



# Idaho Forest Inventory Stocks



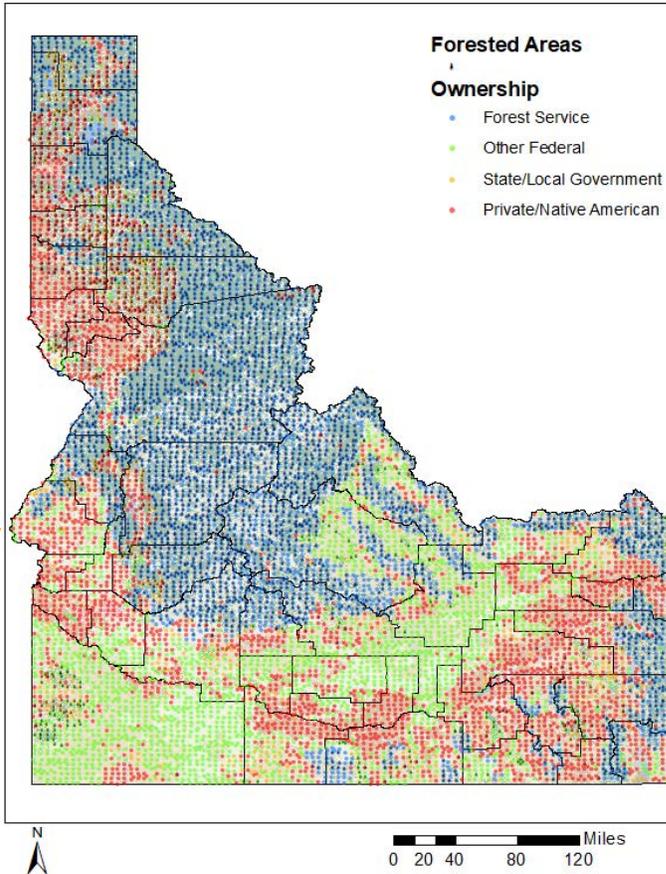
University of Idaho  
Policy Analysis Group

## Land Base Overview

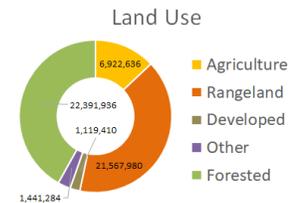
The Forest Inventory and Analysis (FIA) program administered by the USDA Forest Service serves as our national forest inventory. In Idaho, each plot represents roughly 6,000 acres and is revisited on a 10-year cycle beginning in 2004. The data collected provides valuable information on forest extent and stocks as well as how those stocks change over time. This fact sheet details the FIA data for the state of Idaho.

Area Sq Miles	Forested Acres	% Forested	Total Acres
83,505	22,391,909	41.9%	53,443,245

The state of Idaho is highly forested with just over 22 million acres (41%) of its land base classified as forest. Forest Service forests dominate the central part of the county while the private and federal land is concentrated mostly in the southern and northwestern parts of the county.



Distribution of 8996 Idaho USDA Forest Inventory and Analysis Plots by land ownership



## Area and Volume by Forest Type and Owner

Equally important to the overall extent of the county's forests is its ownership and prevalent forest types. Forest extent by type and the volume on those acres provides insight into the economic and ecological opportunities given each owner's management focus. Idaho is dominated by Forest Service land in largely softwood forest types like True Fir and Douglas-fir.

	millions of cubic feet					thousand acres				
	Forest Service	Other Federal	State/ Local	Private/ Native American	Total	Forest Service	Other Federal	State/ Local	Private/ Native American	Total
<b>Softwood</b>										
Douglas-fir	4,853,889	269,120	278,886	797,102	6,198,997	11,620	537	718	1,934	14,808
Juniper	87,880	93,891	24,066	110,542	316,379	49	51	6	69	174
Lodgepole Pine	2,111,656	52,202	31,917	106,755	2,302,530	2,935	51	56	149	3,191
Other Softwood	1,379,024	272,465	310,461	433,081	2,395,032	6,012	337	637	967	7,953
Ponderosa Pine	908,655	42,936	140,177	423,150	1,514,918	2,235	123	261	742	3,361
True Fir	4,605,293	84,764	383,023	641,810	5,714,890	14,500	312	1,075	1,120	17,008
<b>Hardwood</b>										
Hardwood	2,565,684	191,481	103,690	432,661	3,293,517	546	113	79	274	1,012
<b>Total</b>	16,512,080	1,006,860	1,272,220	2,945,102	21,736,262	37,898	1,524	2,831	5,254	47,507



