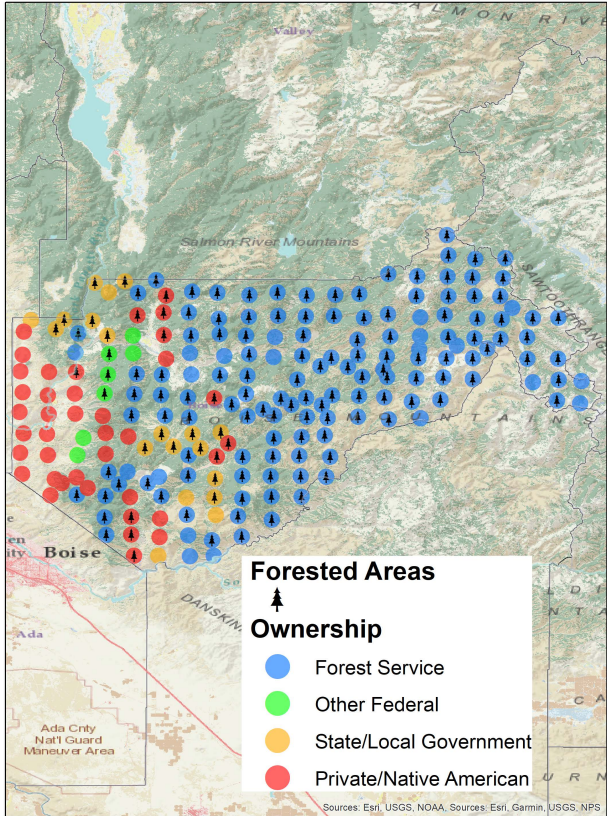




# Boise County Forest Inventory Stocks



University of Idaho  
Policy Analysis Group



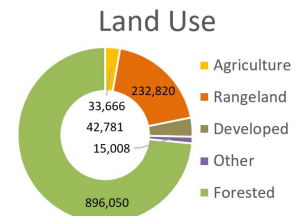
Distribution of 210 Idaho USDA Forest Inventory and Analysis Plots by land ownership

## 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 Boise County, Idaho.

Area Sq Miles	Forested Acres	% Forested	Total Acres
1,907	896,050	73.4%	1,220,325

Boise County is highly forested with just under 900,000 acres (73%) of its land base classified as forest. Forest Service forests dominate the eastern parts of the county while the state and local government forest land is concentrated mostly in the northwest and center of the county.



## 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. Boise County is mostly Forest Service land in largely softwood forest types like True Fir and Ponderosa Pine.

	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	490	3	26	31	550	233	6	12	9	260
Lodgepole Pine	13	0	0	0	13	16	0	0	0	16
Other Softwood	25	0	0	0	25	6	0	0	0	6
Ponderosa Pine	518	4	114	81	717	210	6	54	53	323
True Fir	213	7	22	0	242	99	6	6	0	112
<b>Hardwood</b>										
	23	0	1	0	24	165	0	8	0	173
<b>Total</b>	<b>1,283</b>	<b>14</b>	<b>163</b>	<b>112</b>	<b>1,571</b>	<b>729</b>	<b>18</b>	<b>79</b>	<b>62</b>	<b>888</b>



