

## <https://www.fia.fs.fed.us/tools-data/> Use Evalidator

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### Forest Inventory and Analysis National Program

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#### Data and Tools

**DATIM**  
The **Design and Analysis Toolkit for Inventory and Monitoring (DATIM)** provides four modules: an analysis tool for inventory and monitoring (ATIM) used for creating tables; a spatial intersection tool (SIT); a design tool for inventory and monitoring plans (DTIM); and a data compilation system (DCS) to add FVS attributes to DATIM datasets.

**EVALIDator**  
EVALIDator allows users to produce a large variety of population estimates and their sampling error based on the current FIA DB.

**Engagement Portfolio**  
The FIA Engagement Portfolio provides rich, interactive experiences for the public while simultaneously making forestry data available to resource professionals and other users.

You have lots of choices. Be sure to use state. I selected the default area. Then click continue.

Unsaved Document Tools and Data - Forest Invent... EVALIDator Version 1.8.0.01 Unsaved Document (1) Kate Wolf - Green Eye

https://apps.fs.usda.gov/EvalIDator/evalIDator.jsp

### Retrieval Type

The "State(s) retrieval" type is the default. You should only select the "Circle retrieval" type when the area of interest is a circular area around some point. If you choose the circle option you must also enter the latitude and longitude of point center in decimal degrees (the latitude and longitude of Duluth, for example, is latitude = 46.78 and longitude = -92.12) and enter the circle radius in miles. A location's latitude and longitude can be obtained using [Google Maps \(opens in new window\)](#) (1. locate the point of interest using Google Maps, 2. right click on the location, 3. select "What's here?", 4. click on the green arrow to get the coordinates).

Select state or circle retrieval

State(s) retrieval  
 Circle retrieval

If "Circle retrieval" is selected then specify latitude, longitude and radius of the circle.

Latitude (in decimal degrees)  
Longitude (in decimal degrees)  
Radius (in miles)

Please select the land basis from the drop-down list.

All land  
Forest land  
Timberland

Please choose a numerator estimate group, and, for ratio estimates, a denominator estimate group.  
Note: An example of a ratio estimate is "volume per acre" where net volume of live trees is the numerator and area of forest land is the denominator.

Please select the numerator estimation group from the drop-down list

To produce ratio estimates select a denominator estimation group from the drop-down list

Area  
Area change total  
Annual area change  
Tree volume  
Tree dry weight  
Tree green weight  
Tree carbon  
Tree number  
Tree basal area  
Down woody material volume  
Down woody material dry weight  
Down woody material carbon  
Down woody material number  
Carbon  
Annual net growth volume

No denominator - just produce estimates  
Area  
Tree volume  
Tree dry weight  
Tree green weight  
Tree carbon  
Tree number  
Tree basal area  
Down woody material volume  
Down woody material dry weight  
Down woody material carbon  
Down woody material number  
Carbon  
Annual net growth volume  
Annual net growth dry weight

Continue Back

sessionId=FD1B418CD8702451EE48D5308477E88C

Go with the default. Click on continue.

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Revision date: October 31, 2019

**Step 2 of 4 (choosing the estimate type)**

Please choose an estimate from the drop-down list.

Area of forest land, in acres

Forest land definition (FIA=National, RPA=International (opens in new window))

Use FIA definition of forest land  
 Use RPA definition of forest land

Show list of all inventories or the most recent inventory for each State

Limit retrieval to only the most recent inventories  
 Show all available inventories

Continue Back

In step 1 you selected:  
State as the report type

sessionId=FD1B418CD8702451EE48D5308477E88C

Pick a state. I picked Idaho. Then click continue.

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**Step 3 of 4 (choosing the geographic area)**

Note: To report trends for a State choose multiple inventories for a State from the drop-down list below (to pick multiple inventories for a state you should have selected the "Show all available inventories" radio button on the previous page) and on the next page choose "EVALID" for the row variable.

List of available evaluations for this estimate.

(2 digit State code|4 digit Year|GrowthAcc(Y|N)|StateName|YearsDataCollected)

662013N	GHAN	2013	
152016N	BRADLEY	2010;2011;2012;2013;2014;2015	
162016N	IDAHO	2009;2010;2011;2012;2013;2014;2015;2016;2017;2018	
172016N	ILLINOIS	2012;2013;2014;2015;2016;2017;2018	
182016N	INDIANA	2012;2013;2014;2015;2016;2017;2018	
192016N	IOWA	2012;2013;2014;2015;2016;2017;2018	
202016N	KANSAS	2012;2013;2014;2015;2016;2017;2018	
212016N	KENTUCKY	2011;2012;2013;2014;2015;2016	
222016N	KENTUCKY	2009;2010;2011;2012;2013;2014;2015;2016	
232016N	MAINE	2014;2015;2016;2017;2018	

There are 2 geographic/temporal areas for which this attribute can be calculated. Please click on the geographic/temporal area(s) of interest to highlight it them and then click on the Continue button.

