منظمة الأغذية والزراعة للأم المتحدة 联合国粮食及农业组织

Food and Agriculture Organization of the United Nations



Organisation des Nations Unies pour l'alimentation et l'agriculture Продовольственная и сельскохозяйственная организация Объединенных Наций Organización de las Naciones Unidas para la Alimentación y la Agricultura

# **Country report**

supporting the preparation of

The Second Report on the State of the World's Animal Genetic
Resources for Food and Agriculture,
including sector-specific data contributing to

The State of the World's Biodiversity for Food and Agriculture

- 2013 -

Country: Kyrgyzstan

## I. EXECUTIVE SUMMARY

Please provide an executive summary (not more than two pages) that will allow national and international stakeholders to gain a quick overview of the content of the country report. The executive summary should contain information on:

- key trends and driving forces affecting animal genetic resources management in your country;
- strengths, weaknesses and gaps in capacity to manage animal genetic resources in your country;
- key constraints and challenges with respect to animal genetic resources management in your country;
- priorities and strategic directions for future action (focusing particularly on the next ten years).
- 1) In recent years, Kyrgyzstan has been a steady demand for all types of animal products, which led to a trend of increasing the number of animals. Demand for livestock products is high and Kyrgyzstan in the region, as well as on the world market, because it is of high quality and environmentally very clean. Livestock production Kyrgyzstan exported in large quantities (often smuggled) to neighbouring countries, as well as in other foreign countries. And this demand for livestock products in Kyrgyzstan is one of the determining factors of management of animal genetic resources.
- 2) Strengths genetic resources management: centuries of experience breeding and animal farmers, which is transmitted from generation to generation, good communication between farmers, compact country; sufficiently high level of education of farmers;

Weaknesses: lack of good public policy, good legislative framework, institutional development, an acute shortage of financial, material and technical resources, poor processing of animal products and low profitability of the industry, the lack of new technology, knowledge of farmers, poor scientific support, weak management and marketing and much more.

- 3) Lack of modern public policy in the livestock sector, the legislative and regulatory framework, weak institutional development, the absence of the National Strategy and Action Plan, the natural form of farming, no proxy authentication animals, weak veterinary software, lack of modern information database of genetic data bank poor knowledge of farmers, poor training and advisory service, weak scientific support, lack of new technology and others.
- 4) Formation of modern public policy, legislative and regulatory framework, institutional development, creation and development of the secondary market of land and the creation of large agricultural producers, particularly in livestock, development of the National Strategy and Action Plan, the creation and development of modern processing plants modern management and marketing, animal identification, introduction of new technologies, modern scientific and other software.

# II. DATA FOR UPDATING THE PARTS AND SECTIONS OF THE STATE OF THE WORLD'S ANIMAL GENETIC RESOURCES FOR FOOD AND AGRICULTURE

## FLOWS OF ANIMAL GENETIC RESOURCES

<ol> <li>Studies of gene flow in animal genetic resources have generally concluded that most gene flow occurs either between developed countries or from developed countries to developing countries. Does this correspond to the pattern of gene flow into and out of your country?</li> <li>For developed countries, exceptions to the usual pattern would include significant imports of genetic resources from developing countries. For developing countries, exceptions would include significant exports of genetic resources to developed countries, and/or significant imports and/or exports of genetic resources to/from other developing countries.</li> <li>yes</li> <li>no</li> </ol>
<ul> <li>yes but with some significant exceptions</li> </ul>
1.1. If you answer "no" or "yes but with some significant exceptions", please provide further details. Please include information on: which species are exceptions and which regions of the world are the sources and/or destinations of the respective genetic material.  Gene flow of animals goes to Kyrgyzstan from developed countries: USA, Germany, France, Britain, Australia and other
countries.
<ul> <li>2. Have there been any significant changes in patterns of geneflow in and out of your country in the last ten years?</li> <li>yes</li> <li>no</li> </ul>
<ul> <li>2.1. If yes, please indicate whether this view is based on quantified data (e.g. import and export statistics collected by the government).</li> <li>yes</li> <li>no</li> </ul>
2.2. If yes, please provide references (preferably including web links) (if relevant, indicate which types of animal genetic resources are covered).
Cattle, sheep, goats, horses, pigs, chickens covered animals from other countries.
2.3. Please also describe the changes, indicating the species involved, the direction of the changes, and the regions of the world to and from which the patterns of imports and exports have changed.  Noticeable changes have occurred in sheep, poultry, goat breeding.
3. Please describe how the patterns of geneflow described under Questions 1 and 2 affect animal genetic resources and their management in your country.  Note: Please answer this question even if the pattern of geneflow into and out of your country corresponds to the "usual" pattern described in the first sentence of Question 1 and/or has not changed significantly in the last ten years.  In otsevodstve, there were notable fix in poultry

### LIVESTOCK SECTOR TRENDS

4. Please indicate the extent to which the following trends or drivers of change have affected or are predicted to affect animal genetic resources and their management in your country and describe these effects.

Note: Relevant impacts on animal genetic resources and their management might include, for example, changes in the type of animal genetic resources kept (e.g. different breeds or species), changes in the uses to which animal genetic resources are put, changes in the geographical distribution of different types of animal genetic resources, increases or decreases in the number of breeds at risk of extinction, changes in the objectives of breeding programmes, changes in the number or type of conservation programmes being implemented, etc. In the text sections, please briefly describe the changes. If possible, provide some concrete examples of the challenges or opportunities presented by the respective drivers and the actions taken to address these challenges or opportunities. If relevant, you may also indicate why a given driver is not affecting animal genetic resources and their management in your country. For a general discussion of drivers of change, please see The State of the World's Animal Genetic Resources for Food and Agriculture

(Part 2, Section A) (http://www.fao.org/docrep/010/a1250e/a1250e00.htm).

Drivers of change	Impact on animal genetic resources and their management over last ten years	Future impact on animal genetic resources and their management (predicted for the next ten years)	Describe the effects on animal genetic resources and their management
Changing demand for livestock products (quantity)	medium	medium	Of course, change of animal genetic resources. Increase the number of species, they stanovyats genetically more diverse and more productive.
Changing demand for livestock products (quality)	medium	medium	Of course, the quality of livestock products will grow as the market makes higher demands on product quality. This is well understood by farmers, they have already become engaged in the cultivation of genetically good animals.
Changes in marketing infrastructure and access	medium	medium	No doubt there will be changes vmarketinge and access for livestock products in Kyrgyzstan, in accordance with the development of the industry, market relations of regional and global trends.
Changes in retailing	medium	medium	In retail trade will also be changes to the type, quantity and quality of products.
Changes in international trade in animal products (imports)	high	high	In principle, Kyrgyzstan can provide a fully self- produced animal products. But will act laws of the market and there may be some changes occur.
Changes in international trade in animal products (exports)	high	high	In the export of livestock products from Kyrgyzstan, too, can be strong changes occur when you consider the high quality and ecological purity of the product. Today Kyrgyzstan for livestock products are in high demand, both in the region and in the world market.
Climatic changes	medium	medium	Despite the fact that climate change in Kyrgyzstan will be significant, their impact on genetic resources will consider average.
Degradation or improvement of grazing land	medium	medium	Yes, there is a tendency of deterioration of pastures of Kyrgyzstan as increasing the number of animals and pasture improvement is very poorly.
Loss of, or loss of access to, grazing land and other natural resources	medium	medium	Yes, there may be a situation.
Economic, livelihood or lifestyle factors affecting the popularity of livestock keeping	medium	medium	Livestock production in the coming years will be a popular deyast and economic dependence on it is not too small.

Drivers of change	Impact on animal genetic resources and their management over last ten years	Future impact on animal genetic resources and their management (predicted for the next ten years)	Describe the effects on animal genetic resources and their management
Replacement of livestock functions	none	none	The fact that livestock in many mountainous regions of the country is the only kind of employment and income.
Changing cultural roles of livestock	low	low	The role of livestock in Kyrgyzstan will change very little.
Changes in technology	low	low	Technology changes, but unfortunately slowly.
Policy factors	low	low	Political factors can have a small vliyanieokazhutmaloevliyanie.
Disease epidemics	medium	medium	Epidemic in Kyrgyzstan remain at the average level.

### **OVERVIEW OF ANIMAL GENETIC RESOURCES**

5. Please provide the number of locally adapted and exotic breeds kept in your country.

Data on the number of breeds is needed in order to calculate the percentage of breeds subject to the various management activities that are covered in this questionnaire. In line with the request of the Commission on Genetic Resources for Food and Agriculture at its Fourteenth Regular Session (CGRFA-14/13/Report, paragraph 31), FAO will implement the "locally adapted" vs. "exotic breed" classification system in the Domestic Animal Diversity Information System (DAD-IS). Once countries have fully updated their breed lists and classified all breeds in DAD-IS, it will be possible to use these data to obtain the numbers of breeds in each category.

Species	Locally adapted breeds	Exotic breeds
Cattle (specialized dairy)	2	1
Cattle (specialized beef)	0	0
Cattle (multipurpose)	1	0
Sheep	6	1
Goats	2	1
Pigs	2	0
Chickens	2	1

#### **CHARACTERIZATION**

To provide further details of your country's activities in the field of characterization, surveying and monitoring, please go to Strategic Priority Area 1 of the "Progress report on the implementation of the Global Plan of Action for Animal Genetic Resources 2007–2013" (below).

6. Please provide an overview of the current state of characterization in your country by indicating the extent to which the activities shown in the following table have been carried out.

Note: Please focus on characterization studies that have been conducted within the last ten years (baseline surveys of population size may have been conducted in the more distant past). Recall that some types of characterization study on your country's breeds may have been conducted outside your country. For the first two columns, please insert the number of breeds; for columns 3 to 8 please choose one of the following categories: none; low (approximately <33%); medium (approximately 33–67%); high (approximately >67%).

Species	Baseline survey of population size	Regular monitoring of population size	Phenotypic characterization	Molecular genetic diversity studies – within breed	Genetic diversity studies based on pedigree	Molecular genetic diversity studies – between breed	Genetic variance component estimation	Molecular genetic evaluation
Cattle (specialized dairy)	3	3	high	low	low	low	low	none
Cattle (specialized beef)	0	0	high	low	low	low	low	none
Cattle (multipurpose)	1	1	high	low	low	low	low	none
Sheep	3	3	high	none	low	none	low	none
Goats	2	2	high	none	low	none	low	none
Pigs	0	0	medium	none	low	none	low	none
Chickens	1	1	medium	none	low	none	low	none

## INSTITUTIONS AND STAKEHOLDERS

To provide further details of your country's activities in the field of institutions and stakeholders, please go to Strategic Priority Area 4 of the "Progress report on the implementation of the Global Plan of Action for Animal Genetic Resources 2007–2013" (below).

7. Please indicate the state of your country's capacities and provisions in the following areas of animal genetic resources management.

	Score
Education	low
Research	low
Knowledge	medium
Awareness	high
Infrastructure	low
Stakeholder participation	low
Policies	low
Policy implementation	low
Laws	low
Implementation of laws	low

8. Please provide further information regarding your country's capacities in each of the above-mentioned areas of management. If relevant, please indicate what obstacles or constraints your country faces in each of these areas and what needs to be done to address these constraints. You may also provide information on any particular successes achieved in your country in any of these areas and on the reasons for these successes.

areas and on the reaso	is for these successes.
	Description
Education	Level of education remains low: the old curriculum, weak materilano technical base, the lack of modern laboratories, weak applicants and other.
Research	Research in animal husbandry is in a critical position: negligible funding, no moderns laboratories, weak material and technical base, the absence of national priorietets, programs, old frames, no young people, there is no motivation for research and other.
Knowledge	Weak, there is no incentive for a good knowledge.
Awareness	All the people who are engaged in livestock know the whole situation very well.
Infrastructure	Weak
Stakeholder participation	Weak
Policies	Weak
Policy implementation	Weak
Laws	Weak
Implementation of laws	Weak

9. What steps have been taken in your country to engage or empower the various stakeholders in animal genetic resources management (e.g. establishment of livestock keepers' organizations, development of biocultural community protocols)?

