



Bonner County Forest Inventory Stocks



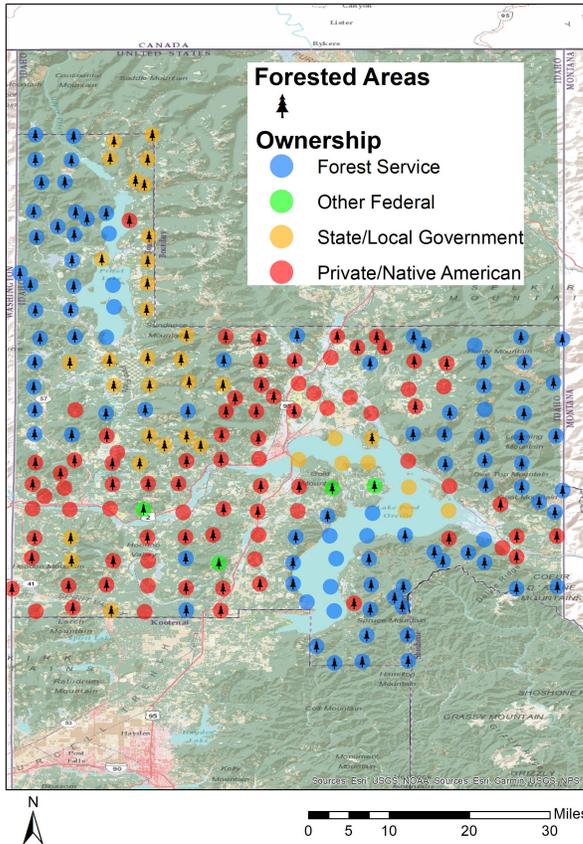
University of Idaho
Policy Analysis Group

Land Base Overview

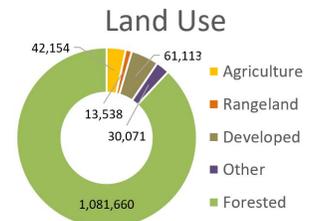
The Forest Inventory and Analysis (FIA) program administered by the USDA Forest Service serves as our national forest inventory. In Idaho, each plot represents roughly 6,000 acres and is revisited on a 10-year cycle beginning in 2004. The data collected provides valuable information on forest extent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

Area Sq Miles	Forested Acres	% Forested	Total Acres
1,920	1,081,660	88.0%	1,228,536

Bonner County is highly forested with just over 1 million acres (88%) of its land base classified as forest. Forest Service forests dominate the northwestern and southeaster parts of the county while the private and state owned forest land is concentrated mostly in the center.



Distribution of 217 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. Bonner County is largely Forest Service land in largely softwood forest types like True Fir, Douglas-fir and other softwoods.

	Forest Service	Other Federal	State/Local	Private/Native American	Total	Forest Service	Other Federal	State/Local	Private/Native American	Total
-----millions of cubic feet-----					-----thousand acres-----					
Softwood										
Douglas-fir	462	47	56	161	726	130	15	45	88	278
Lodgepole Pine	56	0	7	36	99	20	0	11	31	61
Other Softwood	909	0	186	112	1,208	185	0	43	54	283
Ponderosa Pine	11	0	8	77	96	11	0	6	22	39
True Fir	440	0	129	43	612	135	0	53	46	234
Hardwood	0	4	2	87	94	2	5	2	58	66
Total	1,878	51	389	517	2,835	483	20	159	299	960



