



**Food and Agriculture
Organization of the
United Nations**

COMMISSION ON
GENETIC RESOURCES
FOR FOOD AND
AGRICULTURE



FAO activity report

September 2026

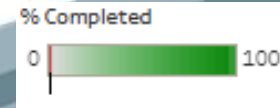
Gregoire Leroy, Philip Ajayi & Paul Boettcher





Overview

- Status of reporting in DAD-IS
- New DAD-IS development
- Support of implementation of the Global Plan of Action for Animal Genetic Resources
- 3rd State of the World Report process
- 14th session of the ITWG on Animal Genetic Resources for Food and Agriculture
- Call for action



Status of reporting in DAD-IS

As of 2026

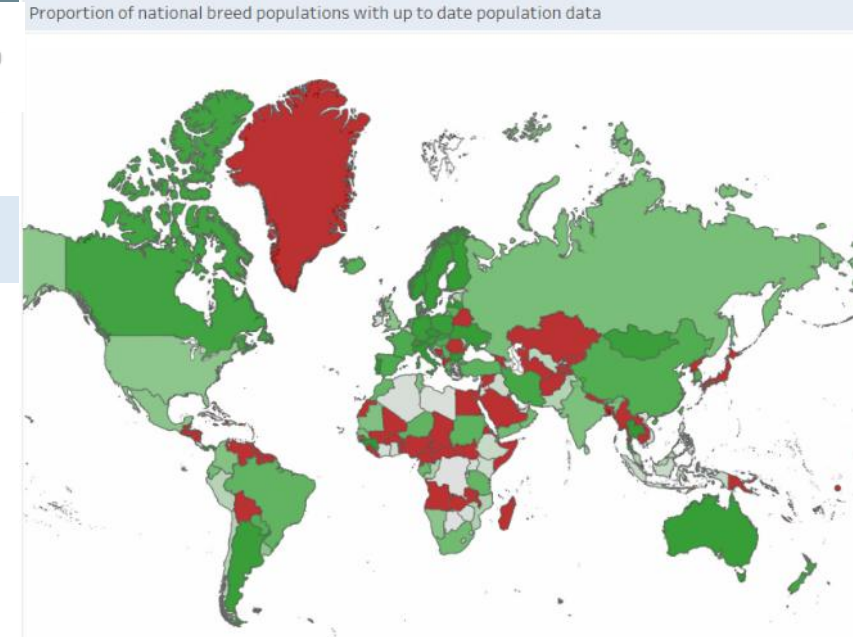
Population data

- 51% of countries with 100% of national breed populations outdated
- 5% of countries with 100% of national breed populations updated

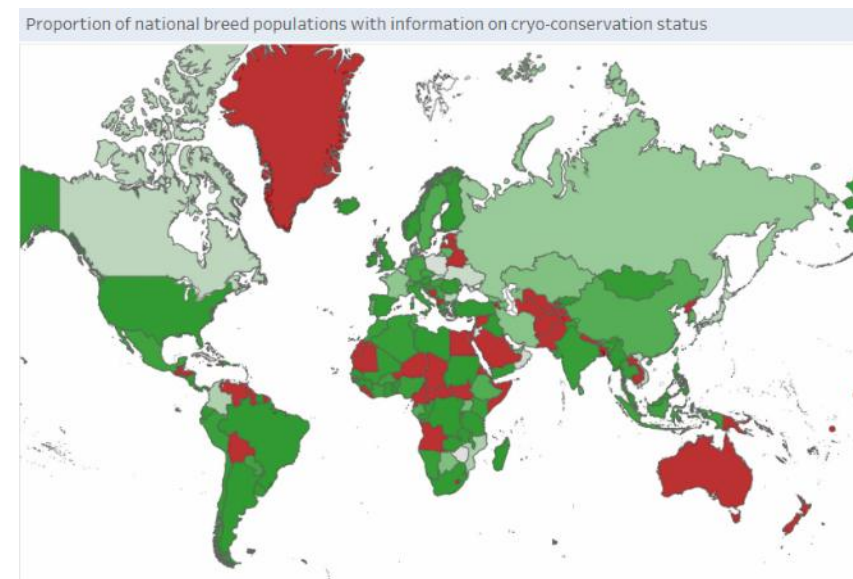
Progress in number of national breed populations with know status: 50% (57% in 2024)

