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: Greece

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).

Hellas/Greece is a European country. It is located in the eastern side of the Mediterranean basin between the Aegean and Ionian Sea. It is characterized as a mountainous country. Agriculture in Greece is an intensive and competitive sector of the economy, aiming at both the interior and the global market.

In general, the soil and climatic conditions of the country do not favour livestock production, particularly when account is taken of the corresponding conditions which prevail in the northern countries of the European Union, with whose products the Greek livestock keeper is called upon to compete. Where intensive production systems are concerned, the main problem is caused by the high cost of money, while in the extensive method of livestock keeping it lies in the utilization of common pastureland of which there is, in any case, a scarcity, in the unwillingness of young people to enter the profession and in the heavy and difficult work which it requires.

Meeting the needs of the country in the main livestock products by domestic production is around 30% in beef, 40-45% in pork, 85-87% in sheep and goat meat as well as poultry meat, 50% cow's milk, 100% in sheep and goat milk, 97% of eggs and 87% honey.

The last ten years, in Greece, the traditional extensive productive systems of productive ruminants, have undergone only little changes, while the dairy cattle, the pig and the poultry sectors have shown an intensifying procedure.

The number of dairy cows is estimated at 130.122 animals, from which 98% are Holstein-Friesian. Sheep and goat breeding is one of the most widespread agricultural sectors of Greece, and the most important livestock sector, according to their share in the animal production (about 43%) and in the total agricultural production (about 13%). The number of raised sheep in Greece amounts 12.209.438 animals, 78% of sheep and the 91% of goats are raised under low input production system in the mountainous and marginal regions of the country.

Concerning the performance control and genetic improvement programmes application, according to data of the Ministry

of Agriculture, milk is recorded on 28.6% of the total dairy cows population, on 0.73% of the total sheep population and 0.06% of the total goats population. The major obstacle in the distribution of the genetic improvement programmes is the reluctance of the breeders to participate, and also the lack of stakeholders, the current production systems (mainly in small ruminants, where the extensive system prevails) and the high cost.

Since 1998, within the framework of agro-environmental programs of the Regulation (EEC) 2078/92 and later of the Regulation (EEC) 1257/99 a national program for the preservation of rare native farm animal breeds (buffaloes, cattle, sheep, goats, pigs and horses) is applied. The program's purpose is to save and conserve adequate populations of certain breeds that are threatened by extinction, in the areas of their natural distribution. Under the regulation 2078/92, subsidized are: 1 Buffalo, 2 Cattle, 12 Sheep, 1 Goat and 5 Horse breeds. The local Greek pig breed is added in the list of the threatened by extinction EU breeds, in order to get subsidized.

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
1. 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? 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. • yes
O no
 yes but with some significant exceptions
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.
2. Have there been any significant changes in patterns of geneflow in and out of your country in the last ten years?yes
no
2.1. If yes, please indicate whether this view is based on quantified data (e.g. import and export statistics collected by the government).yesno
2.2. If yes, please provide references (preferably including web links) (if relevant, indicate which types of animal genetic resources are covered).
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.

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.

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)	low	low	
Changing demand for livestock products (quality)	low	low	Not significant impact, but in some cases contributed to the increase of interest in specific products (i.e. buffalo meat products) that were very popular in the past and were forgotten. In other cases, the increase interest on the specific dietary characteristics of the goat milk indicates a possible change in the management of the populations (initiate breeding programs).
Changes in marketing infrastructure and access	none	none	
Changes in retailing	none	none	
Changes in international trade in animal products (imports)	none	none	
Changes in international trade in animal products (exports)	none	low	
Climatic changes	none	none	
Degradation or improvement of grazing land	none	low	It might have an impact on the populations grazing in the mountains.
Loss of, or loss of access to, grazing land and other natural resources	low	low	

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
Economic, livelihood or lifestyle factors affecting the popularity of livestock keeping		low	The number of animals grazing in the mountainous areas has decreased.
Replacement of livestock functions	low	none	
Changing cultural roles of livestock	none	none	
Changes in technology	low	low	
Policy factors	medium	medium	The agro environmental measures succeeded to increase the population size of breeds at risk.
Disease epidemics	none	none	

