

Custer Gallatin National Forest: Jobs and Income Economic Contributions in 2016

In 2016, the Custer Gallatin National Forest supported:

- An estimated 5,440 jobs (annual average of part time, full time, temporary and seasonal), and
- Around \$232,424,000 of labor income in local communities.

How do National Forests and Grasslands Contribute to Economies?

National Forests and Grasslands provide multiple benefits to the American people and to local communities. They provide clean air and water, preserve cultural resources, and conserve lands for the enjoyment of present and future generations.

They also support local economies through recreation, timber, energy, minerals, and livestock grazing. In addition, counties with national forests or grasslands receive funds to support schools, road maintenance, and stewardship projects. The Forest Service (FS) also invests in such things as the construction and maintenance of infrastructure, environmental restoration, and forest health. In 2016, the sum of these activities on the Custer Gallatin National Forest supported approximately 5,440 local jobs and \$232,424,000 in local labor income.

Why Report Jobs and Income?

Residents and local government officials in surrounding communities have interest in how management of the National Forests and Grasslands affects local economies.

For More Information:

Economics for planning website ([Economics for Planning](#))

Analysis Methods: How a contribution analysis is constructed

- A software and data package called IMPLAN ([IMPLAN](#)) is used to characterize the structure of the local economy and how the different pieces of the economy interact (an “Input-Output” model).
- Forest Service data for Program outputs from the Custer Gallatin National Forest is added to the model: recreation (including fish and wildlife related), livestock grazing, forest products, energy, minerals, payments to states, and the Forest Service budget.
- The model then estimates the economic links between natural resource management on the Custer Gallatin National Forest and local jobs and income.

Resource Management Outputs from Forest Service Lands

National Forests and Grasslands are managed for multiple uses. Table 1 shows the Forest Service Resource Outputs by Program for the Custer Gallatin National Forest during 2016 (for data sources, see page 7) which were used to estimate the tie between management actions and economic activity in communities around the Custer Gallatin National Forest.

Table 1: Custer Gallatin National Forest Outputs by Program

Program	Activity	Units of Measure	Output in 2016
Wildlife and Fish Recreation	Local residents	Visits	205,651
Wildlife and Fish Recreation	Local residents	Expenditures (Thousands of \$2016)	\$5,854
Wildlife and Fish Recreation	Non-residents	Visits	72,256
Wildlife and Fish Recreation	Non-residents	Expenditures (Thousands of \$2016)	\$11,136
Downhill Ski Recreation	Local residents	Visits	246,847
Downhill Ski Recreation	Local residents	Expenditures (Thousands of \$2016)	\$7,292
Downhill Ski Recreation	Non-residents	Visits	21,465
Downhill Ski Recreation	Non-residents	Expenditures (Thousands of \$2016)	\$4,318
All Other Recreation Activities	Local residents	Visits	1,837,998
All Other Recreation Activities	Local residents	Expenditures (Thousands of \$2016)	\$27,681
All Other Recreation Activities	Non-residents	Visits	645,783
All Other Recreation Activities	Non-residents	Expenditures (Thousands of \$2016)	\$152,088
Grazing	Cattle, Horses, Sheep, Goats	AUMs	229,091
Timber	Sawtimber	CCF	4,675
Timber	Fuelwood	CCF	13,075
Timber	Pulp, Poles, All Other	CCF	86
Value of Energy Produced	Energy (coal, oil, gas, geothermal)	(Thousands of \$2016)	\$484
Value of Minerals Produced	Minerals	(Thousands of \$2016)	\$383,569
Payments to States/Counties	25% fund, Secure Rural Schools, Royalties.	(Thousands of \$2016)	\$1,853
Payments to States/Counties	Payments in Lieu of [property] Taxes	(Thousands of \$2016)	\$4,449

Economic Area of Influence

Economic areas of influence oftentimes differ by the resource under investigation, surrounding geography, and overall analysis objectives. The estimates in this report are generated for the area around the Custer Gallatin National Forest where direct Forest Service related expenditures occur. Other objectives, i.e. for forest planning, NEPA project analysis, etc. often focus on a different geography. The map below shows where Forest Service related direct expenditures occur, including: recreation and wildlife visitor spending, the location of grazing permit holders, the location of logging and restoration firms, mills processing Forest Service wood products, the counties receiving returns to states funds and payments in lieu of taxes, the location of Forest Service budget expenditures, and the salary spending by Forest Service employees.

