

FIDO Webinar Training - Exercise 1: Basic Navigation

Created with FIDO version 1.5.1 – the screen shots may not match exactly with other versions.

Red font indicates specific instructions for you to follow.

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 Data Mart](http://fia.fs.fed.us/library/database-documentation/) 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 (<http://apps.fs.fed.us/fido/>).

The screenshot shows the FIDO application interface. On the left, a sidebar titled 'Start New...' contains two options: 'FIA Standard Reports' (with a report icon) and 'Custom Retrievals' (with a scissors icon). The main content area is titled 'Forest Inventory Data Online (FIDO)'. It begins with a 'Welcome to FIDO!' message and a brief overview of the application's purpose. Below this is a 'Technical Assistance' section with 'Regional Contacts' for Interior West, Pacific Northwest, Northern, and Southern regions, each listing a support person and their contact information. An 'IMPORTANT NOTE' section follows, advising users to read release information. The 'System Configuration' section lists requirements such as Windows, Internet Explorer 6 or 7, Mozilla Firefox 2 or 3, JavaScript, high-speed internet, 512MB RAM, 2.0+ GHz processor, and MSXML 4.0 or 6.0. A 'Browser Check...' window is displayed, containing the message: '-- Your browser has the required software plugins to run this application --'. At the bottom, 'Release Notes' indicate the latest release is from 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”
- c. Once you are finished with all the setup instructions, you are now ready to run the FIDO application.
Select Custom Retrievals in the left-hand side box to go to the **Custom Retrieval Welcome** page.



2. Custom Retrieval Welcome Page

- a. Review the list of the 8-step process, beginning with **Start New Retrieval**. Note that these buttons are not active on this page, but will be active once you start the Custom report application.

Creating a Custom Retrieval
 There are 8 steps to creating and saving a custom report. You can go to any step by clicking on the matching button displayed in the right-hand column. You can also let the wizard guide you through the process by clicking the "Continue" button at the bottom of the page. Below is a brief description of each of these steps:

 Start New Retrieval	You start your custom retrieval with this step. You can choose to either start a completely new retrieval/template or pick one of the existing retrievals/templates to use as a starting point.
 Set Summary Attribute	The summary attribute is the value that will be displayed in the cells of your tabular report. Examples include <i>Area of land</i> , <i>Tree volume</i> , <i>Tree mortality</i> , etc.
 Design Report Layout	When you define your report layout, you select how the summary attribute defined above is grouped and reported. FIDO II retrievals are broken down into three axes. In tabular reports the axes define table, row, and column breaks. You will be required to select an attribute for each axis.
 Set Filter Options	Set filters to restrict the data that will be used to generate your report. Each of the filter options has subcategories. You may select as many as you wish.
 Define Region of Interest	Define the geographic region for your report by selecting states and counties here. You can specify a circular boundary (latitude, longitude, and radius in miles) to further refine the region.
 Choose Survey Years	From this page, you will select the survey years on which you want to base your retrieval. The survey years displayed are dependent on the states you selected in the previous step.
 Produce Report	Once you have finished setting up your reports, this step allows you to review your selections and generate a report in various formats (presently only HTML tables are supported, but more are coming soon).
 Save Active Retrieval	Click this button if you want to save your custom retrieval. You will have the option to name the retrieval, give it a title, description, and author. You can also choose in which category the retrieval will appear.

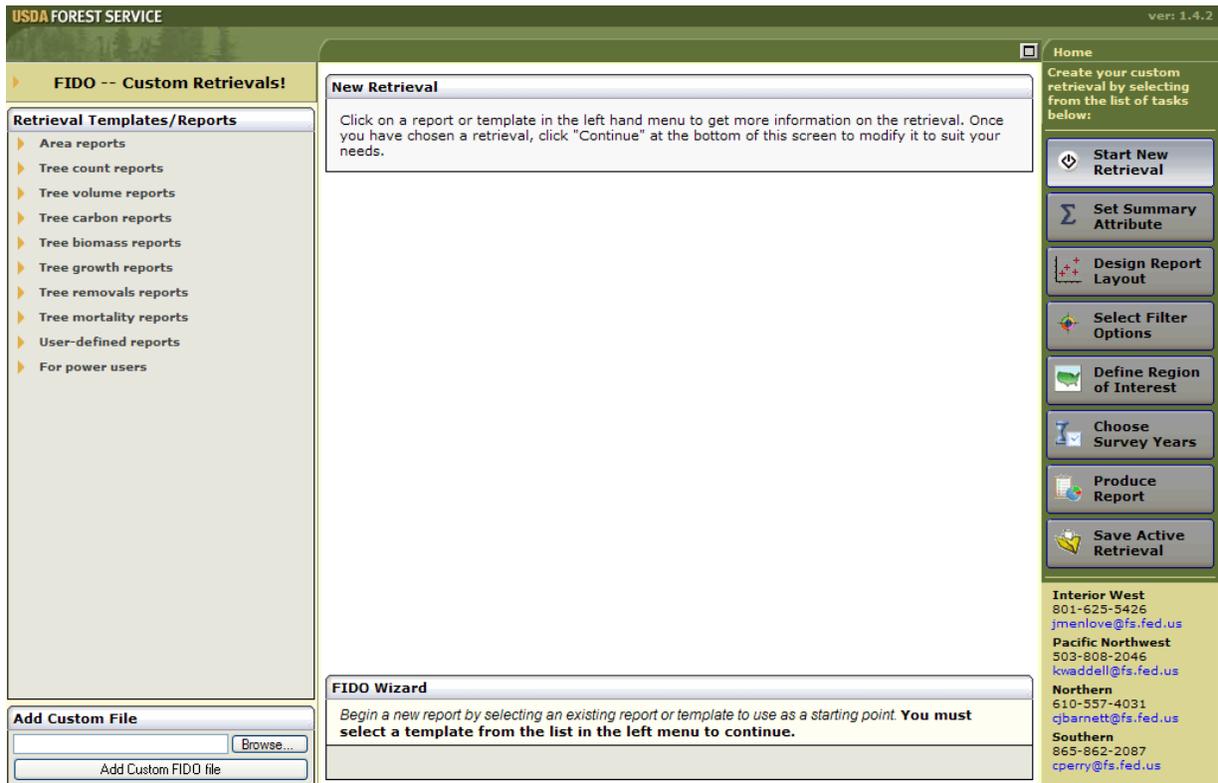
- b. Click on the **Begin Creating Custom Reports>>** button to start the Custom FIDO session.

Creating Custom Retrievals

Use this mode of the FIDO application to create new, custom retrievals. You'll be able to do everything from selecting your summary attribute to choosing custom filters and the report layout display. The next sections describe in some detail how this mode of FIDO works...