Cryoconservation data

- 40% of countries with 100% of national breed populations without data
- 21% of countries with 100% of national breed populations updated



Proportion of national breed populations with up to date population data



Proportion of national breed populations with up to date cryoconservation data



Most recent updates in DAD-IS



In Europe and the Caucasus

- Out of 55 countries and territories, 22 made their last updates to DAD-IS in 2026 (as of 24th of August), and 12 in 2024-2025



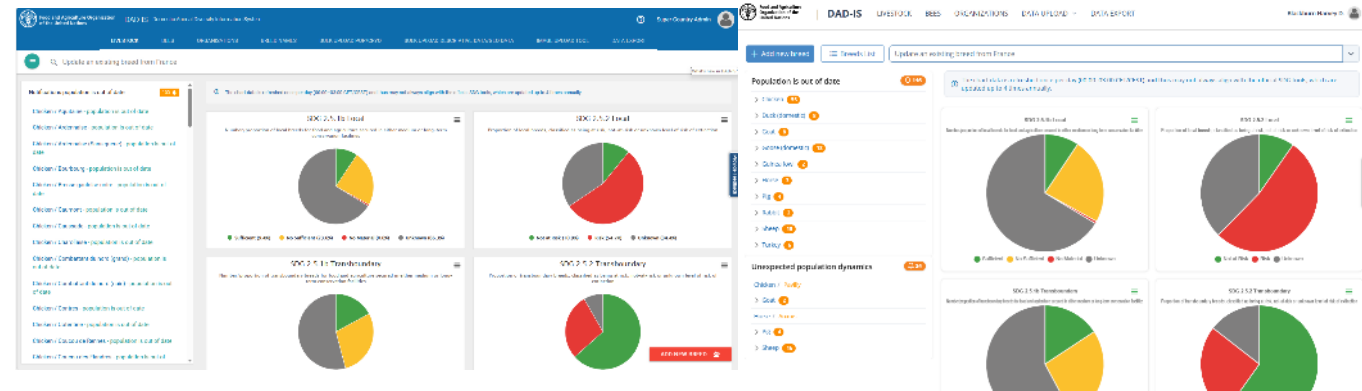
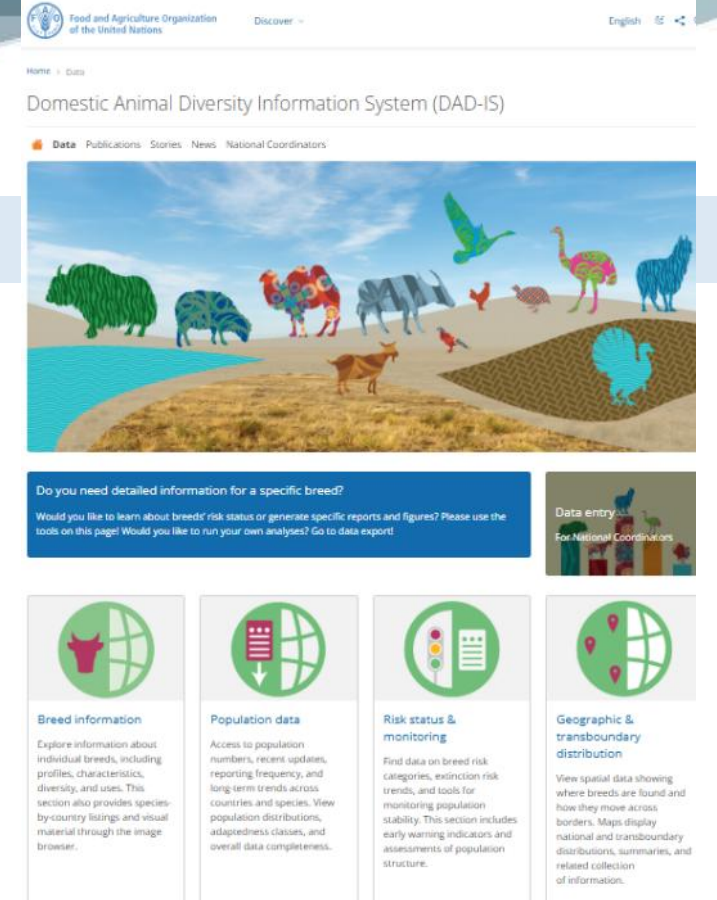
New DAD-IS developments

