



United States Department of Agriculture

[Home](#) [Publications](#) [Locations](#) [Blog](#) [About Us](#)

Forest Service

Research
and Development

Monthly News and Highlights from
the World Leader in Forestry Research

#SoundScience

[Twitter](#) [Instagram](#) [Facebook](#) [YouTube](#)

The banner features a green and orange color scheme. On the left, the U.S. Forest Service logo is displayed above the text 'Forest Service'. Below this, the words 'Research and Development' are written in a large, white, sans-serif font. A white-bordered box contains the text 'Monthly News and Highlights from the World Leader in Forestry Research'. On the right side, there is a graphic of a globe with two white leaves sprouting from it. Below the globe, the hashtag '#SoundScience' is written. At the bottom right, there are icons for Twitter, Instagram, Facebook, and YouTube.

[CLICK HERE TO SUBSCRIBE](#)

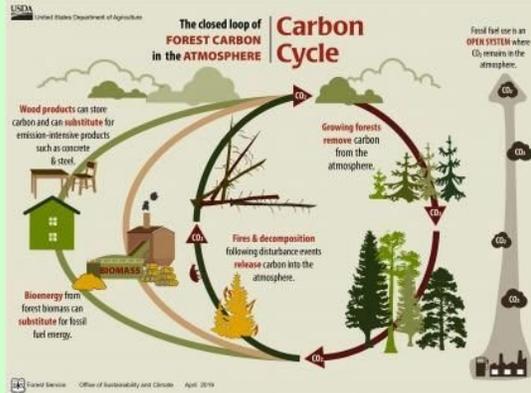
U.S. Forest Service R&D Newsletter: January 2020
News from the Washington Office and Research Stations



FEATURED NEWS

Better Adhesives Mean Stronger, Cheaper Wood Products

Although engineered wood — such as plywood or particle board — is great for a range of building and manufacturing uses, it has its limitations, especially in outdoor applications. One of the biggest limitations is not the wood, but the adhesive used to glue the wood veneers or particles together. These adhesives are one of the most significant costs in manufactured wood products. To accelerate the development of new and improved wood adhesives for engineered wood products, Forest Service researchers and their partners are [working](#) to understand the optimal adhesive penetration for specific products and applications.



SUSTAINABLE FOREST MANAGEMENT

Assessing Forest Carbon Storage

A new Forest Service [report](#) assesses how [carbon](#) stocks at regional scales and in individual national forests are affected by human or natural disturbances. Generally, carbon stocks are increasing in forests of the eastern U.S. In contrast, carbon stocks in forests of the western U.S. may be either increasing or decreasing.



SUSTAINABLE FOREST MANAGEMENT

Story Map Helps Managers Preserve Nuts and Berries of the Pacific Northwest

A [story map](#) that showcases information on fruit producing shrubs will help managers sustain important plant species such as huckleberries and beaked hazelnut for traditional tribal diets and foraging wildlife and pollinators.



PARTNERSHIPS

Baltimore Wood Project: Reclaiming Wood, Lives, and Communities

The Baltimore Wood [Project](#) teams Forest Service researchers with other groups to rethink the value of what many consider to be urban wood waste. What was once waste is now creating jobs, providing green materials, and becoming beautifully reclaimed products in Baltimore, Md.



FISH AND WILDLIFE HABITAT

Fighting for Mussels

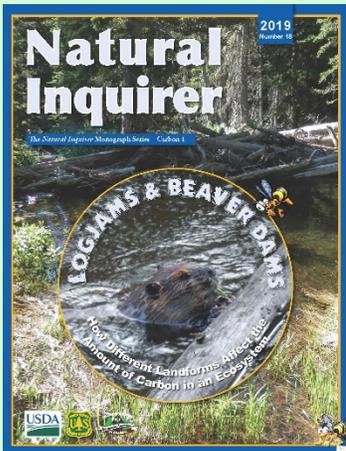
From Good River: Stories of the Ohio About 130 mussel species have been recorded in the Ohio River system; the most of any other river system on Earth except the Mississippi, because it includes the Ohio. A Forest Service researcher, along with other experts, is working to find out why mussels are disappearing in the Ohio River watershed.



