



Madison County Forest Inventory Stocks



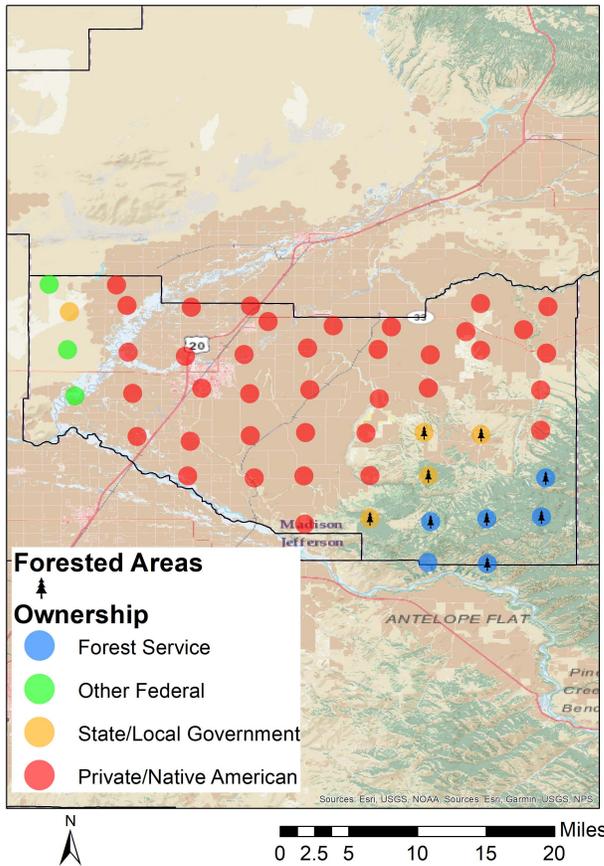
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Land Base Overview

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 Madison County, Idaho.

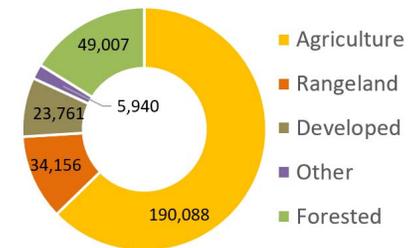
| Area Sq Miles | Forested Acres | % Forested | Total Acres |
|---------------|----------------|------------|-------------|
| 473 | 49,007 | 16.2% | 302,952 |

Madison County has just under 50,000 acres (16%) of its land base classified as forest. Forest Service and state forests are found in the southeastern corner of the county while the private land dominates the rest of the county.



Distribution of 51 Idaho USDA Forest Inventory and Analysis Plots by land ownership

Land Use



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. Madison County consists of Forest Service and state land in softwood forest types like Douglas-fir and Lodgepole 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 | 12 | 0 | 7 | 0 | 20 | 6 | 0 | 4 | 0 | 10 |
| Lodgepole Pine | 13 | 0 | 18 | 0 | 31 | 6 | 0 | 6 | 0 | 12 |
| Other Softwood | 3 | 0 | 0 | 0 | 3 | 4 | 0 | 0 | 0 | 4 |
| Hardwood | | | | | | | | | | |
| | 8 | 0 | 4 | 0 | 12 | 13 | 0 | 9 | 0 | 22 |
| Total | 36 | 0 | 30 | 0 | 65 | 30 | 0 | 19 | 0 | 49 |



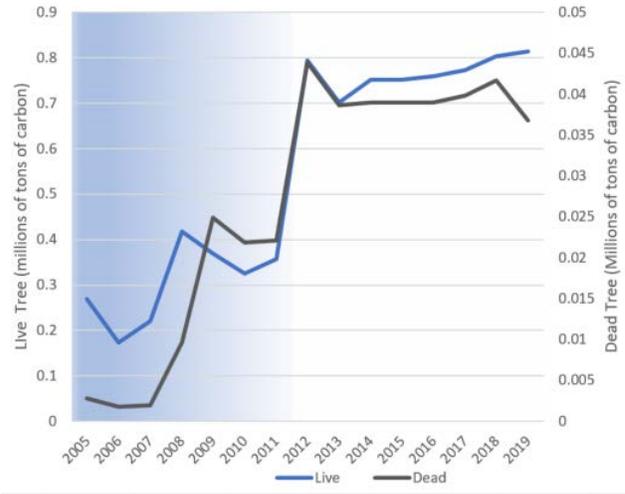
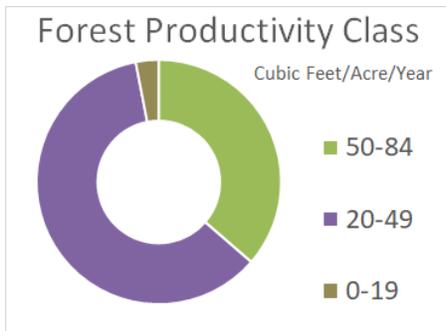
Madison County Forest Inventory Change



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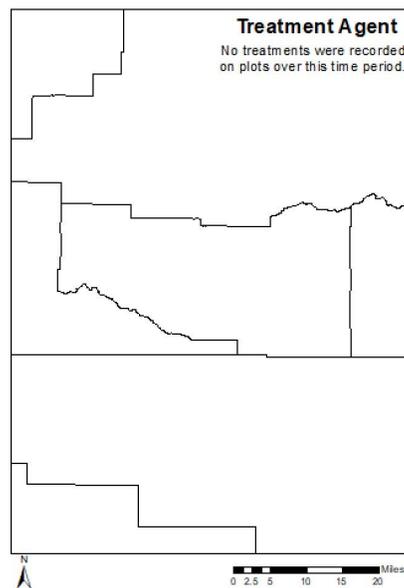
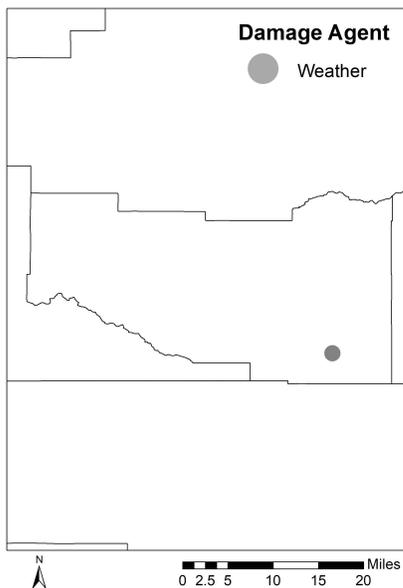
Forest Carbon

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. Madison County's forests have been removing carbon from the atmosphere at a rate of 0.01 MT C per year since 2013. Dead tree carbon pools have fluctuated over that time period ranging between less than 0.005 and 0.045 MT C in stocks.



Each year since 2004, the FIA has measured 1/10th of the plots in Madison 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. Weather was the only factor of disturbance observed in the FIA data for Madison County. Forest management related disturbance did not occur.

| | Forest Service | Other Federal | State/Local | Private/ Native American | Total |
|--------------------|----------------|---------------|-------------|-----------------------------|-------|
| ----- acres ----- | | | | | |
| Disturbance | | | | | |
| Disease | 0 | 0 | 0 | 0 | 0 |
| Fire | 0 | 0 | 0 | 0 | 0 |
| Insect | 0 | 0 | 0 | 0 | 0 |
| Other Disturbance | 2,970 | 0 | 0 | 0 | 2,970 |
| Total | 0 | 0 | 0 | 0 | 0 |
| 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 | 2,970 | 0 | 0 | 0 | 2,970 |