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)	1	1
Cattle (specialized beef)	4	4
Cattle (multipurpose)	0	0
Sheep	20	2
Goats	1	5
Pigs	1	6
Chickens	0	0
Buffaloes	1	0
Horses	5	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%).

choose one of the following catego	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
Species Cattle (specialized dairy)	1	1	high	low	high	low	high	low
Cattle (specialized beef)	8	8	high	low	medium	low	low	low
Cattle (multipurpose)	0	0	none	none	none	none	none	none
Sheep	20	20	high	low	medium	low	high	low
Goats	1	1	high	low	medium	low	high	low
Pigs	7	7	high	low	high	low	high	low
Chickens	0	0	none	none	none	none	none	none
Horses	6	6	high	low	low	low	low	low
Buffaloes	1	1	high	low	medium	low	low	low

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	high
Research	high
Knowledge	medium
Awareness	medium
Infrastructure	medium
Stakeholder participation	medium
Policies	high

	Score
Policy implementation	high
Laws	high
Implementation of laws	high

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.
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ar das aria ori trio reasor	is for these successes.
	Description
Education	The country offers Agricultural education, in the university of high quality. There are several departments in the country and also technological institutes. Financial resources are needed to offer scholarships for post graduate studies.
Research	Lack of national funds for research activities on the country's priorities. Enhance the collaboration between research and universities, facilitating the movement of researchers, and offer common scholarships.
Knowledge	
Awareness	Support of the breeders associations through educational programmes and providing constant information at a national level.
Infrastructure	Effort is being made to apply the modern methods of recording, performance control and estimate the genetic value of the animals. The application of these methods is particularly difficult, concerning the small ruminants, because of the difficult conditions (that farmers live and work (and the high cost of the application), but also because the lack of willigness of farmers on initiating new methods, the lack of trust between the farmers, between the farmers and the administration and the role of private companies that promote specific genetic material etc.
Stakeholder participation	There is need to enhance the collaboration between the different stakeholders.
Policies	Need to ensure constant funding at national level.
Policy implementation	
Laws	
Implementation of laws	

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).

The design and management of the genetic improved programmes is realized mainly by the Ministry of Rural Developemet and Food, which also has the responsibility of their legislative framing. Thus, the genetic improvement programmes are realized with the participation of the co-operatives and breeders associations.

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
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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)	no	no	yes	no	no	no	no
Cattle (specialized beef)	no	no	no	no	no	no	no
Cattle (multipurpose)	no	no	no	no	no	no	no
Sheep	no	no	yes	no	no	no	no
Goats	no	no	yes	no	no	no	no
Pigs	no	no	yes	yes	no	no	no
Chickens	no	no	no	no	no	no	no
Buffaloes	no	no	yes	no	no	no	no
Horses	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.

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.

country. Loc = Locally adapted breeds	, LX -	Tools														
Species	Animal idontification	Allina identification	Breeding goal defined		Dorformann controling		politico continua		(docorana sissely) acitalione sitemos	Genetic evaluation (classic approach)	Genetic evaluation including genomic		it of genetic variation (by	maximizmg enective 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
Cattle (specialized dairy)	1	0	1	0	1	0	1	0	1	0	0	0	0	0	1	0
Cattle (specialized beef)	4	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0
Sheep	20	0	8	0	8	0	20	0	8	0	0	0	0	0	1	0
Goats	1	0	1	0	1	0	1	0	1	0	0	0	0	0	0	0
Pigs	1	5	0	5	0	0	1	5	0	0	0	0	0	0	0	5
Buffaloes	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
Horses	5	1	0	1	0	1	5	1	0	0	0	0	0	0	0	0

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		re-breeding s-breeding				
	Loc	Ex	Loc	Ex				
Cattle (specialized dairy)	1	0	0	0				
Cattle (specialized beef)	0	0	0	0				
Sheep	8	0	0	0				
Goats	1	0	0	0				
Pigs	0	0	0	5				
Buffaloes	0	0	0	0				
Horses	0	1	0	0				

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

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

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

purposes or ariirial breed	irig.
Species	Organization of livestock keepers
Cattle (specialized dairy)	medium
Cattle (specialized beef)	medium
Cattle (multipurpose)	medium
Sheep	medium
Goats	medium
Pigs	medium
Chickens	none
Buffaloes	medium
Horses	medium

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.

