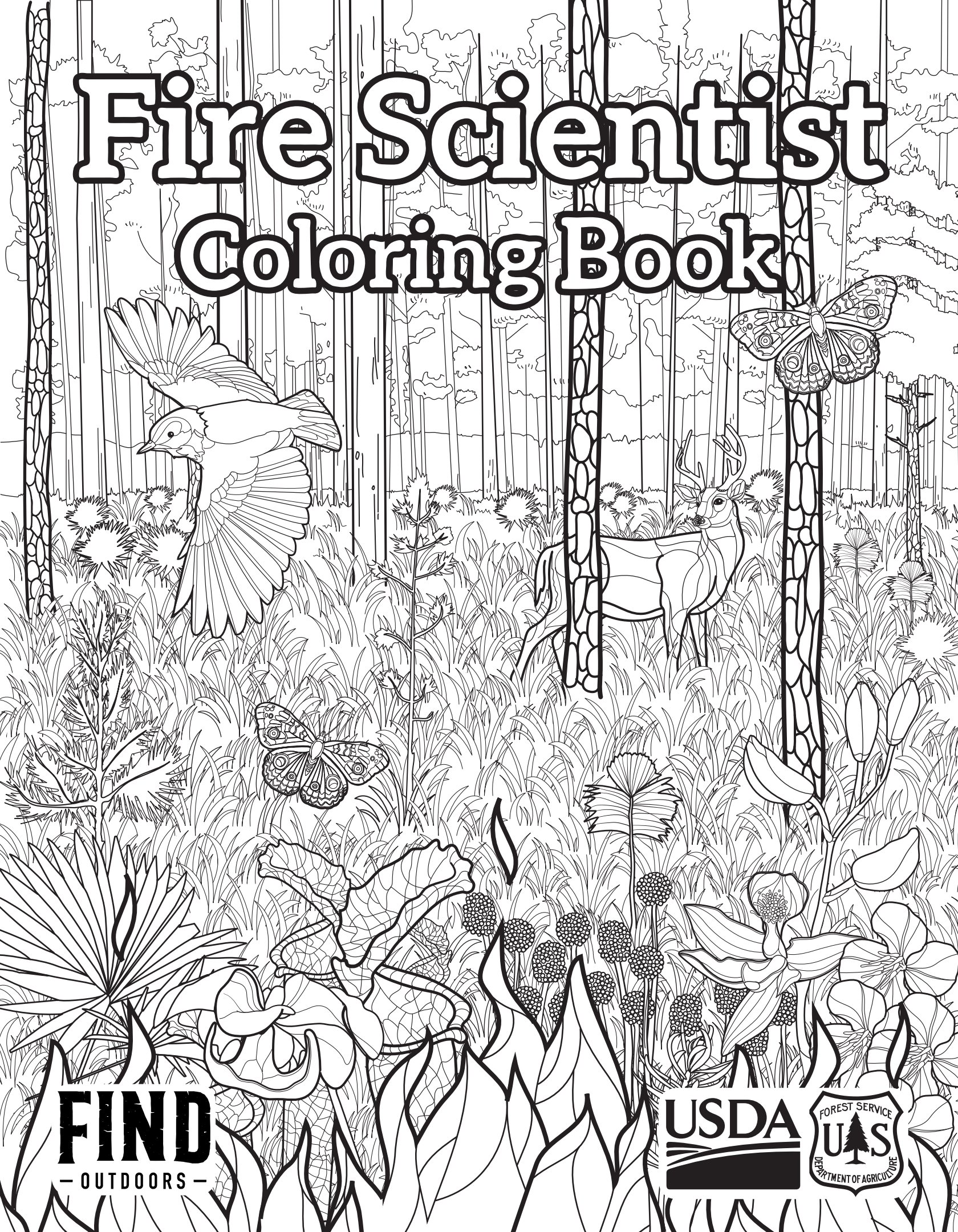
Fire Scientist Coloring Book



FIND
— OUTDOORS —

USDA
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Fire Scientist Coloring Book

Wildland fires are in the news every fire season. Wildland fires come in many types. The biggest news occurs when a naturally occurring wildland fire gets out of control and becomes a wildfire, or a wildfire is started by human action. Forest managers and fire scientists use a third type of wildland fire as a tool to reduce the effects and impacts of other wildland fires and wildfires. In this coloring book, we explore how foresters and fire scientists literally fight fire with fire.