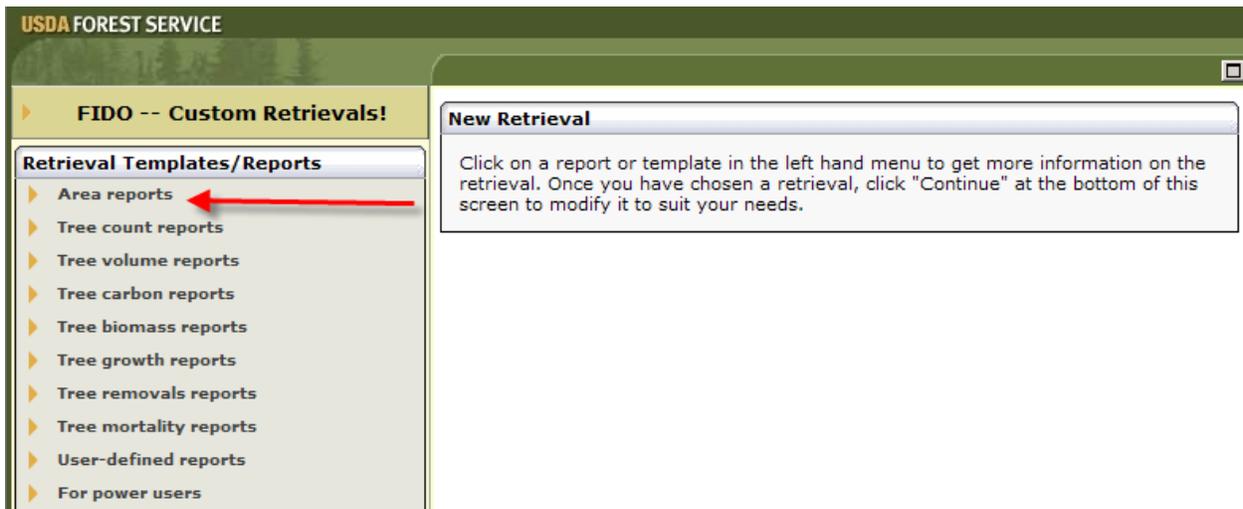
Begin Creating Custom Reports >>

3. Layout of the FIDO tool site. Every page has 3 sections.
 - a. The right hand column displays the 8-step menu buttons to 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 shows the report output, provides information on the menus, and displays maps for selecting the geographic area of your report.
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. Note the FIDO Wizard states that, in order to continue, a report template must be selected.
- b. Click on **Area Reports** in the left hand column to view the list of pre-made templates that use area as the report unit.



- c. Select **Table 2.4 – Area, in acres, by forest-type group and stand-size class.**



- d. Note that a new box, titled Selected Template Information, appears in the middle portion of the screen.
- Review the Selected Template Information, which provides information on the report type, and other information pertaining to the layout of the report selected. To continue, **click on Use as Template.**

Selected Template Information

Click "Use as template" below to begin using this report as your template.

Report Name: 2.4 - Area, in acres, by forest-type group and stand-size class
Title for Report: Area, in acres, by forest-type group and stand-size class
Description: Forest-type groupings:
 White / red / jack pine group
 Spruce / fir group
 Longleaf / slash pine group
 Loblolly / shortleaf pine group
 Pinyon / juniper group
 Douglas-fir group
 Ponderosa pine group
 Western white pine group

Summary Attribute: Area of sampled land (area)

Report Layout: Table break: U.S. States (plot.statecd)
 Row break: Forest type group (cond.p1:fortypgrpdc)
 Column break: Stand size (cond.stdszcd)

Filter Options: - No selections made -

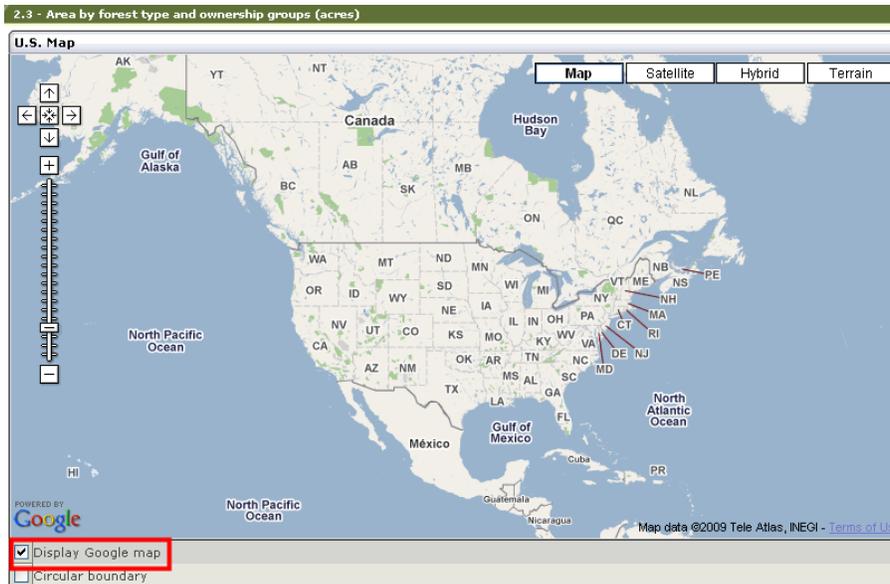
Geographic Region: - Not selected -

[Use as Template](#)

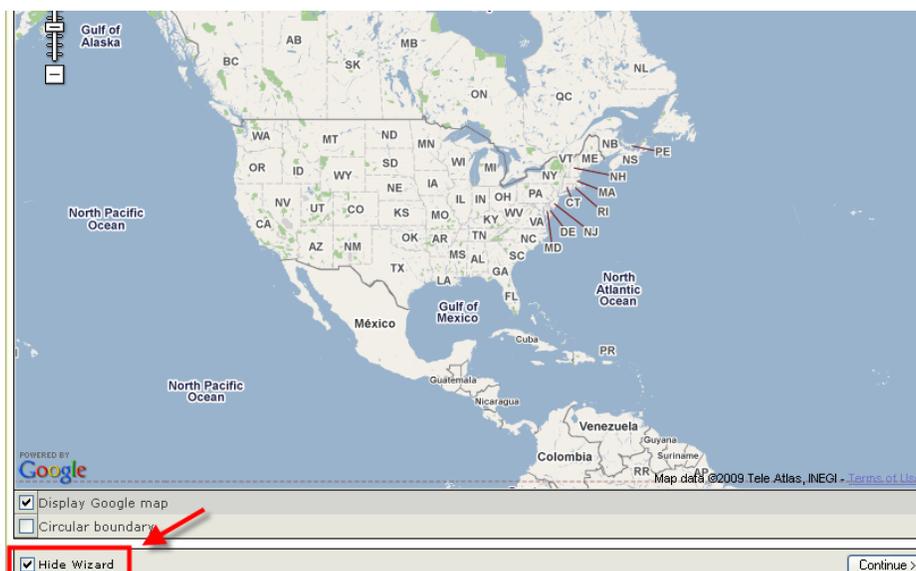
5. FIDO then automatically takes you to the next step that it needs to complete the report process, **Define Region of Interest.**
- Note that FIDO skipped over steps **Set Summary Attribute**, **Design Report Layout**, and **Select Filter Options** because these steps have already been taken care of in the pre-made template. Also note that the FIDO Wizard now contains the report information.

The screenshot shows the USDA Forest Service FIDO interface. On the left is a 'Region Selection' list with checkboxes for states from Alabama to Minnesota. The main area is titled '2.4 - Area, in acres, by forest-type group and stand-size class' and contains a 'U.S. Map' section with options for 'Display Google map' and 'Circular boundary'. Below the map is the 'FIDO Wizard' section, which includes a summary of the report information (Report Name, Title, Description, Summary Attribute, Report Layout, Filter Options, Area of Interest, and Survey Years) and a 'Continue >>' button. On the right side, there is a vertical toolbar with buttons for 'Start New Retrieval', 'Set Summary Attribute', 'Design Report Layout', 'Select Filter Options', 'Define Region of Interest', 'Choose Survey Years', 'Produce Report', and 'Save Active Retrieval'. At the bottom right, there is contact information for Interior West, Pacific Northwest, Northern, and Southern regions.

- The area or region of interest refers to the county(s), state(s), or circular boundary on which the report is based. Note that the wizard states that this step is required in order to continue (also note the **Hide Wizard** option has appeared).
- 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.
- Check the Display Google Map box** to view map of the U.S. (depending on the network traffic, it may take half a minute for the map to appear).



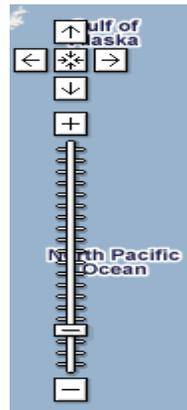
- To get a larger view of the map, **click on the Hide Wizard box**.



