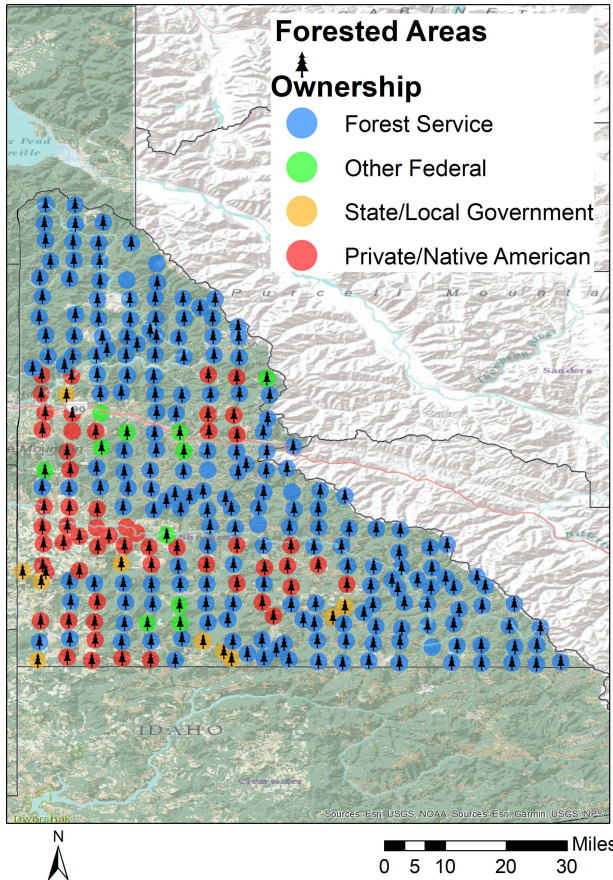




# Shoshone County Forest Inventory Stocks



University of Idaho  
Policy Analysis Group



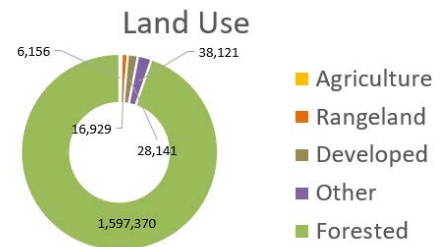
Distribution of 277 Idaho USDA Forest Inventory and Analysis Plots by land ownership

## 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 Shoshone County, Idaho.

Area Sq Miles	Forested Acres	% Forested	Total Acres
2,635	1,597,370	94.7%	1,686,717

Shoshone County is highly forested with just under 1.6 million acres (95%) of its land base classified as forest. Forest Service forests dominate the eastern higher elevation parts of the county while the private forest land is concentrated mostly in the southwest.



## 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. Shoshone County is dominated by Forest Service land in largely softwood forest types like True Fir and Douglas-fir.

	Private/ Native					Private/ Native				
	Forest Service	Other Federal	State/Local	American	Total	Forest Service	Other Federal	State/Local	American	Total
	-----millions of cubic feet-----					-----thousand acres-----				
<b>Softwood</b>										
Douglas-fir	1,245	109	75	175	1,604	298	34	12	55	399
Lodgepole Pine	271	0	0	6	278	105	0	0	8	113
Other Softwood	1,237	149	107	141	1,635	250	22	28	110	411
Ponderosa Pine	2	12	0	25	40	8	2	0	12	22
True Fir	2,125	49	65	216	2,454	476	6	25	104	612
<b>Hardwood</b>	3	0	0	0	3	20	0	0	9	29
<b>Total</b>	4,884	319	247	563	6,013	1,157	64	65	300	1,586