Migration requested to new environments

- Dissemination interface
 - Migration to Sitefinity
 - Completed in April

- Data entry
 - To be completed in August-September

Your feedback is welcome!
Use of ERFP survey!





Outreach

- In the context of case study collection for SoW3 process, around 20 cases displayed in DAD-IS
- Some animations generated for specific breeds
- Cases and animations advertised in FAO social networks

Success and other stories



STORY
Slovenia – Development of Digital Tools for the Conservation of Animal Genetic Resources
24/06/2020

Slovenia has established a coordinated national information system platform for managing animal genetic resources that connects public services....



STORY
Development and Implementation of a Web-based GIS for Registering and Monitoring the Livestock and Poultry Genetic Resources in Iran
17/06/2020

Given the critical importance of farm animal genetic resources (AnGR) to national sovereignty, food security, and agricultural resilience, it is imperative...



STORY
Decision-Support Tools for Conserving Indigenous Livestock in Asia (2009–2016)
09/06/2020

The UNEP-GEF-ILRI regional project (GEF ID 1902) developed and applied decision-support tools to guide conservation and sustainable use of indigenous...



STORY
The rescue of a breed: Cárdena Andaluza conservation activities
04/06/2020

Cárdena Andaluza is an endangered native cattle breed from southern Spain, adapted to drought and arid conditions and historically used as draught...



STORY
The Jaffna Local Sheep: A Forgotten Breed



STORY
From Forgotten Wool to Sustainable Production



STORY
Genetic Heritage and Modern Production of Arabian Horses



STORY
Case Study of Malawi: From Cattle to Small Ruminants



Food and Agriculture
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United Nations

Sheep breed
Linca

Population size
3000

Area: Argentina
Patagonia provinces of Rio Negro, Neuquén and Chubut

Fleece weight
(kg, average):
4

Adaptability to specific environment:
Adapted to the extensive conditions prevailing in the Northern Patagonia

Colours and phenotype information:
Double coverage fleece with a great diversity of colors.

Wool qualities:
double coat, long fiber length, softness, and a wide diversity of natural colors.

Management system:
Extensive (non back yard)

Feeding of adults:
Grazing

Mobility:
Stationary

Scan to learn more:

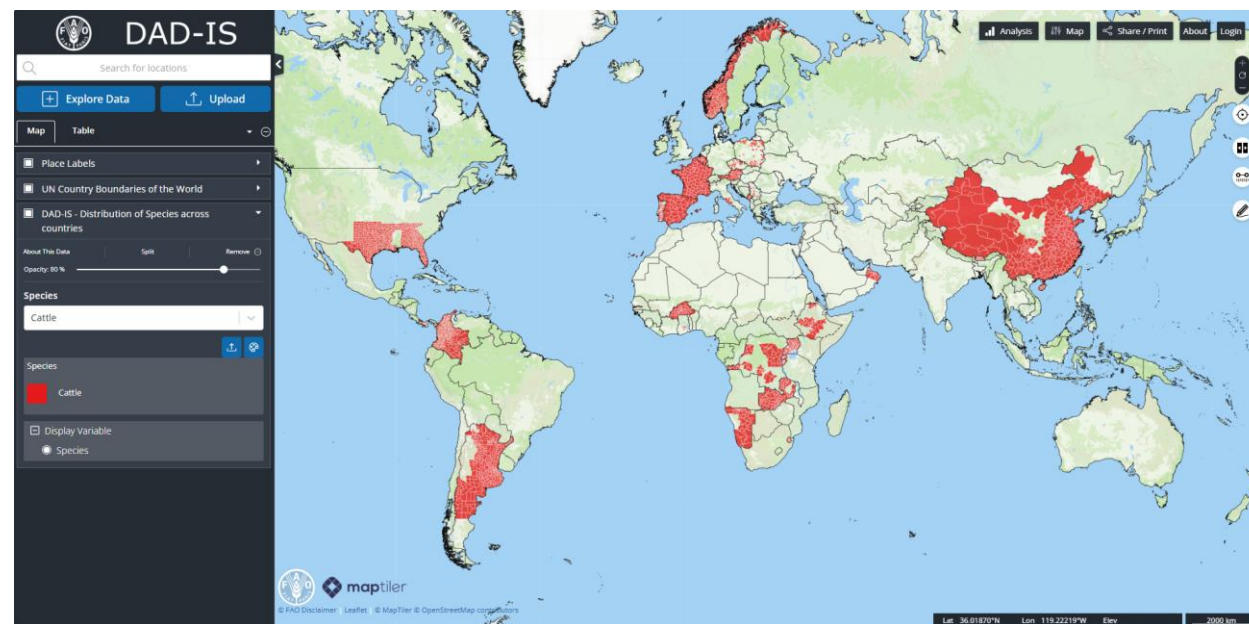




New DAD-IS tools: geographical distribution

- Launched in 2024
- Provide distribution of species, transboundary and local breeds within countries
- Two admin levels or reporting (e.g. regions and districts)
- Two kind of reporting:
 - Presence/absence
 - Number and density of animals
- As of August 2026, 38 countries had submitted data for 1142 national breed populations

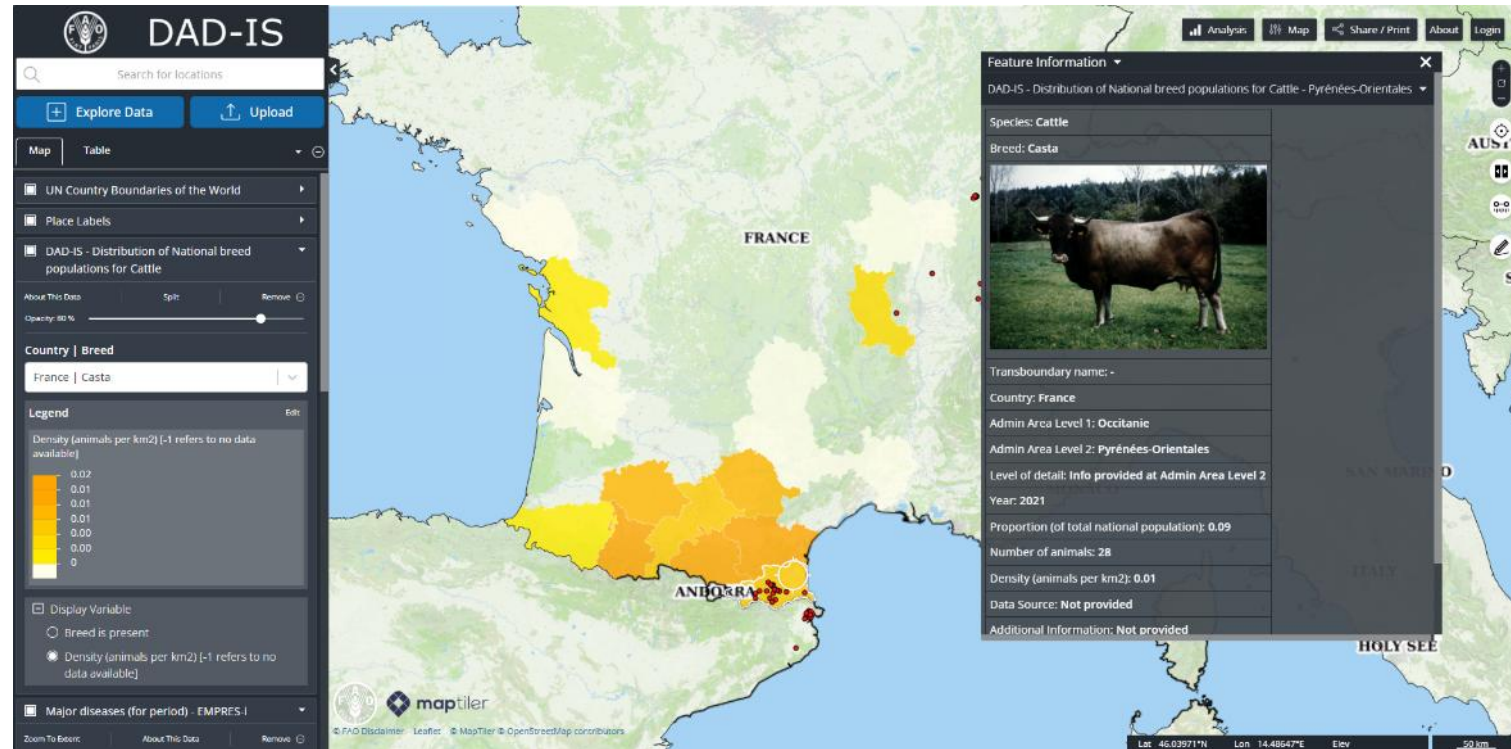
-> efforts in data entry needed!