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	medium	medium	none	none	none		none
Animal identification	high	low	high	none	none	none	none	none
Recording	high	low	high	none	none	none	none	none
Provision of artificial insemination services	high	low	low	none	none	none	none	none
Genetic evaluation	none	medium	high	none	none	none	none	none
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	high	high	none	none	none	none	none
Setting breeding goals								
Animal identification	high	none	high	none	none	none	none	none
	high high	none	high high	none	none	none		none
Animal identification			-					

			1	1		1		
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	high	high	none	none	none	none	none
Animal identification	high	none	high	none	none	none	none	none
Recording	high	none	high	none	none	none	none	none
Provision of artificial insemination services	none	none	none	none	none	none	none	none
Genetic evaluation	none	low	high	none	none	none	none	none
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	none	high	none	none	none	none	none
Animal identification	high	none	high	none	none	none	none	none
Recording	none	none	high	none	none	none	none	none
Provision of artificial insemination services	none	none	none	none	none	none	none	none
Genetic evaluation	none	none	high	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	high	none	none	none	none	none
Animal identification	high	none	high	none	none	none	none	none
Recording	high	none	high	none	none	none	none	none
Provision of artificial insemination services	none	none	medium	none	none	none	none	none
Genetic evaluation	none	none	high	none	none	none	none	none

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

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)	yes
Cattle (specialized beef)	yes
Cattle (multipurpose)	no
Sheep	yes
Goats	yes
Pigs	yes
Chickens	no
Horses	yes

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).

direction broadction system	ins (and describe the differences).
Species	Description of policies or programmes
Cattle (specialized dairy)	The Greek Black and White cattle breed is in a performance recording and genetic improvement programme.
Cattle (specialized beef)	A performance recording programme is initiating in two beef breeds.
Cattle (multipurpose)	
Sheep	Most of the local breeds are in a performance recording programme and genetic improvement programme.
Goats	A genetic improvement programme is managed only for Skopelos goat breed.
Pigs	A performance recording programme is initiating in Indigenous pig breed.
Chickens	
Horses	Out of the horse breeds, a purebreeding programme is managed for Agglikos Katharoaimos.

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)	
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.

There is a great interest in Greece for the application of genetic improvement programmes which tend to become an important part of the agricultural sector. However, the major obstacle of their wide application is the small number of controlled animals, despite the efforts that are on going to inform the breeders. Lack of legislative framing to enhance the interaction between the different stakeholders (government, breeders associations, private companies, research institutes).

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)	
Cattle (specialized beef)	Initiate recording in two beef breeds.

Species	Description of future objectives, priorities and plans
Cattle (multipurpose)	
Sheep	Initiate selection for scrapie resist sheep.
Goats	
Pigs	Initiate recording one local breed.
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	none	none
Cattle (specialized beef)	high	none	low
Cattle (multipurpose)	low	none	none
Sheep	high	low	low
Goats	high	none	none
Pigs	high	none	none
Chickens	none	none	none
Buffaloes	high	none	none
Horses	high	none	none

yes

O no

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.pdf).

13327e/13327e.par).	
	Considered in formal prioritization approaches
Risk of extinction	yes
Genetic uniqueness	no
Genetic variation within the breed	no
Production traits	yes

	Considered in formal prioritization approaches
Non-production traits	no
Cultural or historical importance	yes
Probability of success	no

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.

