FIDO Webinar Training - Exercise 1: Basic Navigation

Created with FIDO version 1.5.1.05 – the screen shots may not match exactly with other versions. Shaded font indicates specific instructions for you to follow; FIDO key words are in bold font.

The objective of this exercise is to familiarize the user with how to navigate FIDO Custom table menus to create a report from a pre-made template.

Users may want to refer to the FIADB Users Manual, which describes the Forest Inventory and Analysis Database (FIADB) structure and defines all the variables in the database. The guide can be downloaded from the FIA Web site library at http://fia.fs.fed.us/library/database-documentation/. FIDO reports are created using the FIADB.

1. Start the FIDO application - From the FIA Data and tools page (http://www.fia.fs.fed.us/tools-data/), click on the FIDO button (Forest Inventory Data Online) to go to the FIDO Welcome Page. The home page provides a general overview of FIDO, and information about the system configuration requirements to run the program.
a. Select Custom Retrievals in the left-hand side box to go to the Custom Retrieval Welcome page.

2. Custom Retrieval Welcome Page

a. This page provides a list of the steps involved in creating a report. As you’ll see later, some of the steps are skipped over because they are already pre-selected (e.g. Set Summary Attribute), or are optional (e.g. Set Filter Options). Review the list and the descriptions of what each step entails. Note that these buttons are not active on this page, but will be active once you start the Custom report application.

b. Click on the Begin Creating Custom Reports>> button to start the Custom FIDO session.
3. Layout of the FIDO tool site. Every page has 3 sections.
   
   a. The right hand column displays the 8-step menu buttons for building a custom report.
   
   b. The left hand column contains selections that are dependent on which menu is currently running.
   
   c. The upper middle space is the area where the report output, information on the menus, and maps of the geographic area of your report are displayed. The lower middle space contains the FIDO Wizard, which provides instruction for the current menu and an update as to the status of the report.

   As you’ll see in subsequent menus, the Wizard’s Continue>> button leads the user to the next step required to create a report. Also, a Hide Wizard option will become available that will provide more viewing space for the upper middle section.

4. Start New Retrieval Page
   
   a. The report template is the basic structure of the report, and is the first step towards generating a report. The templates are organized by general summary attribute (e.g. area
of land, tree volume). Note the **FIDO Wizard** states that, in order to continue, a report template must be selected.

b. Click on **Net** in the **Tree Volume** category in the left hand column to view the list of report types that use net tree volume for a report summary attribute.

c. Click on the radio button next to **Live trees >= 5” diameter**. Notice that the middle display section now contains descriptive information about the summary attribute (1), and a selection of report layouts (2).
d. Review the descriptive information for net volume of live trees (use the scroll bar to view all). Choose **By Ownership and Reserved status** for your report layout. The **Selected template information** now includes descriptions of **Ownership** and **Reserved status** attributes for your review. To continue, click on **Use as Template**.
5. **Define Region of Interest**

FIDO then automatically takes you to the next step that it needs to complete the report process, **Define Region of Interest**.

Note that FIDO skipped over steps **Set Summary Attribute** and **Design Report Layout** because these steps have already been taken care of in the pre-made template. Step **Select Filter Options** was skipped over because it is not a requirement to produce a report. When you click on the **FIDO Wizard Continue** button, the program will always jump to the next step required to produce a report.

Also note that the **FIDO Wizard** now contains the report information – what has been selected thus far and what information is still needed to complete a report.

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a. The **Region of Interest** refers to the county(s), state(s), ecoregion(s), or circular boundary on which the report is based. Note that **FIDO Wizard** states that this step is required in order to continue (also note the **Minimize Wizard** option has appeared).

b. Selections can be made using the list on the left hand column or by using the map in the display window. This demo will show you both options.
c. Check the **Display map** box to view the map of the U.S. (depending on the network traffic, it may take a few seconds for the map to appear).

d. To get a larger view of the map, **click on the Minimize Wizard box**.

e. Navigation can be accomplished in a variety of ways. You can pan the map either with a left mouse click and hold; or, use the up, down, right and left arrow buttons on the navigation bar.

Zoom in with a double-left click, zoom out with a double-right click; or, use the + and – scale.

Note the various map view options – **OpenStreetMap**, **Google Physical**, **Streets**, **Hybrid**, and **Satellite**. Click on the options to view the different effects.
f. **Zoom in on Michigan, and choose Google Physical view.**

![Map of the United States with a box around Michigan](image)

**Base Layer**
- OpenStreetMap
- Google Physical
- Google Streets
- Google Hybrid
- Google Satellite
- Overlays
  - Forest Service Layer

**Survey Units:**
- Eastern Upper Peninsula (1)
- Western Upper Peninsula (2)
- Northern Lower Peninsula (3)
- Southern Lower Peninsula (4)

**Counties:**
- Alcona (1)
- Alger (3)
- Allegan (5)
- Alpena (7)
- Antrim (9)
- Arenac (11)
- Baraga (13)
- Barry (15)
- Bay (17)
- Benzie (19)
- Berrien (21)

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g. **Click on Michigan (26) in the Region selection scroll box to view the list of Michigan FIA Survey Units and Counties. What is displayed on the map?**

h. **On the map, select and highlight counties in Michigan with a click of the mouse.**
i. What happens to the Michigan county list on the left side of the screen?

j. Click on the box next to Michigan (26). - Now what is selected on the map?
k. Click on the check box next to Michigan (26) in the state list to deselect.

l. Close up the county selection list by clicking on Michigan again. The county boundaries on the map should disappear.

m. Click on Michigan and Wisconsin on the map to highlight and select both states.