We all know that the same action or condition may be considered good in one situation and bad in another. For example, yelling loudly at someone would usually be considered bad, unless you were warning them of danger. Days of rain might be considered undesirable unless the area had been suffering from a drought and badly needed rain. Wildland fires, usually considered undesirable, are desirable in some situations.

Wildland fires are needed by many natural areas to remain healthy. For example, wildland fires are needed by some trees to open cones so that the trees can reproduce. Wildland fires clear the forest of too much fuel near the ground, and therefore help to reduce the risk of large wildfires. Wildfires are uncontrolled wildland forest and prairie fires. Wildfires may cause damage to homes and other buildings.

Foresters use controlled wildland fires to keep forests healthy in these areas. When foresters use controlled fires, they set fires on purpose when conditions are safe. They carefully control these fires to make sure the fires stay small. Controlled fires are easily put out and do not damage homes or other buildings.

Controlled wildland fires are known as prescribed fires. These fires are also known as good fires. Good fires provide many benefits to natural areas and to people. In this coloring book, you will color pictures that show good fires' many benefits. Fire scientists study how good fires provide environmental and social benefits and how these fires reduce the occurrence and impact of uncontrolled wildland fires and wildfires.

Produced by

FIND Outdoors

Forest Service, an agency of the U.S. Department of Agriculture

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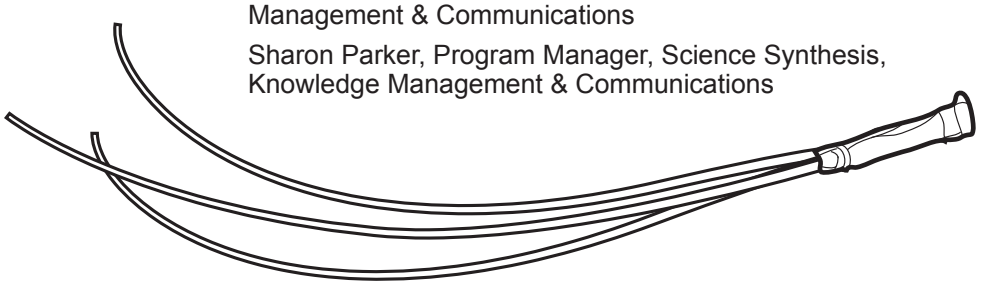
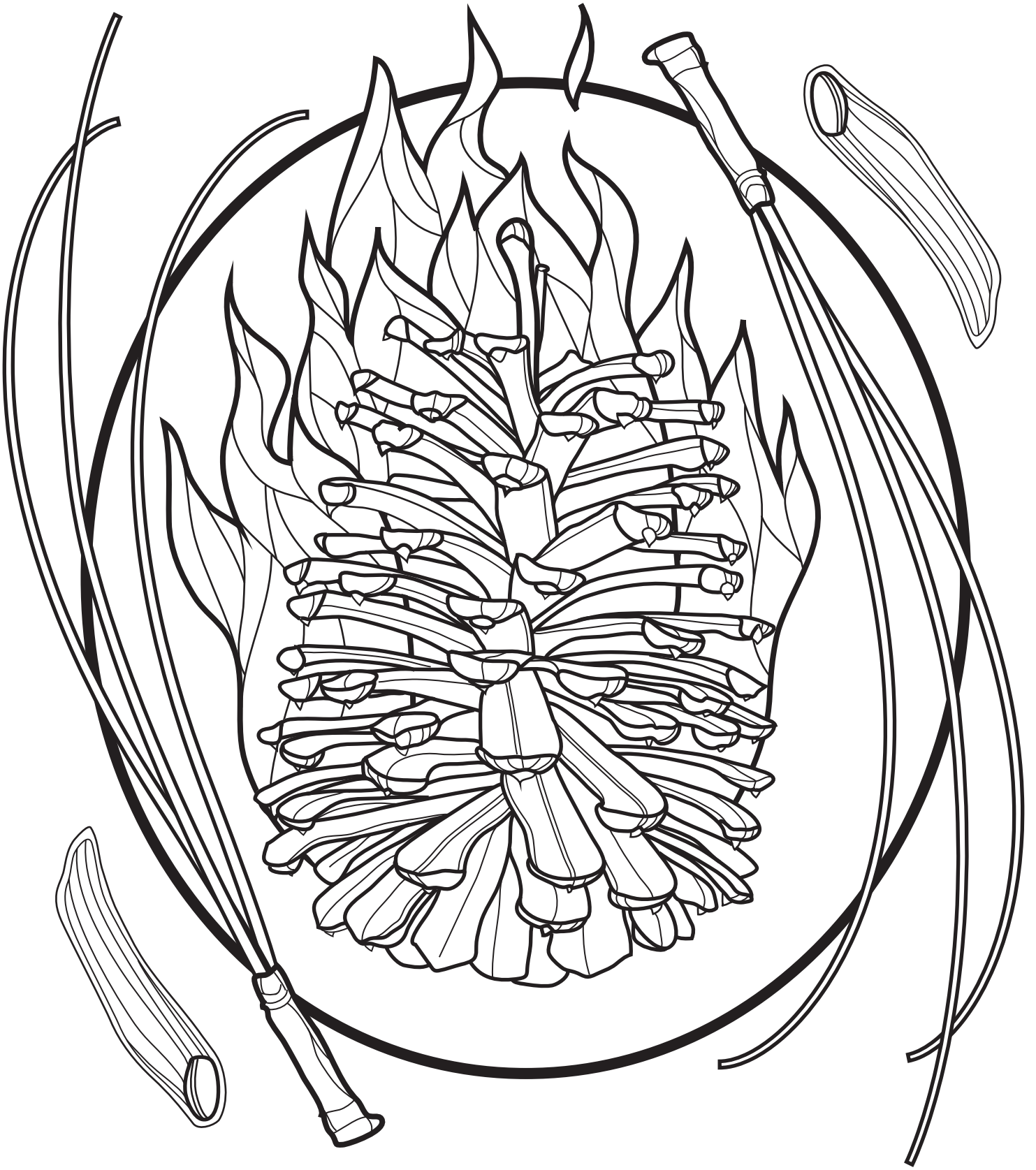
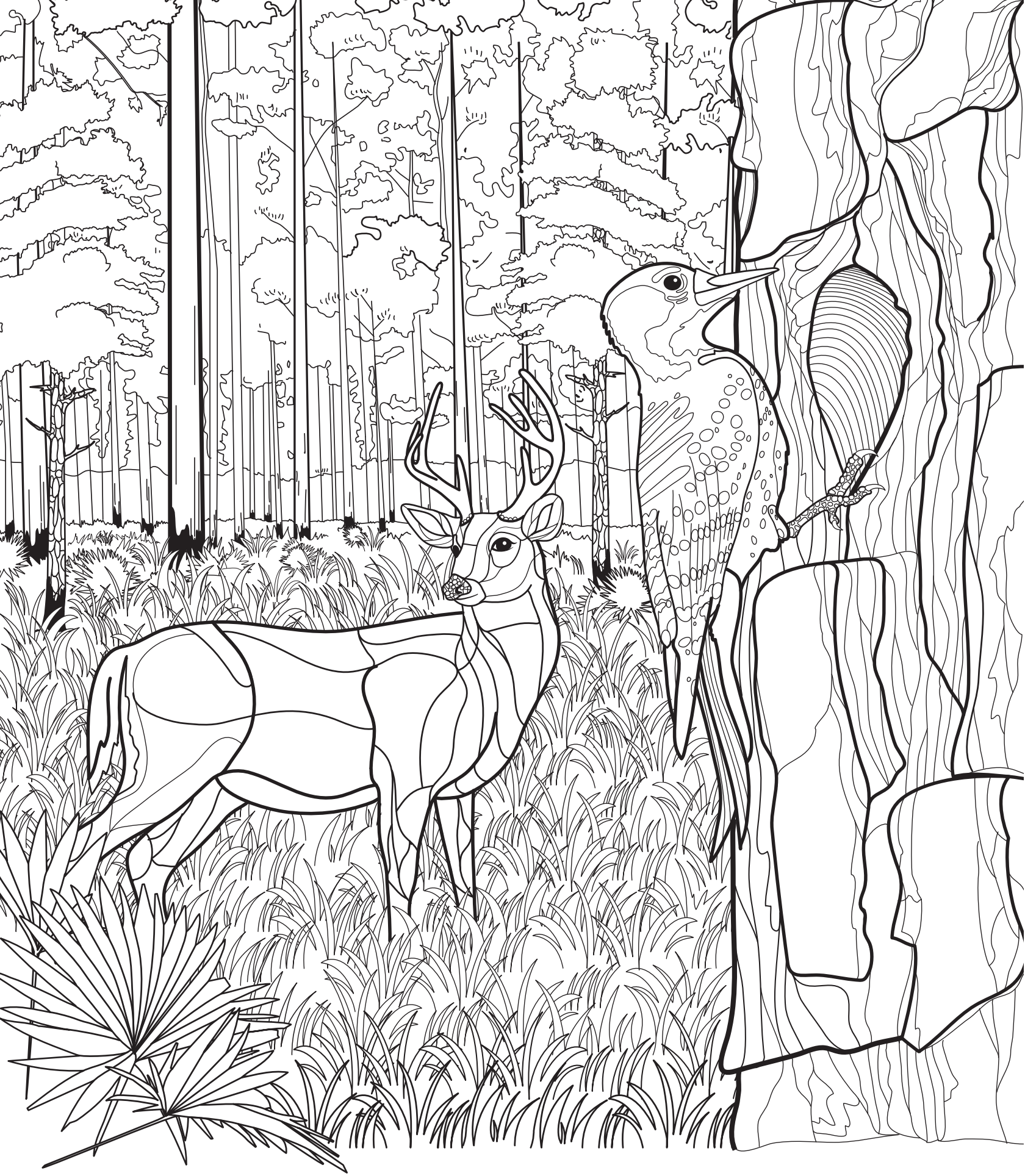


