

FIDO Navigation - Standard Reports

The objective of this exercise is to familiarize the user with how to navigate FIDO Standard Report menus to create several basic FIA reports for one state.

Red font indicates specific instructions for you to follow. FIDO keywords are in boldface.

Standard reports offer users the option to create several reports, all at one time, for a particular state or region, with or without filtering for specific criteria. The reports can be printed and saved in PDF or CSV file formats.

Users may want to refer to the **FIADB Users Manual**, which describes the Forest Inventory and Analysis Database structure and defines all the variables in the database. The guide can be downloaded from links on the [FIA Data Mart](http://treeearch.fs.fed.us/pubs/37446) (direct link to the documentation: <http://treeearch.fs.fed.us/pubs/37446>). 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 (<http://apps.fs.fed.us/fido/>).

USDA FOREST SERVICE ver: 1.4.2

Start New...

FIA Standard Reports
Produce standard FIA reports on your own selection of states, counties, and survey year(s) ... You can also select from a wide range of custom filters.

Custom Retrievals
Customize a retrieval for your own specific needs or build new, user-defined report templates.

Forest Inventory Data Online (FIDO)

Welcome to FIDO!
FIDO gives you access to the National FIA (Forest Inventory and Analysis) databases. You now have the ability to generate tables and maps of forest statistics through a web browser without having to understand the underlying data structures.
With FIDO, you will be able to run any of the standard reports for a specific area of interest and survey year or, if you are an advanced user, create completely customized reports based on whatever criteria you choose. As an advanced user, you can also save your work to your hard drive to load/rerun your custom FIDO retrievals at a later time.

Technical Assistance
Regional Contacts
If you have any questions or need assistance, please contact the support person for your region (from the list below):

- **Interior West** (AZ,CO,ID,MT,NM,NV,WY,UT)
Jim Menlove: 801-625-5426 (e-mail: jmenlove@fs.fed.us)
- **Pacific Northwest** (AK,CA,HI,OR,WA)
Karen Waddell: 503-808-2046 (e-mail: kwaddell@fs.fed.us)
- **Northern**
(CT,DE,IA,IL,IN,KS,MA,MD,ME,MI,MN,MO,ND,NE,NH,NJ,NY,OH,PA,RI,SD,VT,WI,WV)
Chuck Barnett: 610-557-4031 (e-mail: cjbarnett@fs.fed.us)
- **Southern** (AL,AR,FL,GA,KY,LA,MS,NC,OK,SC,TN,VA)
Carol Perry: 865-862-2087 (e-mail: cperry@fs.fed.us)

IMPORTANT NOTE:
Read the release information below to see if there are any changes you should be aware of before choosing your report generating tool.
Please enjoy -- The FIDO Team!

System Configuration
In order to run FIDO Standard and Custom reports, you will need the following configuration:

- Windows® Internet Explorer 6 or 7; Mozilla Firefox 2 or 3;
- Javascript must be enabled in your browser;
- High-speed (broadband) Internet connection;
- 512MB RAM system memory;
- 2.0+ GHz processor, and
- MSXML 4.0 or 6.0 (Internet Explorer only).

Note: the application runs much better under Internet Explorer 7 and Firefox 3.

Browser Check...
Please [click here](#) for help on additional configuration settings necessary for FIDO to work properly on some browsers.
-- Your browser has the required software plugins to run this application --

Release Notes
Latest Release: Feb 4, 2011 (ver 1.4.2)!

The home page provides a general overview of FIDO, and determines whether your computer has the appropriate software to run the application. Check to make sure that the message:

“-- Your browser has the required software plugins to run this application --“ appears in the **Browser Check** window, as in the above figure.

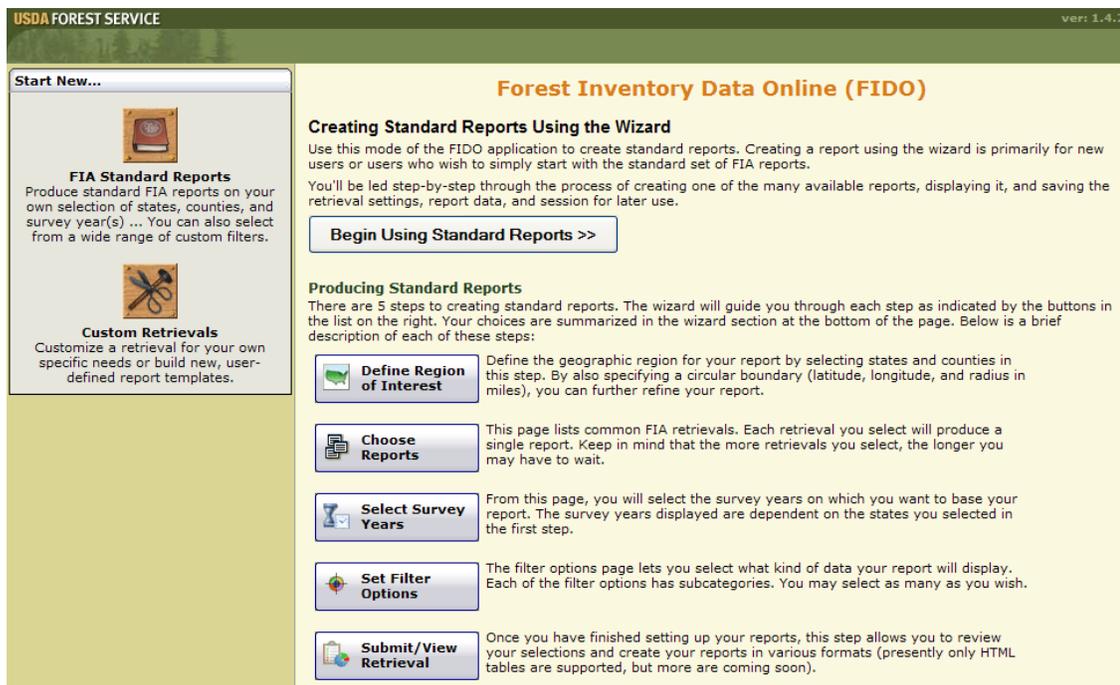
- a. If you get a message that your computer needs additional software, click on the link for instructions on installing software for FIDO.
- b. Even though you may have the proper software, you may still need to adjust your browser settings. There is a document posted on the FIA Data and Tools page that provides more details for setting up your computer to run FIDO. From the FIA Data and Tools page (<http://www.fia.fs.fed.us/tools-data/>), **click on the Training and Tutorials button, then select Instructions for installing software for FIDO.**

Once you are finished with all the setup instructions, you are now ready to run the FIDO application.

