



Valley County Forest Inventory Stocks



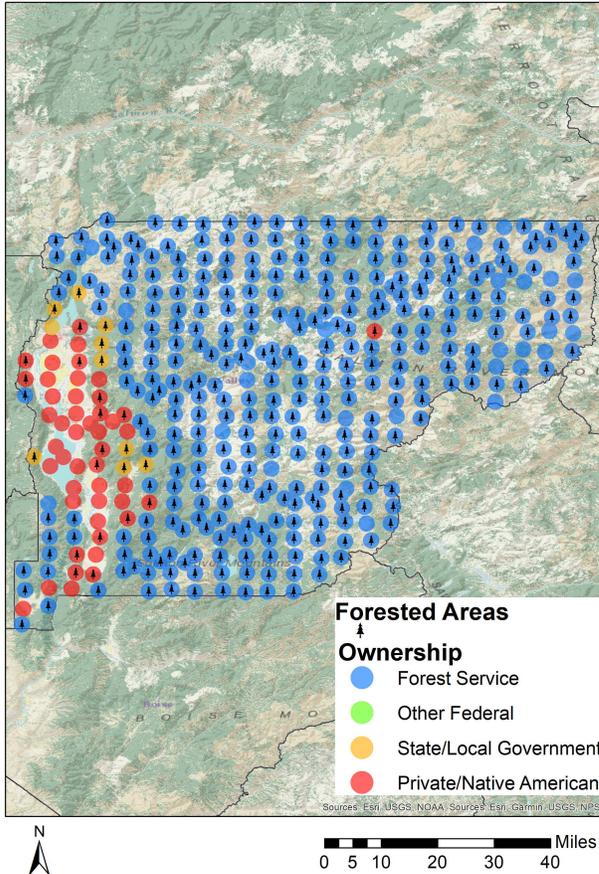
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Policy Analysis Group

Land Base Overview

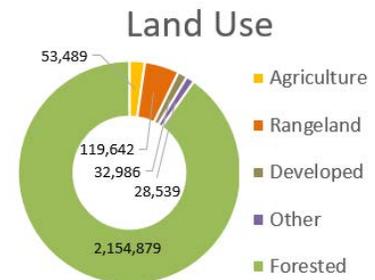
The Forest Inventory and Analysis (FIA) program administered by the USDA Forest Service serves as our national forest inventory. In Idaho, each plot represents roughly 6,000 acres and is revisited on a 10-year cycle beginning in 2004. The data collected provides valuable information on forest extent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

Area Sq Miles	Forested Acres	% Forested	Total Acres
3,734	2,154,879	90.2%	2,389,535

Valley County is highly forested with just over 2.1 million acres (90%) of its land base classified as forest. Forest Service forests dominate the eastern and central parts of the county while the private and state forest land is concentrated mostly in the west.



Distribution of 406 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. Valley County is dominated by Forest Service land in largely softwood forest types like True Fir, Douglas-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
Softwood										
Douglas-fir	744	0	48	47	839	455	0	25	38	518
Lodgepole Pine	283	0	0	0	283	330	0	0	0	330
Other Softwood	197	0	77	56	330	79	0	19	19	116
Ponderosa Pine	341	0	4	23	367	135	0	6	20	161
True Fir	699	0	22	28	749	445	0	6	17	469
Hardwood										
	44	0	0	2	45	481	0	0	6	488
Total	2,308	0	151	154	2,613	1,926	0	57	100	2,082

Fact Sheet #15 (April 28, 2022) – Fact Sheets are based on research reports relevant to current natural resource topics. Contributors: Kelsey Vershum Undergraduate Researcher and Greg Latta, Policy Analysis Group Director