Note: Biocultural community protocol: a document that is developed after a community undertakes a consultative process to outline their core cultural and spiritual values and customary laws relating to their traditional knowledge and resources. For a discussion of the potential role of biocultural community protocols in the conservation of animal genetic resources, please see the guidelines In vivo conservation of animal genetic resources (http://www.fao.org/docrep/018/i3327e/i3327e.pdf).

Kyrgyzstan has created Livestock association, izuchyuatsya local breed associated traditional knowledge, books are published.

#### **BREEDING PROGRAMMES**

Note: Breeding programmes: systematic and structured programmes for changing the genetic composition of a population towards a defined breeding goal (objective) to realize genetic gain (response to selection), based on objective performance criteria. Breeding programmes typically contain the following elements: definition of breeding goal; identification of animals; performance testing; estimation of breeding values; selection; mating; genetic gain and transfer of genetic gain. Breeding programmes are usually operated either by a group of livestock breeders organized in a breeders' association, community-based entity or other collective body; by a large commercial breeding company; or by the government.

To provide further details of your country's activities in the field of breeding programmes, please go to Strategic Priority Area 2 of the "Progress report on the implementation of the Global Plan of Action for Animal Genetic Resources 2007–2013" (below).

10. Who operates breeding programmes in your country?

Note: the objective of this question is to identify which stakeholders lead or organize the breeding programmes that exist in your country. Stakeholder participation in the implementation of the various elements of breeding programmes is covered under Question 15. If you wish to provide further information on the activities of the various stakeholder groups (including collaborative activities on an

international scale), please provide it in the text section of Question 15.

international scale), please provide	il iii liie lext se		JII IJ.				
Species	Government	Livestock keepers organized at community level	Breeders' associations or cooperatives	National commercial companies	External commercial companies	Non-governmental organizations	Others
Cattle (specialized dairy)	yes	yes	no	no	no	no	no
Cattle (specialized beef)	yes	yes	no	no	no	no	no
Cattle (multipurpose)	yes	yes	no	no	no	no	no
Sheep	yes	yes	no	no	no	no	no
Goats	yes	yes	no	no	no	no	no
Pigs	no	no	no	no	no	no	no
Chickens	no	no	yes	no	no	no	no

10.1. If you choose the option "others", please indicate what kind of operator(s) this refers to. No other operators.

### 11. For how many breeds in your country are the following activities undertaken?

Note: Please do not include activities that are only undertaken for experimental purposes, i.e. include only activities that directly serve or involve livestock keepers. However, please include activities even if they do not at present form part of a breeding programme. The intention is to obtain an indication of whether the "building blocks" of a breeding programme are available or being developed in your country. Loc = Locally adapted breeds; Ex = Exotic breeds.

				То	ols			
Species	- Animal identification	Breeding goal defined	Performance recording	Pedigree recording	Genetic evaluation (classic approach)	Genetic evaluation including genomic information	Management of genetic variation (by maximizing effective population size or minimizing rate of inbreeding)	Artificial insemination
	Loc Ex	Loc Ex	Loc Ex	Loc Ex	Loc Ex	Loc Ex	Loc Ex	Loc Ex

12. Please indicate how many of the breeds in your country are subject to breeding programmes applying the following breeding methods.

Note: Loc = Locally adapted breeds; Ex = Exotic breeds.

	Breeding method				
Species	Straight/pure-breeding only  Straight/pure-breeding and cross-breeding				
	Loc	Ex	Loc	Ex	

13. Please indicate the state of research and training in the field of animal breeding in your country.

Species	Training	Research
Cattle (specialized dairy)	low	low
Cattle (specialized beef)	low	low
Cattle (multipurpose)	low	low
Sheep	low	low
Goats	low	low
Pigs	none	none
Chickens	none	none

14. Please indicate the extent to which livestock keepers in your country are organized for the

purposes of animal breeding.

Species	Organization of livestock keepers
Cattle (specialized dairy)	low
Cattle (specialized beef)	low
Cattle (multipurpose)	low
Sheep	low
Goats	low
Pigs	none

Species	Organization of livestock keepers
Chickens	low

## 15. Please indicate the level of stakeholder involvement in the various elements of breeding programmes in your country.

Note: If your country has different types of breeding programme, the level of involvement of the various stakeholders may vary from one type of programme to another. In answering this question please try to indicate the overall degree of involvement of the various stakeholder groups.

stakeholder groups.  Cattle (specialized dairy)	Government	Research organizations	Breeders' associations or cooperatives	Individual breeders/livestock keepers	National commercial companies	External commercial companies	Non-governmental organizations	Others
Setting breeding goals	none	medium	none	low	none	none	none	none
Animal identification	none	low	none	low	none	none	none	none
Recording	none	low	none	low	none	none	none	none
Provision of artificial insemination services	low	low	none	low	none	none	none	none
Genetic evaluation	low	low	none	none	none	none	none	none

Cattle (specialized beef)	Government	Research organizations	Breeders' associations or cooperatives	Individual breeders/livestock keepers	National commercial companies	External commercial companies	Non-governmental organizations	Others
Setting breeding goals	none	low	none	none	none	none	none	none
Animal identification	none	low	none	none	none	none	none	none
Recording	low	low	none	none	none	none	none	none
Provision of artificial insemination services	low	low	none	low	none	none	none	none
Genetic evaluation	none	low	none	none	none	none	none	none
Cattle (multipurpose)	Government	Research organizations	Breeders' associations or cooperatives	Individual breeders/livestock keepers	National commercial companies	External commercial companies	Non-governmental organizations	Others
Setting breeding goals	none	low	none	low	none	none	none	none
Animal identification	none	none	none	none	none	none	none	none
Recording	none	none	none	none	none	none	none	none
Provision of artificial insemination services	none	low	none	low	none	none	none	none
Genetic evaluation	none	none	none	none	none	none	none	none

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Sheep	Government	Research organizations	Breeders' associations or cooperatives	Individual breeders/livestock keepers	National commercial companies	External commercial companies	Non-governmental organizations	Others
Setting breeding goals	none	low	none	none	none	none	none	none
Animal identification	none	low	none	none	none	none	none	none
Recording	none	low	none	none	none	none	none	none
Provision of artificial insemination services	low	low	none	low	none	none	none	none
Genetic evaluation	none	low	none	none	none	none	none	none
Goats	Government	Research organizations	Breeders' associations or cooperatives	Individual breeders/livestock keepers	National commercial companies	External commercial companies	Non-governmental organizations	Others
Setting breeding goals	none	low	none	none	none	none	none	none
Animal identification	none	low	none	none	none	none	none	none
Recording	none	low	none	none	none	none	none	none
Provision of artificial insemination services	none	none	none	none	none	none	none	none
Genetic evaluation	none	low	none	none	none	none	none	none

Pigs	Government	Research organizations	Breeders' associations or cooperatives	Individual breeders/livestock keepers	National commercial companies	External commercial companies	Non-governmental organizations	Others
Setting breeding goals	none	none	none	none	none	none	none	none
Animal identification	none	none	none	none	none	none	none	none
Recording	none	none	none	none	none	none	none	none
Provision of artificial insemination services	none	none	none	none	none	none	none	none
Genetic evaluation	none	none	none	none	none	none	none	none
Chickens	Government	Research organizations	Breeders' associations or cooperatives	Individual breeders/livestock keepers	National commercial companies	External commercial companies	Non-governmental organizations	Others
Setting breeding goals	none	none	none	none	none	none	none	none
Animal identification	none	none	none	none	none	none	none	none
Recording	none	none	none	none	none	none	none	none
Provision of artificial insemination services	none	none	none	none	none	none	none	none
Genetic evaluation	none	none	none	none	none	none	none	none

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Horses	Government	Research organizations	Breeders' associations or cooperatives	Individual breeders/livestock keepers	National commercial companies	External commercial companies	Non-governmental organizations	Others
Setting breeding goals	none	low	none	none	none	none	none	none
Animal identification	none	low	none	low	none	none	none	none
Recording	none	low	none	low	none	none	none	none
Provision of artificial insemination services	none	none	none	none	none	none	none	none
Genetic evaluation	none	none	none	none	none	none	none	none
Yaks	Government	Research organizations	Breeders' associations or cooperatives	Individual breeders/livestock keepers	National commercial companies	External commercial companies	Non-governmental organizations	Others
Setting breeding goals	none	none	none	none	none	none	none	none
Animal identification	none	none	none	none	none	none	none	none
Recording	none	none	none	none	none	none	none	none
Provision of artificial insemination services	none	none	none	none	none	none	none	none
Genetic evaluation	none	none	none	none	none	none	none	none

# 15.1. If you choose the option "others", please indicate what kind of operator(s) this refers to.

15.2. Please provide further information on the roles that the stakeholders identified in the table play in the implementation of the various activities. If relevant, please also provide further information on the organizational roles played by the stakeholders identified in Question 10.

Only interested scientific organizations and some farmers.

16. Does your country implement any policies or programmes aimed at supporting breeding

programmes or influencing their objectives?

Species	Policies or programmes
Cattle (specialized dairy)	no
Cattle (specialized beef)	no
Cattle (multipurpose)	no
Sheep	no
Goats	no
Pigs	no
Chickens	no

16.1. Please describe these policies or programmes, indicating whether or not they include any measures specifically aimed at supporting breeding programmes for locally adapted breeds or any measures specifically aimed at supporting breeding programmes for exotic breeds (including breed-replacement programmes). Please indicate whether different types of programme are promoted in

different production systems (and describe the differences).

Species	Description of policies or programmes
Cattle (specialized dairy)	-
Cattle (specialized beef)	-
Cattle (multipurpose)	-
Sheep	-
Goats	-
Pigs	-
Chickens	-

17. Please describe the consequences of your country's breeding policies and programmes, or lack of breeding policies and programmes, for your country's animal genetic resources and their

management.

Species	Description of consequences
Cattle (specialized dairy)	Lack of policy breeding animals, of course, affect the low genetic value, low productivity and low returns for farmers.
Cattle (specialized beef)	-//-
Cattle (multipurpose)	-//-
Sheep	-//-
Goats	-//-
Pigs	-//-
Chickens	-//-

18. Please describe the main constraints to the implementation of breeding programmes in your country and what needs to be done to address these constraints. You may also provide information on any particular successes achieved in your country with respect to the establishment and operation of breeding programmes and on the factors that have contributed to these successes.

Lack of public policy, weak legal framework, weak institutional development, natural form of management, poor processing and low-income farmers, extreme conditions of high mountains, poor knowledge, lack of new technology, weak scientific support and much more. What should I do? It is necessary to shape public policy, it is necessary to implement, develop good laws and that they were working to develop the processing industry, to increase profitability of farmers, educate them, provide them with consultancy services, introduce new technologies and much more. I work in a lot of livestock, coordinated research, created the breed (Merino Kyrgyz mountain), developed the first investment project of the World Bank for the development of sheep in Kyrgyzstan, participated in the development strategies of livestock, sheep, was a member of the Government Commission on the reform in agriculture, taught the students engaged in scientific research, now take part in the development of the National Strategy and action Plan of genetic resources of Kyrgyzstan.

19. Please describe future objectives, priorities and plans for the establishment or further

development of breeding programmes in your country.