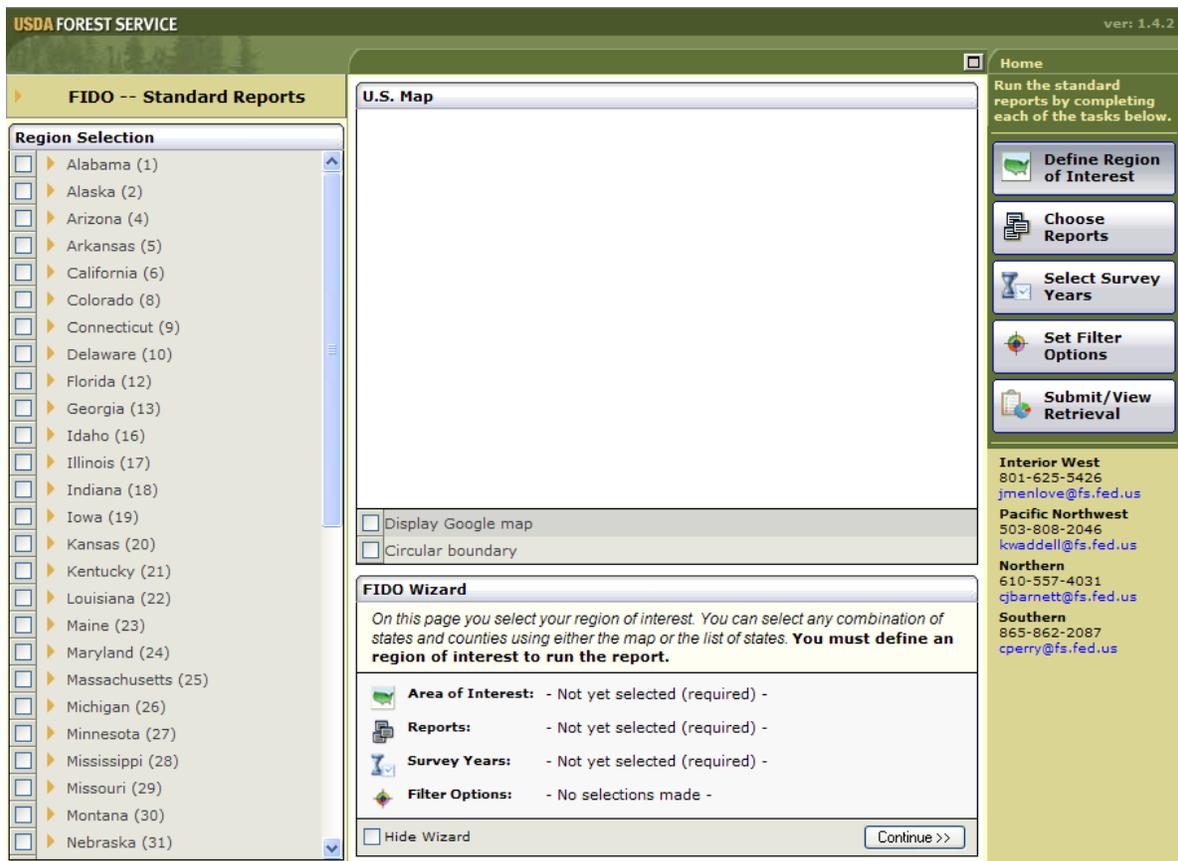
- 1) From the FIDO welcome page, **click on the FIA Standard Reports icon.**



- 2) This brings you to the Standard Report welcome screen. Please take a moment and read through the information on the screen.



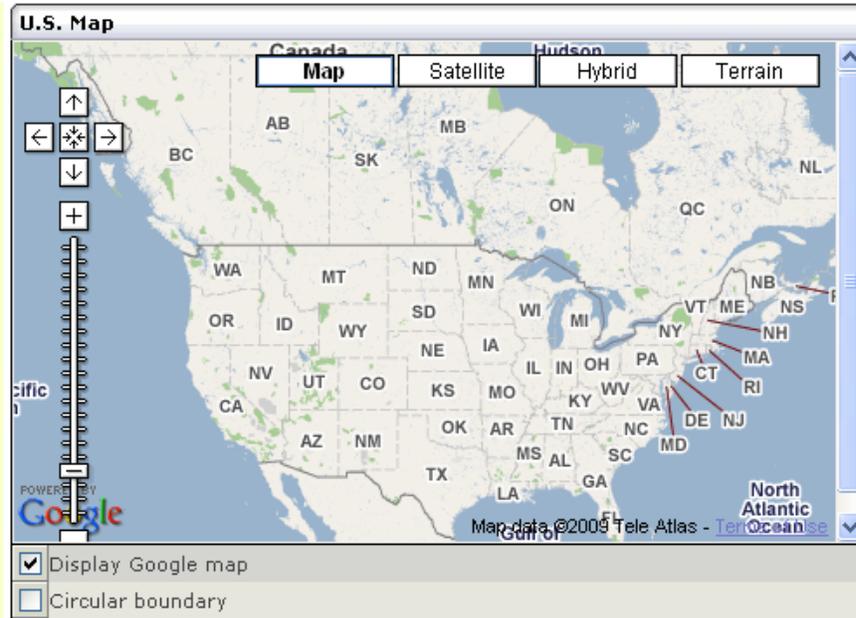
- 3) Click on the **Begin Using Standard Reports** icon to start the report.
- 4) Layout of the FIDO tool site. Every page has 3 main vertical sections
 - a. The right hand column displays the various menus or tasks used in running a standard report.
 - b. The left hand column contains selections that are dependent on which menu is currently running.
 - c. The upper middle space is used to show the report output, provide information on the menus, and display maps for selecting the geographic area of your report. The lower middle space contains the **FIDO Wizard**, which displays a summary of the latest selections made, and direction about what steps need to be completed to create reports. The **Continue>>** button leads the user to the next step required to create a report.



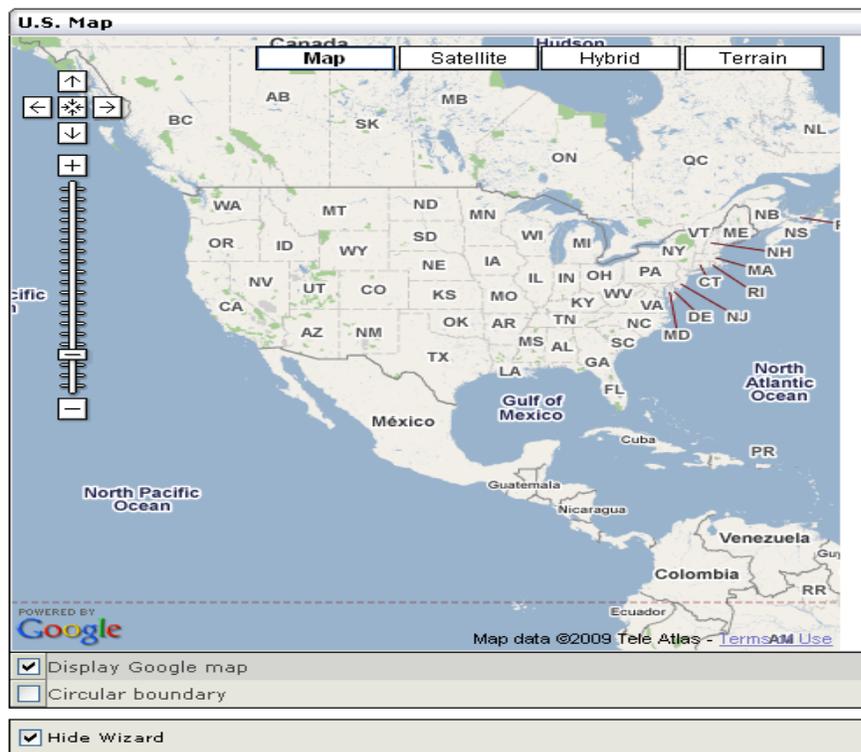
- 5) The first step is **Define Region of Interest**. The **Region of Interest** refers to the county(s), state(s), or circular boundary on which your report is based. Note that the **Wizard** states that this step is required in order to continue.

a. 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.