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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	no	yes	no	no	yes	yes	yes	no	yes	yes	no
Private sector	yes	no	no	no	no	no	no	no	no	no	no	no
Cattle (specialized dairy)	no	no	no	no	no	no	no	no	no	no	no	no
Cattle (specialized beef)	yes	no	yes	no	no	yes	no	no	no	no	yes	no
Cattle (multipurpose)	no	no	no	no	no	no	no	no	no	no	no	no
Sheep	yes	no	yes	no	no	yes	yes	no	no	no	yes	no
Goats	yes	no	yes	no	no	yes	yes	no	no	no	yes	no
Pigs	yes	no	yes	no	no	yes	no	no	no	no	no	no
Chickens	no	no	no	no	no	no	no	no	no	no	no	no
Buffaloes	yes	no	yes	no	no	yes	yes	no	no	no	yes	no
Horses	yes	no	yes	no	no	yes	no	yes	no	yes	yes	no

22.1. Please provid	le further details of the	e activities recorded in t	the table and any other in situ
conservation activit	ties or programmes be	eing implemented in yo	ur country.

23. Does your country have an operational in vitro gene bank for animal genetic resources?

conservation, with agreed protocol								ose of mealum- to long-term
O yes		•		•	•			
no								
23.1. If your country has develop one?yesno23.2. If yes, please descr				oank for a	animal ge	netic reso	ources, do	oes it have plans to
Currently genetic material, (se reproduction) but also for consbreeds has been collected, or which semen and oocytes will	men ervat in old	and e ion p ler pe	embryos) is urposes (i.e eriods from	e. in the He	ritage shee	p project, s	emen from	three heritage sheep
24. If your country has arkind of material is stored		e.				etic resou	rces, plea	ase indicate what
		5	Stored in na	ational gen	ebank			
Semen								
Embryos								
Oocytes								
Somatic cells (tissue or cultur	ed ce	ells)						
Isolated DNA								
25. If your country has an following table.	Number of breeds for which material is stored	Number of breeds for which the sufficient material is stored to the sufficient material is sufficient material is sufficient material is sufficient material is stored to the sufficient material is stored to the sufficient material is stored to the sufficient material is sufficient material is stored to the sufficient material is sufficient material is stored to the sufficient material is stored to the sufficient material is sufficient material in the sufficient material is sufficient material in the sufficient material is sufficient material ma	material	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 solutions to introduce genetic variability solution?	Do livestock keepers or breeders' associations participate in the planning of the gene banking activities?	ase complete the
Species Cattle (specialized dairy)		_ 0						-
Cattle (specialized beef)								1

Cattle (multipurpose)

Sheep Goats

Pigs

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.
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 describe the plans, including a list of the countries involved.

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.

The Chios breed was classified as at risk. Nowadays is not classified as at risk as a result of the increase of interest of the farmers because of the high production characteristics of Chios breed and their high level of cooperation.

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.

		Biotechnologies										
Species	Artificial insemination	Embryo transfer	Multiple ovulation and embryo transfer	Semen sexing	In vitro fertilization	Cloning	Genetic modification	Molecular genetic or genomic information	Transplantation of gonadal tissue			
Cattle (specialized dairy)	high	low	none	none	none	none	none	none	none			
Sheep	low	low	low	none	low	none	none	none	none			
Goats	none	low	low	none	low	none	none	none	none			
Pigs	high	none	none	none	none	none	none	none	none			

28.1.	Please	provide	additional	information	on	the	use	of t	these	biotec	hnolog	gies in	your	country	У.

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	no	no	yes	no
Embryo transfer	no	no	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.

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	yes	yes
Embryo transfer or MOET	no	yes
Semen sexing	no	no
In vitro fertilization	no	yes
Cloning	no	no
Genetic modification	no	no
Use of molecular genetic or genomic information for estimation of genetic diversity	yes	yes
Use of molecular genetic or genomic information for prediction of breeding values	no	yes
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.