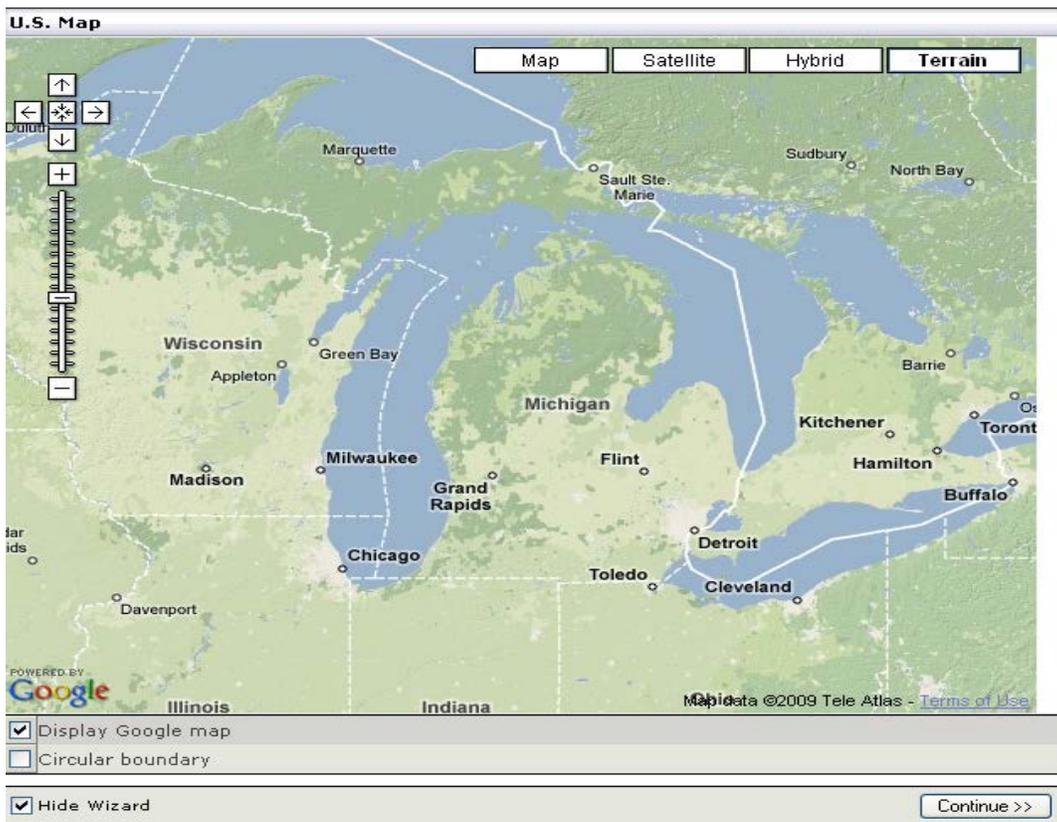
- e. Navigation can be accomplished in a variety of ways. You can pan the map either with a left mouse click and hold; or, use the up, down, right and left arrow buttons on the navigation bar.

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

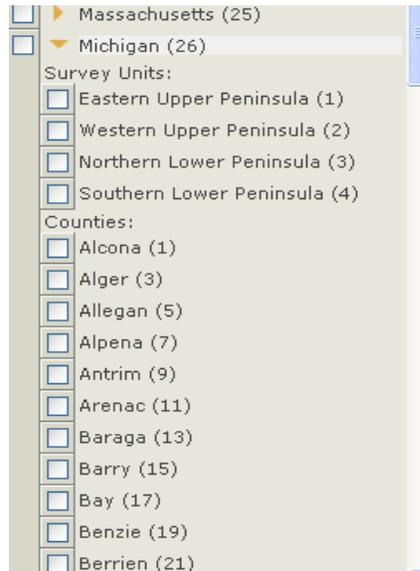
Note the various map view options - Map, Satellite, Hybrid, and Terrain.



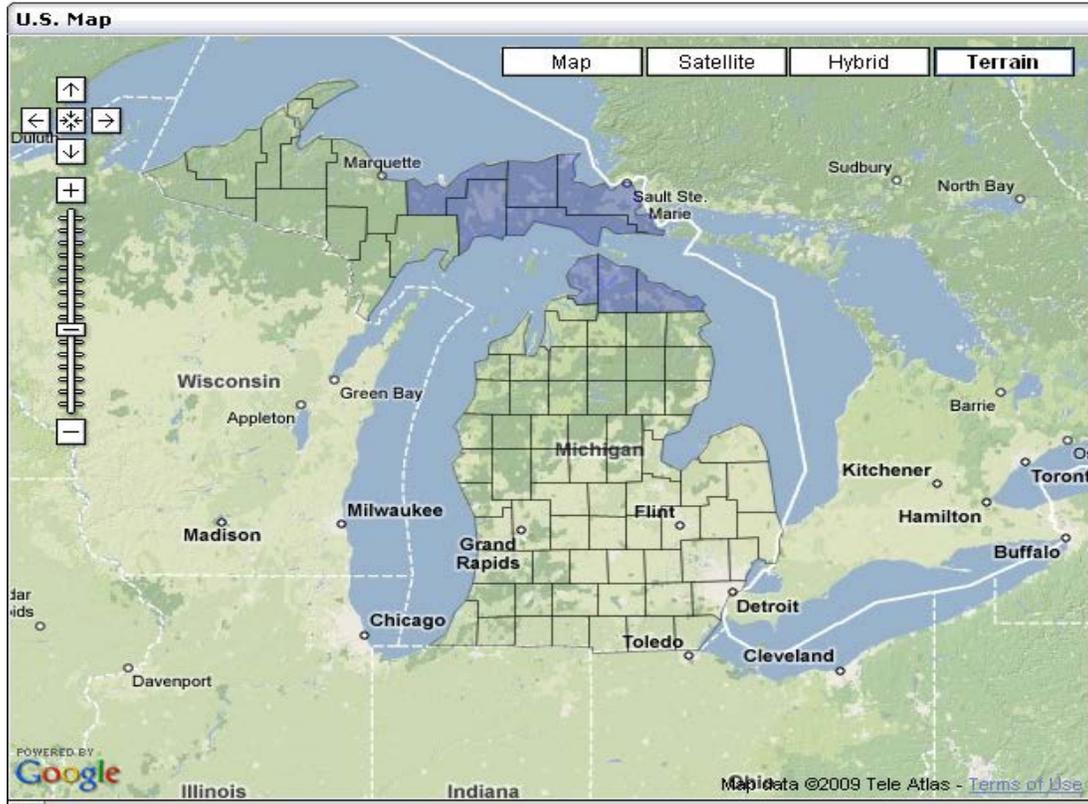
- f. Zoom in on Michigan, and choose Terrain view.



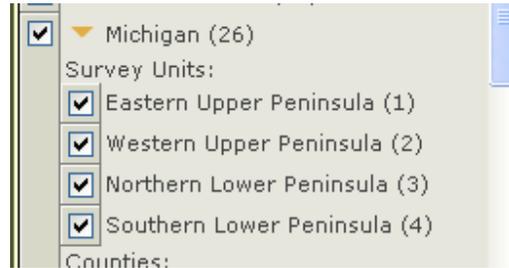
- g. Click on **Michigan (26)** in the **Region Selection** scroll box to view the list of Michigan FIA Survey Units and Counties. What is displayed on the map?



