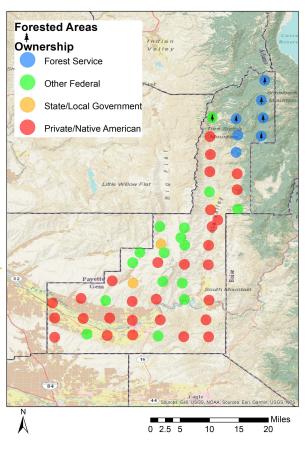


Gem County Forest Inventory Stocks



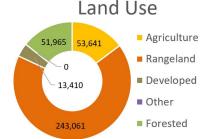


Land Base Overview

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 Gem County, Idaho.

Area Sq	Forested	% Forestad	Total Acres
Miles	Acres	∞ Foresteu	Total Acres
566	51,965	14.4%	362,077

Gem County is not highly forested with just over 50,000 acres (14%) of its land base classified as forest. Forest Service forests are located in the northeastern parts of the county while the private and federal land is concentrated mostly in the southwest.



Distribution of 54 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. Gem County is largely Forest Service land in softwood forest types like True Fir and Ponderosa Pine.

				Private/					Private/	
	Forest	Other	State/	Native		Forest	Other	State/	Native	
	Service	Federal	Local	American	Total	Service	Federal	Local	American	Total
thousand acresthousand acres										
Softwood										
Ponderosa Pine	17	21	0	0	39	7	7	0	0	14
True Fir	128	0	0	0	128	27	0	0	0	27
Total	145	21	0	0	167	34	7	0	0	41

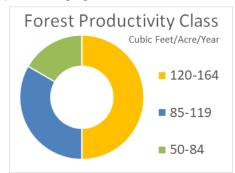


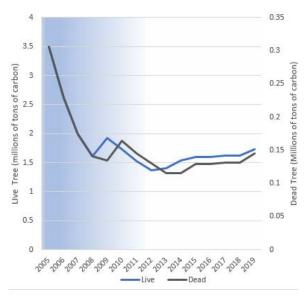
Gem County Forest Inventory Change



Forest Carbon

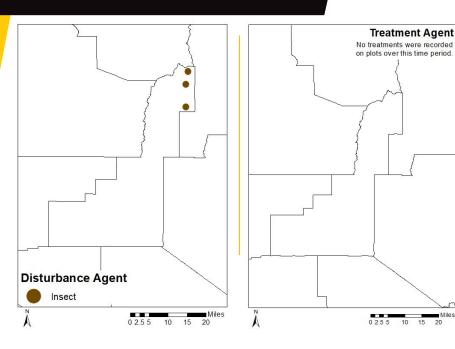
Forests are a significant part of the global carbon cycle. The productivity class indicates potential annual forest growth. This potential along with current forest size and stocking affect how much carbon a forest can intake, sequestering it from atmospheric accounts into woody biomass. Gem County's forests have been removing carbon from the atmosphere at a rate of 0.05 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 Gem 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 Gem County, and becoming a bigger problem as it infects more trees. No treatments were recorded in Gem County during this time period.

	Forest Service	Other Federal	State/ Local	Private/ Native American	
		acres			
Disturbance					Total
Disease	0	0	0	0	0
Fire	0	0	0	0	0
Insect	6,120	0	0	0	6,120
Other Disturbance	0	0	0	0	0
Total	6,120	0	0	0	6,120
Management					
Planting	0	0	0	0	0
Cutting	0	0	0	0	0
Other Treatment	0	0	0	0	0
Preparation	0	0	0	0	0
Total	0	0	0	0	0
Grand Total	6.120	0	0	0	6.120