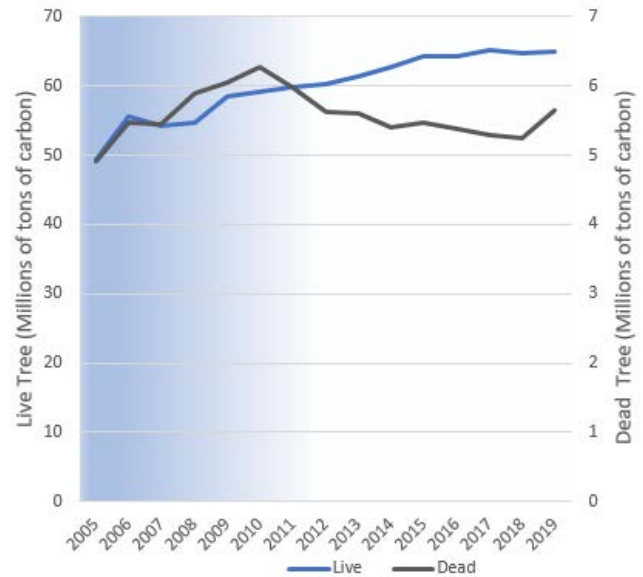
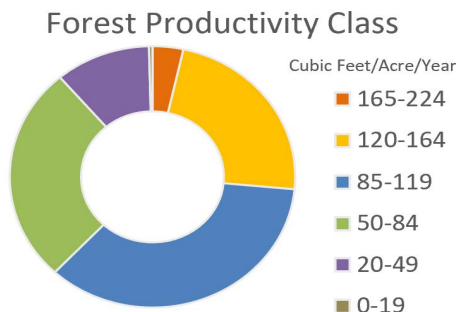
# Shoshone County Forest Inventory Change



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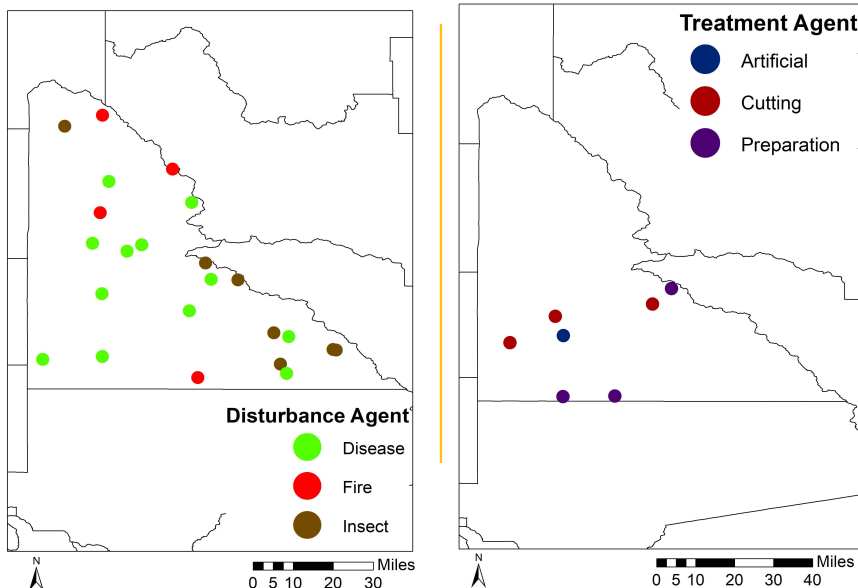
## Forest Carbon

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. Shoshone County's forests have been removing carbon from the atmosphere at a rate of 0.6 MT C per year since 2013. Dead tree carbon pools have been relatively stable over that time period ranging between 5 and 6 MT C in stocks.



Each year since 2004, the FIA has measured 1/10th of the plots in Shoshone County. 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. Disease is the largest factor of disturbance observed in the FIA data for Shoshone County, and becoming a bigger problem as it infects more trees. Forest management related disturbance is much smaller and concentrated on private forest land.

	Forest Service	Other Federal	State/Local	Private/Native American	Total
----- acres -----					
<b>Disturbance</b>					
Disease	112,105	9,259	5,556	11,981	138,900
Fire	8,796	0	0	0	8,796
Insect	27,032	0	0	0	27,032
Other Disturbance	0	0	0	0	0
<b>Total</b>	<b>147,932</b>	<b>9,259</b>	<b>5,556</b>	<b>11,981</b>	<b>174,728</b>
<b>Management</b>					
Planting	0	0	0	1,080	1,080
Cutting	1,092	0	772	12,110	13,973
Other Treatment	617	0	617	3,086	4,321
Preparation	0	0	154	0	154
<b>Total</b>	<b>1,709</b>	<b>0</b>	<b>1,543</b>	<b>16,276</b>	<b>19,528</b>
<b>Grand Total</b>	<b>149,642</b>	<b>9,259</b>	<b>7,099</b>	<b>28,257</b>	<b>194,256</b>