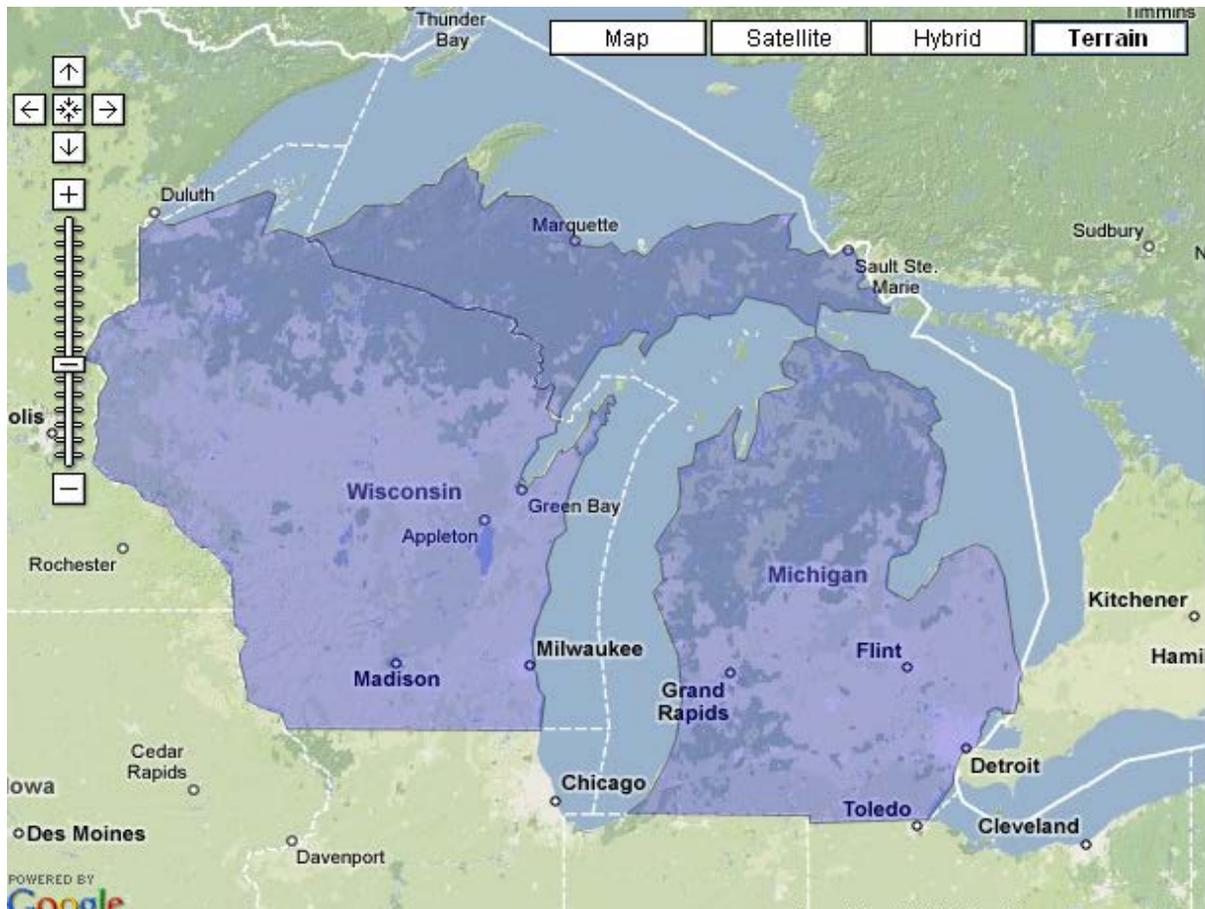
- h. On the map, select and highlight counties in Michigan with a click of the mouse.



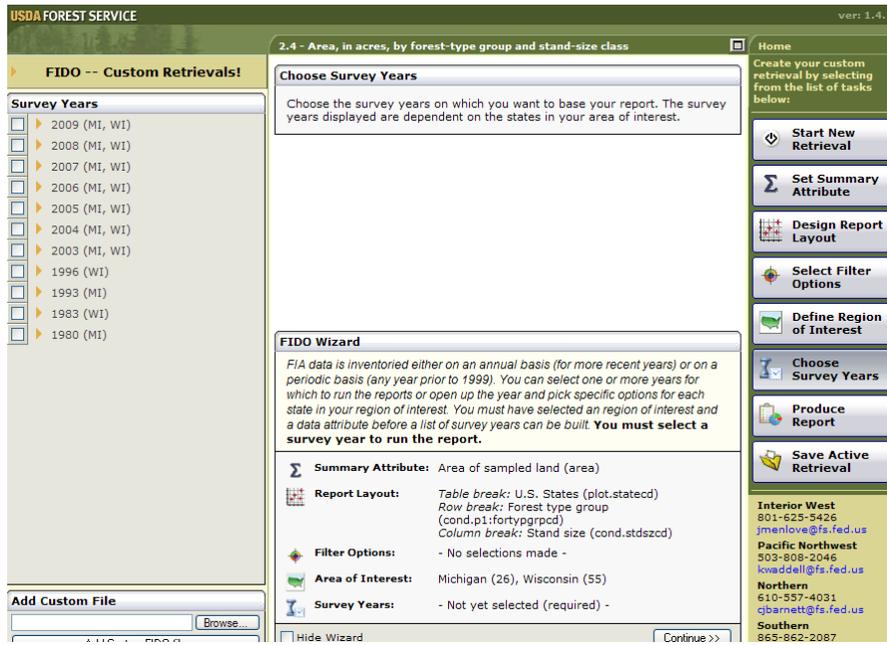
- i. What happens to the Michigan county list on the left side of the screen?
- j. **Click on the box next to Michigan (26).** - Now what is selected on the map?



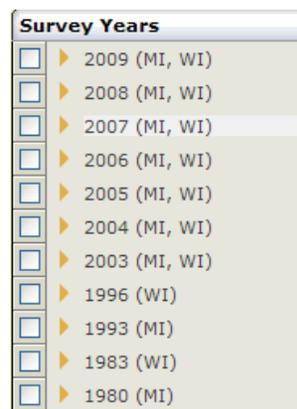
- k. **Click on the check box next to Michigan (26) in the state list to deselect.** This will take 2 clicks as the program cycles back to the few counties you initially selected.
- l. **Close up the county selection list by clicking on Michigan again.** The county boundaries on the map should disappear.
- m. **Click on Michigan and Wisconsin on the map to highlight the states without the county boundaries.** Your map should look like this:



- n. Click **Continue >>** to go to the next step, Choose Survey Years.
- o. **Uncheck the Hide Wizard box.** Review the wizard to see that Michigan and Wisconsin now comprise the Area of Interest and that Survey Years are still to be determined (which are **required** to produce a report).



6. Choose the Survey Years - the survey year represents the set of plots that are used to make an estimate. For the Annual Inventory, the survey year defines the last annual inventory year for the rolling-panel set of plots. For Periodic Inventory, the survey year is the year that best represents when the set of plots were measured. For example, Michigan survey year 2009 contains all the plots measured in the 5 Annual Inventory panels from 2009, 2008, 2007, 2006, 2005, while survey year 2004 contains the 5 Annual Inventory panels from 2004, 2003, 2002, 2001, 2000.
 - a. Click on the **down arrow button next to 2009 (MI, WI)** to view the listing of the surveys. These describe the years of the survey and what kind of estimations can be produced with that survey. To choose both state surveys for 2009, click on the box next to 2009 (MI, WI). To choose only one state for a survey year, click on the individual state/year from the drop down list.