Species	Description of future objectives, priorities and plans				
Cattle (specialized dairy)	Develop a development strategy to create the Association to develop processing plants develop good laws				
Cattle (specialized beef)	-//-				
Cattle (multipurpose)	-//-				
Sheep	-//-				
Goats	-//-				
Pigs	-//-				
Chickens	-//-				

### CONSERVATION

To provide further details of your country's activities in the field of conservation, please go to Strategic Priority Area 3 of the "Progress report on the implementation of the Global Plan of Action for Animal Genetic Resources 2007–2013" (below).

20. Please provide an indication of the extent to which your country's breeds are covered by conservation programmes.

Please focus on at-risk breeds and breeds for which there are serious grounds for concern about their potential to fall into the at-risk category in the near future. Countries should not reduce their scores because of a lack of conservation programmes for breeds that are clearly not at risk. The main purpose of this question is to obtain an indication of the extent to which your country's conservation programmes meet the objective of protecting breeds from extinction. If your country has no official national criteria for classifying breed risk status or lacks the relevant data for identifying which breeds are at risk, please base your answers on estimations. Please also note that Question 8 of the "Progress report on the implementation of the Global Plan of Action for Animal Genetic Resources - 2007 to 2013" (below) requests countries to provide information on the criteria they use to assess the risk status of animal genetic resources.

Note: n/a = no programmes implemented because all breeds of this species present in the country are secure.

Species	In situ conservation	Ex situ in vivo conservation	Ex situ in vitro conservation
Cattle (specialized dairy)	low	low	none
Cattle (specialized beef)	low	low	none
Cattle (multipurpose)	low	low	none
Sheep	low	low	none
Goats	none	low	none

Species	In situ conservation	Ex situ in vivo conservation	Ex situ in vitro conservation
Pigs	none	low	none
Chickens	none	low	none

21. Do	es vour	country use	e formal	approaches t	to prioritize	breeds for	or conservation?
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### 21.1. If so, which of the following factors are considered?

Note: See Sections 2 and 3 of the FAO guidelines In vivo conservation of animal genetic resources (http://www.fao.org/docrep/018/

i3327e/i3327e.pdf).

	Considered in formal prioritization approaches
Risk of extinction	no
Genetic uniqueness	no
Genetic variation within the breed	no
Production traits	yes
Non-production traits	no
Cultural or historical importance	yes
Probability of success	yes

22. Please indicate which of the following methods are used as elements of in situ conservation programmes in your country and which operators are managing them.

Note: Operators: the sector(s) that initiate(s) and manage(s) the respective activities. If both sectors undertake the respective activity, please answer "yes" in both rows. Please answer "yes" if the respective sector only works with some of the species targeted. If necessary, details of which sector addresses which species can be provided in the textual response. Information on what kinds of public- or private-sector organizations undertake the activities can also be provided, if necessary, in the textual response. Species targeted: Please answer "yes" if there are any such activities targeting the respective species, whether they are undertaken by the

public sector, private sector or both.

Operators / Species targeted	Promotion of niche marketing or other market differentiation	Community-based conservation programmes	Incentive or subsidy payment schemes for keeping at-risk breeds	Development of biocultural community protocols	Recognition/award programmes for breeders	Conservation breeding programmes	Selection programmes for increased production or productivity in at-risk breeds	Promotion of at-risk breeds as tourist attractions	Use of at-risk breeds in the management of wildlife habitats and landscapes	Promotion of breed-related cultural activities	Extension programmes to improve the management of at-risk breeds	Awareness-raising activities providing information on the potential of specific at-risk breeds
Public sector	yes	yes	no	no	yes	yes	yes	no	no	no	no	no
Private sector	no	yes	no	no	no	yes	yes	no	no	no	no	no
Cattle (specialized dairy)	yes	yes	no	no	yes	yes	yes	no	no	no	no	no

Operators / Species targeted	Promotion of niche marketing or other market differentiation	Community-based conservation programmes	Incentive or subsidy payment schemes for keeping at-risk breeds	Development of biocultural community protocols	Recognition/award programmes for breeders	Conservation breeding programmes	Selection programmes for increased production or productivity in at-risk breeds	Promotion of at-risk breeds as tourist attractions	Use of at-risk breeds in the management of wildlife habitats and landscapes	Promotion of breed-related cultural activities	Extension programmes to improve the management of at-risk breeds	Awareness-raising activities providing information on the potential of specific at-risk breeds
Cattle (specialized beef)	no	no	no	no	no	yes	no	no	no	no	no	no
Cattle (multipurpose)	yes	yes	no	no	yes	yes	yes	no	no	no	no	no
Sheep	no	no	no	no	no	yes	yes	no	no	no	no	no
Goats	no	no	no	no	no	no	yes	no	no	no	no	no
Pigs	no	no	no	no	no	no	no	no	no	no	no	no
Chickens	no	no	no	no	no	no	no	no	no	no	no	no

22.1. Please provide further details of the activities recorded in the table and any other in situ conservation activities or programmes being implemented in your country.

Developed strategies livestock development, sheep, horse breeding and they are implemented in the state of tribal enterprises.

23. Do	es your country have an operational in vitro gene bank for animal genetic resources?
In vitro ge	ne bank: a collection of documented cryoconserved genetic material, primarily stored for the purpose of medium- to long-term
conserva	ion, with agreed protocols and procedures for acquisition and use of the genetic material.
$\circ$	ves
•	00

23.1. If your country has no in vitro gene bank for animal genetic resources, does it have plans to develop one?

yesno

23.2. If yes, please describe the plan	ns.	

24. If your country has an in vitro gene bank for animal genetic resources, please indicate what kind of material is stored there.

Kiria di materiario didica triordi	
	Stored in national genebank
Semen	yes

	Stored in national genebank
Embryos	no
Oocytes	no
Somatic cells (tissue or cultured cells)	no
Isolated DNA	no

25. If your country has an in vitro gene bank for animal genetic resources, please complete the following table.

Species	Number of breeds for which material is stored	Number of breeds for which sufficient material is stored	Does the collection include material from not-at-risk breeds?	Have any extinct populations been reconstituted using material from the gene bank?	Have the gene bank collections been used to introduce genetic variability into an in situ population?	Have the gene bank collections been used to introduce genetic variability into an ex situ population?	Do livestock keepers or breeders' associations participate in the planning of the gene banking activities?
Cattle (specialized dairy)	0	0	no	no	yes	yes	yes
Cattle (specialized beef)	0	0	no	no	no	no	no
Cattle (multipurpose)	0	0	no	no	yes	yes	yes
Sheep	0	0	no	no	no	no	no
Goats	0	0	no	no	no	no	no
Pigs	0	0	no	no	no	no	no
Chickens	0	0	no	no	no	no	no

25.1. Please provide further details of the activities recorded in the table (including any examples of the use of gene bank material to reconstitute populations or introduce genetic variability) and any other in vitro conservation activities or programmes being implemented in your country.

Kyrgyzstan has a database only for cattle and they are used in genetic improvement of livestock. For other types of animals such genetic databank is missing.

26. Does your country have plans to enter into collaboration with other countries to set up a

regional or subregional in vitro gene bank for animal genetic resources?

yes

•	no											
26.1.	If yes,	please o	describe	the plan	s, includ	ding a lis	t of the	count	tries in	volved		

	27. If there have been any cases in your country in which breeds that were formerly classified as at
	risk of extinction have recovered to a position in which they are no longer at risk, please list the
	breeds and describe how the recovery was achieved.
1	

No, there was no such animal breeds.

### REPRODUCTIVE AND MOLECULAR BIOTECHNOLOGIES

28. Please indicate the level of availability of reproductive and molecular biotechnologies for use in livestock production in your country.

Note: low = at experimental level only; medium = available to livestock keepers in some locations or production systems; high = widely

available to livestock keepers.

available to investock keepers.									
		Biotechnologies							
	ion		er				uc	or	
	Artificial insemination	sfer	ovulation oryo transfer	б	vitro fertilization		Genetic modification	Molecular genetic or genomic information	ion of Je
	li inse	transfer		sexing	fertil	_	pou :	lar ge ic info	Transplantation gonadal tissue
	tificia	Embryo	Multiple and emb	Semen		Cloning	enetic	Molecular genomic i	Transpla gonadal
Species	₹	ū	ā≥	Ň	ㅁ	Ū	9	Σŏ	i i

28.1. Please provide additional information on the use of these biotechnologies in your country.

No, not used molecular technologies in animal Kyrgyzstan.

29. If the reproductive and/or molecular technologies are available for use by livestock keepers in your country, please indicate which stakeholders are involved in providing the respective services to the livestock keepers.

		Stakeholders				
	Public sector	Breeders' associations or cooperatives	National non-governmental organizations	Donors and development agencies	National commercial companies	External commercial companies
Artificial insemination	yes	yes	yes	yes	no	no
Embryo transfer	yes	yes	no	no	no	no

29.1. Please provide additional information on the roles that the providers identified in the table play in the provision of biotechnology services in your country.

Great services they can not provide, no money, no equipment, professionals, knowledge.

30. Please indicate which biotechnologies your country is undertaking research on.

Biotechnologies	Public or private research at national level	Research undertaken as part of international collaboration
Artificial insemination	no	no
Embryo transfer or MOET	no	no
Semen sexing	no	no
In vitro fertilization	no	no
Cloning	no	no
Genetic modification	no	no
Use of molecular genetic or genomic information for estimation of genetic diversity	no	no
Use of molecular genetic or genomic information for prediction of breeding values	no	no
Research on adaptedness based on molecular genetic or genomic information	no	no

30.1.	Please	briefly	describe	the	research.

31. Please estimate the extent to which artificial insemination (using semen from exotic and/or locally adapted breeds) and/or natural mating is used in your country's various production systems. Note: low = approximately < 33% of matings; medium = approximately 33-67% of matings; high = approximately > 67% of mating; n/a = production system not present in this country.

Ranching or similar grassland -based production systems	Pastoralist systems	Mixed farming systems (rural areas)	Industrial systems	Small-scale urban or peri-urban systems
medium	medium	low	none	low
none	none	none	none	none
low	none	low	none	low
high	high	high	none	low
Ranching or similar grassland -based production systems	Pastoralist systems	Mixed farming systems (rural areas)	Industrial systems	Small-scale urban or peri-urban systems
none	none	none	none	none
none	none	none	none	none
low	none	low	none	none
	Ranching or similar grassland book and	Ranching or similar grassland -based production systems -based product	Ranching or similar grassland -based production systems -based product	Ranching or similar grassland based production systems low none low high high none none none low high lindustrial systems  Ranching or similar grassland high high none none none low high low none none low high lindustrial systems

Cattle (multipurpose)	Ranching or similar grassland -based production systems	Pastoralist systems	Mixed farming systems (rural areas)	Industrial systems	Small-scale urban or peri-urban systems
Artificial insemination using semen from locally adapted breeds	low	low	low	medium	low
Artificial insemination using nationally produced semen from exotic breeds	none	none	none	none	none
Artificial insemination using imported semen from exotic breeds	low	low	low	low	low
Natural mating	high	high	high	none	medium
Sheep	Ranching or similar grassland -based production systems	Pastoralist systems	Mixed farming systems (rural areas)	Industrial systems	Small-scale urban or peri-urban systems
Artificial insemination using semen from locally adapted breeds	low	low	low	none	low
Artificial insemination using nationally produced semen from exotic breeds	none	none	none	none	none
Artificial insemination using imported semen from exotic breeds	none	none	none	none	none
	high	high	high	none	none

