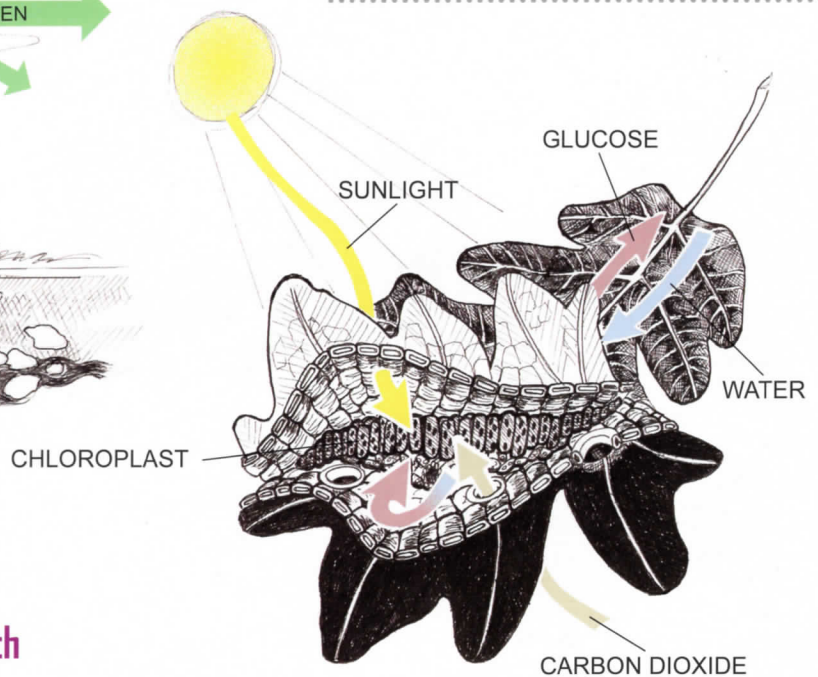
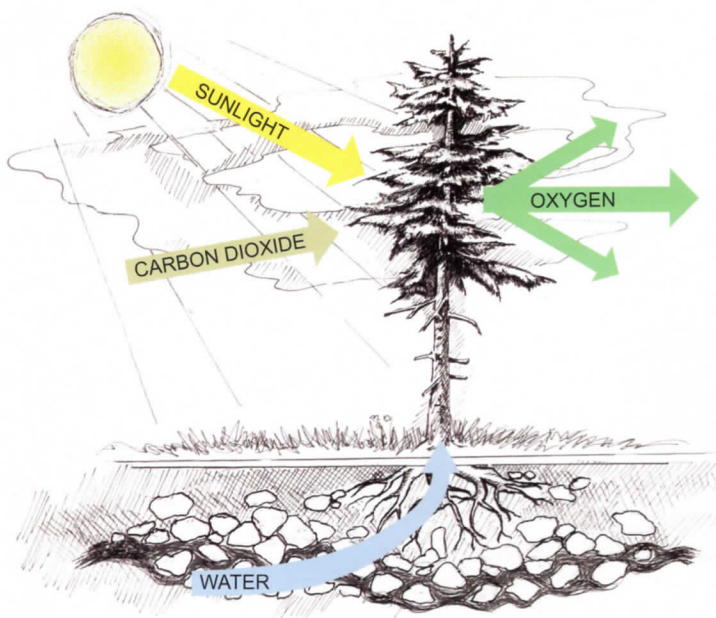


# HOW DOES PHOTOSYNTHESIS WORK ?

Photosynthesis is a natural process by which green trees and plants use energy from the sun to transform water, carbon dioxide and minerals into organic compounds for their growth and oxygen which is released.

Photosynthesis begins when green plants absorb water through roots and carry it to needles or leaves. At the same time, needles and leaves absorb carbon dioxide from the air. It then flows to plant cells called chloroplasts that contain chlorophyll. Chlorophyll uses sunlight as energy to transform carbon dioxide and water into oxygen and carbon-based compounds such as glucose. As the plant grows, it releases oxygen into the atmosphere.



## PHOTOSYNTHESIS REQUIRES:

- Carbon dioxide
- Water
- Sunlight
- Chlorophyll

## PHOTOSYNTHESIS PRODUCES:

- Oxygen
- Carbon-based compounds (such as glucose)

**Photosynthesis provides us with most of the oxygen we breathe.**



OREGON FOREST  
RESOURCES INSTITUTE

Oregon's Legislature created the Oregon Forest Resources Institute to improve public understanding of Oregon's forest resources and to encourage sound forest practices

Learn more at [www.oregonforests.org](http://www.oregonforests.org)

# WHO OWNS OREGON'S FORESTS ?

There are thousands of forest landowners in Oregon alone. All forests, even those that might appear to be wilderness, are owned by someone: state, federal or local governments, private businesses, tribes, families or individuals.

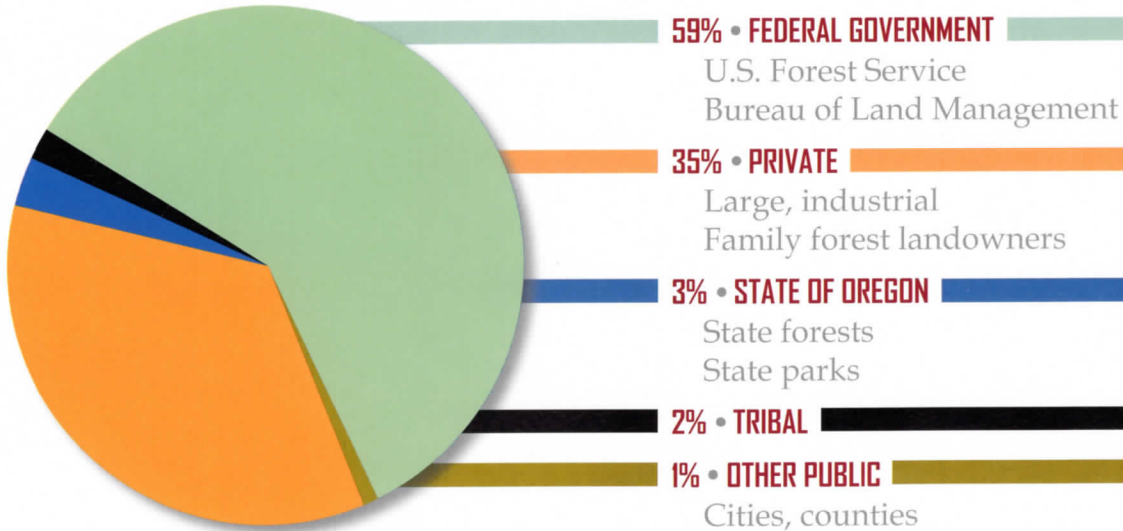
## 59% FEDERAL OWNERSHIP

Oregon contains nearly 28 million acres of forestland. By far the biggest single forest landowner – 59 percent – is the federal government. Most of this land is managed by the U.S. Forest Service and the Bureau of Land Management.



## DIFFERENT OWNERS, DIFFERENT OBJECTIVES

Different forest landowners may choose to emphasize different values. Some own forestland to produce wood products. Others own forestland to promote wildlife habitat. And many promote a mix of environmental and economic values.



Source: Oregon Department of Forestry

**63% of all Oregon forestlands are publicly owned.**



Bob and Margaret Kintigh of Springfield, 2007 National Tree Farmers of the Year



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