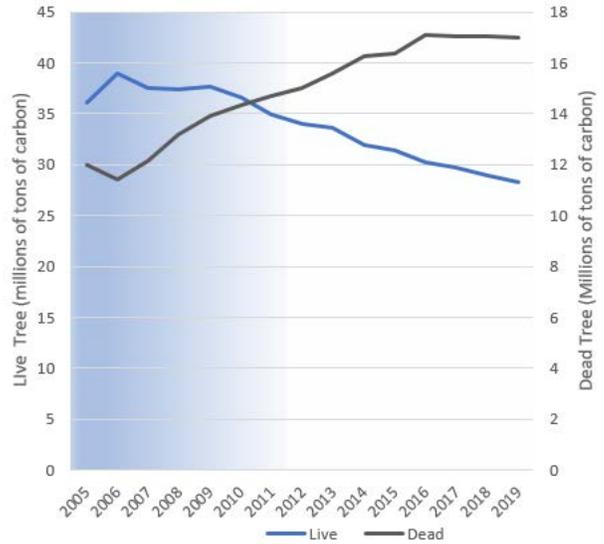
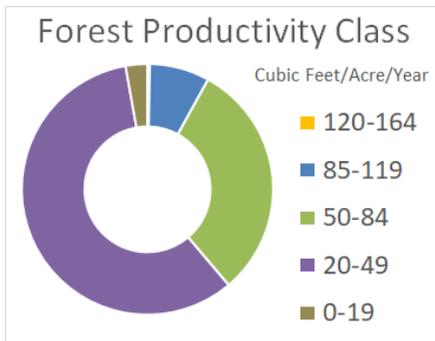
Valley County Forest Inventory Change



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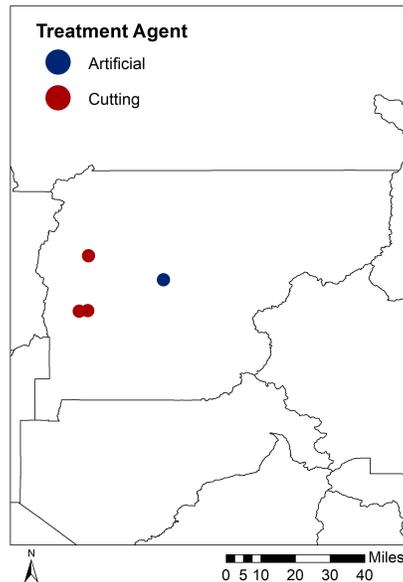
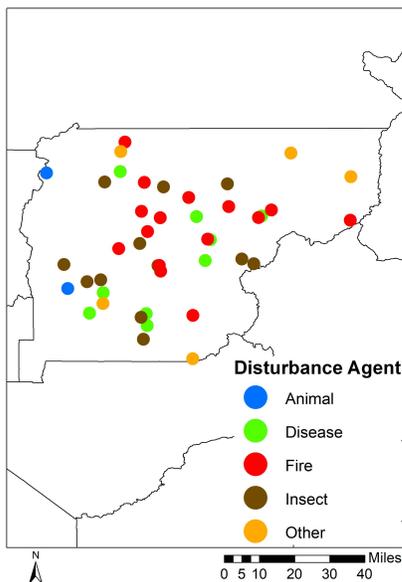
Forest Carbon

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. Valley County's forests have been emitting carbon at a rate of 0.8 MT C per year since 2013. Dead tree carbon pools have fluctuated over that time period ranging between 10 and 18 MT C in stocks.



Each year since 2004, the FIA has measured 1/10th of the plots in Valley 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 Valley County. Forest management related disturbance is much smaller and is mostly from cutting.

	Forest Service	Other Federal	State/Local	Private/Native American	Total
----- acres -----					
Disturbance					
Disease	23,794	0	0	1,891	25,685
Fire	100,581	0	0	0	100,581
Insect	62,821	0	3,782	0	66,602
Other Disturbance	22,747	0	0	18,909	41,656
Total	209,943	0	3,782	20,800	234,525
Management					
Planting	473	0	0	0	473
Cutting	1,261	0	630	1,421	3,312
Other Treatment	0	0	0	0	0
Preparation	0	0	0	0	0
Total	1,733	0	630	1,421	3,785
Grand Total	211,676	0	4,412	22,221	238,309