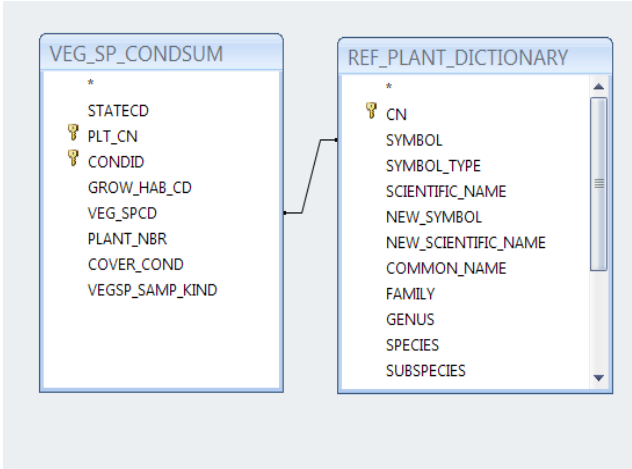

TREE
VOLCFNET
VOLCFSND
VOLCSGRS
VOLCSNET
WDLDSTEM
AGENTCD
DAMLOC1
DAMLOC2
DAMLOC1_PNWRS
DAMLOC2_PNWRS
DAMSEV1
DAMSEV2
DAMTYP1
DAMTYP2
DMG_AGENT1_CD_PNWRS
DMG_AGENT2_CD_PNWRS
DMG_AGENT3_CD_PNWRS
UNKNOWN_DAMTYP1_PNWRS
UNKNOWN_DAMTYP2_PNWRS
SEVERITY1_CD_PNWRS
SEVERITY1A_CD_PNWRS
SEVERITY1B_CD_PNWRS
SEVERITY2_CD_PNWRS
SEVERITY2A_CD_PNWRS
SEVERITY2B_CD_PNWRS
SEVERITY3_CD_PNWRS
MIST_CL_CD
MIST_CL_CD_PNWRS
CYCLE
zPNWREF_AGENTCD
*
Code
Description
zPNWREF_DAMAGE_TYPES
*
DAM_TYPE
DAMAGE_DESCRIPTION
zPNWREF_Damage_agents
*
colmn
group sort
code group
code
definition
zPNWREF_Damage_severity_codes
*
ID
colmn
group sort
code group
Code
Definition

