Jobs and Income

Economic Contributions in 2016
At A Glance

Uinta-Wasatch-Cache National Forest

In 2016, the Uinta-Wasatch-Cache National Forest supported:

- An estimated **6,610 jobs** (annual average of part time, full time, temporary and seasonal), and
- Around **$216,815,000** of **labor income** in local communities.

For More Information:

Economics for Planning website (https://www.fs.fed.us/emc/economics/index.shtml)

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.

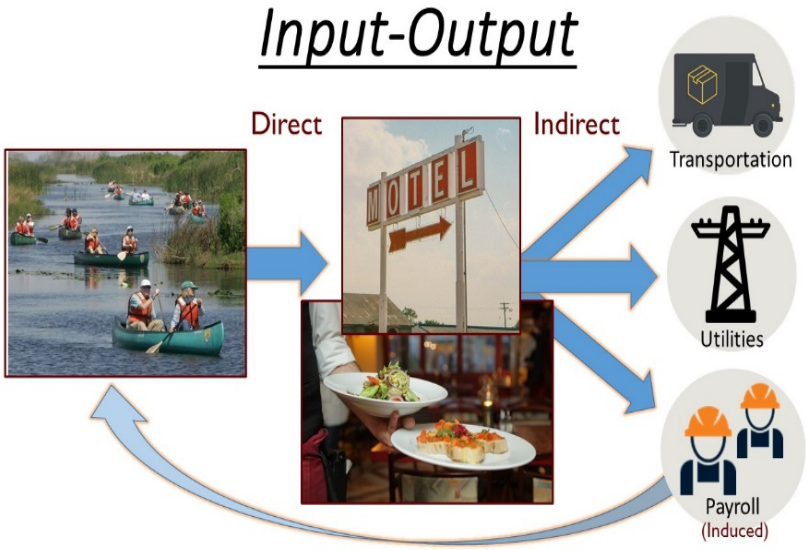
They also support local economies through recreation, timber, energy, minerals, and livestock grazing. In addition, counties with national forests or grasslands receive funds to support schools, road maintenance, and stewardship projects. The Forest Service also invests in such things as the construction and maintenance of infrastructure, environmental restoration, and forest health. In 2016, the sum of these activities on the Uinta-Wasatch-Cache National Forest supported approximately 6,610 local jobs and $216,815,000 in local labor income.

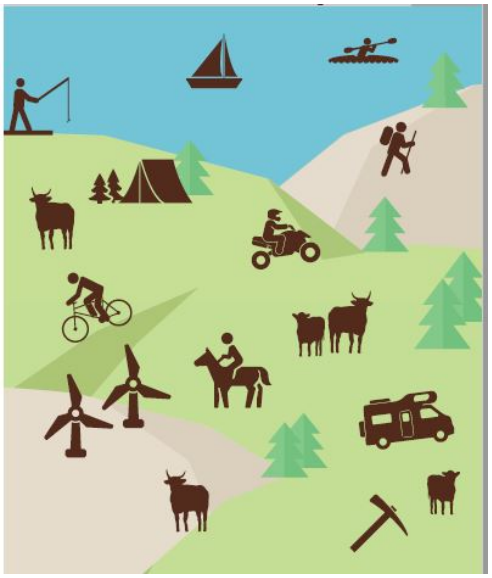
Why Report Jobs and Income?

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

Analysis Methods: How a contribution analysis is constructed

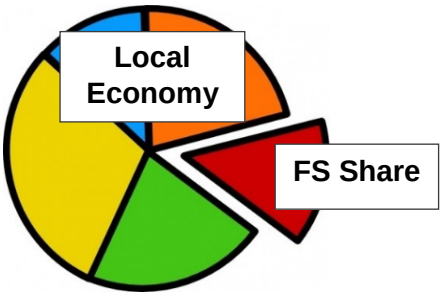
1 A software and data package called IMPLAN (www.implan.com) is used to characterize the structure of the local economy and how the different pieces of the economy interact (an "Input-Output" model).





2 Forest Service data for Program outputs from the Uinta-Wasatch-Cache 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.

3 The model then estimates the economic links between natural resource management on the Uinta-Wasatch-Cache National Forest and local jobs and income.