Distribution of cattle species (i.e. all breeds reported) in the tool



- Hosted in the FAO Hand-in-Hand Geospatial platform
- Possibility to add other environmental and socio-economic layers
- This include animal disease events
 - > **Early warning tool!**



Casta cattle breed distribution and lumpy skin disease cases reported between September and November 2025



Conservation index (*in test*)

- Weight demographic risk (*in situ*) and cryoconservation (*in vitro*) to assess breed situation
- Local and transboundary (when relevant) indexes differentiated

-> Feedback welcome!

Conservation Index In vivo/In vitro (local and transboundary)



The conservation index is calculated by combining demographic risk status (*in vivo*) and cryoconservation status (*in vitro*). Numerical values are assigned to each category and averaged to produce a score ranging from 0 to 1, according to the matrix presented below.

Kindly note:
Breeds with only Local row are not considered transboundary.
Breeds with only Transboundary row are considered extinct in the country (but not globally).
Breeds extinct both locally and globally are excluded from this visualization.

CONSERVATION INDEX MATRIX

IN VITRO \ IN VIVO		IN VIVO						
		Not endangered	Vulnerable	Endangered maintained	Endangered	Critical Maintained	Critical	No information
IN VITRO	THRESHOLD	1	0,8	0,6	0,5	0,3	0,2	0
	1	1	0,9	0,8	0,75	0,65	0,6	0,5
	0,4	0,7	0,6	0,5	0,45	0,35	0,3	0,2
IN VITRO	0	0,5	0,4	0,3	0,25	0,15	0,1	0
	No material / Unknown							

- The concept: a single tool to report relevant AnGR info at country level

- > Feedback welcome!**





Support of implementation of the Global Plan of Action for Animal Genetic Resources

- Guidance document exploring disaster mitigation and recovery measures related to animal genetic resources
 - *Writing workshop conducted in October 2025*
 - *Draft for ITWG meeting*
- Development on FAO's cattle breed recognition tool
 - *One country (Austria) with full breed set (more than 100 validated pictures): **average precision 97.4%***
 - *50 breeds completed in total: **average precision 92.5%***
 - *Prototype application under test*
- Support on development of **animal identification** and **community-based breeding programmes** in 4 East African countries
- Two capacity building workshops for Asia and LAC countries
- National support in data collection for 6 African and 3 Caucasus countries