FISH AND WILDLIFE HABITAT

Noise Pollution and Birds

Human-caused noise pollution is a globally invasive phenomenon that impacts natural systems, but most research has occurred at local scales with few species. A research team [investigated](#) continental-scale breeding season associations with such noise for 322 bird species to test whether small-scale predictions related to breeding habitat, migratory behavior, body mass and vocal traits are consistent at broad spatial extents for an extensive group of species.



FISH AND WILDLIFE HABITAT

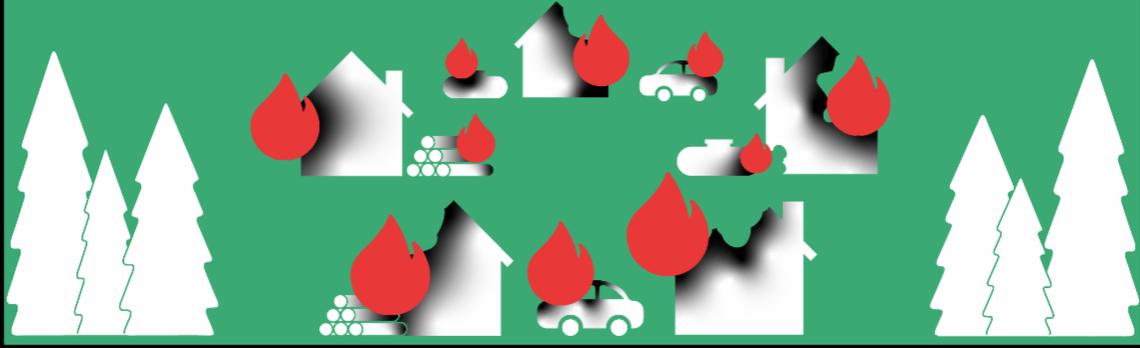
Logjams and Beaver Dams

In the latest [issue](#) of the *Natural Inquirer*, a science journal for students produced by the Forest Service and partners, the carbon cycle and carbon storage is explored. Carbon is naturally stored in the environment; in fact, carbon is in every living thing. Some habitats are better at storing carbon and that impacts the entire carbon cycle. In "Logjams and Beaver Dams," scientists explore how carbon is stored in mountainous areas.

FOREST SERVICE RESEARCH: BY-THE-NUMBERS

50 percent of buildings lost to fire in California in the past 30 years were within an area of the **Wildland-urban Interface** called “interface”—characterized as being near large patches of wildland and having sparse or no wildland vegetation.

This underscores the importance of mitigating human-related fuels such as residential landscaping, wood piles, propane tanks, and cars.



[Click here for more about Forest Service research on Wildland-urban interface](#)

DID YOU KNOW?



Have you ever [wondered](#) why your favorite national park is surrounded by a national forest? Well, it didn't happen by accident or guesswork. The fact is, it was all started more than 100 years ago by two men often referred to as the founding fathers of America's public lands. John Muir promoted preservation and Gifford Pinchot advocated for conservation. Their conservation philosophies are not really at odds. Together, they played a huge role in protecting our natural open spaces.

Messages from the Forest Service R&D Washington Office



[Monica Lear](#) is the new station director for the Forest Service's Rocky Mountain Research Station.



The Interagency Edison System (iEdison) is an online platform where organizations that have received federal funding report their inventions. The White House plans to modernize iEdison with your [help](#).

[Click Here to Visit the Archives of the R&D Monthly Newsletter](#)



Forest Service

STAY CONNECTED



USDA Forest Service | 201 14th Street SW, Washington, DC 20250

[Unsubscribe {recipient's email}](#)

[Update Profile](#) | [About Constant Contact](#)

Sent by research@fs.fed.us