Some botanists study the ways that good fires help wildflowers to grow in the forest.



Some dendrologists study how fire helps longleaf pine forests to stay healthy.

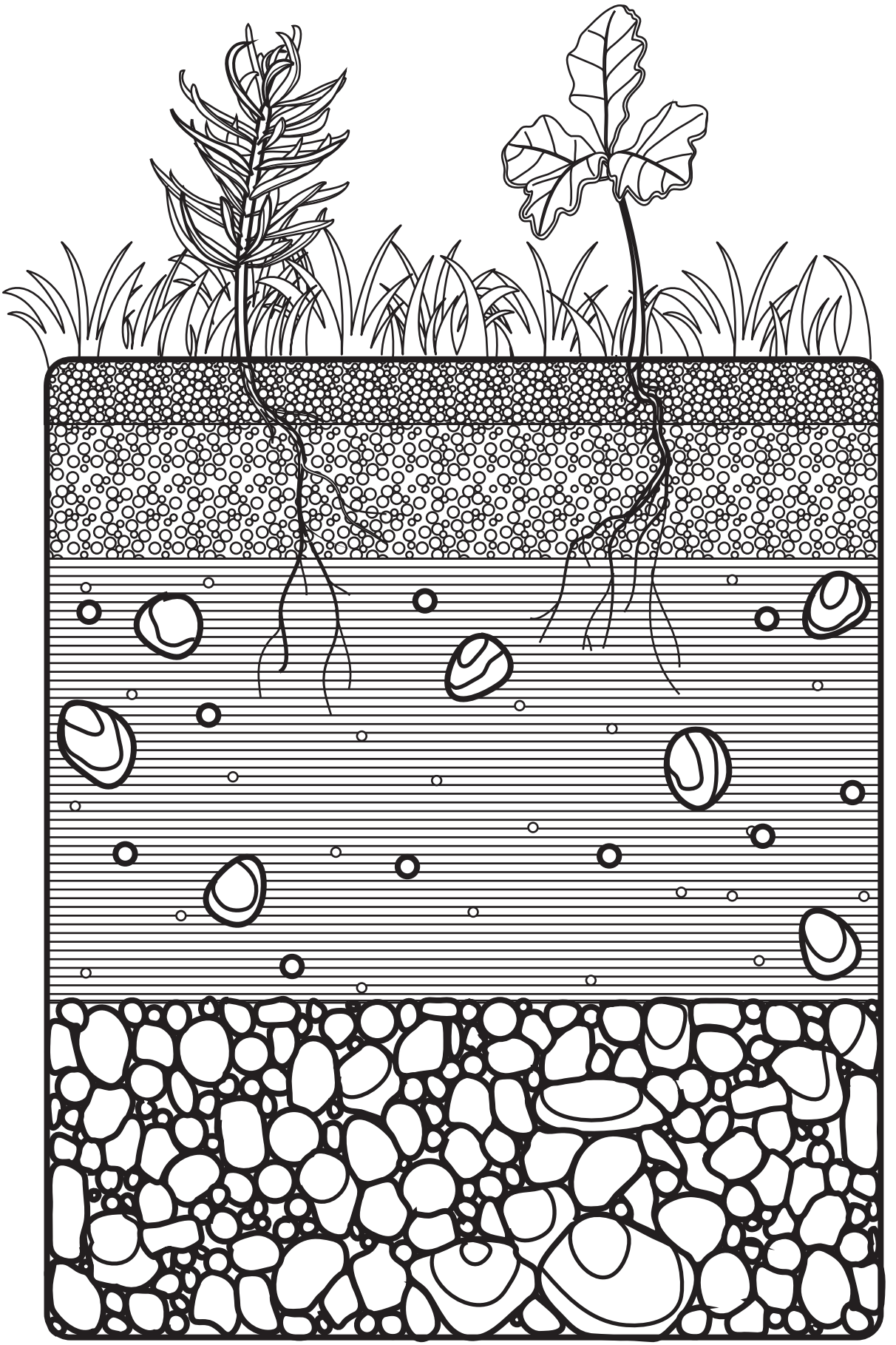
Some fire scientists study how good fires help to reduce the chance of big wildland fires from burning out of control.