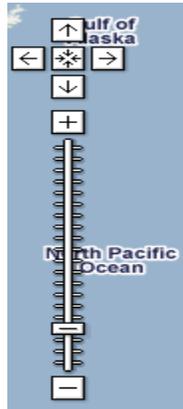
1. Check the box next to **Display Google Map** to view map of the US.



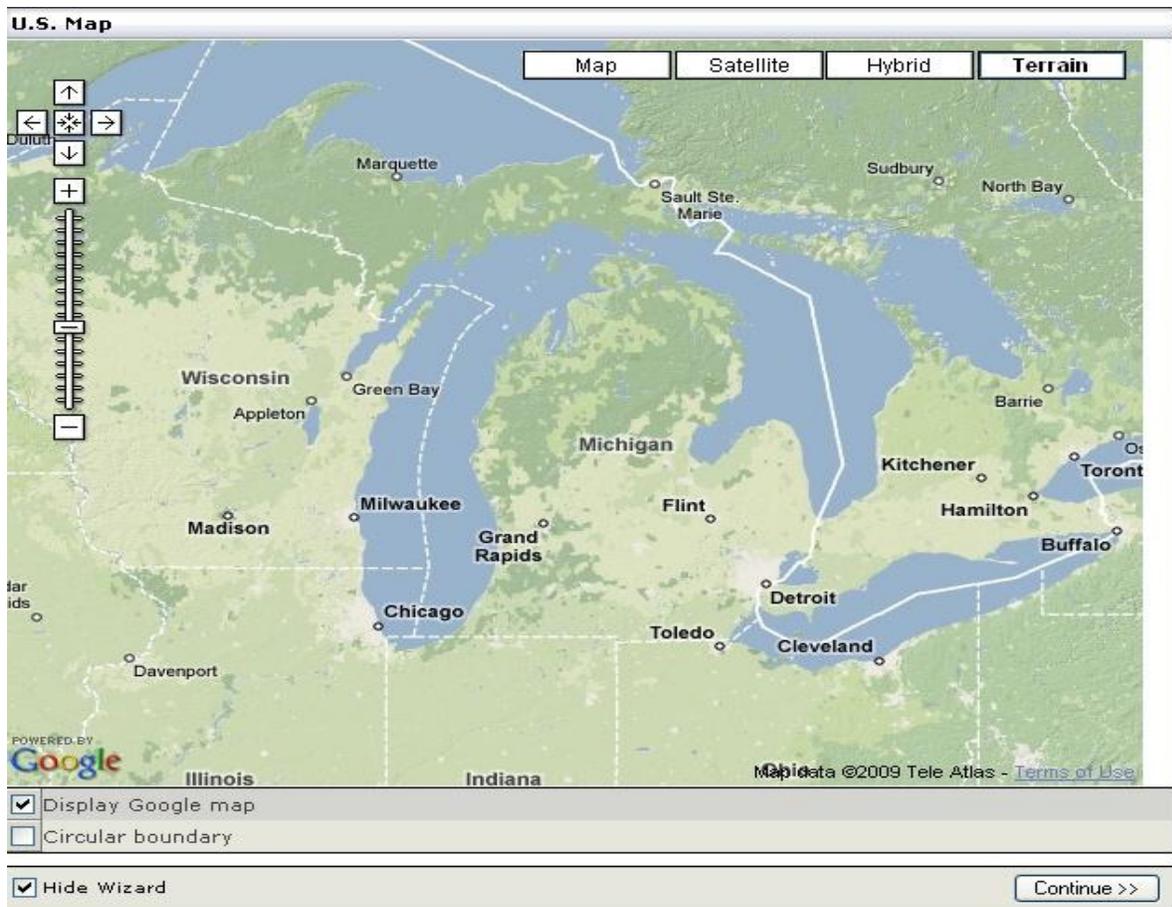
b. To get a larger view of the map, click on the **Hide Wizard** box



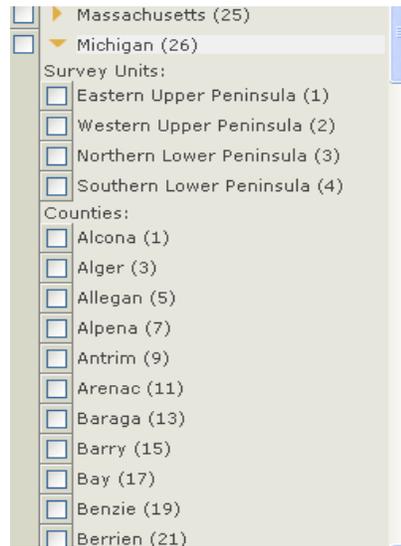
- c. Use the navigation buttons on the left side of the map to adjust the view of the map. You can scroll the map 2 ways - either left click and hold the mouse button, or use the up, down, right and left arrow buttons. Zoom in and out by choosing a scale along the + to - line. And like every good Google map, Map, Satellite, Hybrid, and Terrain view options are available.



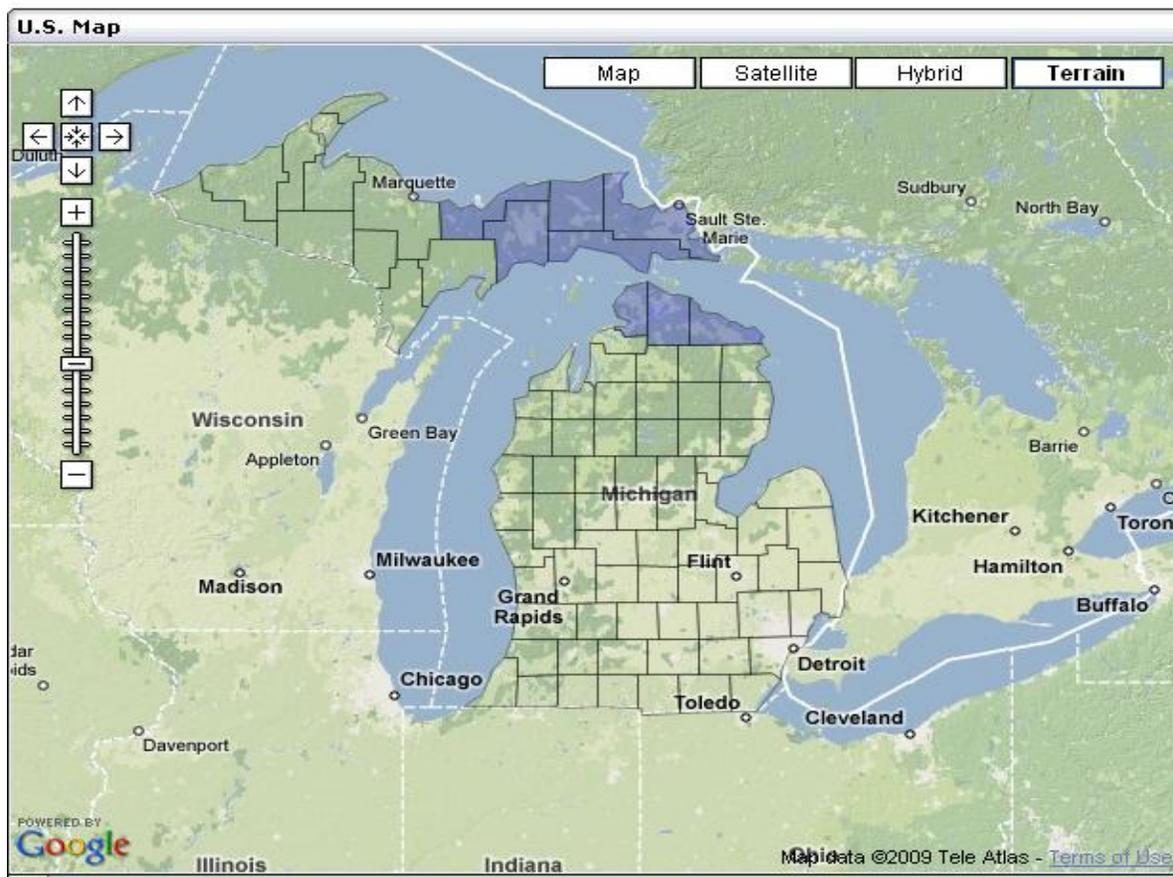
- d. Use these keys to zoom in on Michigan, and choose Terrain view.



