

FACILITATING THE REGENERATION AND RESTORATION OF NATIVE HARDWOOD FOREST TREES

A McIntire-Stennis supported project



Forestry and Natural Resources

Native hardwood forests in the United States provide important commercial and ecological benefits, but the availability and/or quality is dwindling. One method of restoring or rehabilitating these hardwood forests is through the establishment of hardwood plantations.

This project aims to address current technological and environmental limitations to developing these plantations as well as offering new technologies and recommendations to overcome those challenges, improving hardwood reforestation success and alleviating stress on the current native hardwood population.

The goal of this project is to enhance the knowledge of factors that limit hardwood regeneration and identify actions that lead to restoration and rehabilitation treatments that improve the distribution and condition of hardwood forests in three important hardwood regions of the United States.

Factors to be considered include nursery practices, control of animal browse, fertilization and light availability.



About McIntire-Stennis

The McIntire-Stennis program, a unique federal-state partnership, cultivates and delivers forestry and natural resource innovations for a better future. By advancing research and education that increases the understanding of emerging challenges and fosters the development of relevant solutions, the McIntire-Stennis program has ensured healthy resilient forests and communities and an exceptional natural resources workforce since 1962.



COLLABORATION

Natural resources/ environmental professionals from three institutions - the University of Hawaii, New Mexico State and Purdue - are collaborating on this project.



8-16

Publications, 2-4 for each of the four project objectives are planned.

IMPACT

With increasing population growth there is tremendous pressure on hardwood forests to supply timber, clean water, wildlife habitat and recreation. Plantations will be increasingly relied upon to meet these needs.



66 Percent

Average Survival Rate of operationally planted hardwood in Indiana



Three

hardwood regions will be the focus of this project: the Central Hardwood Forest Region, the southeastern Atlantic Coast and Hawaii



\$462,688

Estimated budget of this five year project.