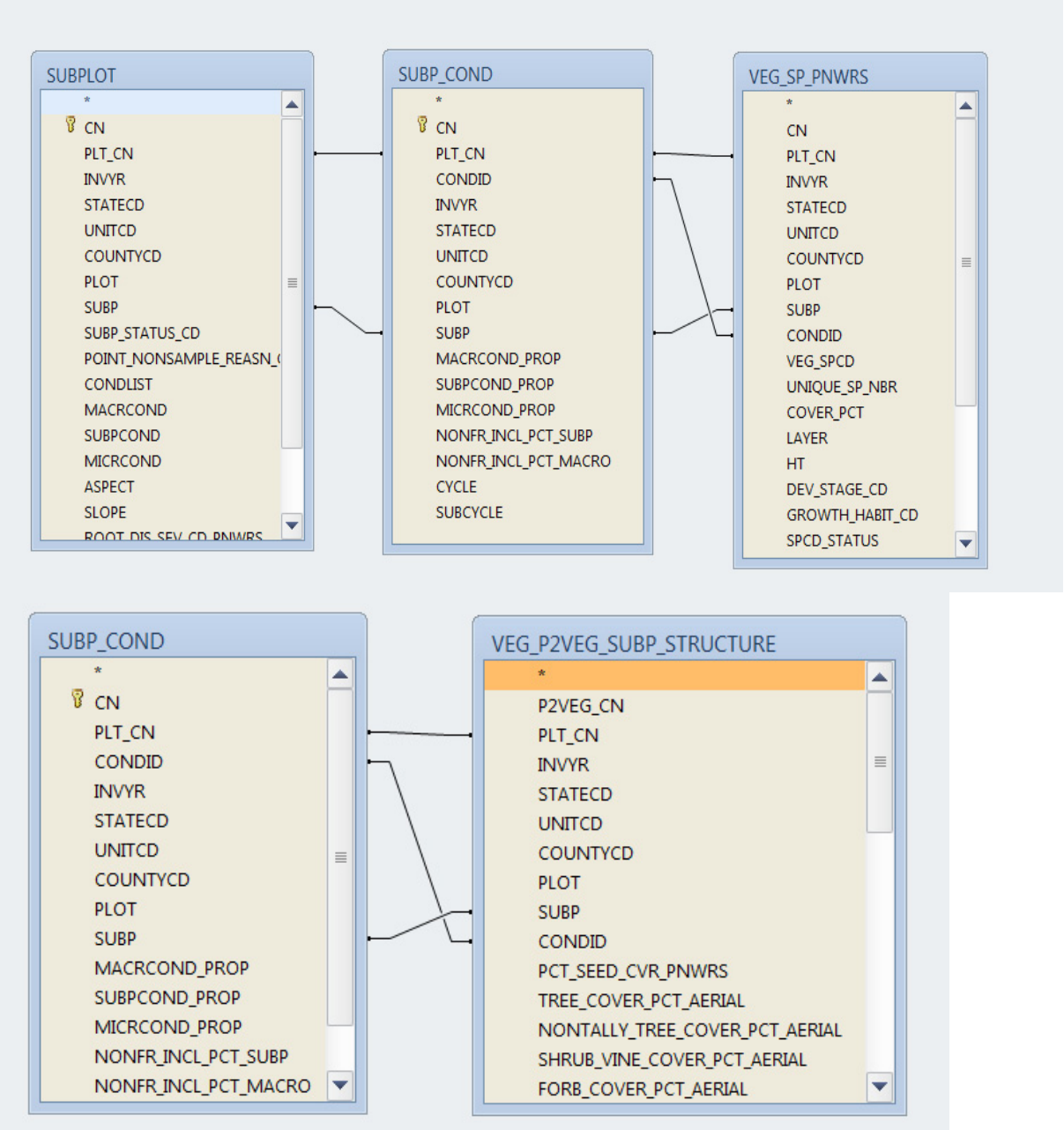

COND
CARBON_UNDERSTORY_BG
COND_NONSAMPLE_REASN_CD
DSTRBCD1
DSTRBCD2
DSTRBCD3
DSTRBYR1
DSTRBYR2
DSTRBYR3
FLDAGE
FLDSZCD
FLDTYPCD
FORTYPCD
FORTYPCDCALC
GROUND_LAND_CLASS_PNW
GSSTK
GSSTKCD
HABTYPCD1
HABTYPCD1_PUB_CD
MAPDEN
MIXEDCONFCD
OWNCD
OWNGRPCD
PHYSCLCD
PLANT_STOCKABILITY_FACTOR_PNW
PRESNFCD
PROP_BASIS
SIBASE
SICOND
SISP
SITECLCDEST
SITECL_METHOD
SLOPE
SOIL_ROOTING_DEPTH_PNW
STDAGE
STDSZCD
STDORGCD
STDORGSP
STND_COND_CD_PNWRS
STND_STRUC_CD_PNWRS
zPNWREF_DISTURB
*
DISTURB_CD
DEFINITION
REF_FOREST_TYPE
*
VALUE
MEANING
TYPGRPCD
MANUAL_START
REF_FOREST_TYPE_GROUP
*
TYPGRPCD
MEANING
zPNWREF_OWNER_CLASSES
*
OWNCD
OWNER
zPNWREF_OWNGRPCD
*
OWNGRPCD
OWNGRP_NAME
zPNWREF_STAND_AGE_CLASSES
*
STDAGE
10year_STDAGE_CLASS_CODE
10year_STDAGE_CLASS_NAME
zPNWREF_STANDSIZE
*
STDSZCD
STANDSIZE


