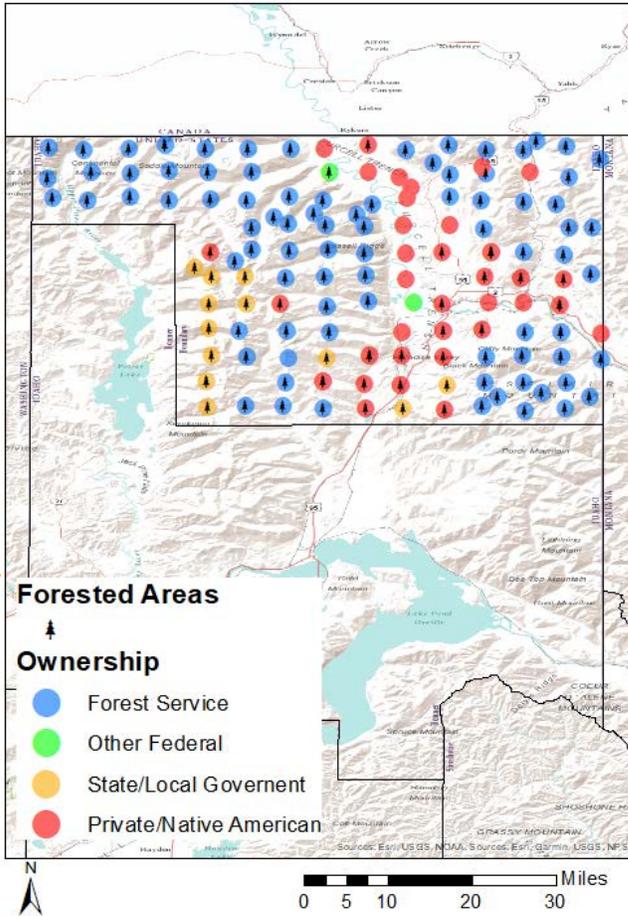




# Boundary County Forest Inventory Stocks



University of Idaho  
Policy Analysis Group



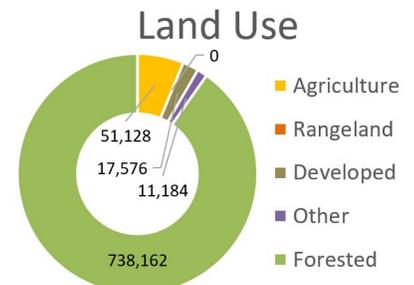
Distribution of 133 Idaho USDA Forest Inventory and Analysis Plots by land ownership

## 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 Boundary County, Idaho.

Area Sq Miles	Forested Acres	% Forested	Total Acres
1,278	738,162	90.2%	818,050

Boundary County is highly forested with just over 700,000 acres (90%) of its land base classified as forest. Forest Service forests dominate most of the county while the state 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. Boundary County is dominated by Forest Service land in largely softwood forest types like True Fir, Douglas-fir, and other softwood.

	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	386	0	34	71	491	111	0	13	26	149
Lodgepole Pine	247	0	17	9	272	97	0	6	4	107
Other Softwood	469	0	15	94	578	89	0	13	25	127
Ponderosa Pine	0	0	0	57	57	0	0	0	13	13
True Fir	684	0	53	20	757	210	0	40	33	283
<b>Hardwood</b>										
Hardwood	1	11	0	45	57	19	5	0	22	46
<b>Total</b>	<b>1,786</b>	<b>11</b>	<b>120</b>	<b>295</b>	<b>2,212</b>	<b>526</b>	<b>5</b>	<b>72</b>	<b>122</b>	<b>725</b>



