

The Forester's Job

orestry experts, called foresters, manage the forests for many uses. A forest is a complex natural community that supports many types of plant and animal life. Foresters balance the management of the forest to produce products that people use with the need to conserve forest areas for wildlife and recreational use.

Foresters are problem-solvers. Their job responsibilities include promoting the health and well-being of the forest by helping protect it from the harmful effects of fire, disease and insects.

Foresters also decide when to harvest trees, when to plant new trees and how to help the forest grow better.

To be a forester, it's important to enjoy working outdoors. But the forester must also study a lot of different subjects in college. They need to understand sciences like botany, zoology and chemistry. They also need to be good in math and know how to use computers. Of course, writing and communications skills are very important, too.

Foresters wear a cruising vest when working in the woods. It has many pockets to hold the forester's tools and is bright orange so that the forester can be easily seen by others, especially hunters, who may be in the forest.

Sizing Up Th

How do foresters even start to under the forest? It's so big and has so mar it. Foresters must know about the tr before they can decide how best to 1

To begin, foresters use maps and taken from an airplane) to get an ov They can use maps and photos to lo creeks, property boundaries and star ages. After studying maps and photos a closer look from the ground at a timber inventory, just like a store or her shop. This is called a tin

a young stand A forester will to 1,000 trees per acre depending on tree species. Based on experience, the fo will be a certain number of trees that will not of 10 trees survive during the first five years aft research and historical information to estimate will grow per acre in a forest that grows back

IT'S TOO CROWDED!

well. It can happen wh trees. It can happen wl nutrients from the soil. farmer does for crops t

They also may developed you often get more spra

the healthiest looking plants. The same is true of t with each other. Foresters remove a portion of the are removed are not wasted, but are used to make

AN OLDER STAND For an older stand of trees, a j trees are growing and how healthy they are. They of the trees and check the age of the trees. They al or tops are growing together.

The forester then may decide harvested to make paper and wo

ne Forest

rstand how to manage
ny different things in
rees in their forest
manage the forest.
aerial photos (a photo
rerall view of the forest.
cate roads, rivers and
nds of trees that are different
otos, the forester needs to get
areas of the forest and take a
ekeeper takes inventory of his
nber cruise.

plant anywhere from 300 n the particular area and prester knows that there survive. Usually, nine out ter planting. Foresters use the number of trees that naturally.



Sometimes the forest gets too crowded and the trees do not grow uen the trees are first planted, and grass and weeds crowd the new hen the trees get larger and compete with each other for water and . Foresters may decide to plow the ground before planting just as a to help the trees grow better.

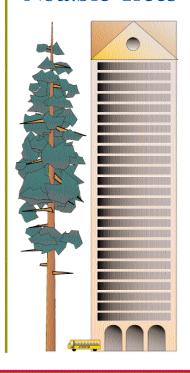
ecide to thin the trees. When you plant flower or vegetable seeds, outs than will be able to survive, so you weed them out and keep trees, but it usually takes several years for them to start competing: trees so the remaining trees will grow faster. Usually the trees that: paper.

forester will need to know how well the will measure the diameter and height lso look to see how closely the crowns

ide that this stand is ready to be pod products.