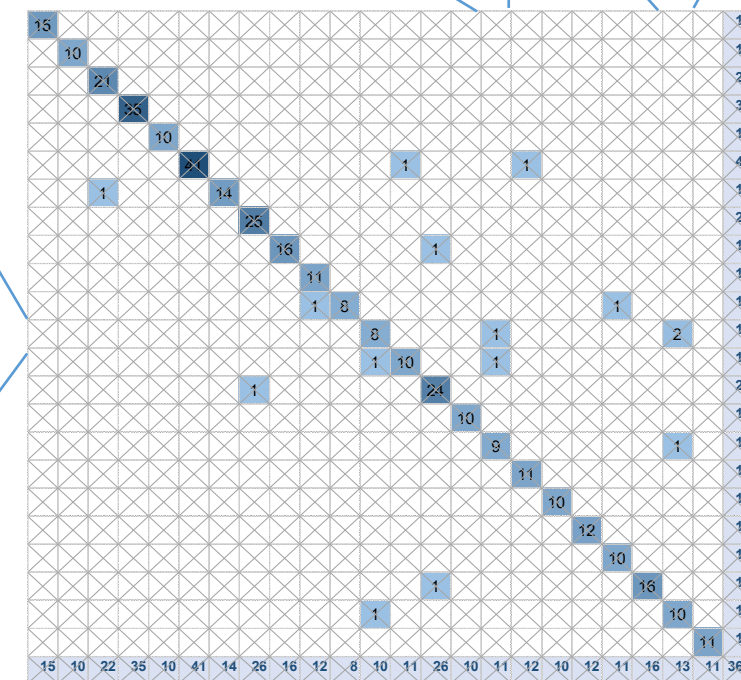
Charolais



Waldviertler
blondvieh



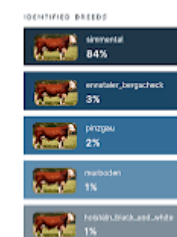
Karntner
blondvieh



Confusion matrix for the Austria dataset



FAO DAD-IS - Apps on Google Play
Google Play



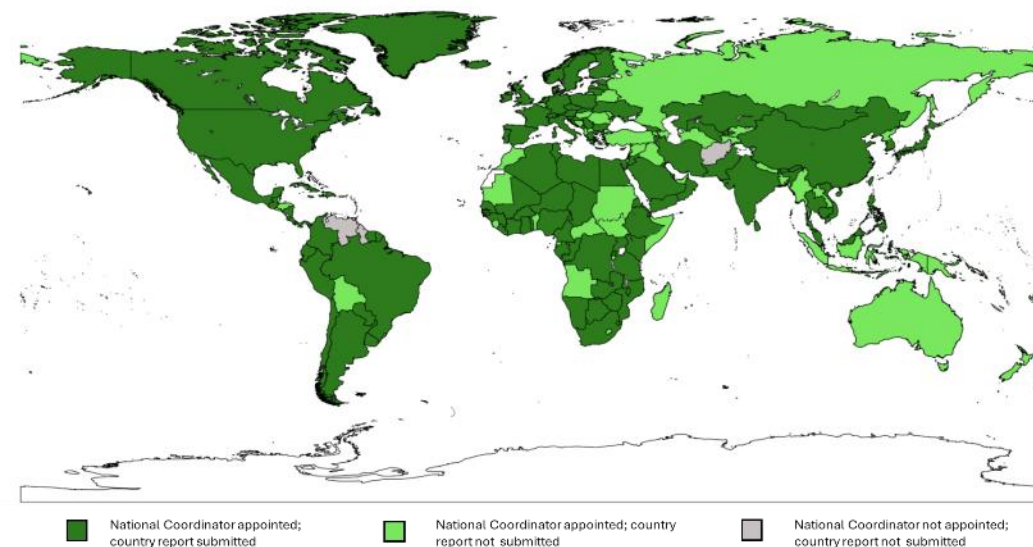
TRY AGAIN





Preparation of The Third Report on the State of the World's Animal Genetic Resources for Food and Agriculture

- Reports accepted from 112 countries and 11 organizations
 - 5 Thematic studies collected
 - More than 90 case studies (box) collected from more than 40 countries, to be used for the report or DAD-IS
 - Contributions from 75 authors from 26 countries
-
- Funding under FAO Regular Programme and German government support



Note: Figure refers to National Coordinators appointed as of July 2025.





