3. Forest Products and Services Research Programme

Objective

To develop and disseminate technologies that enhance efficient harvesting, processing and utilization of wood and non-wood forest products.



Outputs

- *Efficient methods for harvesting, processing and utilization of wood and non wood forest products developed.*
- *Appropriate technologies for harvesting, processing and utilization of wood and non wood forest productspackaged and disseminated.*
- *Impact ofharvesting, processing and utilization of technologies on treesand ecosystems assessed.*
- *Service of trees and forest ecosystems understood.*
-

4. Tree Improvement and Germplasm Research Program

Objective

To continually increase the value of tree crops using genetic principles and subsequently producing adequate quantities of high quality planting materials for afforestation, reforestation, agroforestry and various tree growing needs.



Outputs

- *Tools and methods for quantitative and molecular improvement for priority tree species developed.*
- *Empirical models of growth of priority tree species using progeny trials developed.*
- *Phenotypic and genetic variation of trees in Uganda understood.*
- *Methods for progeny, provenance and traits at the individual tree level improved.*
- *Decision-support systems that integrate information on germplasm, site, silviculture and stand assessment developed.*

Partnerships

NaFORRI works incollaboration with otherNARO institutes,Universities, International Agricultural Research Centers, the Center for International Forestry Research (CIFOR), World Agroforestry Centre (ICRAF) and othernational, regional and international agencies.

NARO NaFORRI

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NATIONAL FORESTRY RESOURCES RESEARCH INSTITUTE (NaFORRI)

"Forestry Research for Improved Livelihoods"



Mandate, Focus Areas, Objectives and Outputs

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Preamble

TheNational Forestry Resources Research Institute (NaFORRI) is a National Agricultural Research Institute (NARI) mandated to undertake research in all aspects of forestry. The institute strives to increase benefits derived from trees and forests through conservation and sustainable management.

Vision:

To be a centre of excellence spearheading forestry research for improved livelihoods, economic growth and natural resource conservation.

Mission: To generate and disseminate appropriate technologies on forests and tree resources for increased productivity, conservation of biodiversity and enhanced environment.

Background

Forestry research has been a key part of forest management in Uganda since 1898 when the Forestry, Botanic and Scientific Department was establishment. In 1954, the Forestry Research Center was established at Nakawa under the Forestry Department. In 1992, forestry research was transferred to the National Agricultural Research Organization (NARO).Under the current National Agricultural System (NARS), NaFORRI is one of the Public Agricultural Research Institutes (PARIs) of NARO, the apex body of NARS.

Objective

Toenhancescientificinnovations,skills,informationand policy advice for increased productivity, conservation and sustainable use of forest and tree resources.

Research Programs

Research at NaFORRI is carried out under four (4) program areas:

1. Forest Conservation and Management Research Programme

Objective

Todevelopanddisseminatetechnologiesandstrategies for conservation and sustainable management of various forest ecosystems and types in Uganda through understanding forests and their components.



Outputs

- *Forest and woodland ecosystems understood.*
- *Methods and practices for sustainable management of forests and woodlands developed.*
- *Appropriate forest management technologies packaged and disseminated.*
- *Adoption and impact of sustainable forest management technologies assessed.*
- *Impact of forest management and utilization technologies on the ecosystems assessed.*

2. Agroforestry Research Programme

Objective

To develop and disseminate appropriate technologies thatintegrate trees on-farm to optimize crop yields, livestock productionand conserve the natural resource base.

Outputs

- *Needs and potential trees/shrub species for integration in farming systems identified.*
- *Trees/shrub species for different farming systems evaluated.*



- *Appropriate trees/shrubs management techniques developed.*
- *Appropriate farm forestry technologies packaged and disseminated.*
- *Adoption and impact of agroforestry technologies assessed.*
- *Communities and national development needs for forest resources determined.*