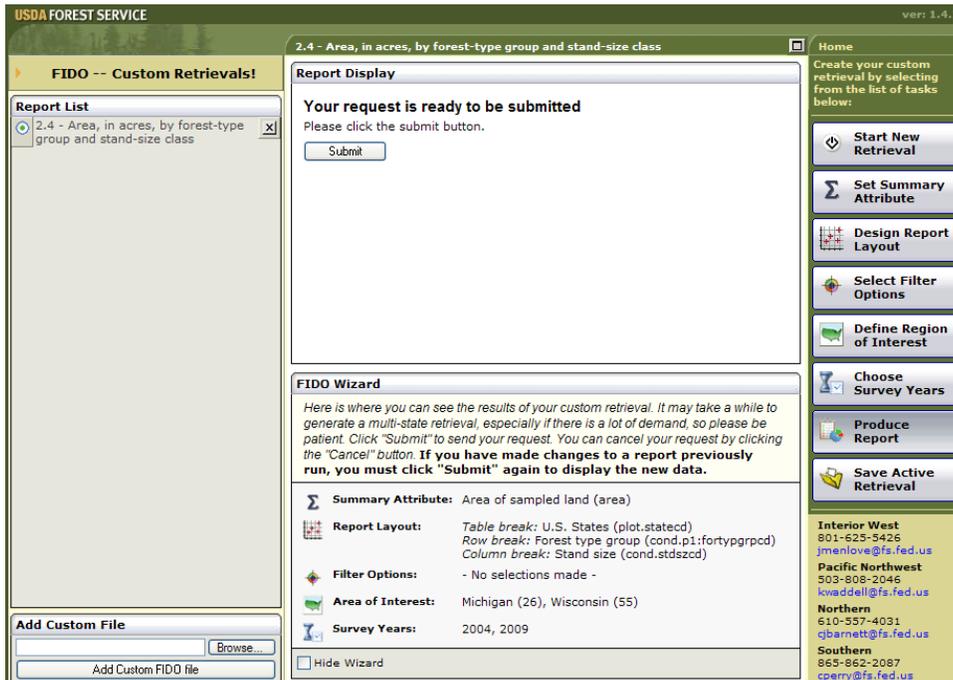
- b. Choose 2004 and 2009 surveys for both states. These selections will produce four separate reports, with a fifth table that summarizes the totals.



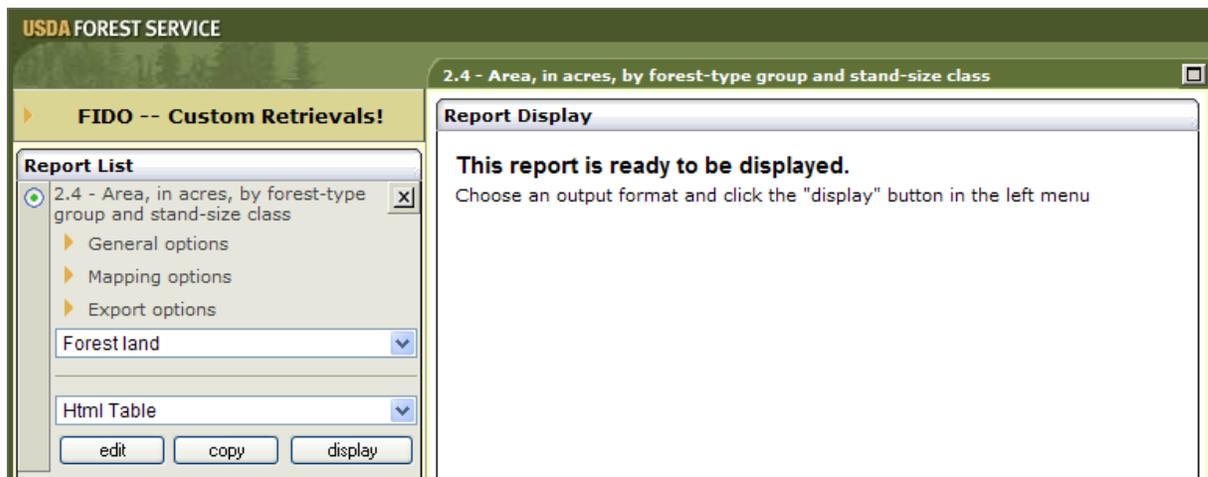
- c. Click on **Continue >>**, FIDO moves to the next step, **Produce Report**.

7. Produce Report

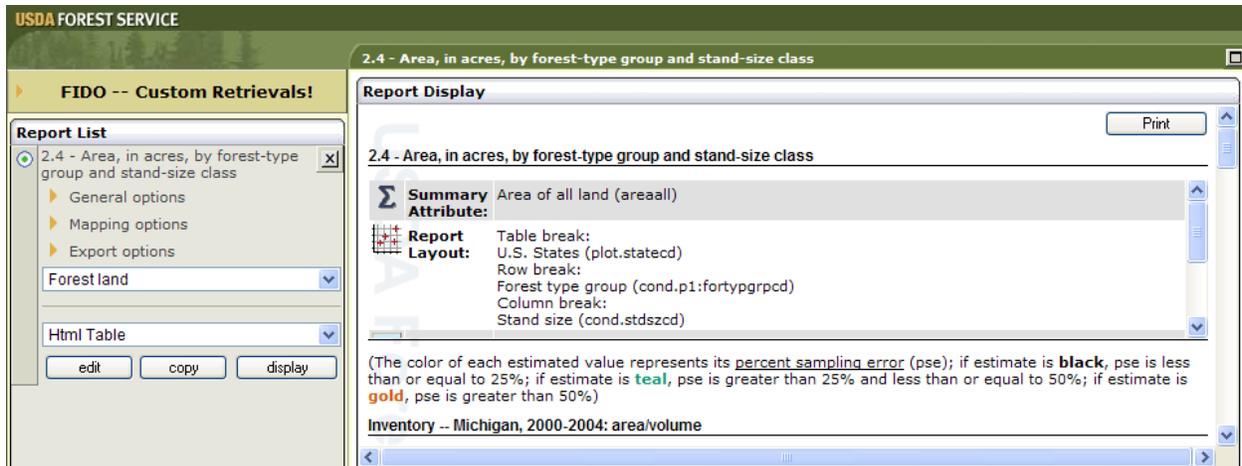
- a. The wizard now lists all the options that have been selected for the report. Your report is listed in the left column. Your report is listed in the left column.



- b. To produce the report, **click on the Submit button (once!)**.
The report list button revolves around until the report is ready for you to choose the display options.
- c. When finished, "This report is ready to be displayed." will appear in the report window. Display options appear in the left column. The default estimate is on Forest land and the default format is Html Table (Forest land is defined as land that is at least 10-percent stocked by trees of any size or has been at least 10-percent stocked in the past). **Use these defaults, and click on the display button.**



- d. 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**.

2.4 - Area, in acres, by forest-type group and stand-size class

Report Display

2.4 - Area, in acres, by forest-type group and stand-size class

Summary Attribute: Area of all land (areaall)

Report Layout: Table break: U.S. States (plot.statecd)
Row break: Forest type group (cond.p1:fortyprpcd)
Column break: Stand size (cond.stdszcd)

(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 size (in acres)

Forest-type group	Stand-size class				Total
	Large Diameter (1)	Medium Diameter (2)	Small Diameter (3)	Nonstocked (5)	
White / red / jack pine group (100)	968,401	688,096	307,445	--	1,963,942
Spruce / fir group (120)	668,101	1,220,803	700,130	--	2,589,034
Other eastern softwoods group (170)	--	--	3,257	--	3,257
Douglas-fir group (200)	2,061	1,632	--	--	3,693
Fir / spruce / mountain hemlock group (260)	1,062	2,518	9,990	--	13,570
Exotic softwoods group (380)	52,263	63,386	41,091	--	156,740
Oak / pine group (400)	196,529	189,329	149,641	--	535,499
Oak / hickory group (500)	1,627,032	873,550	406,239	--	2,906,821
Oak / gum / cypress group (600)	9,006	13,102	2,215	--	24,322
Elm / ash / cottonwood group (700)	690,833	777,486	383,048	--	1,851,367
Maple / beech / birch group (800)	2,857,390	2,415,949	491,755	--	5,765,094
Aspen / birch group (900)	632,122	1,432,580	1,163,407	--	3,228,109
Other hardwoods group (960)	2,623	1,827	78,937	--	83,387
Exotic hardwoods group (990)	2,061	3,015	24,124	--	29,200
Nonstocked (999)	--	--	--	158,428	158,428
Totals:	7,709,482	7,683,273	3,761,281	158,428	19,312,464

- f. There are five tables displayed in your report. The first one has the estimates for Michigan 2000-2004. **Scroll down to view the other 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 percent sampling error.**
- g. **Scroll to the bottom of the report window to view the Report Summary.** The summary contains the totals from each of the individual state/survey report. Later, in this exercise, you'll see a different format for the Summary Report.