Cattle (specialized dairy)	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	n/a	n/a	n/a	low	n/a
Artificial insemination using nationally produced semen from exotic breeds	n/a	n/a	n/a	none	n/a
Artificial insemination using imported semen from exotic breeds	n/a	n/a	n/a	high	n/a
Natural mating	n/a	n/a	n/a	none	n/a

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	n/a	none	low	n/a
Artificial insemination using nationally produced semen from exotic breeds	n/a	none	none	n/a
Artificial insemination using imported semen from exotic breeds	n/a	none	none	n/a
Natural mating high	n/a	high	high	n/a
sasuoH 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	n/a	none	n/a	n/a
Artificial insemination using nationally produced semen from exotic breeds	n/a	none	n/a	n/a
Artificial insemination using imported semen from exotic breeds	n/a	none	n/a	n/a
Natural mating n/a	n/a	high	n/a	n/a

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	n/a	n/a	n/a	none	n/a
Artificial insemination using nationally produced semen from exotic breeds	n/a	n/a	n/a	high	n/a
Artificial insemination using imported semen from exotic breeds	n/a	n/a	n/a	medium	n/a
Natural mating	n/a	n/a	n/a	none	n/a
Buffaloes	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	n/a	n/a	n/a	n/a
Artificial insemination using nationally produced semen from exotic breeds	none	n/a	n/a	n/a	n/a
Artificial insemination using imported semen from exotic breeds	none	n/a	n/a	n/a	n/a
Natural mating	high	n/a	n/a	n/a	n/a

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	n/a	n/a	none	n/a	n/a
Artificial insemination using nationally produced semen from exotic breeds	n/a	n/a	none	n/a	n/a
Artificial insemination using imported semen from exotic breeds	n/a	n/a	none	n/a	n/a
Natural mating	n/a	n/a	high	n/a	n/a

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.

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	Description
	collaboration	
Development of joint national strategies or action plans	limited	There is a reference on animal genetic resources in the national strategy for biodiversity.
Collaboration in the characterization, surveying or monitoring of genetic resources, production environments or ecosystems	none	
Collaboration related to genetic improvement	none	

	Extent of collaboration	Description
Collaboration related to product development and/or marketing	none	
Collaboration in conservation strategies, programmes or projects	limited	Few initiatives to join together all biodiversity resources (i.e. Helbionet, Hellenic network for biodiversity research (helbionet.org)).
Collaboration in awareness-raising on the roles and values of genetic resources	limited	Sporadically some common activities in raising awareness.
Training activities and/or educational curricula that address genetic resources in an integrated manner	limited	Few activities in post graduate level.
Collaboration in the mobilization of resources for the management of genetic resources	none	

2. Please describe any other types of collaboration.
3. If relevant, please describe the benefits that could be achieved by strengthening collaboration in the management of genetic resources in the animal, plant, forest and aquatic sectors in your country. If specific plans to increase collaboration are in place, please describe them and the benefits foreseen
4. Please describe any factors that facilitate or constrain collaborative approaches to the management of genetic resources in your country.
The obstacle is that are different administration units that operate in this domain that have to collaborate in central, regional and local level, and mainly the Ministry of Rural Development and Agriculture, the Ministry of Environment, the Ministry of Development and in cases also other Ministries.

5. If there are constraints, please indicate what needs to be done to overcome them.

Facilitate the collaboration, less bureaucracy could be useful.

ANIMAL GENETIC RESOURCES MANAGEMENT AND THE PROVISION OF REGULATING AND SUPPORTING ECOSYSTEM SERVICES

6. Do your country's policies, plans or strategies for animal genetic resources management include measures specifically addressing the roles of livestock in the provision of regulating ecosystem services and/or supporting ecosystem services?

Regulating ecosystem services: "Benefits obtained from the regulation of ecosystem processes" – Millennium Ecosystem Assessment. 2005. Ecosystems and human well-being: synthesis. Washington D.C., Island Press (available at http://millenniumassessment.org/documents/document.356.aspx.pdf), page 40. Supporting ecosystem services: "Services necessary for the production of all other ecosystem services" – Millennium Ecosystem Assessment. 2005. Ecosystems and human well-being: synthesis. Washington D.C., Island Press (available at http://millenniumassessment.org/documents/document.356.aspx.pdf), page 40.

\odot	yes
\bigcirc	no

6.1. If yes, please describe these measures and indicate 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 or 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). Since 1998, within the framework of agro-environmental programmes of the of the Regulation (EEC) 2078/92, (EEC) 1257/99 and (EEC) 1698/2005 a national programme for the preservation of rare native farm animal breeds is applied. The purpose of the programme is to save and conserve adequate populations of certain breeds that are threatened by extinction, in the areas of their natural distribution. 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. 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.