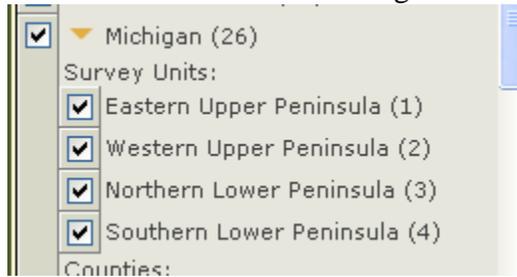
- e. Click on Michigan on the State/County listing on the left column of the screen to view the Michigan FIA Survey Units and Counties list. What is displayed on the map?



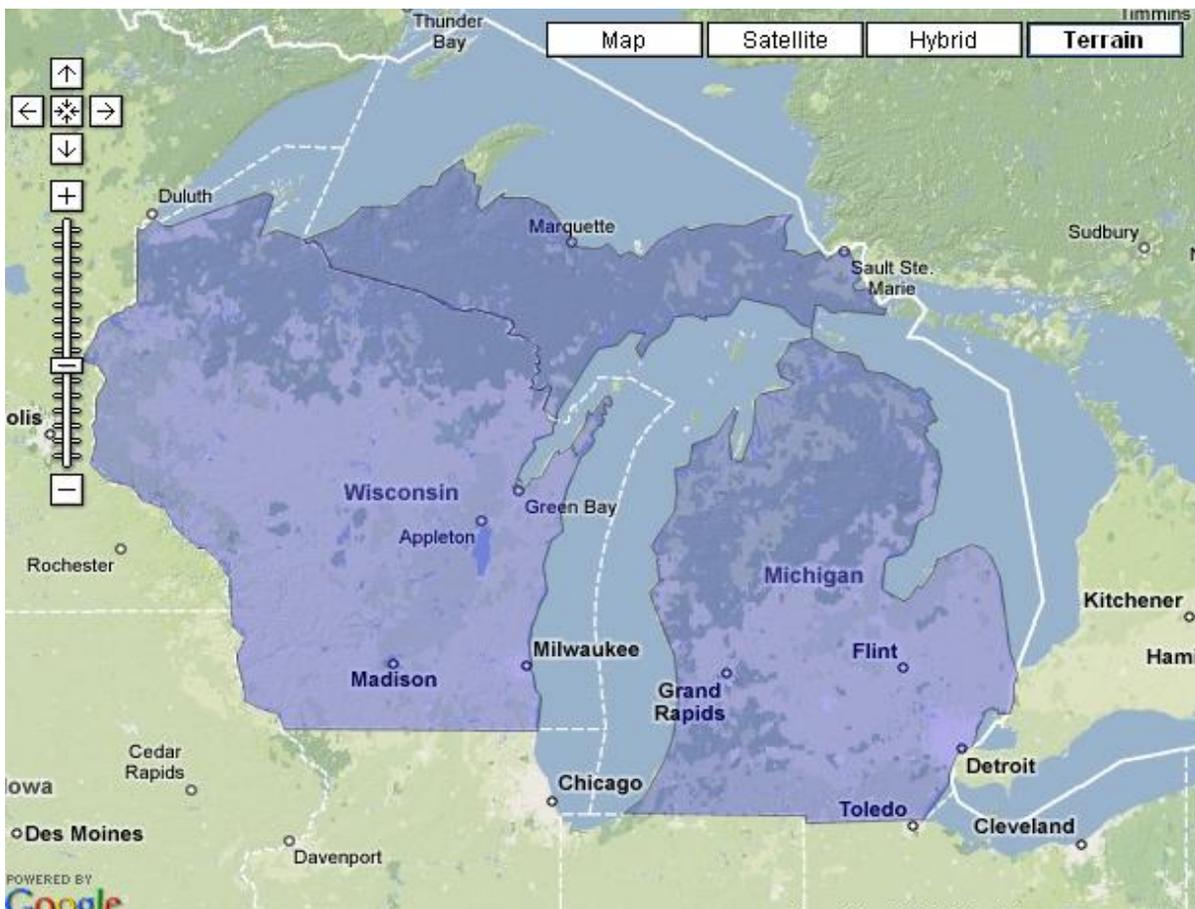
- f. Click on single counties in Michigan to highlight some of the counties.



- g. What happens to the Michigan county list on the left side of the screen?
- h. Click on the box next to Michigan state listing. - Now what is selected on the map?

