



Federal Office
for Agriculture and Food

INFORMATION AND
COORDINATION CENTRE



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National programme on the conservation and sustainable use of AnGR in Germany

2003: The first National programme is adopted by the Conference of Agriculture Ministers (AMK)

2008: Updates regarding classification into risk categories

2021: The Conference of Agriculture Ministers approves a revised and updated version of the technical program

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National programme on the conservation and sustainable use of AnGR in Germany

Scope of Application

- Native breeds of livestock species regulated by animal breeding laws (horses, ass, cattle, pigs, sheep and goats)
- Native breeds of poultry (chickens, turkeys, ducks, geese and pigeons)
- Native rabbit breeds
- **New:** Honeybees

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What is a native German livestock breed?

- Laid down in the National animal breeding law (horses, ass, cattle, pigs, sheep and goats)
 - a breed for which a herd book was first established in Germany, **or**
 - a breed for which a herd book is now maintained and a breeding program is carried out exclusively in Germany, **or**
 - a breed for which a herd book has been maintained and an independent breeding program has been carried out in Germany since at least 1949
- Native poultry and rabbit breeds
-> definitions given by the National Advisory Board on AnGR
- Native honeybees
-> not yet defined

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Areas of action (in accordance with the Global Plan of Action)

- Characterisation, Monitoring, and Documentation
- Sustainable Use and Breeding Improvement
- Conservation
- Establishment of Framework Conditions

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Area of action 1:

Characterisation, Monitoring, and Documentation

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Characterisation

- Recording of pedigree data
- Conducting performance tests
- Recording specific traits
- Phenotypic and genetic data

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Monitoring and Documentation

- The National animal breeding law includes a separate section for monitoring genetic diversity of native livestock breeds
- Established structures: Annual population survey conducted (for all breeds) by the BLE-IBV
 - Publication in the Central Documentation of Animal Genetic Resources in Germany (TGRDEU)
 - Annual data export to DAD-IS/EFABIS
- Monitoring should, if possible, be expanded to include genetic parameters (pedigree/kinship) and genomic data

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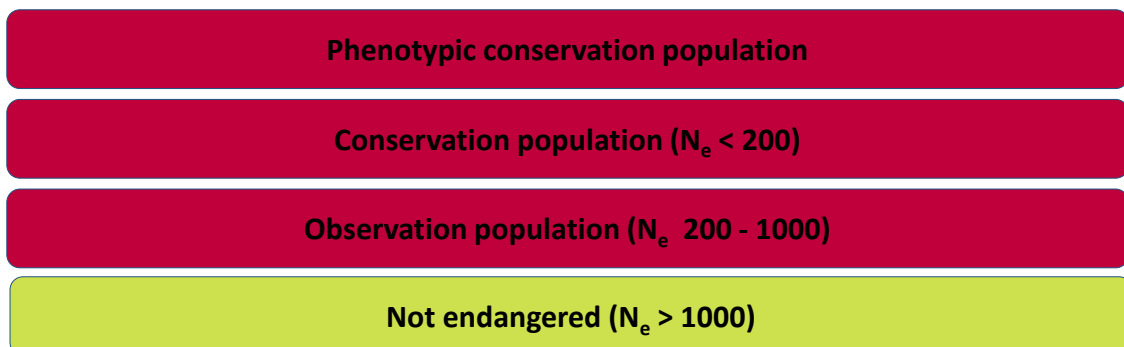
Monitoring and Documentation

- Risk assessment of **native breeds** conducted by the BLE in collaboration with the National Advisory Board on Animal Genetic Resources (laid down in the Animal Breeding Act) every two years
- Calculation of effective population size N_e (on the basis of numbers of male and female breeding animals; slightly different approach for rabbits and poultry)
- Classification of the breeds in one of four existing endangerment categories
- Classification as “endangered” is decisive for subsidies and derogations in breeding programmes (EU 2016/1012), in organic farming or in case of animal diseases

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Endangerment classification



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Red list of native livestock breeds

Published every tow years by the BLE (according to the renewal of the endangerment classification)



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Native German horse breeds – 14 out of 28 endangered



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Native German cattle breeds – 15 out of 21 endangered



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Native German pig breeds – 5 out of 5 endangered



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Native German sheep breeds – 22 out of 24 endangered



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Native German goat breeds – 3 out of 3 endangered



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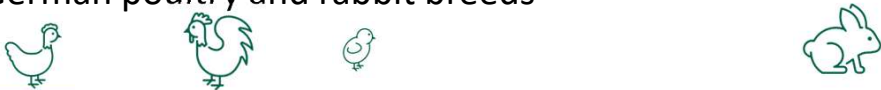
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	Horse	Ass	Cattle	Pig	Sheep	Goat	Overall
Native	28	2	21	5	24	3	83
NG - Not endangered	14	2	6	0	2	0	24
BEO - Observation population	5	0	7	4	17	3	36
ERH - Conservation population	3	0	7	1	5	0	16
PERH - Phenotypic conservation population	6	0	1	0	0	0	7

59 out of 83 (71 %) native breeds are endangered

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Native German poultry and rabbit breeds



64 out of 125 (51 %) native breeds are endangered

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Area of action 2:

Sustainable Use and Breeding Improvement

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Sustainable Use and Breeding Improvement

- Use of the breeds in agriculture, landscape management, etc. is the most sustainable way of conservation
- Improvement of traits/identification of special traits or characteristics **and** preservation of genetic variability within breeds
- Project funding by the Federal Ministry and other institutions
- Subsidies for breeders
(given by the Federal States)

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Area of action 3:

Conservation

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Conservation

In situ

- Breed societies
- BMLEH, BLE, FLI-ING
- Federal states (subsidies)
- NGOs and initiatives
- Universities

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Conservation

Ex situ

German Genebank for Farm Animal Breeds

- Established in 2016
- Located at the Institute of Farm Animal Genetics (ING) of the Friedrich-Loeffler Institute (FLI)
- Cooperation between Federal Ministry and Federal States

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Conservation

Ex situ

Project: "Optimizing the contribution of zoos to the ex situ in vivo conservation of endangered native livestock breeds" (Funded by the Federal Ministry)

- Cooperation between zoos and breed societies
- Education
- Information

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Area of action 4:

Establishment of Framework Conditions

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Establishment of Framework Conditions

National

- Various applicable laws and regulations
- National Advisory Board on AnGR as central institution (consulting of Federal Government, Federal States and breed societies)
- BLE-IBV as coordination and information centre
- Incorporation into research, development and training/education

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Establishment of Framework Conditions

International

FAO



National Coordinator for AnGR: Federal Ministry of Agriculture, Food and Regional Identity (BMLEH), Division for Animal Husbandry and Animal Breeding (Alternate NC: Jan Hendrik Schneider)

Member of the Intergovernmental Technical Working Group on AnGR (ITWG-AnGR)

National Focal Point for AnGR: BLE-IBV

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Establishment of Framework Conditions

International

ERFP

Working Group on Documentation and Information
Lisa Balzar (BLE-IBV)

Working Group on Ex situ conservation
Steffen Weigend (FLI-ING)

Working Group on In situ conservation
Holger Göderz (BLE-IBV)



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Establishment of Framework Conditions

International



European Union Reference Centre for Endangered Animal Breeds (EURC-EAB)

- Established in 2023
- BLE-IBV is part of the consortium (together with CGN (NL) and IDELE (FRA))

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Thank you for your attention!

Contact

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