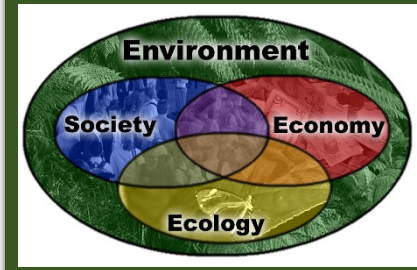
Resource Management Outputs from Forest Service Lands

National Forests and Grasslands are managed for multiple uses. Table 1 shows the Program outputs which were used to estimate the tie between management actions and economic activity in communities around the Uinta-Wasatch-Cache National Forest.

***Table 1*: Forest Service Resource Outputs by Program for the Uinta-Wasatch-Cache National Forest during 2016 (for data sources, see page 8).**

Program	Activity	Units of Measure	Output in 2016
Recreation	Wildlife and Fish - Locals	Visits	511,935
		Expenditures (Thousands of $2016)	$14,156
	Non-residents	Visits	252,147
		Expenditures (Thousands of $2016)	$32,130
	Downhill ski/snowboarding - Locals	Visits	1,008,552
		Expenditures (Thousands of $2016)	$28,240
	Non-residents	Visits	592,324
		Expenditures (Thousands of $2016)	$123,375
	All Other Rec Activities - Locals	Visits	5,363,638
		Expenditures (Thousands of $2016)	$88,097
	Non-residents	Visits	731,405
		Expenditures (Thousands of $2016)	$43,536
Grazing	Cattle, Horses, Sheep, Goats	AUMs	176,309
Timber	Sawtimber	CCF	15,733
	Fuelwood	CCF	8,989
	Pulp, Poles, All Other	CCF	42
Value of Minerals & Energy Produced	Energy (coal, oil, gas, geothermal)	(Thousands of $2016)	$6,117
	Minerals	(Thousands of $2016)	$0
Payments to States/Counties	25% fund, Secure Rural Schools, Royalties.	(Thousands of $2016)	$916
	Payments in Lieu of [property] Taxes	(Thousands of $2016)	$5,671

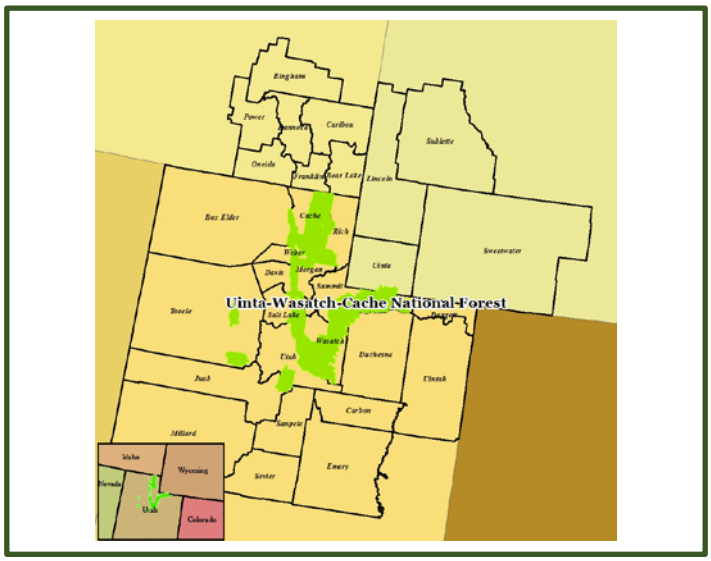
The counties selected to form a National Forest or Grassland's economic area of influence are chosen based on where FS management decisions have a direct effect on economic activity. This group of counties is also referred to as the "study area" or "impact area." The contributions of natural resource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



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 September, 2018.

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 Uinta-Wasatch-Cache 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 FS 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.



Note: To avoid double counting, the results for individual forests and grasslands in an area cannot simply be summed together to get meaningful regional or state contribution results because of overlapping economic areas of influence.

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.

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 Uinta-Wasatch-Cache National Forest supported an estimated 6,610 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.

Table 2: **Direct and Total jobs supported by the Uinta-Wasatch-Cache National Forest in 2016.**

Program	Direct Jobs (Avg Annual)	Total Jobs (Avg Annual)
Recreation by Local Visitors	1,230	1,820
Recreation by Non-Local Visitors	2,170	3,170
Minerals and Energy	10	20
Forest Products	120	270
Livestock Grazing	220	430
FS Resource Mgt Investments	480	700
Payments to States/Counties	130	200

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 Uinta-Wasatch-Cache National Forest.