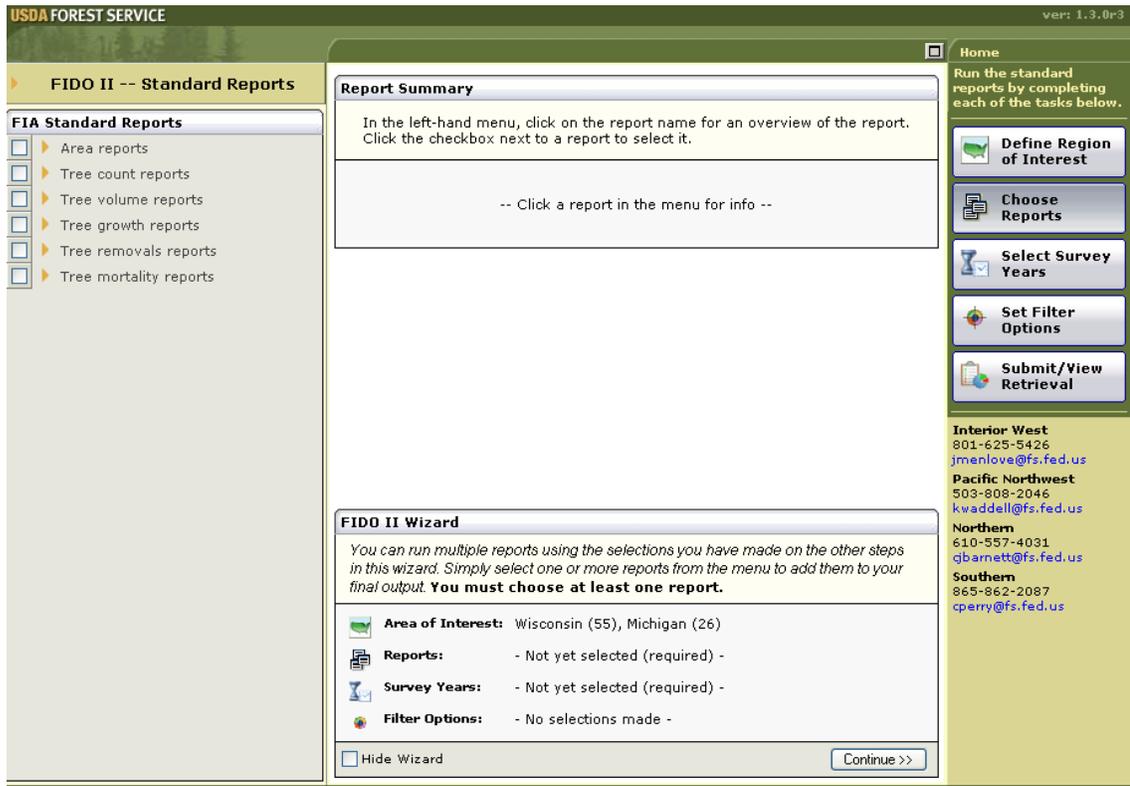


- i. Click on the check box next to Michigan in the state list to deselect. This will take 2 clicks as the program cycles back to the few counties you initially selected.
- j. Close up the county selection list by clicking on Michigan again. The county boundaries on the map should disappear.
- k. Click on Michigan and Wisconsin on the map to highlight the states without the county boundaries.

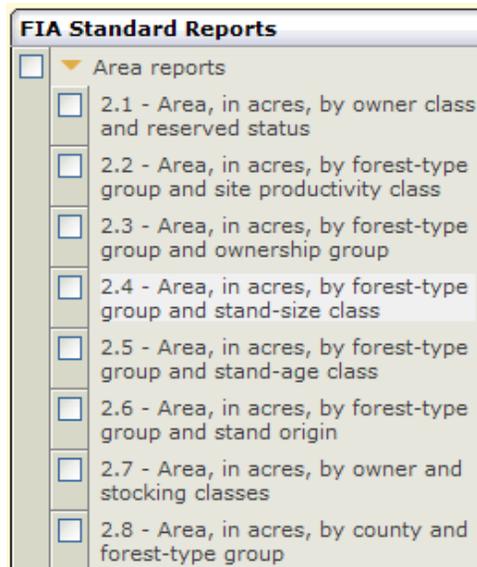


1. **Uncheck the box next to Hide Wizard, and click Continue >>** to go to the next step, **Choose Reports.**

- 6) **Choose Reports.** You can choose a variety of standard reports to be run in one FIDO session.
 (Note that the **Wizard** now shows that the **Area of Interest** is selected, and that **Reports** and **Survey Years** still need to be selected.)



- a. Click on **Area Reports** in the left hand column to view the list of pre-made templates that use area as the report unit.



- b. You can view more information about each report by clicking on the report title. Click on the first report title and a description of the report appears in the **Report Summary** section.

Report Summary

In the left-hand menu, click on the report name for an overview of the report. Click the checkbox next to a report to select it.

Report Name: 2.1 - Area, in acres, by owner class and reserved status
Title for Report: Area, in acres, by owner class and reserved status
Description: Landowner classes are a further categorization of the general landowner groupings. Landowner classes are:
 Forest Service Group - National Forest System, National Grassland, Other Forest Service
 Other Federal Group - National Park Service, Bureau of Land Management, Fish and Wildlife Service, Department of Defense/Energy, Other federal
 State and Local Group - State, Local (County, Municipal, etc), Other non-federal public
 Private Landowners Group - Undifferentiated private

Summary Attribute: Area of sampled land (area)

Report Layout: *Table break:* U.S. States (plot.statecd)
Row break: Ownership (cond.owncd)
Column break: Reserved status (cond.reservedc)

Filter Options: - No selections made -

- c. If you **click on the box next to Area reports**, you will see that all of the area reports are selected. Users should be aware that choosing multiple reports slows down the report process. Choose only what you really need – you can always go back and run the other reports. **DO NOT choose all the report groups at once** (there are over 60 reports to choose from – if you try to run all 60, you may have to wait a long time to get your tables).

FIA Standard Reports

Area reports

- 2.1 - Area, in acres, by owner class and reserved status
- 2.2 - Area, in acres, by forest-type group and site productivity class
- 2.3 - Area, in acres, by forest-type group and ownership group
- 2.4 - Area, in acres, by forest-type group and stand-size class
- 2.5 - Area, in acres, by forest-type group and stand-age class
- 2.6 - Area, in acres, by forest-type group and stand origin
- 2.7 - Area, in acres, by owner and stocking classes
- 2.8 - Area, in acres, by county and forest-type group

- d. For this exercise, we will choose only one area report. **Click on the box to Area reports to unselect all the reports.**
Select one report, **2.6 - Area, in acres, by forest-type group and stand origin**

Area reports

- 2.1 - Area, in acres, by owner class and reserved status
- 2.2 - Area, in acres, by forest-type group and site productivity class
- 2.3 - Area, in acres, by forest-type group and ownership group
- 2.4 - Area, in acres, by forest-type group and stand-size class
- 2.5 - Area, in acres, by forest-type group and stand-age class
- 2.6 - Area, in acres, by forest-type group and stand origin
- 2.7 - Area, in acres, by owner and stocking classes
- 2.8 - Area, in acres, by county and forest-type group