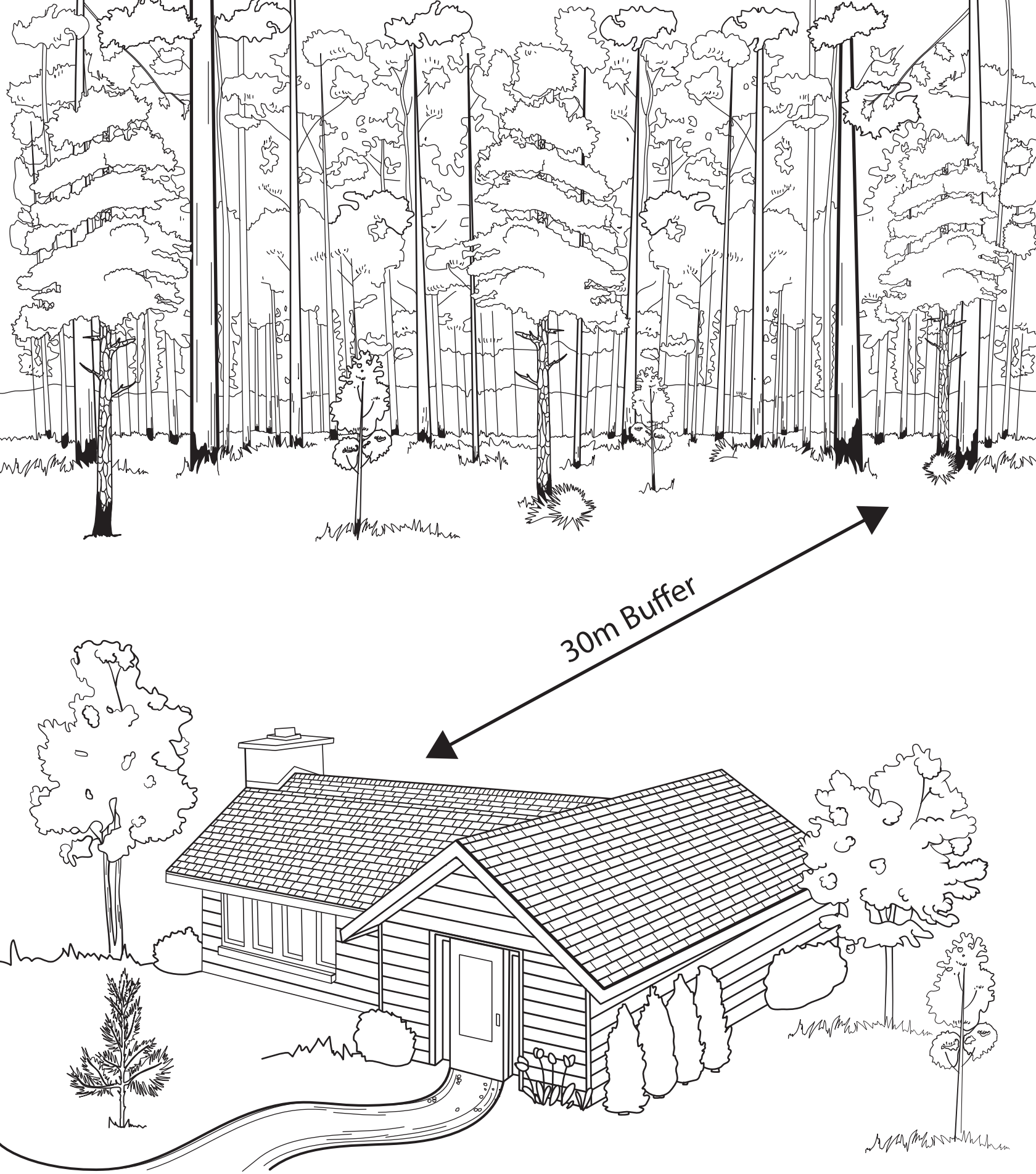
Some wildlife biologists study the ways that good fires provide healthier homes for deer and other forest animals.

