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Quick Facts

World Water Resources

About 99 percent of Earth's water is contained in oceans and ice, leaving less than 1 percent available as fresh-water for people, plants, and animals (Gleick 1996).

Worldwide, about 1.1 billion people are deprived of access to enough clean water to meet minimum levels of health, income, and freedom from drudgery (WWAP 2007).

Twenty percent of the world's freshwater fish are endangered or extinct, largely due to water pollution (Re- vengna and others 2000).

Riparian and lacustrine ecosystems (areas next to rivers, streams, and lakes) have much higher species richness than terrestrial ecosystems worldwide (Naiman and Decamps 1997).

About 80 percent of wildlife species use streamwater during some part of their lifecycle (Naiman and Bailey 1998).

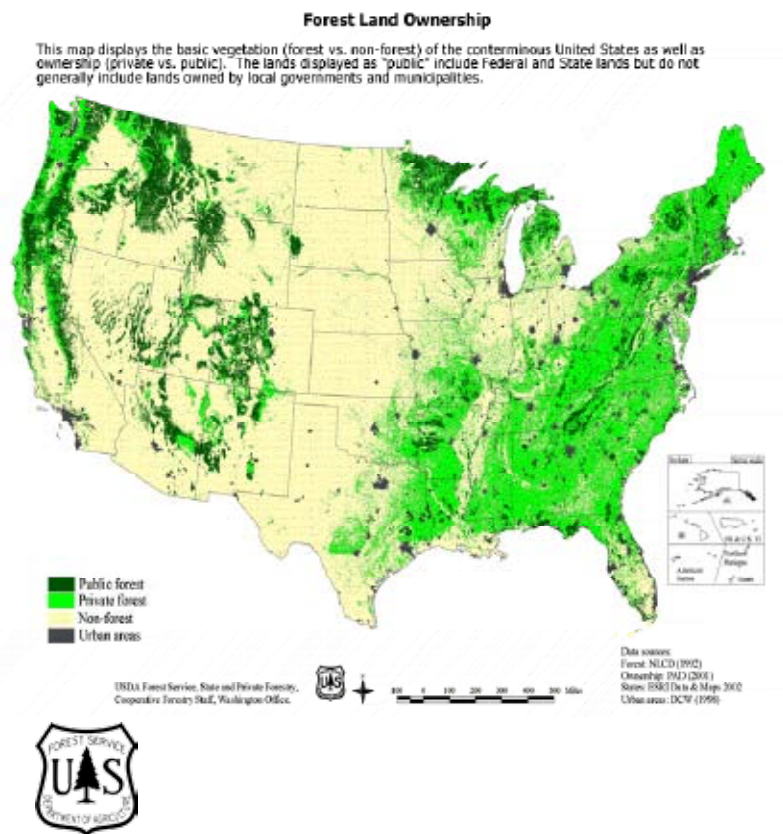
Waters of the United States

Almost two-thirds of the freshwater resources in the United States originate on forested lands (the green areas at right; Stein and others 2005).

Some 180 million people in over 68,000 communities rely on forested lands to capture and filter their drinking water (Stein and others 2005).

An estimated 75 percent of our Nation's outdoor recreation takes place within one-half mile of streams or other waters. [need refer- ence]

Excessive sediment is the leading source of impairment to the Nation's surface waters (EPA 2002).



The United States uses 408 billion gallons of water per day, as follows (Hutson and others 2000):

- Thermoelectric power.....48%
- Irrigation.....34%
- Public supply.....11%
- Industry..... 5%
- Domestic self-supply.....<1%
- Livestock.....<1%
- Aquaculture.....<1%
- Mining.....<1%

Water and the Forest Service

A principle purpose of the National Forest System is to secure “favorable conditions of water flows” (Organic Administration Act, 1897).

National forests and grasslands are the largest single source of water in the continental United States, contributing nearly 20 percent of the Nation’s water supply (USDA Forest Service 2000).

In the West, national forests and grasslands provide over 50 percent of the water supply (USDA Forest Service 2000).

The national forests provide habitat for over 165 threatened and endangered aquatic and amphibian species (USDA Forest Service 2007).

About 15 million people fish each year on national forest land, which has over 220,000 miles of streams and rivers and more than 2.3 million acres of lakes, ponds, and reservoirs (USDA Forest Service 2007).

More than 3,400 communities get most of their water from supplies originating on national forest land, including Atlanta, Denver, Portland, San Francisco, and Washington, DC (USDA Forest Service 2000).

The estimated value of water flowing from national forest land is \$7.2 billion per year from both instream and offstream uses (Brown 2004).

The National Forest System supports about 200 hydroelectric projects, providing enough energy to supply about 18.5 million average homes (USDA Forest Service 2000).

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