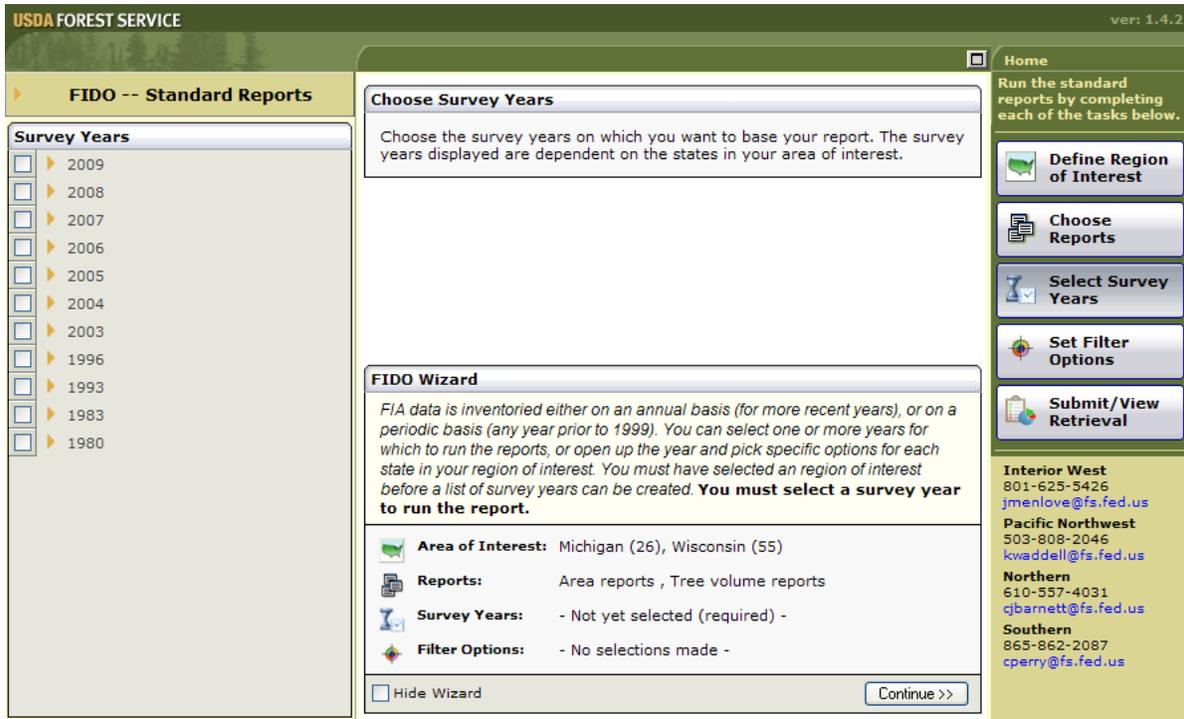
- e. Choose one volume report. **Click on Volume reports to view the options available, and then choose 14.5 - Net volume of live trees (at least 5 inches d.b.h./d.r.c.), in cubic feet, by species group and diameter class**

Tree volume reports

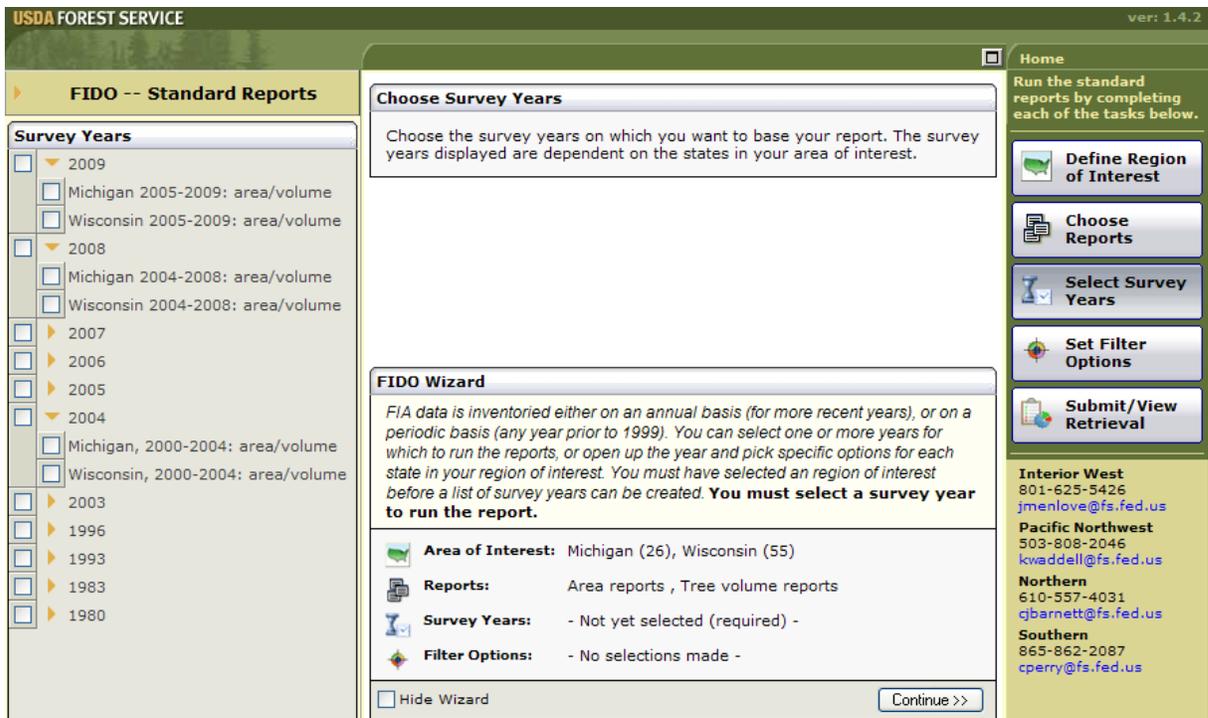
- 14.1 - Net volume of live trees (at least 5 inches d.b.h./d.r.c.), in cubic feet, by owner class and reserved status
- 14.2 - Net volume of standing-dead trees (at least 5 inches d.b.h./d.r.c.), in cubic feet, by owner class and reserved status
- 14.3 - Net volume of live trees (at least 5 inches d.b.h./d.r.c.), in cubic feet, by forest-type group and stand-size class
- 14.4 - Net volume of standing-dead trees (at least 5 inches d.b.h./d.r.c.), in cubic feet, by forest-type group and stand-size class
- 14.5 - Net volume of live trees (at least 5 inches d.b.h./d.r.c.), in cubic feet, by species group and diameter class

- f. **Click on Continue>>** to go to the **Select Survey Years** menu.

- 7) **Select Survey Years.** The **Wizard** now shows that the only required step left is to choose **Survey Years**.



- a. If you **click on the year in the Survey Years list**, you will see what state data are available for that year. You may choose multiple years for comparison of estimates.



- b. Choose 2009 and 2004. **Click on the box next to those years**, and all surveys within those years will be selected.

FIDO -- Standard Reports

Survey Years

- 2009
 - Michigan 2005-2009: area/volume
 - Wisconsin 2005-2009: area/volume
- 2008
- 2007
- 2006
- 2005
- 2004
 - Michigan, 2000-2004: area/volume
 - Wisconsin, 2000-2004: area/volume
- 2003

- c. **Click on Continue>>** to go the **Set Filter Options** menu

- 8) **Set Filter Options.** Selecting filters is optional and is not a required step to producing a report.

Filters are used to limit reports to a subset of the data. Land filters are related to condition class variables, (e.g. forest type, ownership, stand-size). Tree filters are related to specific tree data variables (e.g. species, diameter, height).

- a. **Choose the Private Ownership group filter.** This will restrict your report to private ownership lands.