The counties selected to form a National Forest or Grassland's economic area of influence are chosen based on where Forest Service management decisions have a direct effect on economic activity. This group of counties is also referred to as the "study area" or "impact area." The contributions of natural resource management on the National Forests and Grasslands ripple through the local economy, supporting jobs and income in many different sectors of the economy.

To avoid double counting, the results for the individual forests and grasslands in an area cannot be simply summed together to get together to get meaningful regional or state contribution results.

Note: The presentation of data by Program (recreation, timber, etc.) provides a convenient way of displaying the economic contributions of Forest Service activities. It does not mean that the economic contributions can be fully attributed to individual program areas, nor that economic contributions can be compared across programs. Joint cost and joint production complicate programmatic comparisons. For example, an increase in timber harvest would support an increase in local economic contributions from logging and the forest products industry. However, there are associated effects such as fire mitigation, wildlife habitat restoration, recreation access, and so on that share production costs and are not individually captured in the calculation of economic contributions.

The values presented in this report are the best estimates to date, however they are subject to change as new data become available. The estimates for 2016 were last revised in June, 2018.

Job Contributions by Program

Jobs supported by the National Forests and Grasslands are often in small, rural communities and are therefore an important contribution to economic and social sustainability. Employment is the estimate of average annual full-time, part-time, temporary, and seasonal jobs. In 2016, the Custer Gallatin National Forest supported an estimated 5,440 jobs in the local area. Direct job contributions come from economic activity associated with a Forest Service Program. Secondary job contributions are the ripples of economic activity stimulated by the direct economic activity. Total job contributions are the sum of direct and secondary contributions.

The estimates for Recreation (including wildlife related), Minerals & Energy, Forest Products, and Livestock Grazing estimates include the jobs supported by these programs in the private sector. Non-local recreation visitors bring new money into the economy. Local recreationists spend money that is already counted in the economic statistics for the area so they are tracked independently.

Forest Service Resource Management Investments capture the spending of the National Forest or Grassland's budget on such things as infrastructure construction and maintenance, ecosystem restoration, fuels treatments, salaries, etc.

The Payments to States/Counties estimates the jobs supported by local government investment in such things as roads and schools via funding from programs like the 25% Fund, Payments in Lieu of Taxes and minerals royalties.

Note: What is a “job”? One “job” does not always equal one person. The job estimates reported here represent the average annual SUM of portions of jobs - part time, full time, seasonal and temporary – that are supported by management of the Custer Gallatin National Forest.

Table 2: Jobs supported by the Custer Gallatin National Forest

Program (2016)	Direct Jobs (Avg Annual)	Total Jobs (Avg Annual)
Recreation by Local Visitors	350	490
Recreation by Non-Local Visitors	1,750	2,430
Minerals and Energy	370	1,250
Forest Products	50	190
Livestock Grazing	130	400
FS Resource Mgt Investments	380	520
Payments to States/Counties	110	150

Labor Income Contributions by Major Program

Labor income is the value of wages, salaries and benefits for wage earners plus income to local business owners. In 2016 Custer Gallatin National Forest contributed an estimated \$232,424,000 in labor income to the local area, with 87% going to wages and benefits for local wage earners and 13% going to local business proprietors and partnerships.

Labor Income is directly associated with local jobs and business owners. Other measures of income such as Household Income and Total Income include things like investments, rents, and transfer payments that are not tied to Forest Service management decisions so they are not reported here.

As direct and secondary contributions ripple through the economy, Labor Income is supported in a wide variety of sectors not directly affected by resource management decisions.