Report Summary

Area of sampled forest land by Forest type group and Stand size (in acres)

Inventory :: State	Stand-size class				Total
	Large Diameter (1)	Medium Diameter (2)	Small Diameter (3)	Nonstocked (5)	
Michigan, 2000-2004: area/volume :: Michigan (26)	7,709,482	7,683,273	3,761,281	158,428	19,312,464
Wisconsin, 2000-2004: area/volume :: Wisconsin (55)	6,025,302	6,457,476	3,401,271	153,129	16,037,177
Michigan 2004-2008: area/volume :: Michigan (26)	8,575,780	7,316,727	3,761,470	167,379	19,821,356
Wisconsin 2004-2008: area/volume :: Wisconsin (55)	6,795,205	6,119,597	3,623,198	159,191	16,697,190

8. Saving and Using Report Output - You can save the report output in a variety of formats, including CSV and PDF.

The Html format report can be manually copied and then pasted into a MS Excel spreadsheet and saved in that format.

- a. Save the report in Excel - Click on the **Report Display** window. Select all the tables using CTRL-A (or you can select individual tables by holding the left mouse button and scrolling through the table).

USDA FOREST SERVICE
2.4 - Area, in acres, by forest-type group and stand-size class

Report Display

2.4 - Area, in acres, by forest-type group and stand-size class

Summary Attribute: Area of all land (areaall)

Report Layout: Table break: U.S. States (plot.statecd)
Row break: Forest type group (cond.p1:fortyprgcd)
Column break: Stand size (cond.stdszcd)

(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 size (in acres)

Forest-type group	Stand-size class				Total
	Large Diameter (1)	Medium Diameter (2)	Small Diameter (3)	Nonstocked (5)	
White / red / jack pine group (100)	968,401	688,096	307,445	--	1,963,942
Spruce / fir group (120)	668,101	1,220,803	700,130	--	2,589,034
Other eastern softwoods group (170)	--	--	3,257	--	3,257
Douglas-fir group (200)	2,061	1,632	--	--	3,693
Fir / spruce / mountain hemlock group (260)	1,062	2,518	9,990	--	13,570
Exotic softwoods group (380)	52,263	63,386	41,091	--	156,740
Oak / pine group (400)	196,529	189,329	149,641	--	535,499
Oak / hickory group (500)	1,627,032	873,550	406,239	--	2,906,821
Oak / gum / cypress group (600)	9,006	13,102	2,215	--	24,322
Elm / ash / cottonwood group (700)	690,833	777,486	383,048	--	1,851,367
Maple / beech / birch group (800)	2,857,390	2,415,949	491,755	--	5,765,094
Aspen / birch group (900)	632,122	1,432,580	1,163,407	--	3,228,109
Other hardwoods group (960)	2,623	1,827	78,937	--	83,387
Exotic hardwoods group (990)	2,061	3,015	24,124	--	29,200
Nonstocked (999)	--	--	--	158,428	158,428
Totals:	7,709,482	7,683,273	3,761,281	158,428	19,312,464

- b. Press CTRL-C to copy your selection.
 - c. Open MS Excel, and press CTRL-V to paste it into the spreadsheet.
- This gives you a file with the estimates, but not the percent sampling errors (CSV and PDF outputs do include pse).

2.4 - Area, in acres, by forest-type group and stand-size class

Summary Attribute: Area of all land (areaall)

Region Selection: Michigan (26) and Wisconsin (55)

Filter Selection: No filters

Survey Years: 2004, 2009

(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%)

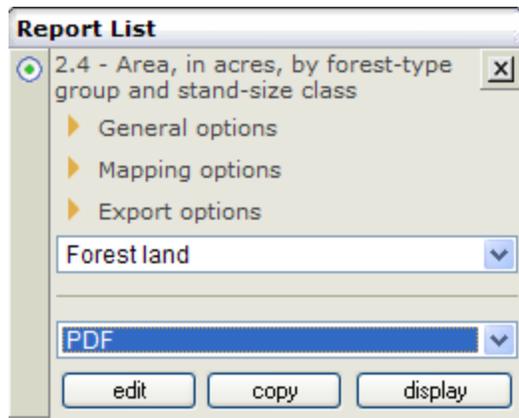
Inventory -- Michigan, 2000-2004: area/volume

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

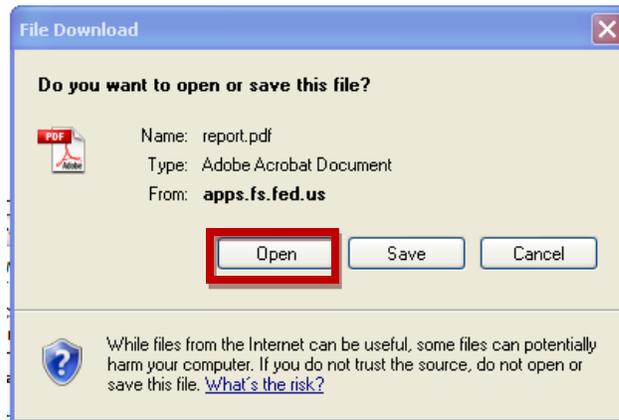
Forest-type group	Stand-size class				Total
	Large Diameter (1)	Medium Diameter (2)	Small Diameter (3)	Nonstocked (5)	
White / red / jack pine group (100)	968,401	688,096	307,445	--	1,963,942
Spruce / fir group (120)	668,101	1,220,803	700,130	--	2,589,034
Other eastern softwoods group (170)	--	--	3,257	--	3,257
Douglas-fir group (200)	2,061	1,632	--	--	3,693
Fir / spruce / mountain hemlock group (260)	1,062	2,518	9,990	--	13,570
Exotic softwoods group (380)	52,263	63,386	41,091	--	156,740
Oak / pine group (400)	196,529	189,329	149,641	--	535,499
Oak / hickory group (500)	1,627,032	873,550	406,239	--	2,906,821
Oak / gum / cypress group (600)	9,006	13,102	2,215	--	24,322
Elm / ash / cottonwood group (700)	690,833	777,486	383,048	--	1,851,367
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Exotic hardwoods group (990)	2,061	3,015	24,124	--	29,200
Nonstocked (999)	--	--	--	158,428	158,428
Totals:	7,709,482	7,683,273	3,761,281	158,428	19,312,464

Inventory -- Michigan 2005-2009: area/volume

- d. Check the minimize button in the upper right corner of the Report Display.
- e. Change the display to PDF. Select PDF from the drop down menu, and click on the **display** button.



- e. Click on Open to view the file.



- f. The PDF output contains the pse next to the estimate. You can print or save the report using the icons on the top left of the PDF toolbar. Note that PDF output is a relatively new feature in FIDO, and that further refinements are still in the works (such as including a more complete and descriptive report title).