PLOT_PNW
*
PLT_CN
STATECD
STATEAB
STATENM
PLOT
PLOT_STATUS_CD
EXPCURR
EXPVOL
EXPALL
ADJ_FACTOR_EXPCU
ADJ_FACTOR_MACR
COND
*
CN
PLT_CN
CONDID
INVYR
STATECD
UNITCD
COUNTYCD
PLOT
COND_STATUS_CD
RESERVCD
SITECLCD
VEG_LIFEFORM_CONDSUM
*
STATECD
PLT_CN
CONDID
TOT_PCT_VEG_CVR_PNWRS
PCT_TREE_CVR_PNWRS
PCT_SHRUB_CVR_PNWRS
PCT_FORB_CVR_PNWRS
PCT_GRASS_CVR_PNWRS
PCT_BARE_SOIL_PNWRS


PLOT_PNW
*
PLT_CN
STATECD
STATEAB
STATENM
PLOT
PLOT_STATUS_CD
EXPCURR
EXPVOL
EXPALL
ADJ_FACTOR_EXPCU
ADJ_FACTOR_MACR
COND
*
CN
PLT_CN
CONDID
INVYR
STATECD
UNITCD
COUNTYCD
PLOT
COND_STATUS_CD
RESERVCD
SITECLCD
VEG_SP_CONDSUM
*
STATECD
PLT_CN
CONDID
GROW_HAB_CD
VEG_SPCD
PLANT_NBR
COVER_COND
VEGSP_SAMP_KIND


VEG_SP_PNWRS
*
CN
PLT_CN
SBP_CN
STATECD
UNITCD
COUNTYCD
PLOT
SUBP
VEG_SPCD
PLANT_NBR
CVR_PCT
DEV_STAGE_CD
GROW_HAB_CD
REF_PLANT_DICTIONARY
*
CN
SYMBOL
SYMBOL_TYPE
SCIENTIFIC_NAME
NEW_SYMBOL
NEW_SCIENTIFIC_NAME
COMMON_NAME
FAMILY
GENUS
SPECIES
SUBSPECIES


VEG_SP_CONDSUM
*
STATECD
PLT_CN
CONDID
GROW_HAB_CD
VEG_SPCD
PLANT_NBR
COVER_COND
VEGSP_SAMP_KIND
REF_PLANT_DICTIONARY
*
CN
SYMBOL
SYMBOL_TYPE
SCIENTIFIC_NAME
NEW_SYMBOL
NEW_SCIENTIFIC_NAME
COMMON_NAME
FAMILY
GENUS
SPECIES
SUBSPECIES


SUBPLOT
*
CN
PLT_CN
INVYR
STATECD
UNITCD
COUNTYCD
PLOT
SUBP
SUBP_STATUS_CD
POINT_NONSAMPLE_REASN_(
CONDLIST
MACRCOND
SUBPCOND
MICRCOND
ASPECT
SLOPE
ROOT_DIS_SEV_CD_PNWRS
SUBP_COND
*
CN
PLT_CN
CONDID
INVYR
STATECD
UNITCD
COUNTYCD
PLOT
SUBP
MACRCOND_PROP
SUBPCOND_PROP
MICRCOND_PROP
NONFR_INCL_PCT_SUBP
NONFR_INCL_PCT_MACRO
CYCLE
SUBCYCLE
VEG_SP_PNWRS
*
CN
PLT_CN
INVYR
STATECD
UNITCD
COUNTYCD
PLOT
SUBP
CONDID
VEG_SPCD
UNIQUE_SP_NBR
COVER_PCT
LAYER
HT
DEV_STAGE_CD
GROWTH_HABIT_CD
SPCD_STATUS
SUBP_COND
*
CN
PLT_CN
CONDID
INVYR
STATECD
UNITCD
COUNTYCD
PLOT
SUBP
MACRCOND_PROP
SUBPCOND_PROP
MICRCOND_PROP
NONFR_INCL_PCT_SUBP
NONFR_INCL_PCT_MACRO
VEG_P2VEG_SUBP_STRUCTURE
*
P2VEG_CN
PLT_CN
INVYR
STATECD
UNITCD
COUNTYCD
PLOT
SUBP
CONDID
PCT_SEED_CVR_PNWRS
TREE_COVER_PCT_AERIAL
NONTALLY_TREE_COVER_PCT_AERIAL
SHRUB_VINE_COVER_PCT_AERIAL
FORB_COVER_PCT_AERIAL

Using the set of 'POP' (Population) tables to develop population estimates.