Florida's forests are expansive and diverse, ranging from subtropical systems to baldeycypress wetlands, pine flatwoods, pine-oak scrubs, gum-cypress swamps, coastal mangroves, isolated hardwood hammocks, and more extensive upland hardwoods. Forest Service data estimate some 16.7 million acres of forest land in Florida. Although encouraging, this is not a call for complacency. Overall forest acreage in Florida is down from its original (estimated) 27 million acres, and challenges to forest health in the Sunshine State are myriad and complex.

Population growth, "development," and associated forest fragmentation continue to take their toll. The timber industry's divestiture of land holdings and the State's aggressive acquisition of environmentally sensitive and other lands for conservation, preservation and recreation programs have and will have impacts (both positive and negative) on the health of Florida's forests. These latter realities continue to influence a shift of emphasis from "traditional" economic pest issues affecting wood product production to pest issues of ecological significance affecting species survival, biodiversity, habitat quality, and ecosystem services.

Substantial funding through the USDA Forest Service's Cooperative Forest Health Protection and Forest Health Monitoring Programs support initiatives addressing significant biotic pest/forest health issues.
Redbay mortality, caused by a vascular wilt pathogen vectored by the imported Ambrosia Beetle (inset left) continues to spread in Florida impacting biodiversity and threatening the state's avocado industry.

Efforts continue to evaluate the overall threat of **annosum root disease** in partially harvested pine stands. **Oak mortality** is being evaluated in cooperation with the University of Florida's School of Forest Resources and Conservation. 2008 marked the second consecutive year of widespread defoliation of oaks by the **variable oakleaf caterpillar** (*Lochmaeus manteo*) across a broad area of northeast Florida. The first North American detection of the **blue gum chalcid** (*Leptocybe invasa*), a gall-forming pest of Eucalyptus, occurred in south Florida in 2008.

Efforts continue to detect **Phytophthora ramorum**, the cause of "**Sudden Oak Death**," downstream from plant nurseries with confirmed presence of the pathogen.

The current **laurel wilt epidemic** is decimating populations of redbay (*Persea borbonia*) and negatively affecting other species in the family Lauraceae. Laurel wilt was first detected in Florida in 2005 and has since spread to at least 17 counties. The first detections of the disease in Florida on camphor, sassafras, and pondspice (an endangered shrub) occurred in 2008. Fungicide infusion treatments are being used in an effort to protect high-value redbay trees in landscapes. The fungal pathogen causing this vascular wilt disease is vectored by an imported ambrosia beetle and poses a serious threat to the avocado industry in South Florida.

http://www.fs.fed.us/r8/foresthealth/laurelwilt/index.shtml
Cogongrass, one of the “world's worst weeds,” invades grassland, roadsides, residential areas, agricultural croplands and forests, seriously impacting plant biodiversity, wildlife habitat, fire behavior, and forest land management.

Non-native pests pose serious ecological threats to Florida's forests. Non-native invasive pest plants top the list of these damaging organisms. As part of a four-state initiative funded by the U.S. Forest Service (Region 8, CFHP), the Florida Division of Forestry is implementing a pilot project to assist county road/public works departments and private landowners with cogongrass control. (http://www.fl-dof.com/forest_management/fh_invasives_cogon.html). Efforts continue re detection and control of non-native invasive pest plants on State Forests and other public and private lands.

Melaleuca, a non-native invasive tree species, invades both wet (a) and dry (b) sites in south Florida, creating impenetrable stands and seriously influencing wildfire (c) behavior and impacts. (Photos: Tony Pernas, USDI National Park Service).

Old World Climbing Fern (a) and air potato (b) illustrating the serious ecological and habitat impacts of invasive pest plants. (Photo: at left, Peggy Greb, USDA Agricultural Research Service)

Forest Health Assistance in Florida
For further information or assistance, contact:
Florida Dept. of Agriculture and Consumer Services  USDA Forest Service
Division of Forestry Forest Health Protection
PO Box 2680
1911 SW 34th Street
Asheville, NC 28802-2680
Gainesville, FL 32608 (828)257-4858
(352372-3505, ext. 191)
http://www.fl-dof.com/forest_management/fh_index.html