Some plant physiologists study how good fires help foresters to plant and grow healthy new forests.

Some social scientists study how outdoor recreation is improved by good fires.

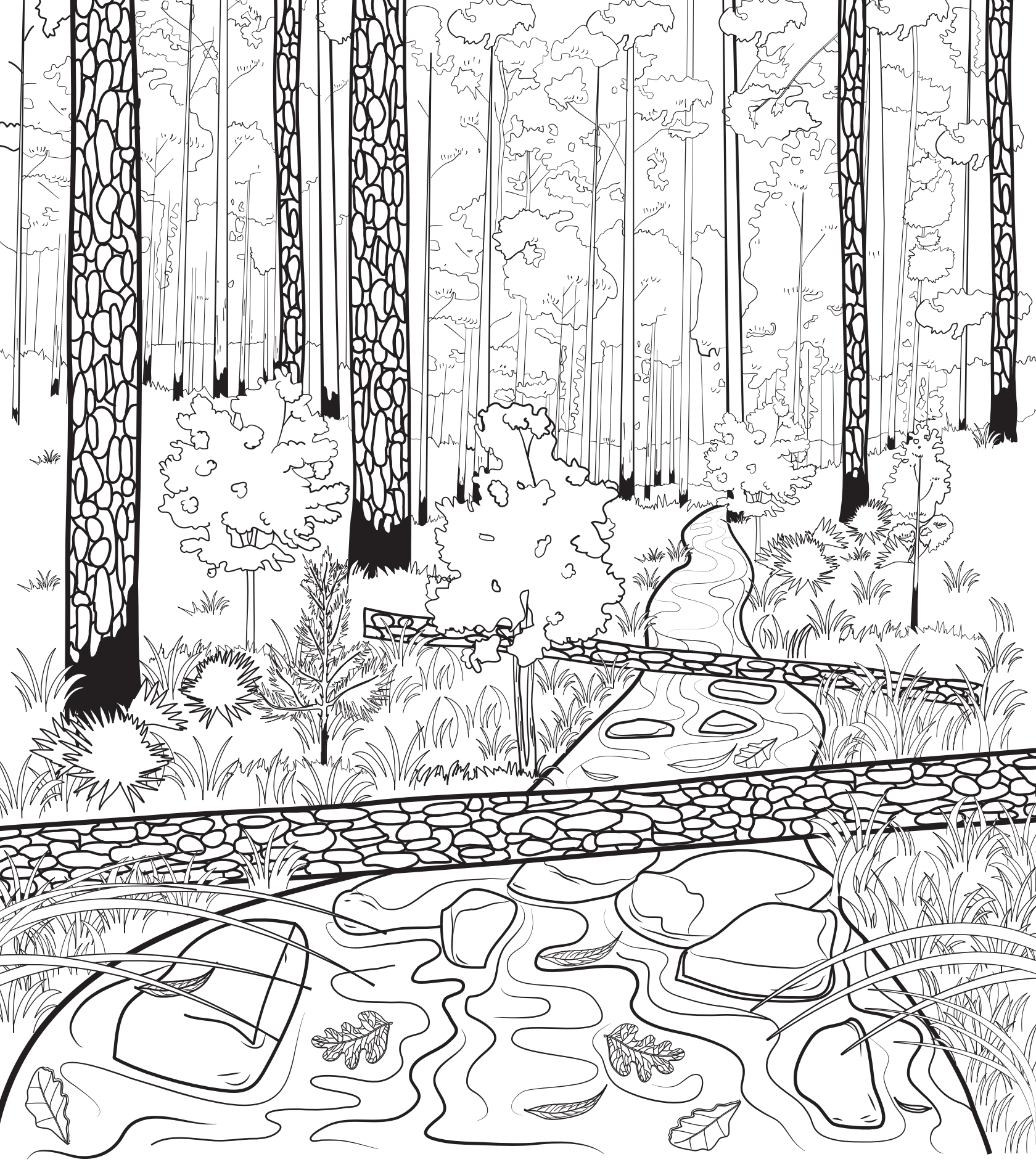


Some soil scientists study the ways that good fires improve forest soils.



Some ecologists study how good fires can protect homes and other buildings from wildfires.

Some forest pathologists study how good fires help to reduce forest tree diseases.



Some hydrologists study how good fires help improve the quality of water in forest streams.

Some grassland ecologists study the ways that good fires improve grasslands for grazing animals.

Fire-related science helps to keep
forests and grasslands healthy.

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Who is FIND Outdoors?

Formerly the Cradle of Forestry in America Interpretive Association, FIND Outdoors is a re-imagined 501(c)3 nonprofit organization based in Pisgah Forest, North Carolina. We are the Southeast's leader in providing access to public lands, environmental education, recreation, and front country camping experiences. We maintain and operate 21 recreation, education, and camping facilities across western NC, northern GA, and beyond — serving approximately 800,000 visitors each year with over 150 recreational and environmental education programs, special events and tours.

Our story is rooted in education about the **forest**.

Our passion is to help people become **inspired**.

Our goal is to help people connect with **nature**.

Our drive is to help people learn through **discovery**.

We help people...FIND Outdoors

We are…FIND Outdoors

For more information:
http://www.goFINDoutdoors.org