FIDO -- Standard Reports

Filter Options

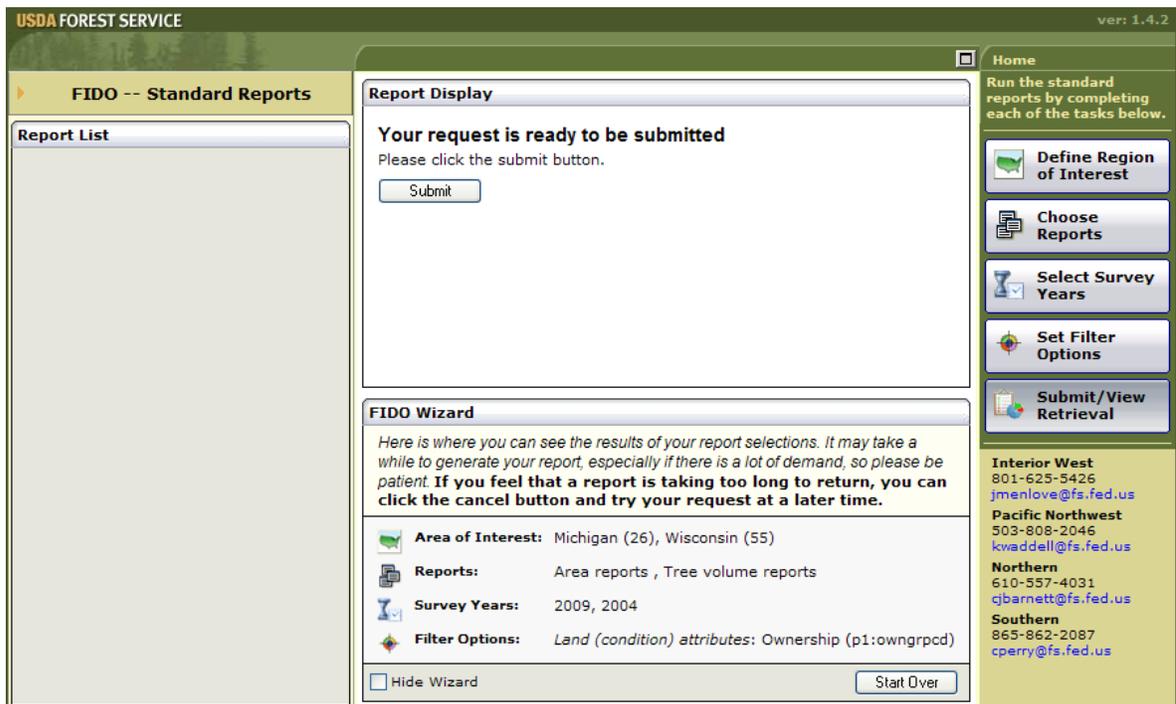
- Land (condition) attributes
 - Condition status
 - Forest-type group
 - Ownership group
 - Not Recorded ()
 - Forest Service (10)
 - Other Federal (20)
 - State and Local Gov't (30)
 - Private (40)
 - Undifferentiated private (46)
 - Reserved Status
 - Site Productivity Class
 - Stand-size class
 - Stand origin
 - Growing-stock stocking
 - All live stocking
 - Administrative Forest Code
 - Stand age classifications
- Tree attributes

b. Click on **Continue>>** to **Submit/View Retrieval**.

9) **Submit/View Retrieval**.

a. This is the final step needed to produce a report. The Wizard shows all the selections made in the previous menus, and the **Report Display** indicates that your request is ready for submission.

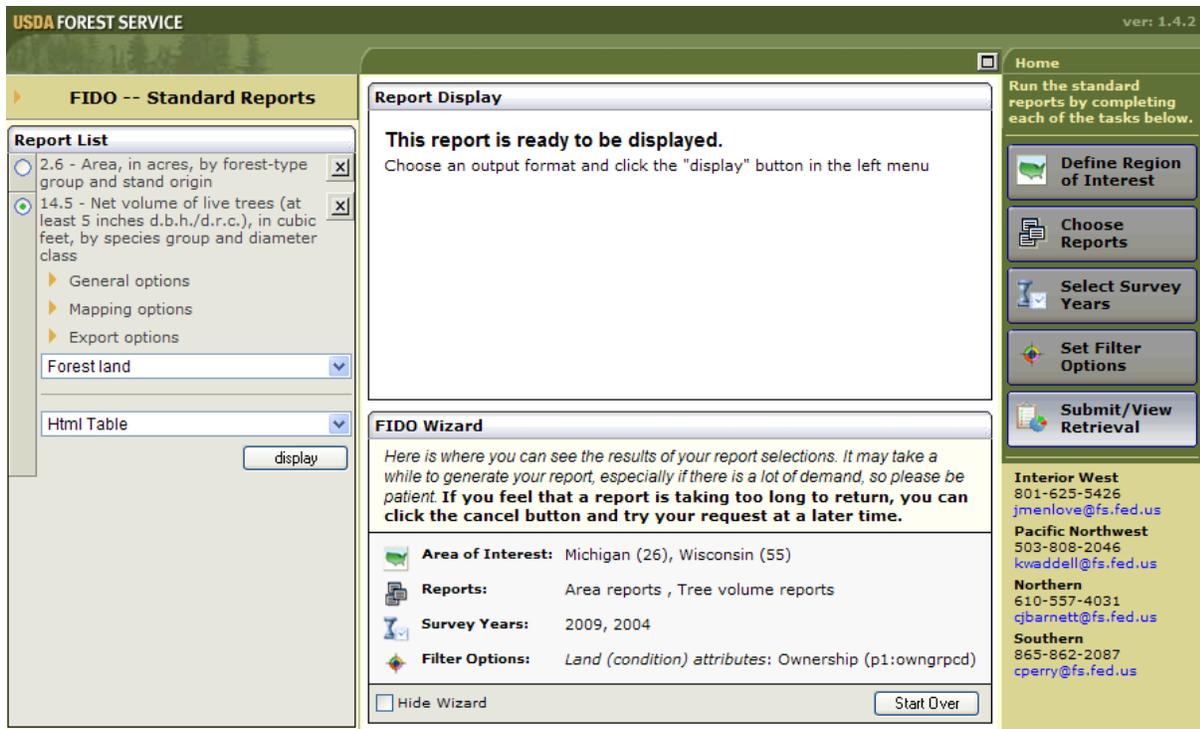
Click on **Submit** box to run your reports.