Keeping the Focus Local

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.

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 Uinta-Wasatch-Cache National Forest contributed an estimated $216,815,000 in labor income to the local area, with 89% going to wages and benefits for local wage earners and 11% going to local business proprietors and partnerships.

***Table 3*: Direct and Total Labor Income supported by the Uinta-Wasatch-Cache National Forest in 2016.**

Program	Direct Labor Income (Annual, 1,000 $2016)	Total Labor Income (Annual, 1,000 $2016)
Recreation by Local Visitors	$31,589	$57,012
Recreation by Non-Local Visitors	$53,026	$95,742
Minerals and Energy	$598	$960
Forest Products	$4,569	$11,132
Livestock Grazing	$1,808	$8,575
FS Resource Mgt Investments	$24,636	$33,930
Payments to States/Counties	$6,681	$9,464

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 Uinta-Wasatch-Cache National Forest in 2016 with local economic area of influence totals for context.**

Major Economic Sector	FS Supported Jobs (Avg. annual)	FS Supported Labor Income (1,000 $2016)	Area of Influence Jobs (Avg. annual)	Area of Influence Labor Income (1,000 $2016)
Total	6,610	$216,815	1,915,069	$94,360,251
FS Percent of Area of Influence	0.3%	0.2%		
Accommodation & Food Servs	2,190	$46,330	124,270	$2,507,162
Admin, Waste Mgt & Rem Servs	200	$6,953	110,580	$4,065,126
Agriculture	460	$8,625	31,367	$831,032
Arts, Entertainment, and Rec	600	$11,210	39,395	$783,696
Construction	50	$2,550	120,549	$6,702,127
Private Educational Services	200	$5,282	54,991	$1,723,225
Finance & Insurance	150	$7,941	120,313	$5,856,904
Health Care & Social Assistance	220	$11,021	159,603	$7,922,893
Information	80	$4,696	42,791	$3,226,820
Local, State, & National Gov't	500	$27,953	243,679	$15,620,712
Manufacturing	110	$6,068	135,433	$9,393,621
Mining	40	$2,789	19,300	$1,535,788
Mgt of Companies	40	$3,495	24,364	$1,965,234
Other Services	170	$6,987	108,978	$4,300,266
Prof, Scientific, & Tech Services	250	$12,426	155,307	$9,642,305
Real Estate & Rental & Leasing	230	$5,445	103,600	$2,372,951
Retail Trade	790	$24,511	62,061	$3,933,610
Transportation & Warehousing	150	$9,408	192,320	$6,767,595
Utilities	10	$1,412	4,915	$690,236
Wholesale Trade	160	$11,711	61,254	$4,518,948

Additional Information

Contact Us:

For general inquiries, contact the Washington Office EMC social scientists and economists: (socioeconomics@fs.fed.us).

For local inquiries, please see the list of regional social science and economics contacts (https://www.fs.fed.us/emc/economics/contactus.shtml).

Useful Links:

Additional information on economic contributions and benefits to people is available on the Economics for Planning website (http://www.fs.fed.us/emc/economics/index.shtml).

- 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 (https://www.fs.fed.us/recreation/programs/nvum/).

The "Headwaters Economics" website (http://www.headwaterseconomics.org/) maintains several useful reports including National Forest Socioeconomic Indicators (www.headwaterseconomics.org/tools/forest-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 (https://www.fs.fed.us/recreation/programs/nvum/), Round 4.
- Grazing Animal Unit Months (AUM) data are found in the Rangeland Management Reports (https://www.fs.fed.us/rangeland-management/reports/index.shtml)
- Timber Harvest data are found in the Forest Service Forest Management Cut and Sold Reports (https://www.fs.fed.us/forestmanagement/products/cut-sold/index.shtml)
- Minerals and Energy Revenues are reported by the Office of Natural Resources Revenue (https://www.onrr.gov/)
- Federal Revenues which are returned to the States and Counties are found on the Payments to States website (https://www.fs.usda.gov/pts) and Payments in Lieu of Taxes website (https://www.doi.gov/pilt/)