Goats	Ranching or similar grassland -based production systems	Pastoralist systems	Mixed farming systems (rural areas)	Industrial systems	Small-scale urban or peri-urban systems
Artificial insemination using semen from locally adapted breeds	low	low	low	none	low
Artificial insemination using nationally produced semen from exotic breeds	none	none	none	none	none
Artificial insemination using imported semen from exotic breeds	low	none	low	none	low
Natural mating	high	high	high	none	low
Pigs	Ranching or similar grassland -based production systems	Pastoralist systems	Mixed farming systems (rural areas)	Industrial systems	Small-scale urban or peri-urban systems
Artificial insemination using semen from locally adapted breeds	none	none	none	none	none
Artificial insemination using nationally produced semen from exotic breeds	none	none	none	none	none
Artificial insemination using imported semen from exotic breeds	none	none	none	none	none
Natural mating	none	none	none	none	none

		1			
Chickens	Ranching or similar grassland -based production systems	Pastoralist systems	Mixed farming systems (rural areas)	Industrial systems	Small-scale urban or peri-urban systems
Artificial insemination using semen from locally adapted breeds	low	low	low	low	low
Artificial insemination using nationally produced semen from exotic breeds	none	none	none	none	none
Artificial insemination using imported semen from exotic breeds	none	none	low	low	low
Natural mating	medium	high	high	none	none
Horses	Ranching or similar grassland -based production systems	Pastoralist systems	Mixed farming systems (rural areas)	Industrial systems	Small-scale urban or peri-urban systems
Artificial insemination using semen from locally adapted breeds	none	none	none	none	none
Artificial insemination using nationally produced semen from exotic breeds	none	none	none	none	none
Artificial insemination using imported semen from exotic breeds	none	none	none	none	none
Natural mating	high	high	high	none	medium

Yaks	Ranching or similar grassland -based production systems	Pastoralist systems	Mixed farming systems (rural areas)	Industrial systems	Small-scale urban or peri-urban systems
Artificial insemination using semen from locally adapted breeds	none	none	none	none	none
Artificial insemination using nationally produced semen from exotic breeds	none	none	none	none	none
Artificial insemination using imported semen from exotic breeds	none	none	none	none	none
Natural mating	high	high	high	none	none

32. Please provide further details on the use of reproductive and molecular biotechnologies in animal genetic resources management in your country. Please note any particular constraints to implementing these activities and any problems associated with their use. Please indicate what needs to be done to address these constraints and/or problems. You may also provide information on any particular successes achieved in your country in the use of biotechnologies in animal genetic resources management and on the factors that have contributed to these successes.

Modern biotechnology in animal reproduction methods are not used.

# III. DATA CONTRIBUTING TO THE PREPARATION OF THE STATE OF THE WORLD'S BIODIVERSITY FOR FOOD AND AGRICULTURE

# INTEGRATION OF THE MANAGEMENT OF ANIMAL GENETIC RESOURCES WITH THE MANAGEMENT OF PLANT, FORESTRY AND AQUATIC GENETIC RESOURCES

1. Please indicate the extent to which the management of animal genetic resources in your country is integrated with the management of plant, forestry and aquatic genetic resources. Please describe the collaboration, including, if relevant, a description of the benefits gained by pursuing a collaborative approach.

Extent of collaboration

Development of joint national strategies or action plans

Collaboration in the characterization, surveying or monitoring of genetic resources, production environments or ecosystems

Collaboration Description

none

none

	Extent of	Description
	collaboration	
Collaboration related to product development and/or marketing	none	
Collaboration in conservation strategies, programmes or projects	none	
Collaboration in awareness-raising on the roles and values of genetic resources	none	
Training activities and/or educational curricula that address genetic resources in an integrated manner	none	
Collaboration in the mobilization of resources for the management of genetic resources	none	
2. Please describe any other types of colla	boration.	
No		
3. If relevant, please describe the benefits the management of genetic resources in the country. If specific plans to increase collaboration for seen.  Such cooperation would lead to a more rational and	he animal, poration are	in place, please describe them and the
4. Please describe any factors that facilitat management of genetic resources in your		ain collaborative approaches to the
Joint planning, information is the main factor to imp	rove the joint	work of the above areas.
5. If there are constraints, please indicate	what needs	s to be done to overcome them.
No special restrictions, simply. It dates to the various	us ministries th	nat are poorly working together.
ANIMAL GENETIC RESOURCES MANA AND SUPPORTING ECOSYSTEM SERV		ND THE PROVISION OF REGULATING
6. Do your country's policies, plans or stra measures specifically addressing the roles services and/or supporting ecosystem services.	of livestock	nimal genetic resources management include in the provision of regulating ecosystem
2005. Ecosystems and human well-being: synthesis. Was documents/document.356.aspx.pdf), page 40. Supporting ecosystem services" – Millennium Ecosystem Assessment Island Press (available at http://millenniumassessment.or	shington D.C., Is g ecosystem ser nt. 2005. Ecosys	stems and human well-being: synthesis. Washington D.C.,
○ yes • no		
<ul><li>no</li></ul>		
6.1. If yes, please describe these measure	es and indica	ate which supporting and/or regulating

ecosystem services are targeted, and in which production systems.

Examples of supporting and regulatory ecosystem services provided by livestock might include the following: provision of maintenance of wildlife habitats (e.g. via grazing); seed dispersal (e.g. in dung or on animals' coats); promoting plant growth (e.g. stimulating growth via grazing or browsing); soil formation (e.g. via the supply of manure); soil nutrient cycling (e.g. via supply of manure); soil quality regulation (e.g. affecting soil structure and water-holding capacity via trampling or dunging); control of weeds and invasive species (e.g. via grazing or browsing invasive plants); climate regulation (e.g. by promoting carbon sequestration through dunging); enhancing pollination levels (e.g. by creating habitats for pollinators); fire control (e.g. by removal of biomass that may fuel fires); avalanche control (e.g. grazing to keep vegetation short to reduce the probability that snow will slide); erosion regulation (e.g. indirect via fire control services); maintenance of water quality and quantity (e.g. indirect effect via erosion control); management of crop residues (e.g. consumption of unwanted crop residues by animals); pest regulation (e.g. by destruction of pests or pest habitats); disease regulation (e.g. by destruction of disease vectors or their habitats); buffering of water quantities – flood regulation (e.g. indirect effect via fire and erosion control).
6.1.1 Please describe what the outcome of these measures has been in terms of the supply of the respective ecosystem services (including an indication of the scale on which these outcomes have been obtained).
6.1.2 Please describe what the outcome of these measures has been in terms of the state of animal genetic resources and their management (including an indication of the scale on which these outcomes have been obtained).
7. Do your country's policies, plans or strategies for animal genetic resources management include measures specifically addressing environmental problems associated with livestock production? Examples might include choosing to use particular species or breeds because they are less environmentally damaging in a given ecosystem or adapting breeding goals to produce animals that have some characteristic that makes them more environmentally friendly.  O yes  no
7.1. If yes, please describe these measures and indicate the environmental problems that are targeted, and in which production systems.
7.1.1 Please describe what the outcome of these measures has been in terms of the reduction of the respective environmental problem (including an indication of the scale on which these outcomes have been obtained).
7.1.2 Please describe what the outcome of these measures has been in terms of the state of animal genetic resources and their management (including an indication of the scale on which these outcomes have been obtained).
8. Please describe any constraints or problems encountered or foreseen in the implementation of measures in your country aimed at promoting the provision of regulating and supporting ecosystem services or reducing environmental problems.  Primarily the demand for livestock products, weak laws, ekoloicheskaya psaeleniya illiteracy and other
TEDIDADIV DE DEDADO IOLIVESIOCK DIOCUCIS, WEAK JAWS, EKOLOICOESKAVA DSAEJEDIVA JUITETACY ADO OTDET

9. Please provide examples of cases in which the role of livestock or specific animal genetic resources is particularly important in the provision of regulating and/or supporting ecosystem services in your country. Please also describe any examples in which diverse animal genetic resources are important in terms of reducing the adverse environmental effects of livestock production.

Reasonable number of animals needed for overgrazing, different kinds of animals are also important for the use of pastures at different altitudes, such as yaks live only on high areas where other species can not be.

10. Please describe the potential steps that could be taken in your country to further expand or strengthen positive links between animal genetic resources management and the provision of regulating and/or supporting ecosystem services or the reduction of environmental problems. If your country has specific plans to take further action in this field, please describe them.

Determining the optimum number of animals per unit area of pasture and its regulation is a major factor for conservation and ecosystem management in Kyrgyzstan.

11. Please provide any further information on the links between animal genetic resources management in your country and the provision of supporting and/or regulating ecosystem services and/or the reduction of environmental problems.

Development of the legal framework of natural resources use are examined animals.

# IV. PROGRESS REPORT ON THE IMPLEMENTATION OF THE GLOBAL PLAN OF ACTION FOR ANIMAL GENETIC RESOURCES – 2007 TO 2013

Note: Please provide further details in the text boxes below each question, including, if relevant, information on why no action has been taken.

# STRATEGIC PRIORITY AREA 1: CHARACTERIZATION, INVENTORY AND MONITORING OF TRENDS AND ASSOCIATED RISKS

- The state of inventory and characterization of animal genetic resources
- The state of monitoring programmes and country-based early warning and response systems
- The state of international technical standards and protocols for characterization, inventory, and monitoring

1. V	Which of the following options best describes your country's progress in building an	inventory of
its a	animal genetic resources covering all livestock species of economic importance (SP	1, Action 1)?
Glos	ssary: An inventory is a complete list of all the different breeds present in a country.	

$\bigcirc$	a. Completed before the adoption of the GPA
$\bigcirc$	b. Completed after the adoption of the GPA
$\bigcirc$	c. Partially completed (further progress since the adoption of the GPA)
•	d. Partially completed (no further progress since the adoption of the GPA)

Please provide further details:

Earlier, an inventory was made, but now it's lost. Now taking steps to conduct an inventory of cattle.

2. Which of the following options best describes your country's progress in implementing phenotypic characterization studies covering morphology, performance, location, production environments and specific features in all livestock species of economic importance (SP 1, Actions 1 and 2)?

$\bigcirc$	a. Comprehensive studies were undertaken before the adoption of the GPA
$\circ$	b. Sufficient information has been generated because of progress made since the adoption of the GPA
$\bigcirc$	c. Some information has been generated (further progress since the adoption of the GPA)
$\circ$	d. Some information has been generated (no further progress since the adoption of the GPA)
$\circ$	e. None, but action is planned and funding identified
$\circ$	f. None, but action is planned and funding is sought
•	g. None
Please	provide further details:
chara	cich of the following options best describes your country's progress in molecular cterization of its animal genetic resources covering all livestock species of economic tance (SP 1)?
0	a. Comprehensive studies were undertaken before the adoption of the GPA
$\bigcirc$	b. Sufficient information has been generated because of progress made since the adoption of the GPA
0	c. Some information has been generated (further progress since the adoption of the GPA)
$\circ$	d. Some information has been generated (no further progress since the adoption of the GPA)
0	e. None, but action is planned and funding identified
0	f. None, but action is planned and funding is sought
•	g. None
	provide further details:
/ Has	s your country conducted a baseline survey of the population status of its animal genetic
	rces for all livestock species of economic importance (SP 1, Action 1)?
	y: A baseline provides a reference point for monitoring population trends. Population status refers to the total size of a national opulation (ideally, also the proportion that is actively used for breeding and the number of male and female breeding animals).  a. Yes, a baseline survey was undertaken before the adoption of the GPA
$\circ$	b. Yes, a baseline survey has been undertaken or has commenced after the adoption of the GPA
$\circ$	c. Yes, a baseline survey has been undertaken for some species (coverage increased since the adoption of the GPA)
$\circ$	d. Yes, a baseline survey has been undertaken for some species (coverage not increased since the adoption of the GPA)
0	e. No, but action is planned and funding identified
$\circ$	f. No, but action is planned and funding is sought
0	g. No
Please	provide further details:
	zstan has always been studied previously.
count	ve institutional responsibilities for monitoring the status of animal genetic resources in your ry been established (SP 1, Action 3)?  y: Monitoring is a systematic set of activities undertaken to document changes in the population size and structure of animal
genetic	resources over time.
•	a. Yes, responsibilities established before the adoption of the GPA
$\circ$	b. Yes, responsibilities established after the adoption of the GPA