FOREST SERVICE
US
DEPARTMENT OF AGRICULTURE

What is the Forest Service?

The Forest Service is part of the United States Department of Agriculture (USDA). The Forest Service is made up of thousands of people who care for the Nation's forest land. The Forest Service manages 154 national forests and 20 national grasslands. These are large areas of trees, streams, and grasslands. National forests are similar in some ways to national parks. Both are public lands, meaning they are owned by the public and managed for the public's use and benefit. Both national forests and national parks provide clean water, homes for the animals that live in the wild, and places for people to do fun things in the outdoors. National forests also provide resources for people to use, such as trees for lumber, minerals, and plants used for medicines. Some people in the Forest Service are scientists whose work is presented in the journal. Forest Service scientists work to solve problems and provide new information about natural resources so that we can make sure our natural environment is healthy, now and into the future.

For more information:
http://www.fs.fed.us

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Web Resources

Natural Inquirer:
http://www.naturalinquirer.org

U.S. Forest Service:
http://www.fs.fed.us

Federal recreation and camping information:
http://www.recreation.gov

U. S. Forest Service Fire Science:
https://www.fs.fed.us/science-technology/fire/fire-research

National Interagency Prescribed Fire Training Center:
https://www.fws.gov/fire/pftc/

National Interagency Fire Center:
https://www.nifc.gov/policies/policies_main.html

Smokey Bear:
https://www.smokeybear.com/en