

**RESEARCH UNIT ON:
« AGRO-PASTORAL PRODUCTION
SYSTEMS AND ENVIRONMENT »**

Priority research areas

- Studies on the zootechnical performance of different domestic animal species in West Africa;
- Co-design of sustainable intensification techniques and practices in agro-sylvo-pastoral systems and support of stakeholders in the agro-ecological transition;
- Adaptation of pastoral and agro-pastoral practices to global changes (climatic, demographic, social and economic);
- Improving the integration of agriculture and livestock in the agropastoral zone of West Africa;
- Transfer of technologies and expertise to member states and the region.

**DOCUMENTATION AND TRAINING
DEPARTMENT**

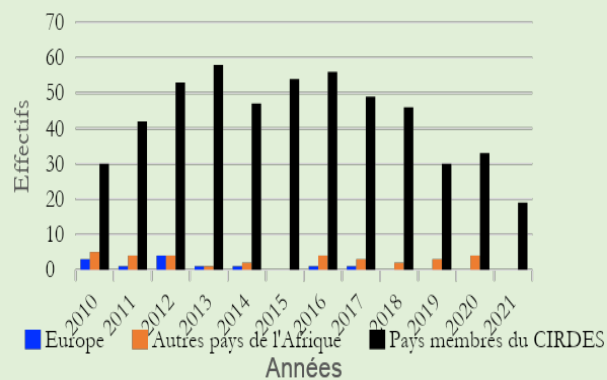
This service is attached to the Scientific Department. Its missions are :

- To ensure the organization in-situ or ex-situ of training courses or thematic training courses dedicated to students at the end of their studies or in specialization and to the executives and technicians of the National Agricultural Research Systems of CIRDES member states in its various fields of intervention;
- To ensure the organization and the management of the scientific documentation of CIRDES;
- To facilitate access to and dissemination of scientific and technical information.

In this respect, the documentation service develops documentary products and services to enable users to better exploit its documentary resources. It also organizes training on documentary research methodology and the use of electronic resources.

The documentation center of CIRDES is the second depository of FAO publications in Burkina Faso and is open to the public.

Interns received at CIRDES from 2010 to 2021



STATISTICS :

- ❖ Three decades of research for livestock development in West Africa and the Sahel;
- ❖ An international center where researchers from several African and European countries collaborate;
- ❖ A center where hundreds of students from several African and European countries have been trained.

STRATEGIC PARTNERS

Member States



Other partners



ACKNOWLEDGEMENTS

CIRDES and its Member States thank the technical and financial partners for their contributions through the technical and financial support of several activities of the Centre.

Our sincere thanks to our Member States for their support.

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**Centre
International de
Recherche
Développement sur
l'Élevage en zone
Subhumide**

**(International Research and Development
Centre on Livestock in Subhumid Zones)**



**CIRDES, your sub-regional partner for Research - Development
on livestock in West Africa and the Sahel.**

Member States



STATUT

The International Center for Research and Development on Livestock in Subhumid Zones (CIRDES) is an intergovernmental organization created by replacing the Research Center on Animal Trypanosomiasis, following the signature of a convention in December 1991 that was ratified by the Ministers in charge of livestock of the five (5) member states of the " *Conseil de l'Entente*" (Benin, Burkina Faso, Côte d'Ivoire, Niger and Togo). Other countries joined later on: Mali in 2002, Guinea Bissau in 2005 and Guinea in 2013. CIRDES has financial and administrative management autonomy, international legal personality and a headquarters agreement with Burkina Faso.

MANDATE

To carry out research and development activities to improve the health of domestic animals and increase their productivity in order to satisfy the growing needs of populations and increase their income while respecting the ecological balance.

GUARDIANSHIP - GOVERNANCE

CIRDES is placed under the supervision of the ministries in charge of livestock of its member states. A Board of Directors made up of the Ministers in charge of livestock and a Committee of Experts representing all the Member States, constitute the governance organs of the Center. A Scientific Advisory Board ensures the follow-up and evaluation of research activities. A General Management is in charge of the execution of the decisions of the governing bodies.

FIELDS OF ACTIVITY

- Diagnosis, Epidemiology and Strategic Control of vectors (tsetse flies, ticks) and vector-borne diseases (African animal/human trypanosomiasis, tick-borne diseases);
- Characterization of genetic resources for the conservation of environmental, animal and plant biodiversity;
- Studies and co-design of more productive and sustainable livestock systems in the face of climate change; Capacity building of human resources in the West African sub-region through training and transfer of innovative agricultural technologies;
- Collection and dissemination of scientific and technical information on livestock in Africa.



LABELS AND RECOGNITIONS OBTAINED BY THE CIRDES

- ❑ WAEMU Regional Center of Excellence for Animal Biotechnology;
- ❑ FAO Reference Center for Vectors and Vector-borne African Animal Diseases;
- ❑ Headquarters of the West African Genebank for Animal Genetic Resources;
- ❑ WHO Collaborating Centre for the fight against HAT;
- ❑ CORAF Base Centre;
- ❑ Depository center for FAO publications;
- ❑ Reference laboratory for the diagnosis of chemoresistance to trypanocides.

FUNCTIONAL ORGANIZATION OF RESEARCH

The scientific management is coordinated by a Scientific Director. The research activities are grouped in three research programs within two (2) units.



Program 1 «Strategic control of vector-borne hemoparasitic diseases » within the Vector-borne Diseases and Biodiversity research unit: Epidemiology and Diagnosis of African trypanosomiasis (Animal Trypanosomiasis and Human African Trypanosomiasis, AAT & HAT) and Tick-borne Diseases (TBD) in "one health" approach; Chemoresistance to usual drug molecules; Biology and Ecology of the vectors of the above-mentioned diseases; Strategic control of the above-mentioned diseases.



Program 2 «Sustainable Integrated Management of Agro-Sylvo-Pastoral Resources » within the research unit Agro-Pastoral Production Systems and Environment: farm typologies; ecological intensification; improvement of agricultural-livestock integration production systems; improvement of animal feed; improvement of livestock systems.



Program 3 «Biodiversity and Genetic Improvement » is a transversal program of the two (2) units: Genetic characterization of animal genetic resources and aquaculture genetic resources; Studies of genetic mechanisms of resistance of animals and humans to diseases; Conservation and preservation of domestic animal breeds.



RESEARCH UNIT ON: « VECTOR-BASED DISEASES AND BIODIVERSITY »

Priority research areas

- The development of reliable parasitological, serological and molecular diagnostic tools allowing a better knowledge of the epidemiology of hemoparasitoses (African Animal Trypanosomiasis and Tick-borne diseases) of cattle;
- Studies on animal and environmental biodiversity for conservation or improvement of animal genetic resources;
- Research on markers of resistance and/or susceptibility to diseases and markers determining production abilities;
- The biology of tsetse and ticks to improve their capture and breeding methods;
- Improvement and implementation of innovative and efficient strategies to control vector-borne diseases;
- Epidemiology and strategic control of chemoresistance to trypanocides and acaricides.