(the first value is the estimate and the second value is the percent sampling error)

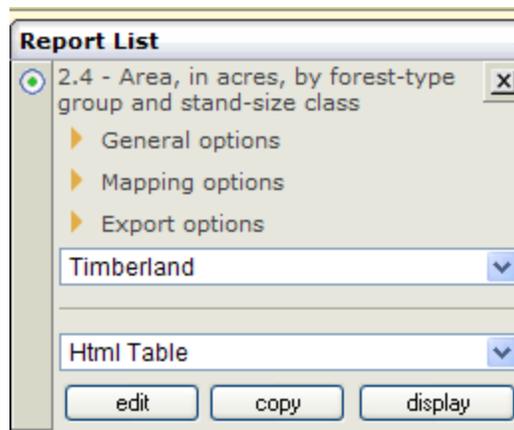
Inventory -- Michigan, 2000-2004: area/volume

Forest-type group	Stand-size class				Total
	Large Diameter (1)	Medium Diameter (2)	Small Diameter (3)	Nonstocked (5)	
White / red / jack pine group (100)	988,401 / 4.1%	888,098 / 5.0%	307,445 / 7.6%	-	1,963,944 / 2.8%
Spruce / fir group (120)	668,101 / 5.1%	1,220,803 / 3.7%	700,130 / 4.9%	-	2,589,034 / 2.4%
Other eastern softwoods group (170)	-	-	3,257 / 72.2%	-	3,257 / 72.2%
Douglas-fir group (200)	2,061 / 99.7%	1,632 / 97.0%	-	-	3,693 / 70.2%
Fir / spruce / mountain hemlock group (260)	1,062 / 97.0%	2,518 / 67.1%	9,990 / 41.1%	-	13,570 / 33.6%
Exotic softwoods group (380)	52,263 / 17.3%	63,366 / 15.5%	41,091 / 20.0%	-	156,740 / 10.1%
Oak / pine group (400)	196,529 / 9.6%	189,329 / 9.6%	149,641 / 11.1%	-	535,499 / 5.7%
Oak / hickory group (500)	1,827,032 / 3.1%	873,550 / 4.4%	406,239 / 6.4%	-	2,906,821 / 2.2%
Oak / gum / cypress group (600)	9,006 / 45.2%	13,102 / 39.2%	2,215 / 96.2%	-	24,322 / 28.3%
Elm / ash / cottonwood group (700)	690,833 / 4.9%	777,486 / 4.7%	383,048 / 6.8%	-	1,851,367 / 2.9%
Maple / beech / birch group (800)	2,857,390 / 2.3%	2,415,949 / 2.5%	491,755 / 5.9%	-	5,765,094 / 1.4%
Aspen / birch group (900)	632,122 / 5.3%	1,432,580 / 3.4%	1,163,407 / 3.8%	-	3,228,109 / 2.2%
Other hardwoods group (960)	2,623 / 81.6%	1,827 / 74.7%	78,937 / 14.7%	-	83,387 / 14.3%
Exotic hardwoods group (990)	2,061 / 99.7%	3,015 / 76.1%	24,124 / 26.9%	-	29,200 / 24.6%
Nonstocked (999)	-	-	-	158,428 / 9.4%	158,428 / 9.4%
Totals:	7,709,482 / 1.2%	7,883,273 / 1.2%	3,761,261 / 2.0%	158,428 / 9.4%	19,312,464 / 0.4%

Inventory -- Michigan 2005-2009: area/volume

Forest-type group	Stand-size class				Total
	Large Diameter (1)	Medium Diameter (2)	Small Diameter (3)	Nonstocked (5)	
White / red / jack pine group (100)	1,121,138 / 4.5%	561,260 / 6.4%	343,857 / 8.5%	-	2,026,245 / 3.2%
Spruce / fir group (120)	779,966 / 5.5%	1,151,408 / 4.5%	668,604 / 5.9%	-	2,599,878 / 2.8%
Other eastern softwoods group (170)	-	1,779 / 90.7%	3,127 / 73.2%	-	4,906 / 57.1%
Douglas-fir group (200)	3,099 / 97.3%	-	1,940 / 92.1%	-	5,038 / 69.6%
Fir / spruce / mountain hemlock group (260)	3,604 / 72.0%	7,373 / 56.6%	2,526 / 92.1%	-	13,503 / 40.3%
Exotic softwoods group (380)	53,217 / 20.3%	60,658 / 18.0%	43,135 / 22.8%	-	157,011 / 11.6%
Oak / pine group (400)	239,760 / 10.4%	201,730 / 11.1%	156,921 / 12.9%	-	598,411 / 6.5%
Oak / hickory group (500)	1,921,179 / 3.3%	820,992 / 5.4%	400,719 / 7.3%	-	3,142,890 / 2.4%
Oak / gum / cypress group (600)	12,128 / 47.6%	10,157 / 53.7%	2,959 / 99.2%	-	25,244 / 33.5%
Elm / ash / cottonwood group (700)	750,959 / 5.5%	881,897 / 5.2%	380,442 / 8.0%	-	2,013,297 / 3.3%
Maple / beech / birch group (800)	3,257,392 / 2.5%	2,045,587 / 3.2%	460,316 / 7.2%	-	5,763,294 / 1.8%
Aspen / birch group (900)	671,228 / 6.0%	1,419,605 / 4.1%	1,187,406 / 4.4%	-	3,278,239 / 2.5%
Other hardwoods group (960)	4,679 / 71.2%	5,769 / 48.0%	97,912 / 15.0%	-	108,360 / 14.1%
Exotic hardwoods group (990)	-	4,316 / 71.7%	3,213 / 70.5%	-	7,530 / 50.9%
Nonstocked (999)	-	-	-	169,325 / 11.0%	169,325 / 11.0%
Totals:	8,618,348 / 1.3%	7,172,511 / 1.5%	3,742,977 / 2.3%	169,325 / 11.0%	19,903,161 / 0.4%

9. Change the output to base the estimates on Timberland. (Timberland is defined as forested land that is not reserved and has a site productivity class of at least 20 cubic feet/acre/year).
 - a. Close the PDF output and select **Timberland** and **HTML** output from the drop down boxes.



- b. Click on **display** to view the report.

It's the same report as in 7 e., but the basis of the estimate is Timberland.

Report Display

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

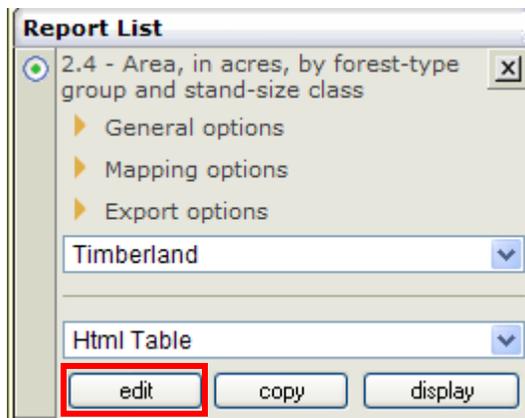
Michigan (26) -- Area of sampled timberland by Forest type group and Stand size (in acres)

Forest-type group	Stand-size class				Total
	Large Diameter (1)	Medium Diameter (2)	Small Diameter (3)	Nonstocked (5)	
White / red / jack pine group (100)	928,366	676,389	263,947	--	1,868,702
Spruce / fir group (120)	621,538	1,183,049	657,640	--	2,462,228
Other eastern softwoods group (170)	--	--	3,257	--	3,257
Douglas-fir group (200)	2,061	1,632	--	--	3,693
Fir / spruce / mountain hemlock group (260)	1,062	2,518	9,990	--	13,570
Exotic softwoods group (380)	52,263	63,386	38,983	--	154,632
Oak / pine group (400)	192,972	187,165	134,054	--	514,191
Oak / hickory group (500)	1,615,184	869,625	401,517	--	2,886,326
Oak / gum / cypress group (600)	9,006	13,102	2,215	--	24,322
Elm / ash / cottonwood group (700)	686,752	764,981	371,628	--	1,823,361
Maple / beech / birch group (800)	2,722,600	2,390,035	481,238	--	5,593,873
Aspen / birch group (900)	591,140	1,387,373	1,131,762	--	3,110,275
Other hardwoods group (960)	2,623	1,827	75,367	--	79,818
Exotic hardwoods group (990)	2,061	3,015	24,124	--	29,200
Nonstocked (999)	--	--	--	154,607	154,607
Totals:	7,427,626	7,544,097	3,595,724	154,607	18,722,054

