



## MASSACHUSETTS

### FOREST SERVICE RESEARCH AND DEVELOPMENT

STATE FUNDING HISTORY	Enacted FY 2003 (\$)	Enacted FY 2004 (\$)	Pres. Budg. FY 2005 (\$)
<b>AMHERST</b>			
NE-4251 Wildlife in New England Forests	1,036,071	1,023,307	1,044,229
<b>MASSACHUSETTS TOTAL</b>	<b>1,036,071</b>	<b>1,023,307</b>	<b>1,044,229</b>

**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 **Northeastern Research Station**, headquartered at Newtown Square, Pennsylvania, maintains forest and rangeland research and development programs across 13 northeastern states (i.e. CT, DE, MD, MA, NJ, NY, NH, ME, OH, PA, RI, WV, and VT). The FY 2005 President’s Budget for the Northeastern Research Station is \$34,697,000. The Northeastern Research Station maintains one research work unit in Massachusetts, located in Amherst.

#### AMHERST

**NE-4251, Wildlife and Fish Habitat Relationships and Recreation Opportunities in New England Forests.** This unit conducts research to provide the scientific bases for managing forests, riparian zones, and aquatic habitats for terrestrial and aquatic vertebrates, and for managing recreation opportunities for people.

#### SIGNIFICANT RESEARCH PRODUCTS:

- Research showed that, in the relatively moist condition of New England northern hardwoods,

clearcut harvesting has rather transitory effects on redback salamander abundance.

- Developed a model to predict changes in Large Woody Debris (LWD) inputs to upland streams and tested the effects of variation in hydrologic regime on Atlantic salmon growth.

**FY 2005 PROGRAM CHANGES:**

- **Science-based Technology Transfer.** 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.

**SOME CLIENTS/COLLABORATORS:**

- Green Mountain National Forest
- Massachusetts Division of Fisheries and Wildlife
- Metropolitan District Commission, Boston
- Northeast Wild Turkey Committee
- University of Massachusetts
- White Mountain National Forest