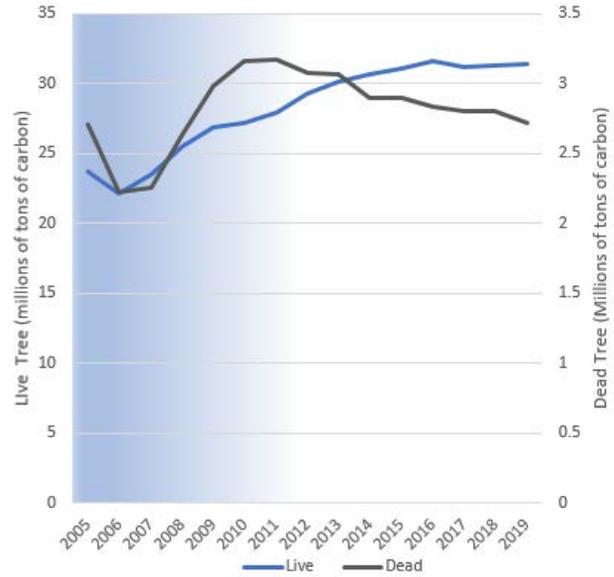
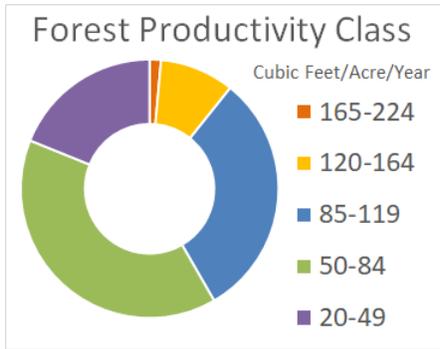
Bonner County Forest Inventory Change



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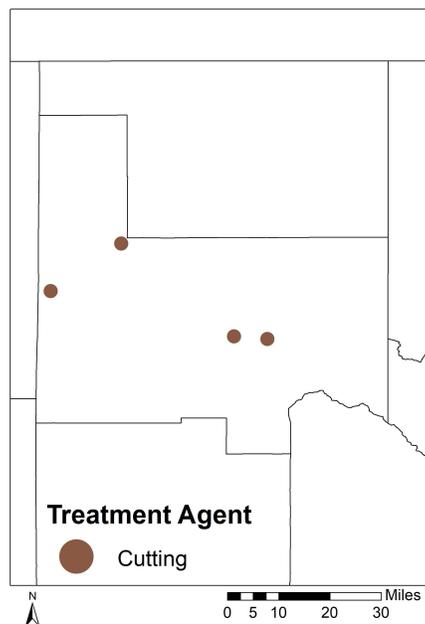
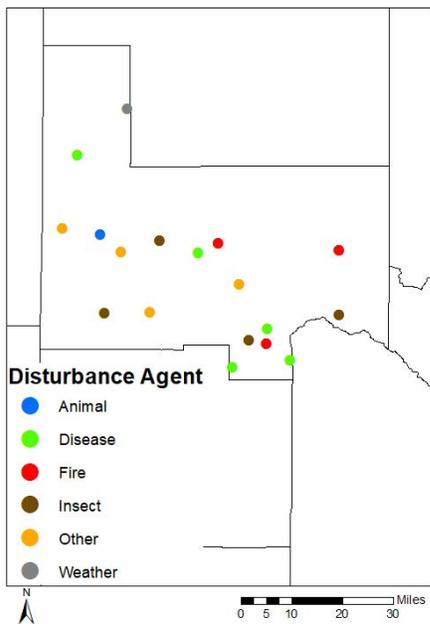
Forest Carbon

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. Bonner County's forests have been removing carbon from the atmosphere at a rate of 0.2 MT C per year since 2013. Dead tree carbon pools have been relatively stable over that time period ranging between 2 and 3.5 MT C in stocks.



Each year since 2004, the FIA has measured 1/10th of the plots in Bonner 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 and other disturbances are the largest factor of disturbance observed in the FIA data for Bonner County, and becoming a bigger problem. Forest management related disturbance is much smaller and largely on private land.

	Forest Service	Other Federal	State/Local	Private/Native American	Total
----- acres -----					
Disturbance					
Disease	18,804	0	2,426	2,498	23,729
Fire	7,279	0	0	0	7,279
Insect	6,066	0	1,820	1,533	9,418
Other Disturbance	9,918	0	8,492	52,155	70,565
Total	42,068	0	12,738	56,186	110,992
Management					
Planting	0	0	152	0	152
Cutting	782	303	2,426	7,142	10,654
Other Treatment	0	0	0	0	0
Preparation	0	0	0	557	557
Total	782	303	2,578	7,699	11,363
Grand Total	55,872	303	19,563	122,708	198,446