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.
In Prespa National Park, northwestern Greece, water buffalo grazing has been (and still is) used to restore wet meadow vegetation or areas previously dominated by extensive reedbeds.
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.
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.
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. Which of the following options best describes your country's progress in building an inventory of its animal genetic resources covering all livestock species of economic importance (SP 1, Action 1)? Glossary: An inventory is a complete list of all the different breeds present in a country.
a. Completed before the adoption of the GPA
b. Completed after the adoption of the GPA
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:

chara	cterization studies covering morphology, performance, location, production environments and its features in all livestock species of economic importance (SP 1, Actions 1 and 2)?
Specii	a. Comprehensive studies were undertaken before the adoption of the GPA
0	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)
0	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
Dlesse	g. None
Please	provide further details:
chara	nich 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)?
\circ	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
•	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)
\bigcirc	e. None, but action is planned and funding identified
\circ	f. None, but action is planned and funding is sought
\circ	g. None
Please	provide further details:
resou	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
0	b. Yes, a baseline survey has been undertaken or has commenced after the adoption of the GPA
0	c. Yes, a baseline survey has been undertaken for some species (coverage increased since the adoption of the GPA
	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
0	f. No, but action is planned and funding is sought
_	
Please	g. No provide further details:
The A	nimal Genetic Improvement Centers, in collaboration with the breeders associations are monitoring the population stock breeds.

5. Have institutional responsibilities for monitoring the status of animal genetic resources in your country been established (SP 1, Action 3)?

	ary: Monitoring is a systematic set of activities undertaken to document changes in the population size and structure of animal c 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
\circ	e. No
Please	e provide further details:
monitor of Res	Animal Genetic Improvement Centers of the Ministry of Rural Development and Food are responsible for the coring of the population of livestock breeds, The management of the National Database is carried by the Directorate search of the Hellenic Agricultural Organization (former NAGREF) in collaboration with the Ministry of Rural lopment and Food.
	ave protocols (details of schedules, objectives and methods) been established for a programme onitor 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
\bigcirc	c. No, but action is planned and funding identified
\circ	d. No, but action is planned and funding is sought
\circ	e. No
Please	e provide further details:
Existi	ng protocols need to further elaboration and adaptation to the demands of GPA.
	e the population status and trends of your country's animal genetic resources being monitored arly 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
\bigcirc	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
\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	e provide further details:
Monit	coring is carried out on annual basis.
(SP 1	hich criteria does your country use for assessing the risk status of its animal genetic resources I, Action 7)? ary: FAO has developed criteria that it uses to allocate breeds to risk-status categories based on the size and structure of their
	try: FAO has developed chiena that it uses to allocate breeds to risk-status categories based on the size and structure of their structure of thei
•	b. National criteria that differ from the FAO criteria
\circ	c. Other criteria (e.g. defined by international body such as European Union)
\bigcirc	d. None
	e provide further details. If applicable, please describe (or provide a link to a web site that describes) your national a or those of the respective international body:

Newspaper (FEK 248, 30-11-1995, A').	
9. Has your country established an operational emergency response system (http://www.fao.org/docrep/meeting/021/K3812e.pdf) that provides for immediate action to safeguard breeds at risk in all important livestock species (SP 1, Action 7)? O a. Yes, a comprehensive system was established before the adoption of the GPA	
 b. Yes, a comprehensive system has been established since the adoption of the GPA 	
c. For some species and breeds (coverage expanded since the adoption of the GPA)	
d. For some species and breeds (coverage oxpanied since the adoption of the GPA)	
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)	
a. Yes, research commenced before the adoption of the GPA	
○ b. Yes, research commenced 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	
O e. No	
Please provide further details:	
11. Has your country identified the major barriers and obstacles to enhancing its inventory, characterization and monitoring programmes?a. Yes	
O b. No	
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:	
However, there is need to extend the characterization in more traits (see response 2).	
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:	
Ensure financial recourses for such purposes and enhance cooperation between administration, research and farmers	

associations.