$\bigcirc$	c. No, but action is planned and funding identified
$\bigcirc$	d. No, but action is planned and funding is sought
$\bigcirc$	e. No
Please	provide further details:
In Kyrg	yzstan, long work on genetic improvement of livestock breeds created good.
	ve protocols (details of schedules, objectives and methods) been established for a programme nitor the status of animal genetic resources in your country (SP 2)?  a. Yes, protocols established before the adoption of the GPA
$\bigcirc$	b. Yes, protocols established after the adoption of the GPA
$\circ$	c. No, but action is planned and funding identified
$\circ$	d. No, but action is planned and funding is sought
$\circ$	e. No
Please	provide further details:
Status	of genetic resources is always controlled.
	the population status and trends of your country's animal genetic resources being monitored rly for all livestock species of economic importance (SP 1, Action 2)?  a. Yes, regular monitoring commenced before the adoption of the GPA
$\circ$	b. Yes, regular monitoring commenced after the adoption of the GPA
$\circ$	c. Yes, regular monitoring is being undertaken for some species (coverage increased since the adoption of the GPA)
$\circ$	d. Yes, regular monitoring is being undertaken for some species (coverage not increased since the adoption of the GPA)
$\bigcirc$	e. No, but action is planned and funding identified
$\bigcirc$	f. No, but action is planned and funding is sought
•	g. No
Please	provide further details:
(SP 1, Glossar)	ich criteria does your country use for assessing the risk status of its animal genetic resources Action 7)?  y: FAO has developed criteria that it uses to allocate breeds to risk-status categories based on the size and structure of their ons (http://www.fao.org/docrep/010/a1250e/a1250e00.htm).  a. FAO criteria
	b. National criteria that differ from the FAO criteria
	c. Other criteria (e.g. defined by international body such as European Union)
•	d. None
Please	provide further details. If applicable, please describe (or provide a link to a web site that describes) your national or those of the respective international body:
	s your country established an operational emergency response system (http://www.fao.org/ o/meeting/021/K3812e.pdf) that provides for immediate action to safeguard breeds at risk in

all important livestock species (SP 1, Action 7)?

Page 30 of 48

a. Yes, a comprehensive system was established before the adoption of the GPA
<ul> <li>b. Yes, a comprehensive system has been established since the adoption of the GPA</li> </ul>
<ul> <li>c. For some species and breeds (coverage expanded since the adoption of the GPA)</li> </ul>
<ul> <li>d. For some species and breeds (coverage not expanded since the adoption of the GPA)</li> </ul>
<ul> <li>e. No, but action is planned and funding identified</li> </ul>
f. No, but action is planned and funding is sought
● g. No
Please provide further details:
10. Is your country conducting research to develop methods, technical standards or protocols for phenotypic or molecular characterization, or breed evaluation, valuation or comparison? (SP 2, Action 2)
<ul> <li>a. Yes, research commenced before the adoption of the GPA</li> </ul>
<ul> <li>b. Yes, research commenced after the adoption of the GPA</li> </ul>
C. No, but action is planned and funding identified
O d. No, but action is planned and funding is sought
○ e. No
Please provide further details:
Phenotypic standards for breeds developed a long time ago and for all breeds.
<ul> <li>11. Has your country identified the major barriers and obstacles to enhancing its inventory, characterization and monitoring programmes?</li> <li>a. Yes</li> <li>b. No</li> </ul>
c. No major barriers and obstacles exist. Comprehensive inventory, characterization and monitoring programmes
are in place.  Please provide further details. If barriers and obstacles have been identified, please list them:
ricase previde farther details. If partiete and epistastice have peet flactitudes, predect flot them.
12. If applicable, please list and describe the measures that need to be taken to address these barriers and obstacles and to enhance your country's inventory, characterization and monitoring programmes:
To increase inventory to start need funds then economic mechanisms to make its farmers themselves.
13. Please provide further comments on your country's activities related to Strategic Priority Area 1: Characterization, inventory and monitoring of trends and associated risks (including regional and international cooperation)
Note: It is not necessary to duplicate information provided in previous sections. Where relevant, please

Inventory is very important for Kyrgyzstan. Yes, it is necessary to develop a methodology for monitoring. Risks, of course, will be, as in the neighboring countries have no inventory.

provide cross-references.

The state of national sustainable use policies for animal genetic resources
The state of national species and breed development strategies and programmes
The state of efforts to promote agro-ecosystem approaches

<ul> <li>b. Yes, policies put in place or updated after the adoption of the GPA</li> <li>c. No, but action is planned and funding identified</li> <li>d. No, but action is planned and funding is sought</li> <li>e. e. No</li> </ul> Please provide further details. If available, please provide the text of the policies or a web link to the text: 15. Do these policies address the integration of agro-ecosystem approaches into the management of animal genetic resources in your country (SP5) (see also questions 46 and 54)? Glossary: The ecosystem approach is a strategy for the integrated management of land, water and living resources that promotes consorvation and sustainable use in an equitable way (for further information see http://www.cbd.infecosystem/description.shimi). <ul> <li>a. Yes</li> <li>b. No, but a policy update is planned and funding identified</li> <li>c. No, but action is planned and funding is sought</li> <li>e. d. No</li> </ul> Please provide further details: 16. Do breeding programmes exist in your country for all major species and breeds, and are these programmes regularly reviewed, and if necessary revised, with the aim of meeting foreseeable economic and social needs and market demands (SP4, Action 2)? <ul> <li>e. a. Yes, since before the adoption of the GPA</li> <li>b. Yes, put in place after the adoption of the GPA</li> <li>c. For some species and breeds (coverage has not increased since the adoption of the GPA)</li> <li>d. For some species and breeds (coverage has not increased since the adoption of the GPA)</li> <li>e. No, but action is planned and funding identified</li> <li>f. No, but action is planned and funding identified</li> <li>f. No, but action is planned and funding identified</li> <li>f. No, but action is planned and funding is sought</li> <li>g. No</li> </ul> Please provide further details: Selection program in Kyrgyzstan are available for all types and breeds of animals, they have been previously developed. Yes, they are corrected.		oes your country have adequate national policies in place to promote the sustainable use of al genetic resources (see also questions 46 and 54)?  a. Yes, since before the adoption of the GPA
<ul> <li>d. No, but action is planned and funding is sought</li> <li>e. No</li> <li>Please provide further details. If available, please provide the text of the policies or a web link to the text:</li> <li>15. Do these policies address the integration of agro-ecosystem approaches into the management of animal genetic resources in your country (SP5) (see also questions 46 and 54)?</li> <li>Glossany: The ecosystem approach is a strategy for the integrated management of land, water and living resources that promotes conservation and sustainable use in an equitable way (for further information see http://www.cbd.in/lecosystem/description.shtml). <ul> <li>a. Yes</li> <li>b. No, but a policy update is planned and funding identified</li> <li>c. No, but action is planned and funding is sought</li> <li>€ d. No</li> </ul> </li> <li>Please provide further details:</li> <li>16. Do breeding programmes exist in your country for all major species and breeds, and are these programmes regularly reviewed, and if necessary revised, with the aim of meeting foreseeable economic and social needs and market demands (SP4, Action 2)?</li> <li>€ a. Yes, since before the adoption of the GPA</li> <li>b. Yes, put in place after the adoption of the GPA</li> <li>c. For some species and breeds (coverage has increased since the adoption of the GPA)</li> <li>d. For some species and breeds (coverage has not increased since the adoption of the GPA)</li> <li>e. No, but action is planned and funding identified</li> <li>f. No, but action is planned and funding identified</li> <li>f. No, but action is planned and funding identified</li> <li>g. No</li> <li>Please provide further details:</li> <li>Selection program in Kyrgyzstan are available for all types and breeds of animals, they have been previously developed. Yes, they are corrected.</li> <li>17. Is long-term sustainable use planning – including, if appropriate, strategic breeding programmes – in place for all major livestock species and breeds (SP4, Action 1)?</li> <li>a. Yes, since before the</li></ul>	$\circ$	b. Yes, policies put in place or updated after the adoption of the GPA
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<ul> <li>C. No, but action is planned and funding is sought</li> <li>d. No</li> <li>Please provide further details:</li> </ul> 16. Do breeding programmes exist in your country for all major species and breeds, and are these programmes regularly reviewed, and if necessary revised, with the aim of meeting foreseeable economic and social needs and market demands (SP4, Action 2)? <ul> <li>a. Yes, since before the adoption of the GPA</li> <li>b. Yes, put in place after the adoption of the GPA</li> <li>c. For some species and breeds (coverage has increased since the adoption of the GPA)</li> <li>d. For some species and breeds (coverage has not increased since the adoption of the GPA)</li> <li>e. No, but action is planned and funding identified</li> <li>f. No, but action is planned and funding is sought</li> <li>g. No</li> </ul> Please provide further details: Selection program in Kyrgyzstan are available for all types and breeds of animals, they have been previously developed. Yes, they are corrected. 17. Is long-term sustainable use planning – including, if appropriate, strategic breeding programmes – in place for all major livestock species and breeds (SP4, Action 1)? <ul> <li>a. Yes, since before the adoption of the GPA</li> </ul>	of ani Glossa conserv	mal genetic resources in your country (SP5) (see also questions 46 and 54)?  ry: The ecosystem approach is a strategy for the integrated management of land, water and living resources that promotes vation and sustainable use in an equitable way (for further information see http://www.cbd.int/ecosystem/description.shtml).
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<ul> <li>e. No, but action is planned and funding identified</li> <li>f. No, but action is planned and funding is sought</li> <li>g. No</li> <li>Please provide further details:</li> <li>Selection program in Kyrgyzstan are available for all types and breeds of animals, they have been previously developed. Yes, they are corrected.</li> <li>17. Is long-term sustainable use planning – including, if appropriate, strategic breeding programmes – in place for all major livestock species and breeds (SP4, Action 1)?</li> <li>a. Yes, since before the adoption of the GPA</li> </ul>	$\circ$	c. For some species and breeds (coverage has increased since the adoption of the GPA)
<ul> <li>f. No, but action is planned and funding is sought</li> <li>g. No</li> <li>Please provide further details:</li> <li>Selection program in Kyrgyzstan are available for all types and breeds of animals, they have been previously developed. Yes, they are corrected.</li> <li>17. Is long-term sustainable use planning – including, if appropriate, strategic breeding programmes – in place for all major livestock species and breeds (SP4, Action 1)?         <ul> <li>a. Yes, since before the adoption of the GPA</li> </ul> </li> </ul>	$\circ$	d. For some species and breeds (coverage has not increased since the adoption of the GPA)
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Yes, they are corrected.  17. Is long-term sustainable use planning – including, if appropriate, strategic breeding programmes – in place for all major livestock species and breeds (SP4, Action 1)?	Please	provide further details:
programmes – in place for all major livestock species and breeds (SP4, Action 1)?  O a. Yes, since before the adoption of the GPA		
		ammes – in place for all major livestock species and breeds (SP4, Action 1)?