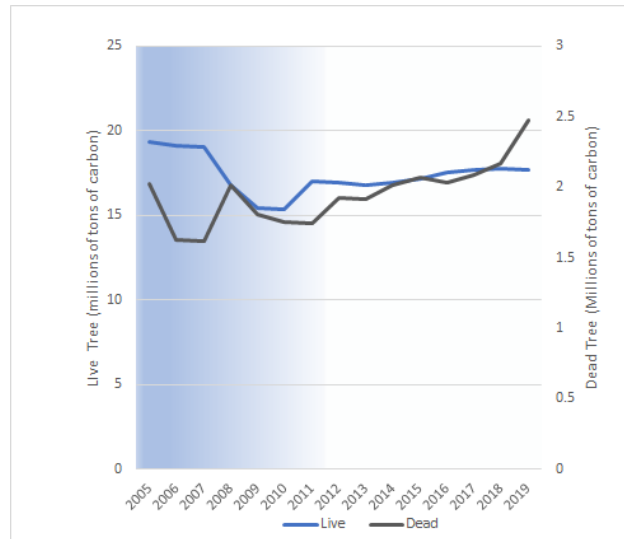
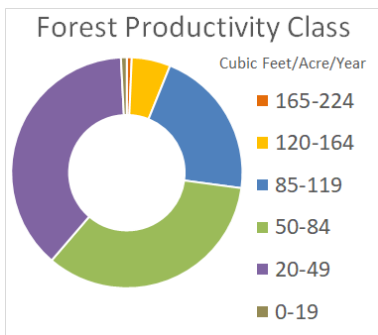
# Boise County Forest Inventory Change



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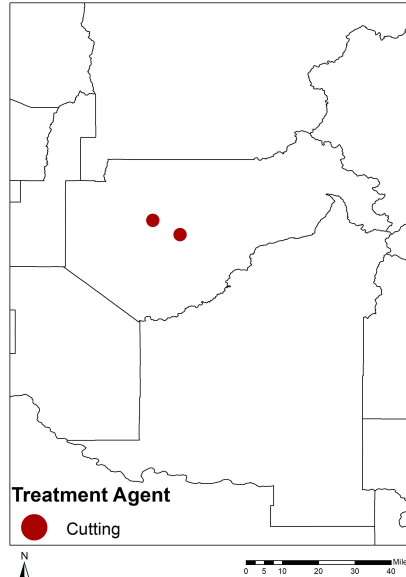
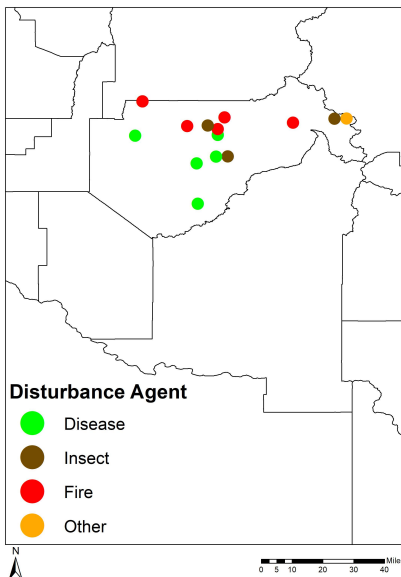
## Forest Carbon

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. Boise County's forests have been removing carbon from the atmosphere at a rate of 0.1 MT C per year since 2013. Dead tree carbon pools have been relatively stable over that time period ranging above 1 and below 3 MT C in stocks.



Each year since 2004, the FIA has measured 1/10th of the plots in Boise 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. Fire is the largest factor of disturbance observed in the FIA data for Boise County, as well as disease. Forest management related disturbance is much smaller.

	Forest Service	Other Federal	State/Local	Private/Native American	Total
----- acres -----					
<b>Disturbance</b>					
Disease	14,471	1,809	0	0	16,280
Fire	22,706	0	452	0	23,158
Insect	10,401	0	0	0	10,401
Other Disturbance	2,713	0	0	0	2,713
<b>Total</b>	<b>50,291</b>	<b>1,809</b>	<b>452</b>	<b>0</b>	<b>52,552</b>
<b>Management</b>					
Planting	0	0	151	0	151
Cutting	1,539	0	754	0	2,293
Other Treatment	0	0	0	0	0
Preparation	0	0	0	0	0
<b>Total</b>	<b>1,539</b>	<b>0</b>	<b>904</b>	<b>0</b>	<b>2,444</b>
<b>Grand Total</b>	<b>51,830</b>	<b>1,809</b>	<b>1,357</b>	<b>0</b>	<b>54,996</b>