



INDIANA

FOREST SERVICE RESEARCH AND DEVELOPMENT

STATE FUNDING HISTORY	Enacted FY 2003 (\$)	Enacted FY 2004 (\$)	Pres. Budg. FY 2005 (\$)
WEST LAFAYETTE			
NC-4157 Central Hardwood Improvement/ Regeneration/Restoration	897,000	910,000	848,000
INDIANA TOTAL	897,000	910,000	848,000

RESEARCH & DEVELOPMENT, a division of the USDA Forest Service (FS R&D), strives to be the "go to" organization for information and solutions to sustain forests and rangelands and the values they provide people. FS R&D has the flexibility to address today's issues effectively and to respond to tomorrow's needs. Among the world's leaders in forest conservation research, scientists contribute to the stewardship of land, real property and society by providing research results that help create jobs and affordable homes, and improve the health of trees, forests and forest ecosystems. Innovative research products permit the Forest Service and other public and private land managers to monitor and manage forest responses to environmental change, contributing significantly to the sustainability of the nation's forests and rangelands and improving human health.

FS R&D operates six research stations, the Forest Products Laboratory, and the International Institute of Tropical Forestry located in Puerto Rico. It employs over 500 scientists and hundreds of technical and support personnel at 67 field sites throughout the nation. The FY 2005 President's

Budget includes \$280,654,000 for Forest and Rangeland Research.

The **North Central Research Station**, headquartered in St. Paul, Minnesota, currently has research and development programs in six Midwestern states (Illinois, Indiana, Minnesota, Missouri, Michigan, and Wisconsin). The FY 2005 President's Budget is \$22,200,000, an increase of \$1,308,000 above FY 2004.

WEST LAFAYETTE

NC-4157, Central Hardwood Tree Improvement, Regeneration, and Restoration. Working together with Purdue University, the State of Indiana, and forest industry, the Hardwood Tree Improvement and Regeneration Center (HTIRC) was formed for the region. Advanced biological techniques to improve hardwood trees were used in order to increase forest productivity. New ways to propagate, produce, and deliver trees were developed, especially walnut, oak, and cherry, so businesses, landowners, and public agencies could grow better trees. <http://www.ncrs.fs.fed.us/4157/>

FY 2005 PROGRAM CHANGES:

- The FY 2005 President's Budget directs increased spending on three priority research areas: Invasive species, watershed, and science application technology. It also includes increases for fixed costs.
- FS R&D continues research at West Lafayette, which has:
 - Fostered an effective public- private partnership for improving regional forest productivity with the State of Indiana, Purdue University, and the hardwood industry.
 - Created a shared facility with Purdue University for state-of-the-art forestry and genetic research. The expanded and upgraded laboratories and offices support an array of studies from mapping the genetic makeup of hardwood trees to improving nursery propagation methods.
- Forest Service Research and Development will lead an Agency-wide effort to optimize the delivery and practical use of research findings. This is essential to successful implementation of Forest Service priorities, including the President's Healthy Forest Initiative. Opportunities have been identified that leverage current science and technology applications efforts in healthy forests applied science,

watershed management, invasive species, hazardous fuels utilization and management, and community preparedness. New funds in FY 2005 will be targeted to leading-edge technical assistance on a competitive basis.

SIGNIFICANT RESEARCH PRODUCTS:

Work continues at West Lafayette toward developing and delivering the following products:

- Improved black walnut, black cherry, and northern red oak nursery stock with characteristics important to tree growers for economic return and forest health.
- Harvesting guidelines that preserve the genetic diversity of fine hardwood stands and help these forests withstand new insects and diseases and climatic changes.

SOME CLIENTS/COLLABORATORS:

Indiana Hardwood Lumberman's Association
Indiana Department of Natural Resources
Purdue University
State Foresters in the Central States
State and Private Forestry
Walnut Council
Non-industrial private landowners