

RESEARCH COMMODITIES

- Dairy cattle
- Dual Purpose Ankole
- Fish farming (Tilapia, catfish (big and small), Common carp)
- Livestock feeds (Feed ration development for livestock and fish.
- Pastures (production, fodder conservation and rehabilitation of degraded rangelands.)
- Piggery (Cambrough and its crosses)
- Goats (Boers and Tropical)

OFFERS IN CAPACITY BUILDING FOR FARMERS AND STUDENTS

*Farmers (individuals and organizations)
Training in improved livestock production practices in the following disciplines:*

- Live stock parasites and disease diagnosis
- Disease management
- Integrating livestock-crop and fish systems
- Animal and fish feeds development and nutrition
- Artificial hatching of fish eggs
- Value addition in milk and fish products
- Clean milk production
- Artificial insemination (cattle, piggery)
- Pregnancy diagnosis in livestock
- Calf management
- Pasture agronomy
- Pasture conservation for dry season feeding
- Sustainable range land management
- Water quality monitoring and management

TECHNOLOGIES:

Improved breeds and high quality materials for dissemination / uptake

- Breeding bulls
- Breeding Boer goats
- Piglets
- Breeding Sows
- Fish fry (Tilapia, catfish and carp)
- Brood stock fish (Tilapia, catfish and carp)
- Fish feeds (Hatchery, starter, grower
- Aflatoxin binders for animal and fish nutrition
- Pasture planting material (legumes, grasses, Napier, shrubs, etc)

- Pasture sweet potatoes (biofortified orange flesh varieties)

3. FARM MANAGEMENT, STRUCTURES AND IMPLEMENTS

- Grazing systems
- Record keeping
- Mechanization
- Farm structures (*feed mills, pelletizers, dip tanks, calf pens, spray race, milking parlour, crushes, water troughs, pig sty, goat sheds, fish ponds, fish fry hatchery etc*) and tools (*grass cutters, drenching gun, burdizzo, fish nets, etc*)
- Animal handling
- Farm tools and machinery (such as, forage choppers, feed grinders, mixers and pelletizes, tractors, water pump, spray pumps, plough discs, planters, etc)
- Farm management practices and operations (e.g castration, disbudding, dehorning, de-hoofing).

4. CONSULTANCY SERVICES

DAIRY

- Artificial Insemination
- Planting pasture
- Pasture conservation (hay, silage, etc)
- Indigenous Technical Knowledge (ITK) for disease management
- Disease diagnostics (Lab tests)

AQUACULTURE

- Feed making,
- Fish breeding
- Pond construction
- Fish pond site selection and planning

5. INFORMATION MATERIALS

- Brochures
- Posters
- Booklets
- Manuals/ guides.

6. PRICING

- Administrative costs – Shs 50,000 per visit.

(Every group must pay this cost)

- Students – Shs 15,000 per area of study
- Farmers and Extension workers – Shs 100,000 per area of study.

NB: *The total cost of a visit is based on addition of administrative costs with the number of areas of study the group is interested in.*



MBARARA ZONAL AGRICULTURAL RESEARCH & DEVELOPMENT INSTITUTE

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*On-Station Technology
Dissemination & Training
BROCHURE*



PREAMBLE

Mbarara Zonal Agricultural Research and Development Institute (MBAZARDI) is located four miles off the Mbarara -Bushenyi road. Its mandate is to conduct client oriented, demand driven and market responsive research in crop and animal husbandry. The Institute's research activities currently cover fourteen districts ie Mbarara, Isingiro, Ntungamo, Sheema, Bushenyi, Mitooma, Rubiriizi, Buhweju, Ibanda, Kiruhura, Lyantonde, Sembabule, Rakai and Kyotera. *Part of the Institute's mandate is to use demonstration to provide practical training to farmers, extension workers and students within the mentioned districts and beyond.*

TARGET CLIENTELE

- 1.Extension workers
- 2.Farmers
- 3.Interns
- 4.Students in higher training institutions (Universities, Technical colleges) and Schools (Farm schools, Secondary schools and Primary schools)

1. CROP AND NATURAL RESOURCES RESEARCH AND DEVELOPMENT PROGRAM.

RESEARCH UNITS

- Plant Agronomy
- Plant Pathology
- Entomology
- Soil Science
- Agro-forestry

RESEARCH COMMODITIES

- Banana, coffee
- Cereals: Maize, rice, chickpea, millet
- Legumes: Common beans
- Root crops: Sweet potato and cassava
- Tuber crops: Solanum potatoes
- Horticultural fruit trees: Citrus, mangoes, tangerines.

*Offers in capacity building for farmers and students
Farmers (individuals and organizations) Training in improved agricultural production practices in the following disciplines:*

- Soil fertility management and/or improvement (soils

types, nutrients, types of fertilizers, rates, time, methods of application, etc)

- Soil water conservation and /or harvesting and management
- Seed or Planting materials and quality aspects
- Plant phenology/ growth stages management
- Plant pest and disease identification, characterization, symptoms, damage/ associated loss assessment, control using various technologies
- Plant varietal selection
- Harvesting, postharvest handling, storage (long and short term).

TECHNOLOGIES:

i. Improved plant/crop varieties in the following aspects

- High yielding
- Nutrient rich (biofortified)
- Early maturity
- High/ warm temperature and drought tolerant
- Disease resistant/ tolerant
- Low soil fertility tolerant

ii. Non-varietal technologies/practices

- Integrated soil fertility technologies (ISFM)
- Integrated disease management (IDM)
- Integrated pest management (IPM)
- Post-harvest pest management
- Field crop agronomic practices
- Seedling production and nursery management

iii. High quality planting materials/seed

- Robust hybrid coffee seedlings with wilt disease resistance
- Common beans including nutrient rich biofortified varieties
- Maize
- Rice
- Sweet potatoes (biofortified orange flesh varieties)
- Cassava stem cuttings
- Banana suckers
- Fruits (Mango, avocados and citrus seedling (Washington naval, Valencia)).

Service to Primary School Pupils:

- Training in various applied agricultural sciences of crops, fruits, trees, soils, pest and diseases.

Service to High school students:

- Basic trainings applied crop science, soil science, horticulture, agroforestry.

Service to Higher institutions

- (technical colleges and University students):
- Trainings in applied agriculture: Crop science, soil science, horticulture and agroforestry
 - Experimental Research: Planning, designing, setting-up experiments, monitoring and data collection
 - Data handling, analysis, interpretation and reporting.

Service to Graduate and post-graduate students:

- Supervisory and mentorship in agricultural research
- Experimental Research: Planning, designing, setting-up experiments, monitoring and data collection
- Data handling, analysis, interpretation and publishing.

Service to Extension workers (government, NGOs, OWC, etc)

- Trainings in new improved agricultural technologies through adaptive research
- Improved technologies (varieties and non-varietal technologies)
- Field based technology demonstrations
- Early generation high quality planting materials.

2. ANIMAL RESOURCES RESEARCH AND DEVELOPMENT PROGRAM

RESEARCH UNITS

- Livestock production and health
- Livestock breeding
- Goat husbandry
- Piggery husbandry
- Aquaculture

To conduct client oriented, demand driven and market responsive research in crop and animal husbandry