Table 3: Direct and Total Labor Income supported by the Custer Gallatin National Forest

Program	Direct Labor Income (Annual, 1,000 \$2016)	Total Labor Income (Annual, 1,000 \$2016)
Recreation by Local Visitors	\$9,011	\$14,252
Recreation by Non-Local Visitors	\$45,204	\$71,380
Minerals and Energy	\$48,970	\$93,100
Forest Products	\$2,536	\$8,860
Livestock Grazing	\$3,338	\$13,255
FS Resource Mgt Investments	18,739	\$24,160
Payments to States/Counties	\$5,640	\$7,416

Job and Labor Income Contributions by Major Economic Sector

Jobs and labor income supported by the National Forests and Grasslands are spread across many local economic sectors. Note that sectors that have the highest employment may not generate the highest labor income and vice versa. Jobs and income are important, but there is a range of other benefits from the national forests and grasslands.

Table 4: Total Jobs and Labor Income supported by the Custer Gallatin National Forest

Major Economic Sector	FS Supported Jobs (2016) (Avg. annual)	FS Supported Labor Income (1,000 \$2016)	Area of Influence Jobs (2016) (Avg. annual)	Area of Influence Labor Income (1,000 \$2016)
Total	5,440	\$232,424	687,931	\$30,838,555
FS Percent of Area of Influence	0.8%	0.8%		
Accommodation & Food Servs	1,650	\$40,499	62,632	\$1,403,990
Admin, Waste Mgt & Rem Servs	160	\$5,322	26,735	\$902,154
Agriculture	320	\$8,673	35,377	\$967,263
Arts, Entertainment, and Rec	310	\$4,218	22,066	\$394,554
Construction	70	\$3,629	50,892	\$2,580,722
Private Educational Services	100	\$2,031	13,165	\$340,393
Finance & Insurance	130	\$6,689	26,228	\$1,202,099
Health Care & Social Assistance	220	\$12,589	66,611	\$3,716,273
Information	50	\$2,424	8,351	\$432,882
Local, State, & National Gov't	400	\$21,858	92,955	\$5,891,241
Manufacturing	60	\$4,226	22,893	\$1,244,647
Mining	410	\$53,498	17,964	\$1,782,458
Mgt of Companies	20	\$1,357	2,664	\$190,584
Other Services	180	\$7,178	41,711	\$1,511,034
Prof, Scientific, & Tech Services	230	\$10,657	43,898	\$2,366,419
Real Estate & Rental & Leasing	180	\$3,678	38,120	\$754,000
Retail Trade	530	\$16,133	19,533	\$1,225,484
Transportation & Warehousing	160	\$9,300	72,013	\$2,228,431
Utilities	40	\$5,138	3,074	\$365,878
Wholesale Trade	210	\$13,326	21,050	\$1,338,050

Additional Information

Contact Us:

- For general inquiries, email the Washington Office EMC social scientists and economists: ([Washington Office EMC social scientists and economists](#)).
- For local inquiries, please see the list of ([regional social science and economics contacts](#)).

Useful Links:

- Additional information on economic contributions and benefits to people is available on the ([Economics for planning website](#)).
 - General information about the use of economics in the Forest Service.
 - At a Glance reports and Story Maps for all national forests and grasslands covering Jobs and Income and Benefits to People.
 - Frequently Asked Questions and a Glossary are also available.
- The National Visitor Use Monitoring Program has detailed information on recreation visitation ([Visitor Use Monitoring Program](#)).
- The “Headwaters Economics” website ([Headwaters Economics](#)) maintains several useful reports including ([National Forest Socioeconomic Indicators](#)) - area profiles that can be consulted for a deeper dive into the social and economic characteristics of the area. There are also reports which include important information for consideration of outreach and effects to Environmental Justice populations.

Data Sources:

- Recreation data are from the ([National Visitor Use Monitoring Survey](#)), Round 4.
- Grazing Animal Unit Months (AUM) data are found in the Rangeland Management Reports ([Grazing Animal Unit Months](#))
- Timber Harvest data are found in the Forest Service Forest Management Cut and Sold Reports ([Timber Harvest data](#))
- Minerals and Energy Revenues are reported by the ([Office of Natural Resources Revenue](#))
- Federal Revenues which are returned to the States and Counties are found on the ([Payments to States website](#)) and ([Payments in Lieu of Taxes website](#))