Note: To add or subtract to the list of selected items hold down the control key while clicking on individual items in the drop-down list.

Continue Back

In step 1 you selected:  
State as the report type.

In step 2 you selected:  
Area of forest land, in acres as the attribute of interest.  
FLADEF as the forest land definition.

sessionId=FD1B418CD8702451EE48D5308477E88C

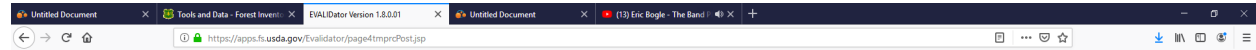
Scroll Down. I picked forest types for the column.

The screenshot shows the 'Column variable' section of the EVALIDator application. A dropdown menu is open, displaying a list of variables. 'Forest Type MDIR' is highlighted, and a red arrow points to it from the right. Below the dropdown, there is a 'Column temporal basis' section with a 'Current' dropdown menu. Further down, there is an 'Experts only!' section with instructions for overriding row labels and a text area for inputting plot CNs and values.

Scroll down some more. Be sure to click on ADD/CLEAR filters. Then click Continue.

The screenshot shows the bottom section of the EVALIDator application. It includes a summary of the selected variables: 'There are 60 page, 65 rows and 49 column classification variables.' Below this, there are two radio buttons for 'Show results of filters': 'Show filters' and 'ADD CLEAR Filters'. The 'ADD CLEAR Filters' option is selected, and a red arrow points to it. Below the filter options, there are two radio buttons for 'Estimates and sampling errors (one standard deviation)': 'Output estimates and sampling errors' and 'Output estimates (runs 7 to 8 times faster than with sampling errors)'. The 'Output estimates and sampling errors' option is selected. At the bottom, there are 'Continue' and 'Back' buttons, and a summary of the user's selections for step 1, step 2, and step 3.

# Pick your country. I picked Lemhi.



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### Step 4 of 4 continued (choosing filters)

Note: Polygon retrievals can be run by adding a SQL filtering clause via the textbox on the bottom of this page.

Examples of Oracle Spatial filtering clauses

**Example 1. Polygon with 5 vertices in Minnesota (note: first and last coordinate pairs must be the same - run time approximately 1 second)**  
and plot.cn in (SELECT /\*+ ordered \*/ CN FROM fs\_fia\_spatial.fad3b3\_plot\_geom c WHERE sdo\_relate(c.geom, sdo\_geometry(2003, 8265, null, sdo\_elem\_info\_array(1, 1003, 1), sdo\_ordinate\_array(-93.45, -94.45, -94.5, 44.5, -94.44, -93.44, -93.45)), 'mask=ANYINTERACT querytype=WINDOW') = TRUE)

**Example 2. Polygon with a 50km buffer around Interstate 94 and limit to Stearns County, MN (note: run time approximately 2 minutes)**  
and plot.cn in (SELECT /\*+ ordered \*/ CN FROM FS\_FIA\_SPATIAL.US\_INTERSTATES\_8265\_B fs\_fia\_spatial.fad3b3\_plot\_geom c WHERE (sdo\_relate(c.geom, sdo\_geometry(2003, 8265, null, sdo\_elem\_info\_array(1, 1003, 1), sdo\_ordinate\_array(-93.45, -94.45, -94.5, 44.5, -94.44, -93.44, -93.45)), 'mask=ANYINTERACT querytype=WINDOW') = TRUE) and c.cn=plot.cn and b.interstate=194)

**Warning! If you use a polygon to specify an area it should be validated to insure that the polygon will work with Oracle Spatial.**

[Step 1. Make polygon for filtering clause \(opens in new window\).](#)

[Step 2. Validate polygon for use with Oracle Spatial \(opens in new window\).](#)

Step 3. Copy SQL filtering clause from Step 2 and paste into "Text area" at the bottom of this page.

### Optional filtering to restrict the retrieval by condition and or tree characteristics

#### Condition filters

##### Filter based on the state and county variables (COND.STATECD and COND.COUNTYCD)

To limit the retrieval to specific counties use the control key and the mouse to select the desired counties from the drop-down list below. If no counties are selected then counties will not be used as a filter.

- 16 043 ID Fremont
- 16 045 ID Gem
- 16 047 ID Gooding
- 16 049 ID Idaho
- 16 051 ID Jefferson
- 16 053 ID Jerome
- 16 055 ID Kootenai
- 16 057 ID Latah
- 16 059 ID Lemhi
- 16 061 ID Lewis

##### Filter based on ownership group variable (COND.OWNGRPCD)

To limit the retrieval to specific ownership groups use the control key and the mouse to select the desired ownership groups from the drop-down list below. If no ownership groups are selected then ownership groups will not be used as a filter.

- 10 National Forest
- 20 Other federal
- 30 State and local government

# Scroll down and click on Show Results.



Specific Forest Types (You must choose one or more combinations of forest types.)

To limit the retrieval to specific forest types use the control key and the mouse to select the desired forest types from the drop-down list below. If no forest types are selected then forest types will not be used as a filter.