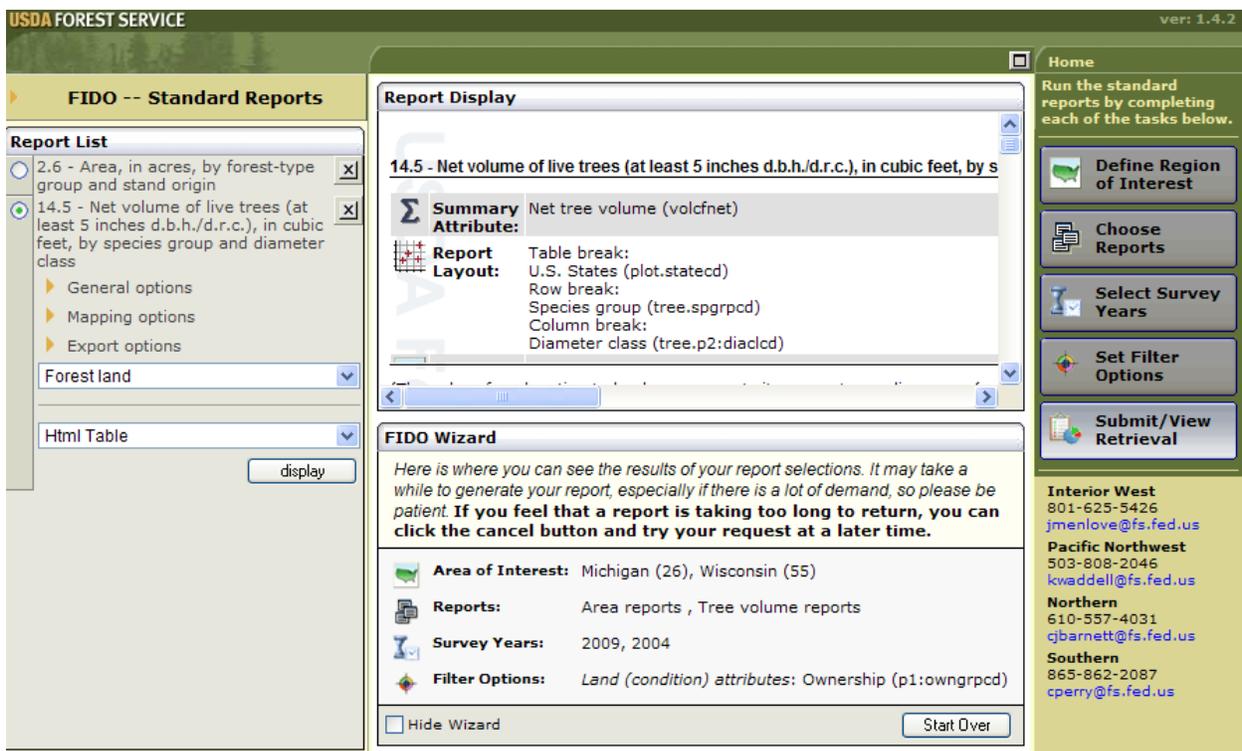
b. Your report list will appear, and the buttons next to each report name will circle around while FIDO is running the report.

c. When the reports are ready, the button by the last report is selected by default, and the various options for displaying a report appear.

The default display options are **Forest land** (all sampled forest, including reserved areas and unproductive sites) and **HTML** output.



- d. For this exercise, **keep the defaults and click on the display button**. The report appears in the center of the screen.



- e. To get a better view of the report, check the Maximize button in the upper right corner of the **Report Display**.

Report Display

14.5 - Net volume of live trees (at least 5 inches d.b.h./d.r.c.), in cubic feet, by species group and diameter class

Summary Attribute: Net tree volume (volcfnet)

Report Layout:
 Table break: U.S. States (plot.statecd)
 Row break: Species group (tree.spgrpcd)
 Column break: Diameter class (tree.p2:diacldc)

(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 **gold**, pse is greater than 50%)

Inventory -- Michigan, 2000-2004: area/volume

Michigan (26) -- Net tree volume on forest land by Species group and Diameter class (in

Tree species group	Tree Diameter Classifications						
	5.0-6.9 in (3)	7.0-8.9 in (4)	9-10.9 in (5)	11-12.9 in (6)	13-14.9 in (7)	15-16.9 in (8)	17-18.9 in (9)
Other yellow pines (3)	24,675,253	37,610,199	41,465,476	26,509,538	9,714,465	7,004,370	3,000,000
Eastern white and red pines (4)	121,675,538	220,397,769	209,912,992	179,405,342	131,190,697	111,840,650	93,700,000
Jack pine (5)	23,764,859	41,383,995	38,269,370	27,050,380	15,286,081	4,542,548	1,400,000
Spruce and balsam fir (6)	278,636,034	267,804,065	166,618,134	103,693,469	55,768,679	29,573,951	9,500,000
Eastern hemlock (7)	15,977,793	34,085,390	51,511,434	65,761,146	77,751,953	84,514,431	61,700,000
Other eastern softwoods (9)	284,396,089	371,890,333	339,736,931	240,490,421	154,138,256	99,840,868	52,600,000
Select white oaks (25)	23,986,498	39,133,000	53,977,532	66,344,298	64,216,624	52,771,732	54,600,000
Select red oaks (26)	29,592,760	55,704,751	108,992,266	136,844,574	131,091,117	154,102,600	121,700,000
Other white oaks (27)	--	55,870,000	--	--	--	770,300,000	--

- f. There are 5 tables displayed in your report. The first one is for the estimates for Michigan 2000-2004. **Scroll down to view the other reports.** The 4 reports are summarized in the last table on the bottom.
- g. Note the different colors of the values in the table output. These indicate the range of percent sampling errors (black estimates have 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. **Minimize the report window and select report 2.6, Area, in acres, by forest type group and stand origin.** Keep the display options as is and **click on display** to view the report.



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2.6 - Area, in acres, by forest-type group and stand origin

Report Display Print

2.6 - Area, in acres, by forest-type group and stand origin

Summary Attribute: Area of all land (areaall)

Report Layout:
 Table break: U.S. States (plot.statecd)
 Row break: Forest type group (cond.p1:fortypgrpcd)
 Column break: Stand origin (cond.stdorgcd)

(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%)

Inventory -- Michigan, 2000-2004: area/volume

Michigan (26) -- Area of sampled forest land by Forest type group and Stand origin (in acres)

Forest-type group	Stand origin		Total
	Natural stands (0)	Artificial regeneration (1)	
White / red / jack pine group (100)	404,899	272,056	676,955
Spruce / fir group (120)	1,328,095	38,894	1,366,989
Other eastern softwoods group (170)	3,257	--	3,257
Douglas-fir group (200)	--	1,632	1,632
Fir / spruce / mountain hemlock group (260)	--	13,570	13,570
Exotic softwoods group (380)	31,907	118,008	149,915
Oak / pine group (400)	245,113	23,181	268,294
Oak / hickory group (500)	2,020,881	24,906	2,045,787
Oak / gum / cypress group (600)	20,222	--	20,222
Fir / ash / cottonwood group (700)	1,388,028	2,654	1,400,682

- i. One way to save and view a report later is to copy the report and paste it into MS Excel.
 Click in the report window and use CTRL A to select all, then CTRL C to copy.

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2.6 - Area, in acres, by forest-type group and stand origin

Report Display Print

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j. Open MS Excel and use CTRL V to paste the output.

	A	B	C	D
16		Survey Years	2009	
17			2004	
18	(The color of each estimated value represents its <u>percent sampling error</u> (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%)			
19	Inventory -- Michigan, 2000-2004: area/volume			
20	Michigan (26) -- Area of sampled forest land by Forest type group and Stand origin (in acres)			
21		Stand origin		
22	Forest-type group	Natural stands (0)	Artificial regeneration (1)	Total
23	White / red / jack pine group (100)	404,899	272,056	676,955
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30	Oak / hickory group (500)	2,020,881	24,906	2,045,787
31	Oak / gum / cypress group (600)	20,222	--	20,222
32	Elm / ash / cottonwood group (700)	1,398,028	2,654	1,400,682
33	Maple / beech / birch group (800)	3,921,873	15,555	3,937,428
34	Aspen / birch group (900)	1,821,903	19,189	1,841,093
35	Other hardwoods group (960)	46,297	684	46,981
36	Exotic hardwoods group (990)	21,797	--	21,797
37	Nonstocked (999)	95,368	5,274	100,641
38				
39	Totals:	11,359,641	535,603	11,895,244
40				
41	Inventory -- Michigan 2005-2009: area/volume			

Congratulations! You have just mastered all the basic navigational techniques you'll need to create FIA reports. Give yourself a pat on the back!