The criteria used are detailed in the Presidential Decree no 434/95 which was published in the Governmental

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 provide cross-references.

In the frame of international cooperation: Participation in the activities of the European Regional Focal Point for AnGR. Participation in the ERFP WG for documentation and Information (chair), Participation in AGRI GENRES projects and in several reasearch projects dealing with characterization.

STRATEGIC PRIORITY AREA 2: SUSTAINABLE USE AND DEVELOPMENT

- 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
 14. Does your country have adequate national policies in place to promote the sustainable use of animal genetic resources (see also questions 46 and 54)? a. Yes, since before the adoption of the GPA
O b. Yes, policies put in place or updated after the adoption of the GPA
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. If available, please provide the text of the policies or a web link to the text:
The policies that are in force are included in the Plan of Rural Development 2007-2013 in Agro-environement measures Action 3.4 Conservation of genetic recourses and Action 3.1 Conservation of autochthonous endangered animal breeds. There is need to enhance these policies.
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 conservation and sustainable use in an equitable way (for further information see http://www.cbd.int/ecosystem/description.shtml). C a. Yes
O b. No, but a policy update is planned and funding identified
C. No, but action is planned and funding is sought
C d. No
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)? (a. Yes, since before the adoption of the GPA) (b. Yes, put in place after the adoption of the GPA)
2. 100, par in place after the adoption of the Of It

c. For some species and breeds (coverage has increased since the adoption of the GPA)

e. No, but action is planned and funding identified

d. For some species and breeds (coverage has not increased since the adoption of the GPA)

	f. No, but action is planned and funding is sought		
\bigcirc	g. No		
Please p	provide further details:		
progra	long-term sustainable use planning – including, if appropriate, strategic breeding immes – in place for all major livestock species and breeds (SP4, Action 1)? a. Yes, since before the adoption of the GPA		
\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		
\circ	g. No		
Please p	provide further details:		
•	a. Yesb. Noc. No major barriers and obstacles exist. Comprehensive sustainable use and development measures are in place.provide further details. If barriers and obstacles have been identified, please list them:		
econor	ave the long-term impacts of the use of exotic breeds on locally adapted breeds (e.g. mic, environmental or genetic impacts) and on food security been assessed in your country Action 1)?		
	reeds are breeds that are maintained in a different area from the one in which they were developed. Exotic breeds comprise ently introduced breeds and continually imported breeds.		
traditiona country's	adapted breeds are breeds that have been in the country for a sufficient time to be genetically adapted to one or more of all production systems or environments in the country. The phrase "sufficient time" refers to time present in one or more of the straditional production systems or environments. Taking cultural, social and genetic aspects into account, a period of 40 years generations of the respective species might be considered as a guiding value for "sufficient time", subject to specific national rances.		
	out action is planned and funding is sought		
Please p	provide further details:		
establis •	ave recording systems and organizational structures for breeding programmes been ished 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		

0	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
\circ	f. No, but action is planned and funding is sought
\circ	g. No
Please	provide further details:
	re mechanisms in place in your country to facilitate interactions among stakeholders, scientific blines and sectors as part of sustainable use development planning (SP5, Action 3)? 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
•	c. Yes, mechanisms are partially in place (and were established or strengthened after the adoption of the GPA)
\circ	d. Yes, mechanisms are partially 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
\circ	g. No
Please	provide further details:
	ave measures been implemented in your country to provide farmers and livestock keepers nformation 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
\circ	b. Yes, comprehensive measures exist because of progress made since the adoption of the GPA
•	c. Yes, measures partially implemented (and were established or strengthened after the adoption of the GPA)
\circ	d. Yes, measures partially implemented (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:
	•
acces	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 tic resources and associated traditional knowledge (SP3, Action 2)?
0	a. Yes, sufficient measures (policy and/or agreements) have been in place since before the adoption of the GPAb. Yes, sufficient measures (policy and/or agreements) are in place because of progress made since the adoption of the GPA
\circ	c. Yes, some measures (policy and/or agreements) are in place (progress has been made since the adoption of the GPA)
0	 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
0	f. No, but a policy and/or agreements are planned
•	g. No
-	

