

A CARACT



Securing tomorrow's food

Promoting the sustainable use of farm animal genetic resources

Information for action





Local Livestock For Empowerment of Rural People





Produced with the support of:

Deutsche Gesellschaft für Technische Zusammenarbeit (GTZ) P.O. Box 5180, 65726 Eschborn, Germany, www.gtz.de GTZ is one of the world's largest service enterprises for development cooperation. Owned by the Federal Republic of Germany, the organisation implements the Government's activities in the field of Technical Cooperation.

and

MISEREOR

Mozartstraße 9, 52064 Aachen, Germany, www.misereor.de MISEREOR is a Catholic development organisation that helps people in Germany contribute to justice and solidarity with the poor and oppressed in Africa, Asia and Latin America. The projects support and promote local initiatives, irrespective of nationality, religion or gender.

Published by: League for Pastoral Peoples. Ober-Ramstadt, Germany, 2002



The League for Pastoral Peoples (LPP) is a non-profit organization devoted to advocacy and technical support to marginal livestock keepers, in particular pastoralists. It was founded in 1992 in Germany. Activities focus on research, training, capacity building and networking in co-operation with partner organizations. LPP promotes the concept of endogenous livestock development utilizing indigenous animal genetic resources and building on local institutions. For further information, contact:

League for Pastoral Peoples, Pragelatostrasse 20, 64372 Ober-Ramstadt, Germany. Internet www.pastoralpeoples.org, email: gorikr@t-online.de

We encourage organizations and individuals to photocopy and distribute this publication. Please credit the League for Pastoral Peoples if you do so.

Please note that some of the articles in Part 3 are copyrighted. They can be photocopied as part of this dossier but you would need permission of the copyright holder before you reproduce and distribute the articles for any other purpose.

Cover photos Top: Tzotzil livestock keeper in Chiapas, Mexico (Ellen Geerlings) Middle: Water transport in Niger (Wolfgang Bayer) Bottom: Farmer in Maharashtra, India (Ilse Köhler-Rollefson)

Cover design: Paul Mundy, Development Communication Specialist Editorial comments and advice on contents: Annette von Lossau, Management of Agrobiodiversity in Rural Areas, GTZ

Contents

Part 1: Putting the conservation and sustainable use of farm animal bree the international development agenda	
Why this dossier?	1
Biological and cultural diversity – treasures at stake	2
The Convention on Biodiversity	3
'Species', 'breed' and other definitions	4
Factors shaping diversity	4
Importance of local breeds	5
Why are breeds disappearing at such rate?	6 7 7 7 7
Local goats are as good as crossbreeds	
Revival of the Aubrac milking cow	
Preserving the one-humped camel in Rajasthan through camel milk marketing	
Conserving the South African Nguni through utilisation	
Chiapas sheep: Crossbreeding failures and a participatory breed improvement progra	amme 18
Part 3. Selected papers	20
Implementing the Convention on Biodiversity with respect to domestic animal diversity	y20
Africans manage livestock diversity	28

African cattle genetic resources: Their unique attributes and conservation through utilization for milk production	
Food insecurity and industrial animal farming4	10
Marketing rare breeds in sub-Saharan Africa6	30
Conserving the Aseel poultry6	38
Intellectual property rights regime necessary for traditional livestock raisers7	'2
Livestock biodiversity in the mountains/highlands – opportunities and threats7	'6
Part 4. Resources8	6
Organisations	36
Örganisations with regional or international focus8 National organisations	
List of abbreviations	39
Glossary9	<i>•</i>

Part 1: Putting the conservation and sustainable use of farm animal breeds on the international development agenda

Why this dossier?

Farm animal diversity is vanishing at an alarming rate. As industrial livestock production expands, it is relying on fewer and fewer breeds. Already, 15% of the world's livestock and poultry breeds are extinct, and another 35% are endangered. We are coming to depend on a livestock population with a dangerously narrow genetic base: because of their genetic uniformity, huge numbers of animals could be wiped out by a new disease.

Locally adapted animal breeds carry genetic material of immense value. These breeds must be conserved. The only realistic way to do so is by maintaining the production systems they are part of – by supporting the small farmers and pastoralists who manage these animals.

This dossier is intended for decision-makers and field staff from governmental and non-governmental institutions and organisations working on agriculture, livestock production, natural resources management, food security and other aspects of rural development in the South. The goal is to stimulate policy makers, project staff and members of grassroots organisations to support in their policies and actions the sustainable use and community-based management of farm animal breeds.

The twentieth century has witnessed spectacular advances in many areas, including agriculture and medicine. The consequences have been both positive and negative: extended human life spans, increased food production and other achievements stand against a staggering growth in population, widespread environmental degradation and the fact that about 826 million people, or about 13% of the world's population, still go hungry.¹

The development of high-performing livestock and poultry breeds has no doubt greatly contributed to the increase of food production, especially in temperate climates. But their indiscriminate export into tropical countries has often ended in failure, as the animals cannot stand the heat, need optimal inputs and readily succumb to disease. To overcome these weaknesses, the ongoing approach is the widespread promotion of crossbreeding high-yielding breeds with hardy and well-adapted local animals. The price of this and other developments is high: local breeds are disappearing at a rate of two breeds a week.² This has far-reaching consequences, not only for our generation but also for the generations to come.

Preventing further losses and conserving local breeds is not a romantic or nostalgic adventure; it is a must. The situation is urgent: we risk destroying valuable resources; reducing the world's ability to react to changing nutritional requirements, unforeseen diseases, and natural disasters; and endangering the food security not only of the poor but of us all. The loss of local breeds means a reduction of the part of the world that can be sustainably utilised by humankind.

To be effective, measures to maintain local breeds have to be as broad and diverse as possible and involve stakeholders at all levels: farmers and herders, staff of nongovernment organizations (NGOs) and extension services, government organizations (GOs), donors and policy makers from all over the world. So far activities have