$\circ$	c. For some species and breeds (further progress made since the adoption of the GPA)
$\circ$	d. For some species and breeds (no further progress made since the adoption of the GPA)
$\circ$	e. No, but action is planned and funding identified
$\circ$	f. No, but action is planned and funding is sought
•	g. No
Please	e provide further details:
	Have the major barriers and obstacles to enhancing the sustainable use and development of al genetic resources in your country been identified?  a. Yes
$\circ$	b. No
$\circ$	c. No major barriers and obstacles exist. Comprehensive sustainable use and development measures are in place.
Please	e provide further details. If barriers and obstacles have been identified, please list them:
	barriers lowest price for livestock products, the lack of processing, the lack of management and marketing ennogo.
econ	Have the long-term impacts of the use of exotic breeds on locally adapted breeds (e.g. omic, environmental or genetic impacts) and on food security been assessed in your country, Action 1)?  Action 1)?
	breeds are breeds that are maintained in a different area from the one in which they were developed. Exotic breeds comprise ecently introduced breeds and continually imported breeds.
Locally tradition country and size	adapted breeds are breeds that have been in the country for a sufficient time to be genetically adapted to one or more of onal production systems or environments in the country. The phrase "sufficient time" refers to time present in one or more of the y's traditional production systems or environments. Taking cultural, social and genetic aspects into account, a period of 40 years a generations of the respective species might be considered as a guiding value for "sufficient time", subject to specific national instances.
f. No	
Please	e provide further details:
	Have recording systems and organizational structures for breeding programmes been blished or strengthened (SP4, Action 3)?  a. Yes, sufficient recording systems and organizational structures for breeding programmes have existed since before the adoption of the GPA.  b. Yes, sufficient recording systems and organizational structures for breeding programmes exist because of progress made since the adoption of the GPA.  c. Yes, recording systems and organizational structures for breeding programmes are partially in place (and were established or strengthened after the adoption of the GPA).  d. Yes, recording systems and organizational structures for breeding programmes are partially in place (but no progress has been made since the adoption of the GPA).  e. No, but action is planned and funding identified.  f. No, but action is planned and funding is sought.
$\circ$	g. No
Please	e provide further details:
Each	species and each species were programmes.

	e mechanisms in place in your country to facilitate interactions among stakeholders, scientific lines and sectors as part of sustainable use development planning (SP5, Action 3)?
(i) (ii)	a. Yes, comprehensive mechanisms have existed since before the adoption of the GPA
$\circ$	b. Yes, comprehensive mechanisms exist because of progress made since the adoption of the GPA
0	c. Yes, mechanisms are partially in place (and were established or strengthened after the adoption of the GPA)
	d. Yes, mechanisms are partially in place (but no progress has been made since the adoption of the GPA)
0	e. No, but action is planned and funding identified
$\circ$	f. No, but action is planned and funding is sought
0	g. No
	provide further details:
	vere previously, but not now. We need to develop to market conditions.
	ave measures been implemented in your country to provide farmers and livestock keepers information that facilitates their access to animal genetic resources (SP 4, Action 7)?  a. Yes, comprehensive measures have existed since before the adoption of the GPA
$\bigcirc$	b. Yes, comprehensive measures exist because of progress made since the adoption of the GPA
$\circ$	c. Yes, measures partially implemented (and were established or strengthened after the adoption of the GPA)
$\bigcirc$	d. Yes, measures partially implemented (but no progress has been made since the adoption of the GPA)
$\bigcirc$	e. No, but action is planned and funding identified
$\bigcirc$	f. No, but action is planned and funding is sought
•	g. No
Please	provide further details:
access genet	as your country developed a national policy or entered specific contractual agreements for s to and the equitable sharing of benefits resulting from the use and development of animal ic resources and associated traditional knowledge (SP3, Action 2)?  a. Yes, sufficient measures (policy and/or agreements) have been in place since before the adoption of the GPA b. Yes, sufficient measures (policy and/or agreements) are in place because of progress made since the adoption of the GPA c. Yes, some measures (policy and/or agreements) are in place (progress has been made since the adoption of the GPA) d. Yes, some measures (policy and/or agreements) are in place (but no progress has been made since the adoption of the GPA) e. No, but a policy and/or agreements are in preparation  f. No, but a policy and/or agreements are planned g. No provide further details:
	ave training and technical support programmes for the breeding activities of livestock-keepers established or strengthened in your country (SP 4, Action 1)?  a. Yes, sufficient programmes have existed since before the adoption of the GPA  b. Yes, sufficient programmes exist because of progress made since the adoption of the GPA

$\bigcirc$	c. Yes, some programmes exist (progress has been made since the adoption of the GPA)
$\circ$	d. Yes, some programmes exist (but no progress has been made since the adoption of the GPA)
$\circ$	e. No, but action is planned and funding identified
$\circ$	f. No, but action is planned and funding is sought
$\circ$	g. No
Please	provide further details:
	such training conducted educational advisory service, state selection and breeding center at the Ministry of ulture and KR M and other.
	ave priorities for future technical training and support programmes to enhance the use and opment of animal genetic resources in your country been identified (SP 4, paragraph 42)?  a. Yes, priorities have been identified or updated since the adoption of the GPA
$\circ$	b. Yes, priorities were identified before the adaption of the GPA but have not been updated
$\circ$	c. No, but action is planned and funding identified
$\circ$	d. No, but action is planned and funding is sought
$\circ$	e. No
Please	provide further details:
Yes, t	here are priorities, and they correspond to the strategic plans of FAO in the field of genetic resources.
syste	ave efforts been made in your country to assess and support indigenous or local production ms and associated traditional knowledge and practices related to animal genetic resources (SF tion 1, 2)?  a. Yes, sufficient measures have been in place since before the adoption of the GPA
$\bigcirc$	b. Yes, sufficient measures are in place because of progress made since the adoption of the GPA
$\circ$	c. Yes, some measures are in place (and were established or strengthened after the adoption of the GPA)
$\bigcirc$	d. Yes, some measures are in place (but no progress has been made since the adoption of the GPA)
$\circ$	e. No, but action is planned and funding identified
$\circ$	f. No, but action is planned and funding is sought
•	g. No
Please	e provide further details:
	ave efforts been made in your country to promote products derived from indigenous and local es and locally adapted breeds, and facilitate access to markets (SP 6, Action 2, 4)?  a. Yes, sufficient measures have been in place since before the adoption of the GPA
$\circ$	b. Yes, sufficient measures are in place because of progress made since the adoption of the GPA
$\circ$	c. Yes, some measures are in place (and were established or strengthened after the adoption of the GPA)
$\circ$	d. Yes, some measures are in place (but no progress has been made since the adoption of the GPA)
$\circ$	e. No, but action is planned and funding identified
$\circ$	f. No, but action is planned and funding is sought
•	g. No

Please provide further details:

28. If applicable, please list and describe priority requirements for enhancing the sustainable use and development of animal genetic resources in your country:
Marketing, processing of animal products.
29. Please provide further comments on your country's activities related to Strategic Priority Area 2: Sustainable Use and Development (including regional and international cooperation)
Note: It is not necessary to duplicate information provided in previous sections. Where relevant, please provide cross-references.
Priority area processing and marketing.
STRATEGIC PRIORITY AREA 3: CONSERVATION
<ul> <li>The state of national conservation policies</li> <li>The state of <i>in situ</i> and <i>ex situ</i> conservation programmes</li> <li>The state of regional and global long-term conservation strategies and agreement on technical</li> </ul>
standards for conservation
30. Does your country regularly assess factors leading to the erosion of its animal genetic resource (SP 7, Action 2)?
<ul><li>a. Erosion not occurring</li><li>b. Yes, regular assessments have been implemented since before the adoption of the GPA</li></ul>
<ul><li>b. Yes, regular assessments have been implemented since before the adoption of the GPA</li><li>c. Yes, regular assessments have commenced since the adoption of the GPA</li></ul>
d. No, but action is planned and funding identified
e. No, but action is planned and funding is sought
• f. No
Please provide further details:
31. What factors or drivers are leading to the erosion of animal genetic resources? Please describe the factors specifying which breeds or species are affected:
Pasture degradation, isolation and inbreeding herds, lack of selection, poor knowledge of farmers, poor scientific support and other.
32. Does your country have conservation policies and programmes in place to protect locally adapted breeds at risk in all important livestock species (SP 7, SP 8 and SP 9)?
Glossary: Locally adapted breeds are breeds that have been in the country for a sufficient time to be genetically adapted to one or more of traditional production systems or environments in the country. The phrase "sufficient time" refers to time present in one or more of to country's traditional production systems or environments. Taking cultural, social and genetic aspects into account, a period of 40 years and six generations of the respective species might be considered as a guiding value for "sufficient time", subject to specific national circumstances.
<ul> <li>a. Country requires no policies and programmes because all locally adapted breeds are secure</li> </ul>
<ul> <li>b. Yes, comprehensive policies and programmes have been in place since before the adoption of the GPA</li> </ul>
C. Yes, comprehensive policies and programmes exist because of progress made since the adoption of the GPA

$\circ$	d. For some species and breeds (coverage expanded since the adoption of the GPA)					
$\circ$	e. For some species and breeds (coverage not expanded since the adoption of the GPA)					
$\circ$	f. No, but action is planned and funding identified					
$\bigcirc$	<ul><li>g. No, but action is planned and funding is sought</li><li>h. No</li></ul>					
•						
Please	provide further details:					
	conservation policies and programmes are in place, are they regularly evaluated or reviewed, Action 1; SP 8, Action 1; and SP 9, Action 1)?  a. Yes					
$\bigcirc$	b. No, but action is planned and funding identified					
$\circ$	c. No, but action is planned and funding is sought					
•	d. No					
Please	provide further details:					
of ext Glossar of tradit country and six circums	<ul> <li>a. Country requires no in situ conservation measures because all locally adapted breeds are secure</li> <li>b. Yes for all breeds</li> <li>c. For some breeds (coverage expanded since the adoption of the GPA)</li> <li>d. For some breeds (coverage not expanded since the adoption of the GPA)</li> <li>e. No, but action is planned and funding identified</li> <li>f. No, but action is planned and funding is sought</li> <li>g. No</li> </ul>					
Please	provide further details:					
breed Glossar	oes your country have ex situ in vivo conservation measures in place for locally adapted is at risk of extinction and to prevent breeds from becoming at risk (SP 8 and SP 9)?  Ty: Ex situ in vivo conservation - maintenance of live animal populations not kept under their normal management conditions -					
e.g. in z	coological parks or governmental farms - and/or outside the area in which they evolved or are now normally found.  a. Country requires no ex situ in vivo conservation measures because all locally adapted breeds are secure					
$\bigcirc$	O b. Yes for all breeds					
$\bigcirc$	c. For some breeds (coverage expanded since the adoption of the GPA)					
$\bigcirc$	d. For some breeds (coverage not expanded since the adoption of the GPA)					
$\bigcirc$	e. No, but action is planned and funding identified					
$\circ$	f. No, but action is planned and funding is sought					