- 100 White / red / jack pine group
- 101 Jack pine
- 102 Red pine
- 103 Eastern white pine
- 104 Eastern white pine / eastern hemlock
- 105 Eastern hemlock
- 120 Spruce / fir group
- 121 Balsam fir
- 122 White spruce
- 123 Red spruce

**Filter based on stand origin (COND.STDORGCD)**

All Stand Origins

Specific Stand Origin (You must select one of the following stand origins.)

Stand origin is unknown and a specific stand origin may not be selected with the following States: (AZ, CO, ID, MT, NM, NV, UT, WY)

To limit the retrieval to specific stand origins use the control key and the mouse to select the desired stand origin from the drop-down list below. If no stand origins are selected then stand origins will not be used as a filter.

- 0 Natural
- 1 Artificial

**Filter based on site class (COND.SITECLCD)**

All Site Classes

Specific Site Class (You must choose one or more combinations of site class.)

To limit the retrieval to specific site classes use the control key and the mouse to select the desired site classes from the drop-down list below. If no site classes are selected then site classes will not be used as a filter.

- 1 Over 225 cubic ft./acre/year
- 2 165 - 224 cubic ft./acre/year
- 3 120 - 164 cubic ft./acre/year
- 4 85 - 119 cubic ft./acre/year
- 5 50 - 84 cubic ft./acre/year
- 6 20 - 49 cubic ft./acre/year

**Filter based on physiographic class (COND.PHYSCLCD)**

All Physiographic Classes

Specific Physiographic Class (You must choose one or more combinations of physiographic classes.)

Physiographic class is unknown and a specific physiographic class may not be selected with the following States: (AZ, CO, ID, MT, NM, NV, UT, WY) To limit the retrieval to specific physiographic classes use the control key and the mouse to select the desired physiographic classes from the drop-down list below. If no physiographic classes are selected then physiographic classes will not be used as a filter.

- 11 Xeric - dry tops
- 12 Xeric - dry slopes
- 13 Xeric - deep sands
- 19 Xeric - other
- 21 Mesic - flatwoods

Text area to input additional SQL where clause: (experts only please - syntax must be exact - example: to limit the retrieval to National Forest ownership put "and cond.owncd=11" in the textbox)

And after those all those steps here are the different Forest Type acres for Lemhi County, Idaho. You can copy and paste the tables from the web page into Excel to make nice figures.



### EVALIDator Version 1.8.0.01 - View report

Numerator attribute number and description: 0002 Area of forest land, in acres  
 FIADEF as the forest land definition.  
 State=EVAL\_GRP(s):  
 Idaho 162018  
 Page variable=None (based on values from the Current inventory).  
 Row variable=All live stocking (based on values from the Current inventory).  
 Column variable=Forest type group abbr (based on values from the Current inventory).  
 Filtering clause(s): and ((cond.stated=16 and cond.county= in (059)))

#### Estimate:

All live stocking	Forest type group abbr										
	Total	PJ	DF	PP	FirSpr	LodP	OtWsw	EAC	AsBir	WlddHw	Nons
<b>Total</b>	1,735,542	9,394	793,287	46,817	261,539	253,969	70,348	1,552	31,228	30,566	236,842
<b>Overstocked</b>	54,631	-	9,381	-	9,375	17,169	3,131	1,552	-	-	14,024
<b>Fully stocked</b>	187,714	-	75,154	6,263	57,931	37,407	9,394	-	-	-	1,566
<b>Medium stocked</b>	648,879	6,263	345,414	12,526	133,050	119,373	12,526	-	10,960	8,768	-
<b>Poorly stocked</b>	607,306	3,131	363,338	28,028	61,184	79,851	45,297	-	20,268	6,209	-
<b>Nonstocked</b>	237,012	-	-	-	-	170	-	-	-	-	236,842

#### Sampling error percent (Confidence level 68%):

Note: for 95% confidence level multiply SE pct by 1.96

All live stocking	Forest type group abbr										
	Total	PJ	DF	PP	FirSpr	LodP	OtWsw	EAC	AsBir	WlddHw	Nons
<b>Total</b>	2.40	74.68	6.71	34.77	14.13	14.70	28.58	99.72	41.63	33.64	14.52
<b>Overstocked</b>	27.56	-	70.93	-	74.74	53.69	70.82	99.72	-	48.20	-
<b>Fully stocked</b>	17.10	-	27.97	100.33	32.19	40.62	74.68	-	-	100.33	-
<b>Medium stocked</b>	7.90	100.33	11.94	70.82	20.59	22.07	70.82	-	71.55	52.16	-
<b>Poorly stocked</b>	8.26	100.33	11.56	43.79	30.04	27.34	35.82	-	51.50	99.72	-
<b>Nonstocked</b>	14.51	-	-	-	-	100.33	-	-	-	-	14.52

#### Number of non-zero plots in estimate:

Note: total number of plots in selected evaluations=874