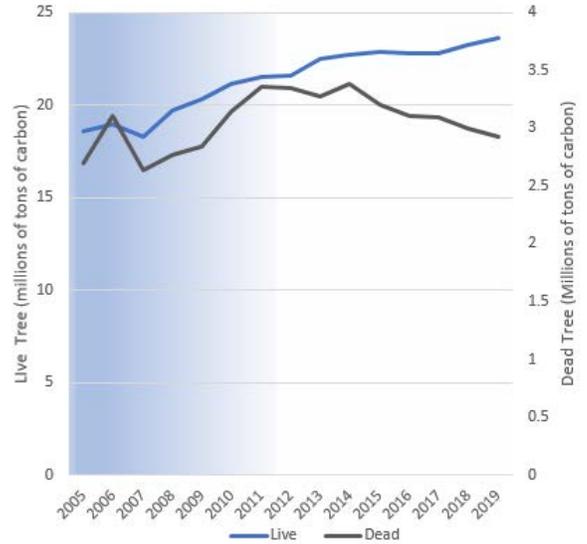
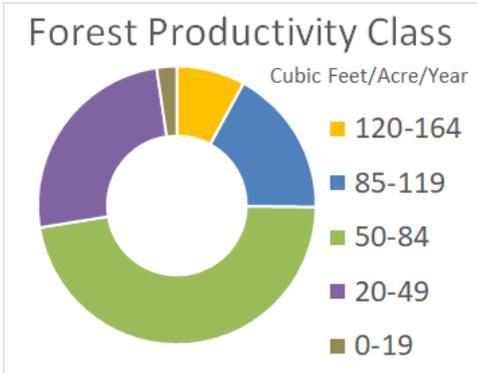
# Boundary County Forest Inventory Change



University of Idaho  
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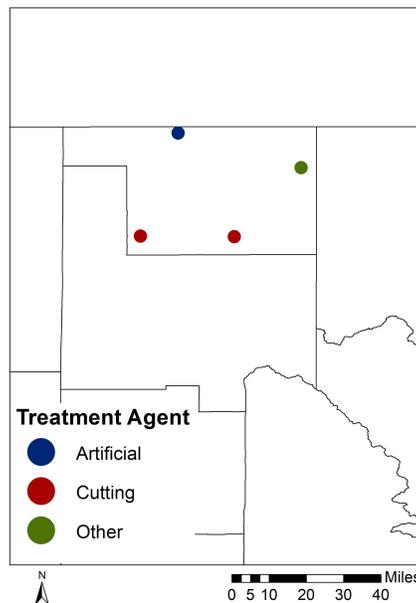
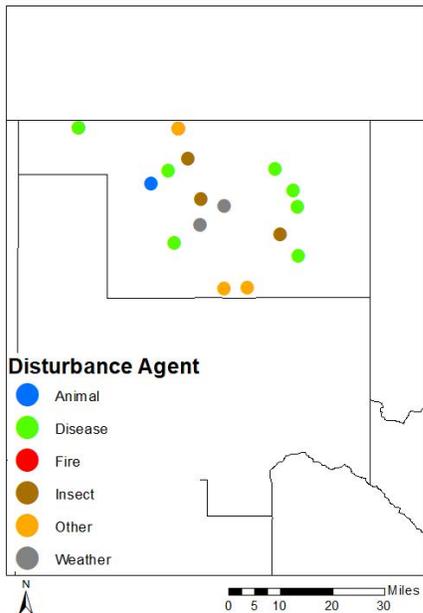
## Forest Carbon

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. Boundary County's forests have been removing carbon from the atmosphere at a rate of 0.17 MT C per year since 2013. Dead tree carbon pools have been relatively stable over that time period ranging between 2.5 and 3.5 MT C in stocks.



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

	Forest Service	Other Federal	State/Local	Private/Native American	Total
----- acres -----					
<b>Disturbance</b>					
Disease	23,739	0	5,774	1,925	31,439
Fire	2,566	0	0	0	2,566
Insect	13,474	0	0	0	13,474
Other Disturbance	25,023	0	5,774	5,774	36,572
<b>Total</b>	<b>64,802</b>	<b>0</b>	<b>11,549</b>	<b>7,699</b>	<b>84,051</b>
<b>Management</b>					
Planting	642	0	481	0	1,123
Cutting	0	0	481	1,838	2,320
Other Treatment	642	0	0	0	642
Preparation	0	0	0	0	0
<b>Total</b>	<b>1,283</b>	<b>0</b>	<b>962</b>	<b>1,838</b>	<b>4,084</b>
<b>Grand Total</b>	<b>66,086</b>	<b>0</b>	<b>12,511</b>	<b>9,538</b>	<b>88,135</b>