Programme activities

Pest and disease monitoring



Scaling out

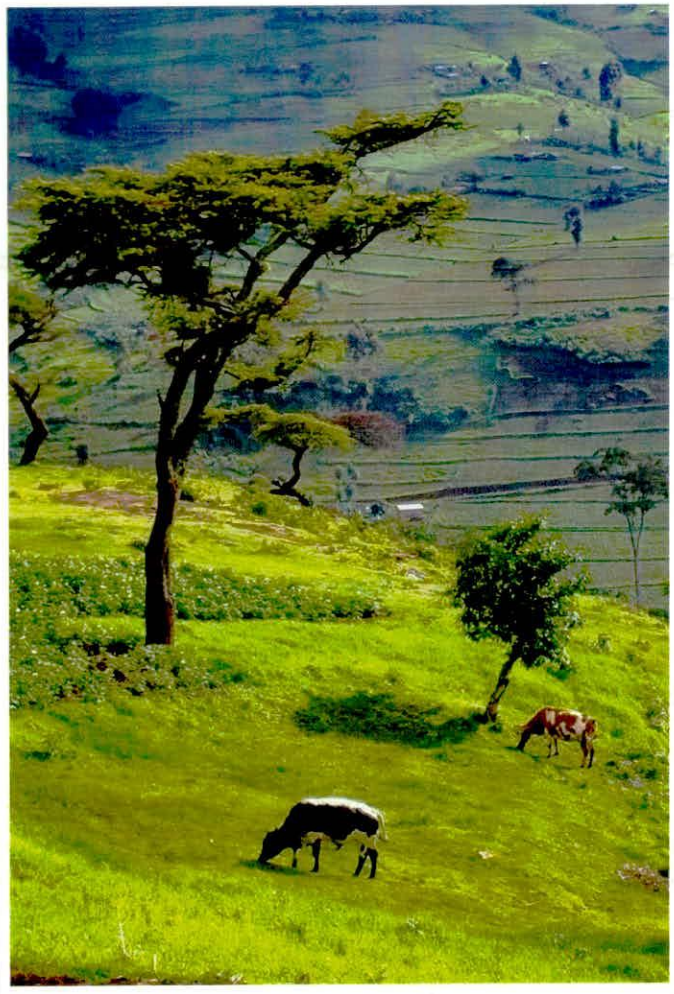


Assessing impacts



Growth assessments





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NARO

NaFORRI

Agroforestry Research Programme



Generating and disseminating technologies for growing trees on-farms to optimize crop and livestock productivity, provide multiple tree products and conserve the natural resource base

Introduction

The Agroforestry Research Programme is one of the four programmes implemented at the National Forestry Resources Research Institute of NARO. Simply put, Agroforestry refers to growing and managing trees on farm for ecological and economic benefits. It is an integrated approach of using the interactive benefits from combining trees and shrubs with crops and/or livestock, creating more diverse, productive, profitable, healthy and sustainable land-use systems.

Overall Programme objective

To develop and disseminate technologies that integrate trees and shrubs on-farms to optimize crop yields, improve livestock productivity, provide multiple tree products and conserve the natural resource base.

Specific objectives include:

- Diagnosis and design of appropriate agroforestry interventions to enhance productivity of small holder systems in Uganda.
- Manage and conserve important high value tree species integrated on-farm, including their domestication.
- Assess the role of agroforestry in climate change mitigation.
- Improve markets for agroforestry products from smallholder producers to increase incomes.
- Assess adoption rates and impacts of agroforestry technologies.
- Develop strategies for wide scale adoption and adaptation of agroforestry technologies.
- Develop partnerships, collaboration, and networks to improve information sharing and building stakeholder capacities.
- Manage pests and diseases in agroforestry systems.
- Develop policy briefs and institutional structures to enhance various agroforestry interventions.

Funding sources:

Agroforestry research is funded by among others: Government of Uganda, World Bank, Australian Government.

Projects currently under implementation

1. Forage production and utilization for increased productivity of Uganda's small holder dairy systems

Focal activities:

- Benchmarking of forage security situation
- Prioritization of forage species for milk productivity.
- On-station forage management trial (spacing and cutting height).
- Demonstration of forage production and conservation.
- Forage seed multiplication.

2. Utilization of indigenous tree species for improved livelihoods and economic development

Focal activities

- Determining socioeconomic attributes of indigenous tree species and their contribution to land productivity and crop yields
- Developing propagation and multiplication protocols for priority indigenous tree species
- Developing harvesting and processing methods for sustainable supply of products from indigenous tree species

3. Production and promotion of quality agroforestry tree germplasm for enhanced farm productivity

Focal activities

- Collect and validate indigenous knowledge on phenology of priority agroforestry tree species
- Collect tree germplasm, nursery work
- Analyze the tree germplasm value chain and
- Develop improved tree germplasm production, distribution and use options

Other projects include

4. Enhancing the productivity of Uganda's drylands for climate change adaptation and mitigation using hydrogel technology (CGS)

5. 'Trees for Food Security' project implemented in partnership with ICRAF



On-station forage trial



Maize intercropped with Markhamia



Woodlots of superior agroforestry germplasm