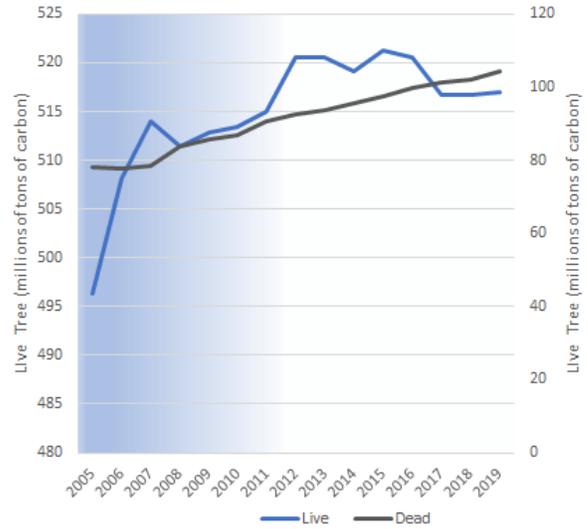
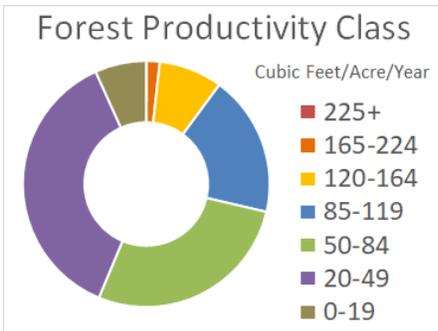
# Idaho Forest Inventory Change



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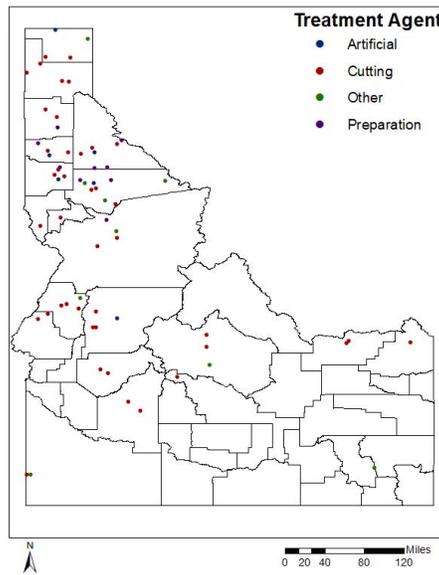
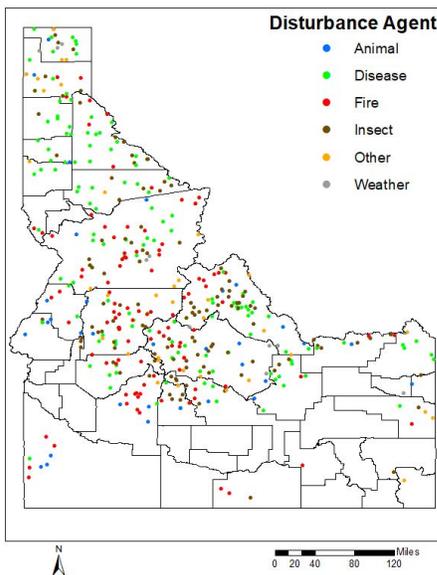
## Forest Carbon

Forests are a significant part of the global carbon cycle. The productivity class indicates potential annual forest growth. This potential along with current forest size and stocking affect how much carbon a forest can intake, sequestering it from atmospheric accounts into woody biomass. Idaho's forests have been emitting carbon at a rate of 0.5 MT C per year since 2013. Dead tree carbon pools have fluctuated over that time period ranging between less than 80 and 100 MT C in stocks.



Each year since 2004, the FIA has measured 1/10th of the plots in Idaho. This means that a full sample was not collected until 2013. This is indicated by the blue coloring on the graph, which becomes lighter as more plots are measured. The early measurements are less precise than the ones after 2013, when all plots were measured, and the remeasuring process began.

## Disturbance



Disturbances, either natural or management-related, are another factor of change affecting Idaho's forests. Fire and insects are the largest factor of disturbance observed in the FIA data for the state of Idaho, and becoming a bigger problem as they become more severe and affect more trees. Forest management related disturbance is usually from cutting, and is much smaller and concentrated on private or state forest land.

	Forest Service	Other Federal	State/Local	Private/ Native American	Total
----- acres -----					
<b>Disturbance</b>					
Disease	467,234	33,968	30,428	66,087	597,717
Fire	573,036	15,542	5,565	9,522	603,665
Insect	646,540	23,861	9,663	14,096	694,160
Other Disturbance	233,754	22,935	28,240	175,577	460,505
<b>Total</b>	<b>1,920,564</b>	<b>96,305</b>	<b>73,896</b>	<b>265,283</b>	<b>2,356,047</b>
<b>Management</b>					
Planting	1,114	0	3,094	5,761	9,970
Cutting	13,345	1,395	21,090	54,127	89,957
Other Treatment	1,784	0	3,601	8,520	13,906
Preparation	3,153	605	316	3,289	7,363
<b>Total</b>	<b>19,396</b>	<b>2,000</b>	<b>28,101</b>	<b>71,698</b>	<b>121,195</b>
<b>Grand Total</b>	<b>1,939,960</b>	<b>98,305</b>	<b>101,997</b>	<b>336,980</b>	<b>2,477,242</b>