Please provide further details:
In Kyrgyzstan, there is the problem of preserving local cultural and local breeds of animals.
36. Does your country have ex situ in vitro conservation measures in place for locally adapted breeds at risk of extinction and to prevent breeds from becoming at risk (SP 8 and SP 9)? Glossary: Ex situ in vitro - conservation, under cryogenic conditions including, inter alia, the cryoconservation of embryos, semen, oocytes, somatic cells or tissues having the potential to reconstitute live animals at a later date.
<ul> <li>a. Country requires no ex situ in vitro conservation measures because all locally adapted breeds are secure</li> </ul>
O b. Yes for all breeds
C. For some breeds (coverage expanded since the adoption of the GPA)
<ul> <li>d. For some breeds (coverage not expanded since the adoption of the GPA)</li> </ul>
<ul> <li>e. No, but action is planned and funding identified</li> </ul>
C f. No, but action is planned and funding is sought
● g. No
Please provide further details:
37. Please describe the measures (indicating for each whether they were introduced before or after the adoption of the GPA) or provide a web link to a published document that provides further information:
Web pages do not exist.
38. If your country has not established any conservation programmes, is this a future priority?
● b. No
Please provide further details:
39. Has your country identified the major barriers and obstacles to enhancing the conservation of its animal genetic resources?
<ul> <li>a. Country requires no conservation programmes because all animal genetic resources are secure</li> </ul>
O b. Yes
● c. No
<ul> <li>d. No major barriers and obstacles exist. Comprehensive conservation programmes are in place</li> </ul>
Please provide further details. If barriers and obstacles have been identified, please list them:
<ul><li>40. If your country has existing ex situ collections of animal genetic resources, are there major gaps in these collections (SP 9, Action 5)?</li><li>● a. Yes</li></ul>
○ b. No

g. No

If yes, have priorities for filling the gaps been established?					
C a. Yes					
○ b. No, but action is planned and funding identified					
c. No, but action is planned and funding is sought					
● d. No					
Please provide further details:					
41. Are arrangements in place in your country to protect breeds and populations that are at risk from natural or human-induced disasters (SPA 3)?					
<ul> <li>a. Yes, arrangements have been in place since before the adoption of the GPA</li> </ul>					
O b. Yes, arrangements put in place after the adoption of the GPA					
C. No, but action is planned and funding identified					
Od. No, but action is planned and funding is sought					
● e. No					
Please provide further details:					
42. Are arrangements in place in your country for extraction and use of conserved genetic material following loss of animal genetic resources (e.g. through disasters), including arrangements to enable restocking (SP 9, Action 3)?					
<ul> <li>a. Yes, arrangements have been in place since before the adoption of the GPA</li> </ul>					
<ul> <li>b. Yes, arrangements put in place after the adoption of the GPA</li> </ul>					
C. No, but action is planned and funding identified					
Od. No, but action is planned and funding is sought					
● e. No					
Please provide further details:					
43. Is your country conducting research to adapt existing, or develop new, methods and technologies for in situ and ex situ conservation of animal genetic resources (SP 11, Action 1)?  © a. Yes, research commenced before the adoption of the GPA					
O b. Yes, research commenced since the adoption of the GPA					
C. No, but action is planned and funding identified					
○ d. No, but action is planned and funding is sought					
● e. No					
Please provide further details. If yes, please briefly describe the research:					
44. Does your country implement programmes to promote documentation and dissemination of knowledge, technologies and best practices for conservation (SP 11, Action 2)?					

a. Yes, programmes commenced before the adoption of the GPA

<ul> <li>b. Yes, programmes commenced since the adoption of the GPA</li> </ul>
C. No, but action is planned and funding identified
Od. No, but action is planned and funding is sought
● e. No
Please provide further details:
45. What are your country's priority requirements for enhancing conservation measures for animal genetic resources? Please list and describe them:  1) Development Strategy and Action Plan;
<ul><li>2) Creation of a genetic data bank;</li><li>3) The acquisition of modern laboratory equipment;</li></ul>
<ul><li>4) Develop a program for the conservation of native species (endemic);</li><li>5) Education of people;</li></ul>
46. Please provide further comments describing your country's activities related to Strategic Priority Area 3: Conservation (including regional and international cooperation)
Note: It is not necessary to duplicate information provided in previous sections. Where relevant, please provide cross-references.
1) Formation of public policy;
<ul><li>2) Development of laws and legal documents;</li><li>3) Institutional Development;</li></ul>
4) Development of a National Strategy and Action Plan;
STRATEGIC PRIORITY AREA 4: POLICIES, INSTITUTIONS AND CAPACITY-BUILDING IMPLEMENTATION AND FINANCING OF THE GLOBAL PLAN OF ACTION FOR ANIMAL GENETIC RESOURCES
<ul> <li>The state of national institutions for planning and implementing animal genetic resources measures</li> <li>The state of information sharing</li> </ul>
<ul> <li>The state of educational and research facilities capacity for characterization, inventory, and monitoring, sustainable use, development, and conservation</li> </ul>
<ul> <li>The state of awareness of the roles and values of animal genetic resources</li> <li>The state of policies and legal frameworks for animal genetic resources</li> </ul>
• The state of policies and legal frameworks for animal genetic resources
47. Does your country have sufficient institutional capacity to support holistic planning of the livestock sector (SP 12, Action1)?  O a. Yes, sufficient capacity has been in place since before the adoption of the GPA
b. Yes, sufficient capacity is in place because of progress made after the adoption of the GPA
C. No, but action is planned and funding identified
d. No, but action is planned and funding is sought
<ul><li>● e. No</li></ul>
Please provide further details:

Glossary: National strategy and action plan for animal genetic resources: a strategy and plan, agreed by stakeholders and preferably government-endorsed, that translates the internationally agreed Global Plan of Action for Animal Genetic Resources into national actions, with the aim of ensuring a strategic and comprehensive approach to the sustainable use, development and conservation of animal genetic resources for food and agriculture.						
<ul> <li>a. Previously endorsed national strategy and action plan is being updated (or new version has been</li> </ul>						
b. Completed and government-endorsed						
$\circ$	c. Completed and agreed by stakeholders					
•	d. In preparation					
$\bigcirc$	e. Preparation is planned and funding identified					
$\circ$	f. Future priority activity					
$\circ$	g. Not planned					
	provide further details. If available, please provide a copy of your country's national strategy and action plan as a te document or as a web link:					
Action	re animal genetic resources addressed in your country's National Biodiversity Strategy and n Plan (http://www.cbd.int/nbsap/)?					
•	a. Yes					
$\circ$	b. No, but they will be addressed in forthcoming plan					
$\circ$	c. No					
Please	provide further details:					
	re animal genetic resources addressed in your country's national livestock sector strategy, or policy (or equivalent instrument)?  a. Yes					
$\circ$	b. No, but they will be addressed in a forthcoming strategy, plan or policy					
$\bigcirc$	c. No, animal genetic resources are not addressed					
•	d. No, the country does not have a national livestock sector strategy, plan or policy					
Please	provide further details. If available, please provide the text of the strategy, plan or policy or a web link to the text:					
	as your country established or strengthened a national database for animal genetic resources pendent from DAD-IS) (SP 15, Action 4)?					
$\circ$	a. Yes, a national database has been in place since before the adoption of the GPA					
$\circ$	O b. Yes, a national database is in place because of progress made since the adoption of the GPA					
$\circ$	c. Yes, a national database is in place but still requires strengthening (progress since adoption of the GPA)					
$\circ$	d. Yes, a national database is in place but still requires strengthening (no progress since adoption of the GPA)					
$\bigcirc$	e. No, but action is planned and funding identified					
f. No, but action is planned and funding is sought						
•	g. No					

48. What is the current status of your country's national strategy and action plan for animal genetic

resources (SP 20)?

Please provide further details:					
52. Have your country's national data on animal genetic resources been regularly updated in DAD-IS?					
Note that the Commission on Genetic Resources for Food and Agriculture has requested FAO to produce global status and trends reports every two years.					
a. Yes, regular updates have been occurring since before the adoption of the GPA					
O b. Yes, regular updates started after the adoption of the GPA					
c. No, but it is a future priority					
O d. No					
Please provide further details:					
53. Has your country established a National Advisory Committee for Animal Genetic Resources (SP 12, Action 3)?					
a. Yes, established before the adoption of the GPA					
b. Yes, established after the adoption of the GPA					
c. No, but action is planned and funding identified					
d. No, but action is planned and funding is sought					
C e. No					
Please provide further details. If a National Advisory Committee has been established, please list its main functions:					
The main function of the National Advisory Committee is the implementation of consultation in the development of the National Strategy and Plan of Action on Genetic Resources.					
54. Is there strong coordination and interaction between the National Focal Point and stakeholders involved with animal genetic resources, such as the breeding industry, livestock keepers, government agencies, research institutes and civil society organizations (SP 12, Action 3)?  O a. Yes, strong coordination has been in place since before the adoption of the GPA					
<ul> <li>b. Yes, strong coordination was established after the adoption of the GPA</li> </ul>					
C. No, but action is planned and funding identified					
<ul> <li>d. No, but action is planned and funding is sought</li> </ul>					
○ e. No					
Please provide further details:					
<ul> <li>55. Does the National Focal Point (or other institutions) undertake activities to increase public awareness of the roles and values of animal genetic resources (SP 18)?</li> <li>a. Yes, activities commenced before the adoption of the GPA</li> </ul>					
O b. Yes, activities commenced after the adoption of the GPA					
C. No, but activities are planned and funding identified					
O d. No, but activities are planned and funding is sought					
○ e. No					

Please provide further details:					
Yes, the NFP is working to raise awareness of the role of genetic obshestvennyh resurosv.					
56. Does your country have national policies and legal frameworks for animal genetic resources management (SP 20)?  a. Yes, comprehensive national policies and legal frameworks were in place before the adoption of the GPA and are kept up to date b. Yes, comprehensive and up-to-date national policies and legal frameworks in place because of progress made since the adoption of the GPA c. Yes, some national policies and legislation in place (strengthened since the adoption of the GPA) d. Yes, some national policies and legislation in place (not strengthened since the adoption of the GPA) e. No, but action is planned and funding identified f. No, but action is planned and funding is sought g. No					
Please provide further details:					
57. Which of the following options best describes the state of training and technology transfer programmes in your country related to inventory, characterization, monitoring, sustainable use, development and conservation of animal genetic resources (SP14, Action 1)?  • a. Comprehensive programmes have been in place since before the adoption of the GPA					
<ul> <li>b. Comprehensive programmes exist because of progress made since the adoption of the GPA</li> </ul>					
C. Some programmes exist (further progress since the adoption of the GPA)					
<ul> <li>d. Some programmes (no further progress since the adoption of the GPA)</li> </ul>					
<ul> <li>e. None, but action is planned and funding identified</li> </ul>					
<ul> <li>f. None, but action is planned and funding is sought</li> </ul>					
○ g. None					
Please provide further details:					
58. Have organizations (including where relevant community-based organizations), networks and initiatives for sustainable use, breeding and conservation been established or strengthened (SP 14, Action 3)?  a. Yes, comprehensive organizations, networks and initiatives have existed since before the adoption of the GPA b. Yes, comprehensive organizations, networks and initiatives exist because of progress made since the adoption of the GPA c. Yes, some organizations, networks and initiatives exist (established or strengthened since adoption of the GPA) d. Yes, some organizations, networks and initiatives exist (but no progress made since adoption of the GPA) e. No, but action is planned and funding identified f. No, but action is planned and funding is sought					
<ul><li>● g. No</li></ul>					
Please provide further details:					