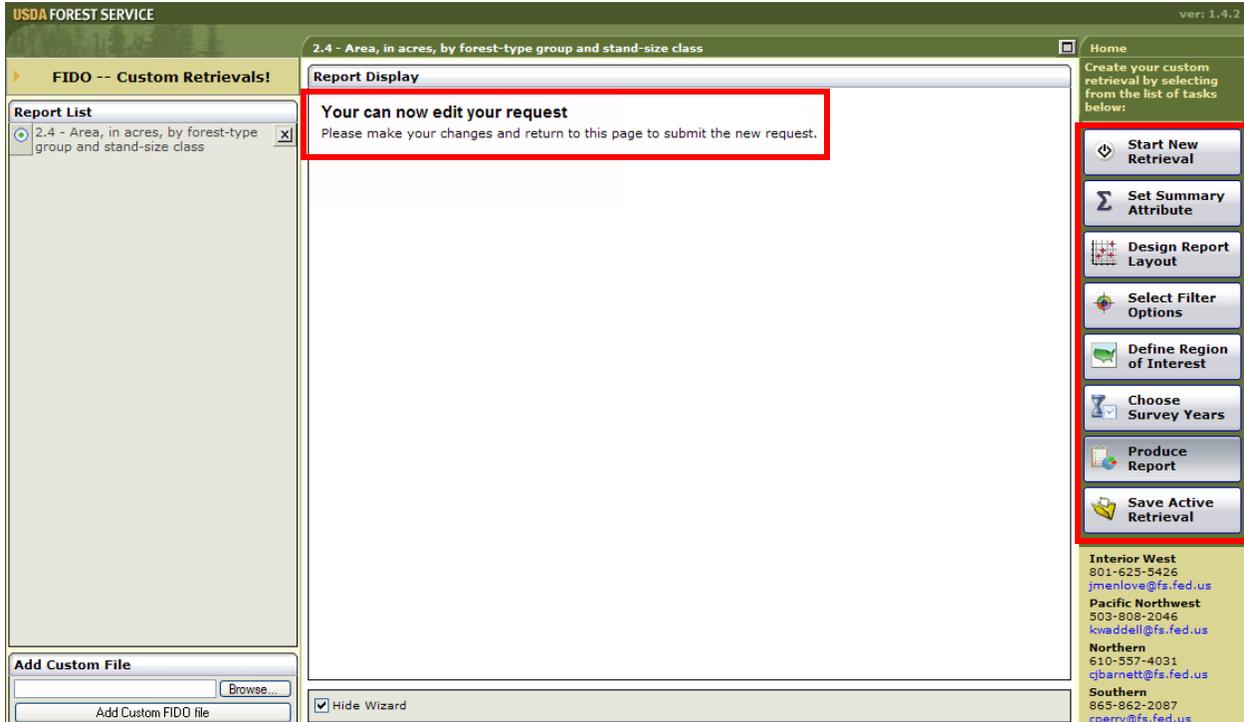
Inventory -- Michigan 2005-2009: area/volume

10. Edit the report.

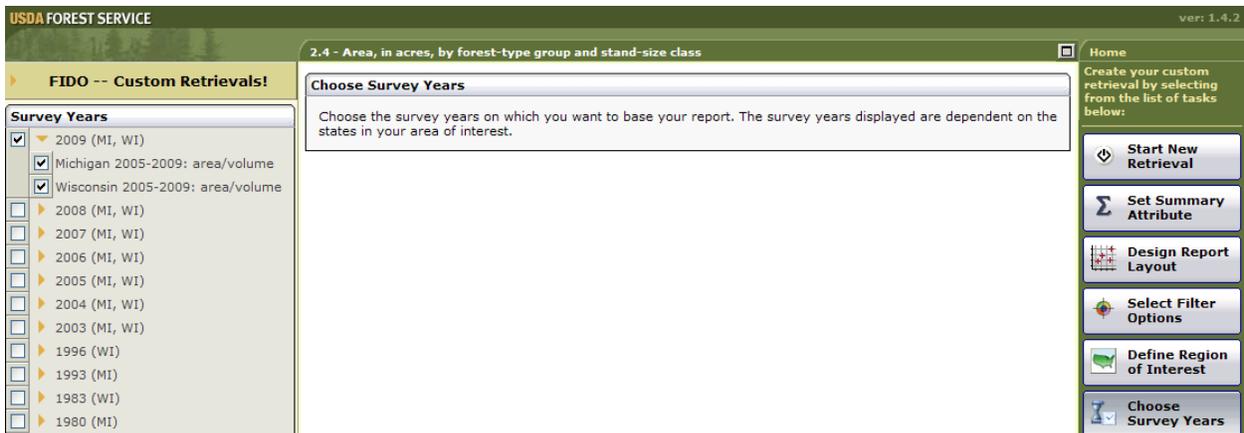
- a. Click on the **edit** button to change the report.



- b. “You can now edit your request” appears on the screen, and the menu items in the right column are now available for selecting.



- c. Click on **Choose Survey Years** to go back to the inventory selections. Unselect 2004 for MI and WI.



- d. Click on **Continue >>** and FIDO goes back to Produce Report. Click on **Submit** to produce the report. For the output, select **Forest land** and **HTML**. Click on **display** to view the report.

Scroll down to the Summary. Rather than listing the totals for each report (see the summary in 7 g.), FIDO combines the estimates of the states for each row in the summary. FIDO totals estimates for all reports when there is only one survey chosen per state (otherwise, it would be totaling estimates for the same state twice).

Summary

Area of sampled forest land by Forest type group and Stand size (in acres)					
Forest-type group	Stand-size class				Total
	Large Diameter (1)	Medium Diameter (2)	Small Diameter (3)	Nonstocked (5)	
White / red / jack pine group (100)	1,992,077	978,629	611,266	--	3,581,971
Spruce / fir group (120)	1,067,472	1,654,470	1,306,937	--	4,028,879
Other eastern softwoods group (170)	2,348	8,542	11,483	--	22,373
Douglas-fir group (200)	3,099	--	1,940	--	5,038
Fir / spruce / mountain hemlock group (260)	3,604	7,373	2,526	--	13,503
Exotic softwoods group (380)	66,698	63,253	54,075	--	184,027
Oak / pine group (400)	495,491	381,808	313,184	--	1,190,483
Oak / hickory group (500)	4,469,358	1,980,415	914,672	--	7,364,445
Oak / gum / cypress group (600)	12,128	10,157	2,959	--	25,244
Elm / ash / cottonwood group (700)	1,248,128	1,714,636	756,586	--	3,719,350
Maple / beech / birch group (800)	5,207,286	3,560,859	742,455	--	9,510,600
Aspen / birch group (900)	1,167,248	2,837,013	2,462,534	--	6,466,795
Other hardwoods group (960)	10,345	9,470	160,968	--	180,782
Exotic hardwoods group (990)	--	6,245	6,101	--	12,346
Nonstocked (999)	--	--	--	340,463	340,463
Totals:	15,745,281	13,212,869	7,347,686	340,463	36,646,298

Congratulations! – You have just mastered basic navigation of FIDO. **Grab a cuppa joe or the beverage of your choice and take a well-earned break.**