n. Uncheck the Minimize Wizard box. Review the FIDO Wizard to see that Michigan and Wisconsin now comprise the Area of Interest and that Survey Years are still to be determined. Click Continue to go to the next step, Choose Survey Years.
6. Choose the Survey Years - the survey year represents the set of plots that are used to make an estimate. For FIA annual-basis inventories, the survey year defines the last annual inventory year for the rolling-panel set of plots. For FIA periodic-basis inventories, the survey year is the year that best represents when the set of plots were measured. For example, Michigan survey year 2012 contains all the plots measured in the 5 annual inventory panels from 2012, 2011, 2010, 2009, 2008, while survey year 2007 contains the 5 annual inventory panels from 2007, 2006, 2005, 2004, 2003.

   a. Click on the box next to 2012 (MI, WI) to view the listings of the surveys in the middle display area. These describe the years of the survey and what kind of estimations (timberland and/or forest land) can be produced with that survey. The default is that both state surveys are selected for 2012. To choose only one state for a survey year, click on the box next to the individual state/year in the display area.
b. Choose 2007 and 2012 surveys for both states.

c. Click on Continue >>, FIDO moves to the next step, Produce Report.
7. **Produce Report**

   a. Your report is listed in the left column. The **FIDO Wizard** now includes all the options that have been selected for the report.

   ![Image of FIDO Wizard interface]

   b. To produce the report, click on the **Submit** button (once!).

   “**Your request has been submitted**” appears in the display window. The report list button revolves around until the report is ready for you to choose the display options.

   ![Image of report list]

   c. When finished, “**This report is ready to be displayed**.” will appear in the report window. Display options appear in the left column.
d. **General options** apply to all report formats, while **Mapping options** apply to **Map** format only. Click on **General options** to view the list. Click on the box next to **Customize report title** and type in your own title. The option, **Show empty rows**, displays all possible categories of the row attribute, regardless of zero values for those categories. The option, **Metric measurement**, displays the report in metric units.

![Report display](image)

- **This report is ready to be displayed.** Choose an output format and click the "display" button in the left menu.
- 44,158 plots were processed in 32 seconds.

e. The default format is **Html Table.** Use this default, and click on the **Display** button. The report appears in the center of the screen.

![Report display](image)

- **Net volume of live trees (at least 5 inches d.b.h./d.r.c.), in cubic feet**
- (The color of each estimated value represents its percent sampling error (pse); if estimate is black, pse is less than or equal to 25%; if estimate is teal, pse is greater than 25% and less than or equal to 50%; if estimate is gold, pse is greater than 50%)

- **Net volume of live trees (at least 5 inches d.b.h./d.r.c.), in cubic feet, on forest land**

<table>
<thead>
<tr>
<th>Ownership</th>
<th>Not reserved</th>
<th>Reserved</th>
</tr>
</thead>
<tbody>
<tr>
<td>National forest (42)</td>
<td>51061492228</td>
<td>227663366</td>
</tr>
<tr>
<td>National Park Service (21)</td>
<td>4064235257</td>
<td>4064235</td>
</tr>
<tr>
<td>Fish and Wildlife Service (23)</td>
<td>47107249</td>
<td>56721324</td>
</tr>
<tr>
<td>Department of Defense or Energy (24)</td>
<td>7616</td>
<td>7616</td>
</tr>
<tr>
<td>Other (25)</td>
<td>392611608</td>
<td>191561</td>
</tr>
<tr>
<td>Total (26)</td>
<td>6417390178</td>
<td>154373487</td>
</tr>
</tbody>
</table>

f. To get a better view of the report, click the maximize button in the upper right corner of the **Report display**.
g. There are 10 tables displayed in the report. The first five are forest land estimates for the two states and two survey years, followed by a summary report for forest land. The last five are timberland estimates for the two states and two survey years, followed by a summary report for timberland. Scroll down to view the reports. Note the different colors of the values throughout the table output. These indicate the range of percent sampling errors (pse) at 68% confidence interval; black estimates represent a pse of 25% or less, green is 26-50%, and red is greater than 50%. Move your cursor over any estimate to view the exact percent sampling error.

h. Scroll to the bottom of the report to view the Domain break descriptions included in the report.

i. Other display options and formats – The other display formats are: PDF, Spreadsheet (MS Excel), and Map (Google map). General options apply to all display formats, while Mapping options apply to the Map format only.

j. Choose the Spreadsheet and then the PDF options (map display will be used in the next exercise).
Note that the spreadsheet contains two worksheets – the first one contains the report estimates and the second one contains the percent sampling errors.
The PDF output contains the estimate and pse on the same line.
Both outputs can be saved for future use.
k. **Other options – Copy, Edit, Delete**

The **Edit** button will make the task buttons available, so that the report can be changed (user can alter anything – from the **Summary Attribute** to **Survey Years**)

The **Copy** button will add a duplicate report to the report list, which can then be edited. The **X** button next to the report will remove the report from the list.

![Report list with Copy, Edit, and Delete buttons](image1)

8. **Copy and Edit the report.**

   a. **Click on the Copy button** to add a copy of your report to the list. You can then **click on the Edit button** to make changes to the report, while keeping a copy of the original report available to you in your session.

![Report list with Copy, Edit, and Display buttons](image2)
b. “You can now edit your request” appears on the screen, and the menu items in the right column are now available for selecting and making changes to your report. Also, at this point, you can start a completely different report - just click on the **Start New Retrieval button**. While your FIDO session is open, your current report will remain accessible in the **Produce Report** list, and you can continue to add reports.

Congratulations! – You have just mastered basic navigation of FIDO