Notable Trees

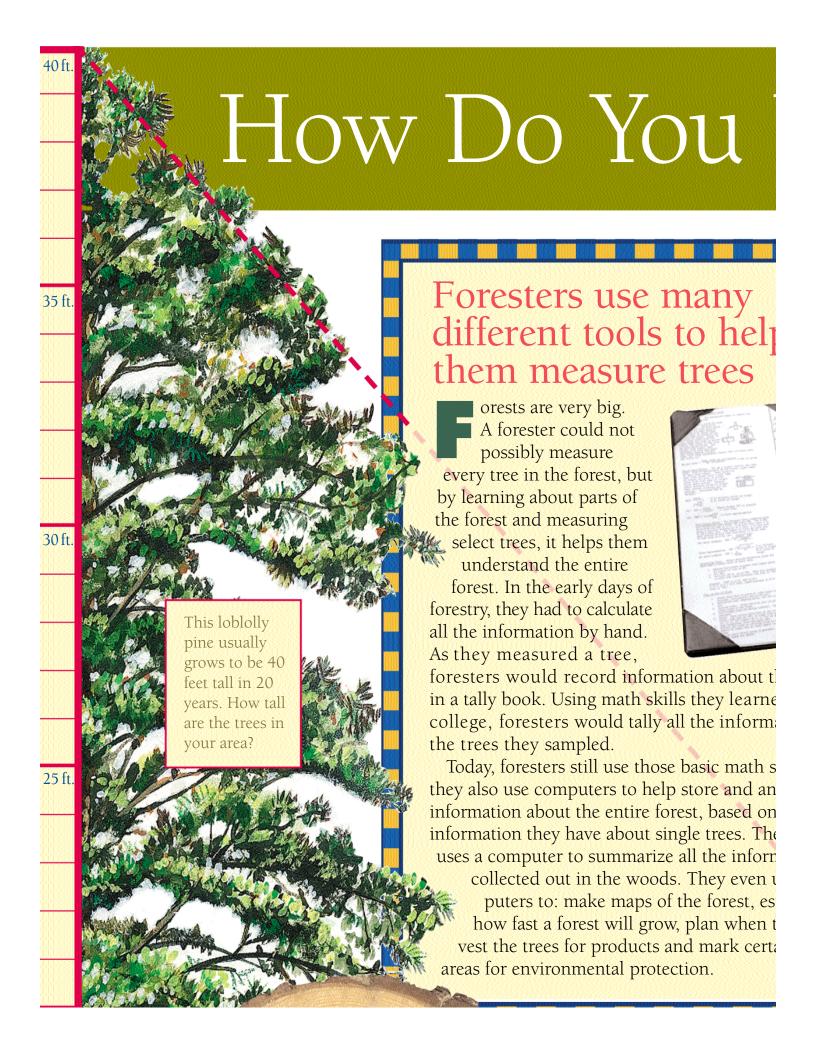


THE OLDEST TREE

The oldest recorded living tree is a bristlecone pine on Wheeler Peak in eastern Nevada. It is 4,900 years old!

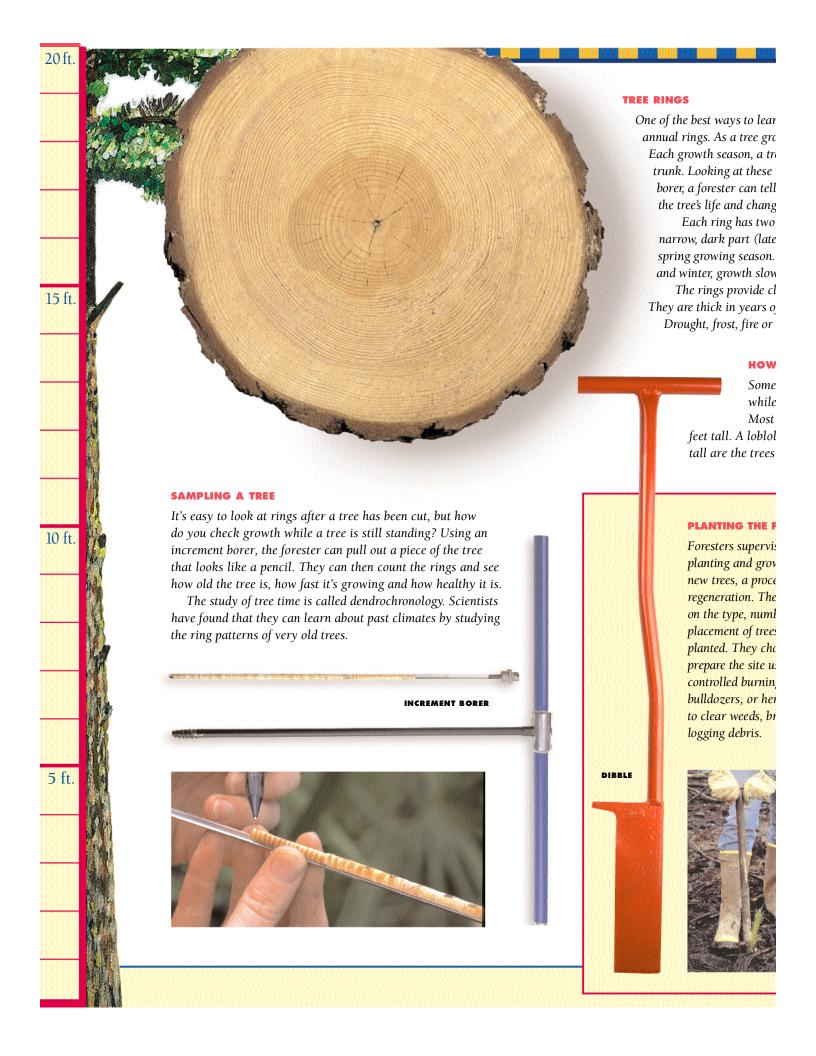
THE TALLEST TREE

The tallest tree is named "National Geographic Tree" in Redwood National Park, California. It is 364.3 feet tall, or as tall as a 30-story building!



Measure A Tree?







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FORESTRY

activities & Extras

How Big Is Your Tree?

Did you ever wonder how to measure something as big as a tree? While foresters today have special tools to help them measure the height of the tree, there are other ways to make these measurements. You'll need to know your math!

ON A SUNNY DAY: 1. Measure the length of the tree's shadow.

2. Stand right next to the tree and have someone measure the length of your shadow. Be sure you take these measurements at the same time of day!!

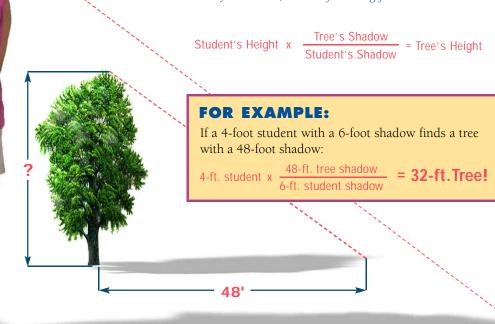
WORDS TO KNOW

crown- the distance the tree's branches spread away from its trunk

regeneration- the planting and growing of new trees tally - to add up for a total sum timber cruise- taking measurements of a sample of the trees in a stand tree stand- a group of trees that have similar characteristics wood volume the amount of usable wood in a tree determined by measuring a tree's height and diameter

Measure your own height.
 Ready for some math? You now have three measurements: your height, the length of your shadow and the length of the tree's shadow. You'll use a ratio to determine the height of the tree:

To calculate how tall your tree is, use the following formula:



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