c. Yes, research and education institutions exist but still require strengthening (progress made since the adoptio	59. Ar	e there any national NGOs active in your country in the fields of:					
<ul> <li>○ b. No</li> <li>Sustainable use and development?</li> <li>○ c. Yes</li> <li>○ d. No</li> <li>Conservation of breeds at risk?</li> <li>○ e. Yes</li> <li>○ f. No</li> <li>If yes, please list the national NGOs and provide links to their web sites:</li> <li>I do not know their sites.</li> <li>60. Has your country established or strengthened research or educational institutions in the field of animal genetic resources management (SP 13, Action 3)?</li> <li>○ a. Yes, adequate research and education institutions have existed since before the adoption of the GPA</li> <li>○ b. Yes, adequate research and education institutions exist because of progress made since the adoption of the GP</li> <li>○ c. Yes, research and education institutions exist but still require strengthening (progress made since the adoption)</li> </ul>	Chara	cterization?					
Sustainable use and development?  c. Yes d. No  Conservation of breeds at risk? e. Yes f. No  If yes, please list the national NGOs and provide links to their web sites:  I do not know their sites.  60. Has your country established or strengthened research or educational institutions in the field of animal genetic resources management (SP 13, Action 3)? a. Yes, adequate research and education institutions have existed since before the adoption of the GPA b. Yes, adequate research and education institutions exist because of progress made since the adoption of the GPA c. Yes, research and education institutions exist but still require strengthening (progress made since the adoption)	•	a. Yes					
<ul> <li>c. Yes</li> <li>d. No</li> <li>Conservation of breeds at risk?</li> <li>e. Yes</li> <li>f. No</li> <li>If yes, please list the national NGOs and provide links to their web sites:</li> <li>I do not know their sites.</li> <li>60. Has your country established or strengthened research or educational institutions in the field of animal genetic resources management (SP 13, Action 3)?</li> <li>a. Yes, adequate research and education institutions have existed since before the adoption of the GPA</li> <li>b. Yes, adequate research and education institutions exist because of progress made since the adoption of the GPA</li> <li>c. Yes, research and education institutions exist but still require strengthening (progress made since the adoption)</li> </ul>	$\bigcirc$	O b. No					
Conservation of breeds at risk?  e. Yes  f. No  If yes, please list the national NGOs and provide links to their web sites:  I do not know their sites.  60. Has your country established or strengthened research or educational institutions in the field of animal genetic resources management (SP 13, Action 3)?  a. Yes, adequate research and education institutions have existed since before the adoption of the GPA  b. Yes, adequate research and education institutions exist because of progress made since the adoption of the GPA  c. Yes, research and education institutions exist but still require strengthening (progress made since the adoption)	Sustai	nable use and development?					
Conservation of breeds at risk?  • e. Yes  • f. No  If yes, please list the national NGOs and provide links to their web sites:  I do not know their sites.  60. Has your country established or strengthened research or educational institutions in the field of animal genetic resources management (SP 13, Action 3)?  • a. Yes, adequate research and education institutions have existed since before the adoption of the GPA  • b. Yes, adequate research and education institutions exist because of progress made since the adoption of the GPA  • c. Yes, research and education institutions exist but still require strengthening (progress made since the adoption	•	c. Yes					
<ul> <li>e. Yes</li> <li>f. No</li> <li>If yes, please list the national NGOs and provide links to their web sites:</li> <li>I do not know their sites.</li> <li>60. Has your country established or strengthened research or educational institutions in the field of animal genetic resources management (SP 13, Action 3)?</li> <li>a. Yes, adequate research and education institutions have existed since before the adoption of the GPA</li> <li>b. Yes, adequate research and education institutions exist because of progress made since the adoption of the GPC</li> <li>c. Yes, research and education institutions exist but still require strengthening (progress made since the adoption)</li> </ul>	$\bigcirc$	d. No					
<ul> <li>f. No</li> <li>If yes, please list the national NGOs and provide links to their web sites:</li> <li>I do not know their sites.</li> <li>60. Has your country established or strengthened research or educational institutions in the field of animal genetic resources management (SP 13, Action 3)? <ul> <li>a. Yes, adequate research and education institutions have existed since before the adoption of the GPA</li> <li>b. Yes, adequate research and education institutions exist because of progress made since the adoption of the GPA</li> <li>c. Yes, research and education institutions exist but still require strengthening (progress made since the adoption)</li> </ul> </li> </ul>	Conse	rvation of breeds at risk?					
If yes, please list the national NGOs and provide links to their web sites:  I do not know their sites.  60. Has your country established or strengthened research or educational institutions in the field of animal genetic resources management (SP 13, Action 3)?  a. Yes, adequate research and education institutions have existed since before the adoption of the GPA  b. Yes, adequate research and education institutions exist because of progress made since the adoption of the GPA  c. Yes, research and education institutions exist but still require strengthening (progress made since the adoption)	•	e. Yes					
I do not know their sites.  60. Has your country established or strengthened research or educational institutions in the field of animal genetic resources management (SP 13, Action 3)?  a. Yes, adequate research and education institutions have existed since before the adoption of the GPA  b. Yes, adequate research and education institutions exist because of progress made since the adoption of the GP  c. Yes, research and education institutions exist but still require strengthening (progress made since the adoption	$\bigcirc$	f. No					
60. Has your country established or strengthened research or educational institutions in the field of animal genetic resources management (SP 13, Action 3)?  a. Yes, adequate research and education institutions have existed since before the adoption of the GPA  b. Yes, adequate research and education institutions exist because of progress made since the adoption of the GP  c. Yes, research and education institutions exist but still require strengthening (progress made since the adoption)	If yes, p	lease list the national NGOs and provide links to their web sites:					
<ul> <li>animal genetic resources management (SP 13, Action 3)?</li> <li>a. Yes, adequate research and education institutions have existed since before the adoption of the GPA</li> <li>b. Yes, adequate research and education institutions exist because of progress made since the adoption of the GP</li> <li>c. Yes, research and education institutions exist but still require strengthening (progress made since the adoption)</li> </ul>	I do no	t know their sites.					
<ul> <li>animal genetic resources management (SP 13, Action 3)?</li> <li>a. Yes, adequate research and education institutions have existed since before the adoption of the GPA</li> <li>b. Yes, adequate research and education institutions exist because of progress made since the adoption of the GP</li> <li>c. Yes, research and education institutions exist but still require strengthening (progress made since the adoption)</li> </ul>							
of the GPA) d. Yes, research and education institutions exist but still require strengthening (no progress made since the adoption of the GPA) e. No, but action is planned and funding identified f. No, but action is planned and funding is sought g. No  Please provide further details:	anima	I genetic resources management (SP 13, Action 3)?  a. Yes, adequate research and education institutions have existed since before the adoption of the GPA  b. Yes, adequate research and education institutions exist because of progress made since the adoption of the GPA  c. Yes, research and education institutions exist but still require strengthening (progress made since the adoption of the GPA)  d. Yes, research and education institutions exist but still require strengthening (no progress made since the adoption of the GPA)  e. No, but action is planned and funding identified  f. No, but action is planned and funding is sought  g. No					
61. Please provide further comments describing your country's activities related to Strategic Priorit Area 4: Policies, Institutions and Capacity-building (including regional and international cooperation)  Note: It is not necessary to duplicate information provided in previous sections. Where relevant, please provide cross-references.	Area 4 cooper	I: Policies, Institutions and Capacity-building (including regional and international ration)  It is not necessary to duplicate information provided in previous sections. Where relevant, please					

## IMPLEMENTATION AND FINANCING OF THE GLOBAL PLAN OF ACTION FOR ANIMAL GENETIC RESOURCES

- The state of international collaboration for planning and implementing animal genetic resources measures
- The state of financial resources for the conservation, sustainable use and development of animal genetic resources
- 62. Has your country established or strengthened international collaboration in (SP 16): Characterization?

$\circ$	a. Yes						
$\circ$	b. No, but action is planned and funding identified						
$\bigcirc$	c. No, but action is planned and funding is sought						
•							
Susta	inable use and development?						
e. Yes							
<ul><li>f. No, but action is planned and funding identified</li><li>g. No, but action is planned and funding is sought</li></ul>							
							$\circ$
Conse	ervation of breeds at risk?						
$\circ$	i. Yes						
$\circ$	j. No, but action is planned and funding identified						
$\circ$	k. No, but action is planned and funding is sought						
•	I. No						
Please	provide further details:						
Chara  Susta  Conse  Conse	re there any international NGOs active in your country in the fields of: acterization? a. Yes b. No sinable use and development? c. Yes d. No ervation of breeds at risk? e. Yes f. No please list the international NGOs:						
the G	a. Yes b. No						
Please	provide further details:						
65. H	as your country received external funding for implementation of the GPA?  a. Yes  b. No						
$\bigcirc$	c. No, because country generally does not receive external funding						

Please provide further details:
Help from the World Bank, International Fund for Agricultural Development, the Swiss government, FAO, UNDP, USAID and other.
66. Has your country supported or participated in international research and education programme assisting developing countries and countries with economies in transition to better manage animal genetic resources (SP 15 and 16)?
<ul> <li>a. Yes, support or participation in place before the adoption of the GPA and strengthened since</li> </ul>
O b. Yes, support or participation in place before the adoption of the GPA but not strengthened since
C. Yes, support or participation in place since the adoption of the GPA
<ul> <li>d. No, but action is planned and funding identified</li> </ul>
<ul> <li>e. No, but action is planned and funding is sought</li> </ul>
<ul><li>f. No</li></ul>
Please provide further details:
67. Has your country supported or participated in programmes aimed at assisting developing countries and countries with economies in transition to obtain training and technologies and to buil their information systems (SP 15 and 16)?
b. Yes, support or participation commenced before the adoption of the GPA but not strengthened since
c. Yes, support or participation commenced since the adoption of the GPA
d. No, but action is planned and funding identified
e. No, but action is planned and funding is sought
f. No
Please provide further details:
68. Has your country provided funding to other countries for implementation of the Global Plan of Action?
<ul> <li>b. No, but action is planned and funding identified</li> </ul>
C. No, but action is planned and funding is sought
<ul><li>d. No</li></ul>
<ul> <li>e. No, because country is generally not a donor country</li> </ul>
Please provide further details. If relevant, specify whether funding was bilateral or multilateral; research cooperation or aid; and to whom and for what it was given:
69. Has your country contributed to international cooperative inventory, characterization and monitoring activities involving countries sharing transboundary breeds and similar production systems (SP 1, Action 5)?  — a. Yes

O b. No, but action is planned and funding identified

$\circ$	c. No, but action is planned and funding is sought
•	d. No
Please	provide further details:
systen	as your country contributed to establishing or strengthening global or regional information as or networks related to inventory, monitoring and characterization of animal genetic ces (SP 1, Action 6)?
О	a. Yes
$\circ$	b. No, but action is planned and funding identified
$\circ$	c. No, but action is planned and funding is sought
•	d. No
Please	provide further details:
	as your country contributed to the development of international technical standards and cols for characterization, inventory and monitoring of animal genetic resources (SP2)?  a. Yes
$\circ$	b. No, but action is planned and funding identified
$\circ$	c. No, but action is planned and funding is sought
•	d. No
Please	provide further details:
	as your country contributed to the development and implementation of regional in siturvation programmes for breeds that are at risk (SP 8, Action 2; SP 10, Action 1)?  a. Yes
$\circ$	b. No, but action is planned and funding identified
$\circ$	c. No, but action is planned and funding is sought
•	d. No
Please	provide further details:
,	
	as your country contributed to the development and implementation of regional ex siturvation programmes for breeds that are at risk (SP 9, Action 2; SP 10, Action 3; SP 10, Action
$\circ$	a. Yes
$\bigcirc$	b. No, but action is planned and funding identified
$\circ$	c. No, but action is planned and funding is sought
•	d. No
Please	provide further details:

74. Has your country contributed to the establishment of fair and equitable arrangements for the storage, access and use of genetic material stored in supra-national ex situ gene banks (SP9, Action 3)?  • a. Yes						
$\bigcirc$	○ b. No, but action is planned and funding identified					
$\bigcirc$	C. No, but action is planned and funding is sought					
•						
Please	provide further details:					
	as your country par s of animal genetic r a. Yes	. •	ernational ca	mpaigns to raise awareness of the		
$\circ$	b. No, but action is plan	nned and funding identified				
$\bigcirc$	c. No, but action is plan	nned and funding is sought				
•	d. No					
Please	provide further details:					
	3 .	ticipated in reviewing or on the nimal genetic resources (		ernational policies and regulatory		
0	b. No, but action is plan	nned and funding identified				
$\circ$	c. No, but action is plar	nned and funding is sought				
•						
Please provide further details:						
· · · · · · · · · · · · · · · · · · ·						
EMERGING ISSUES						
77. In view of the possibility that at some point countries may wish to update the GPA, please list any aspects of animal genetic resources management that are not addressed in the current GPA but will be important to address in the future (approximately the next ten years). Please also describe why these issues are important and indicate what needs to be done to address them.  Issues to be addressed Reasons Actions required						
	iture (next ten years)	Reasons		Actions required		

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