Preparation of The Third Report on the State of the World's Animal Genetic Resources for Food and Agriculture

Review process

- Between 2024 and 2026, 7 webinars organized on the thematic studies and sections of the report
- Between December 2025 and June 2026, 61 comments received from 20 reviewers representing 13 countries

Next steps

- Full draft to be put online in September 2026
- Review by countries during the ITWG in November, and the CGRFA in March 2027

Intergovernmental Process	Preparation of the third report on the State of the World's Animal Genetic Resources for Food and Agriculture
Global Plan of Action	Invitation to FAO Members to provide written comments
National Implementation	The Commission on Genetic Resources for Food and Agriculture (the Commission), at its Nineteenth Regular Session in July 2023, reviewed and endorsed the proposed outline, process, questionnaire and timeline for the preparation of The Third Report on The State of the World's Animal Genetic Resources for Food and Agriculture (Third Report).
Regional collaboration	The Food and Agriculture Organization of the United Nations (FAO) invites Members to provide comments on the draft sections of the report, by 30 June 2026, to sow-an@fao.org.
Activities of international organizations	Section documents will be made available online in the table below as soon as they are ready for review. Please note that the complete version of the report will feature additional boxes and expanded content.
Reporting System	Documents are available at:
Countries	
Regions	
International organizations	
Reporting processes	
Third report on the State of the World's AnGR	
Funding Strategy	
Call for support	

Sections	Date posted online	Revision deadline
Part 1. The state of livestock diversity		
• Status and trends of Animal Genetic Resources	• 19/12/2025	• 15/02/2026
• Drivers of change in the livestock sector	• 03/06/2026	• 01/07/2026
• Effects of changes on Animal Genetic Resources	• 03/06/2026	• 01/07/2026
• Roles, uses and values of Animal Genetic Resources	• 19/12/2025	• 15/02/2026
Part 2. The state of knowledge and capacities in animal genetic resources management		
• Institutions and Stakeholders	• 25/03/2026	• 24/05/2026

Activity	2025												2026												2027					
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6
Mobilize funding																														
Review of draft special topic studies																														
Submit/update questionnaires																														
Update data in DAD-IS																														
Export DAD-IS data for Third Report																														
Provide comments on draft Third Report																														
Provide comments on revised draft Third Report																														
Presentation to ITWG-AnGR-14																														
Presentation to CGRFA-21																														





14th Session of the ITWG on Animal Genetic Resources for Food and Agriculture

- Planned dates: 25-27 November 2026
- + Global National Coordinator Workshop: 23-24 November
- Main issue to be addressed
 - Preparation of the *Third Report on the State of the World's Animal Genetic Resources for Food and Agriculture*
 - The status of implementation of the Global Plan of Action for Animal Genetic Resources, including its eventual updating
 - Monitoring the diversity of AnGR (includes DAD-IS);
 - Climate change and animal genetic resources for food and agriculture; and
 - Review of the Commission on Genetic Resources for Food and Agriculture's Strategic Plan and Multi-Year Programme of Work



Call for Action

- Please review the 3rd SoW report draft
- Please update DAD-IS and the ALL the new data fields you requested
- Please send cattle pictures (<https://cattle-image-retrieval-microservice-tzpoevo4wq-ew.a.run.app/>)
- If you have questions contact:
 - Paul.Boettcher@fao.org
 - Gregoire.Leroy@fao.org
 - Dad-is@fao.org