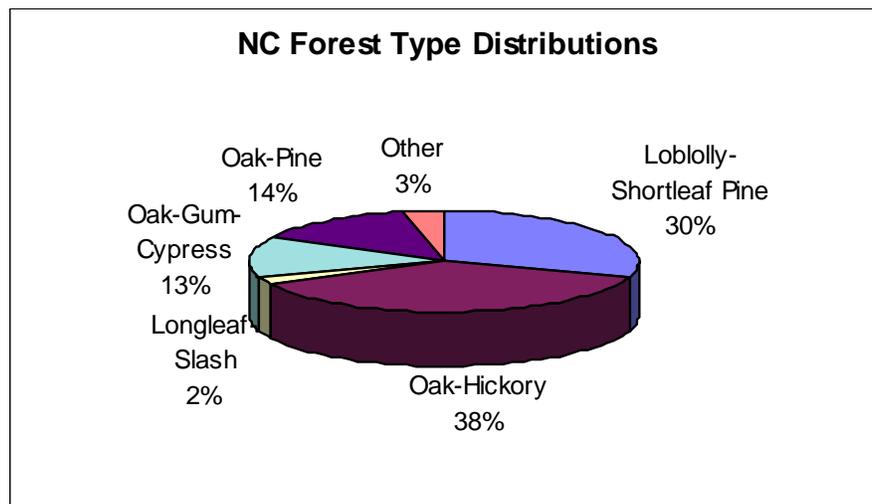


### The Resource

North Carolina's forests cover 19.2 million acres, more than 55% of the state's land area. The majority of the state's forested land, some 14.3 million acres, is in nonindustrial private ownership, while approximately 1.1 million acres are in national forests. Forestry is the state's second most important industry, providing 144,100 jobs and producing \$3.2 billion in annual revenue. North Carolina's forests are also prized for their scenic beauty, supporting tourism and outdoor recreation and providing wildlife habitat from the Appalachian Mountains to the lowlands of the Atlantic Coastal Plain. Major forest types in the state include oak-hickory, loblolly and shortleaf pine, mixed oak-pine, and oak-gum-cypress. Longleaf and slash pine forests, historically much more wide-ranging, now comprise 2% of the state's forests, while other minor types account for an additional 3%.



Forest health monitoring (FHM) activities are cooperative efforts between the USDA Forest Service and the NC Department of Environment and Natural Resources' Division of Forest Resources. The FHM program was initiated in North Carolina in 1998, and includes periodic measurement of 196 fixed plots as well as regular aerial and ground surveys to detect forest damage.

### Special Issues

Key issues which State and federal programs are addressing cooperatively include:

- Urban area expansion and related impacts on forest land acreage and forest health
- Water quality protection through greater use of best management practices
- Sustaining forest resources through wise private landowner stewardship

## **Forest Influences**

Southern pine beetle (SPB) is North Carolina's most significant forest insect pest. In 2003, SPB declined to background levels, with only 120 spots reported in the southwestern corner of the state.

Pine engraver beetles (*Ips spp.*) displayed moderate activity in the eastern Piedmont and Coastal Plain in 2003. Because *Ips* infestations tend to be relatively small and scattered, they usually cannot be effectively controlled or salvaged, but their economic costs may approach those caused by SPB.

Hemlock woolly adelgid (HWA) has now spread to all counties in western N.C., infesting both of the native hemlock species. Current suppression activities involve a cooperative effort to rear and release predators in hope of achieving biological control of the adelgid, but the prognosis for hemlocks is not good. Except on individual trees in landscape settings, chemical control of HWA is not practical, and major losses of these ecologically valuable trees are probable within a few years.

Gypsy moth activity in the state was minor in 2003, and control activities were limited to trapping. No new infestations were reported.

Dogwood anthracnose is a disease of cool, moist areas in the higher elevation forests of western N.C. It is currently found in 28 counties and is causing significant mortality to native dogwoods. Weather conditions favored anthracnose in 2003; Checks of permanent impact plots revealed a 3.6% increase in native dogwood mortality over 2002. No new occurrence counties were reported.

Beech bark disease continues to intensify in the Great Smoky Mountains where it was first identified and is spreading into new territory at lower elevations. The disease, caused by the interaction between a scale insect and a fungus, threatens to spread throughout the hardwood forests of the South.

Weather continued to impact North Carolina's forests in 2003. Hurricane Isabel damaged 833,192 acres of forest land in 26 counties, producing an estimated \$565,943,042 in lost value.

## **Forest Health Assistance in North Carolina**

For further information or assistance, contact:

**Director**  
**NC Division of Forest Resources**  
**1616 Mail Service Center**  
**Raleigh, NC 27699-1616**  
**(919) 733-2162**  
**<http://www.dfr.state.nc.us>**

**USDA Forest Service**  
**Forest Health Protection**  
**PO Box 2680**  
**Asheville, NC 28802-2680**  
**(828) 257-4858**