Please	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
0	
_	b. Yes, sufficient programmes exist because of progress made since the adoption of the GPA
0	c. Yes, some programmes exist (progress has been made since the adoption of the GPA)
0	d. Yes, some programmes exist (but no progress has been made since the adoption of the GPA)
0	e. No, but action is planned and funding identified
0	f. No, but action is planned and funding is sought
0	g. No
Please	provide further details:
	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
•	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
\bigcirc	d. No, but action is planned and funding is sought
\circ	e. No
Please	provide further details:
syster	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 (SP cion 1, 2)?
\circ	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
•	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
\bigcirc	g. No
Please	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 because of progress made since the adaption of the GPA

 c. Yes, some measures are in place (and were established or strengthened after the adoption of the GPA)
Od. Yes, some measures are 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
○ 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:
Enhance the role of farmers associations, enhance the collaboration between different stakeholders, develop legislation, develop strategies to promote products that come from local species.
29. Please provide further comments on your country's activities related to Strategic Priority Area2: 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.
Participation in the activities of the European Regional Focal Point for Animal Genetic Recourses.
 The state of national conservation policies The state of in situ and ex situ conservation programmes The state of regional and global long-term conservation strategies and agreement on technical standards for conservation
30. Does your country regularly assess factors leading to the erosion of its animal genetic resources (SP 7, Action 2)?a. Erosion not occurring
 b. Yes, regular assessments have been implemented since before the adoption of the GPA
C. Yes, regular assessments have 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:
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: Economical constraints (the lower production leads to the use of other breeds of higher production have been addressed

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)?

products, the research on breed characteristics of potential economic importance.

in order to assess the loss of income for the farmer. Other factors that could be assessed are the promotion of breed

	s traditional production systems or environments. Taking cultural, social and genetic aspects into account, a period of 40 years generations of the respective species might be considered as a guiding value for "sufficient time", subject to specific national tances.
\circ	a. Country requires no policies and programmes because all locally adapted breeds are secure
•	b. Yes, comprehensive policies and programmes have been in place since before the adoption of the GPA
\circ	c. Yes, comprehensive policies and programmes exist because of progress made since the adoption of the GPA
\bigcirc	d. For some species and breeds (coverage expanded since the adoption of the GPA)
\bigcirc	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	g. No, but action is planned and funding is sought
\circ	h. No
Please	provide further details:
The cu 2007-2	esidential Decree no 434/95 which was published in the Governmental Newspaper (FEK 248, 30-11-1995, A'). Irrent policies are included in the Common Ministerial Decisions 324132/8-9-08 Rural Development Plan 2013 Action 3.4 Conservation of genetic recourses and 079833/25-10-11 Action 3.1 Conservation of thonous endangered animal breeds.
	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
\circ	b. No, but action is planned and funding identified
\circ	c. No, but action is planned and funding is sought
\circ	d. No
Please	provide further details:
	oes your country have in situ conservation measures in place for locally adapted breeds at risk inction and to prevent breeds from becoming at risk (SP 8 and SP 9)?
of traditi	y: Locally adapted breeds are breeds that have been in the country for a sufficient time to be genetically adapted to one or more of the conal production systems or environments in the country. The phrase "sufficient time" refers to time present in one or more of the straditional production systems or environments. Taking cultural, social and genetic aspects into account, a period of 40 years generations of the respective species might be considered as a guiding value for "sufficient time", subject to specific national tances.
\bigcirc	a. Country requires no in situ conservation measures because all locally adapted breeds are secure
•	b. Yes for all breeds
\circ	c. For some breeds (coverage expanded since the adoption of the GPA)
\circ	d. For some breeds (coverage not expanded 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:
35. Do	pes your country have ex situ in vivo 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: 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 the

Page 34 of 45

	ry: Ex situ in vivo conservation - maintenance of live animal populations not kept under their normal management conditions -
g. In 2.	zoological 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
\circ	b. Yes for all breeds
•	c. For some breeds (coverage expanded since the adoption of the GPA)
\circ	d. For some breeds (coverage not expanded 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
\bigcirc	g. No
Please	provide further details:
	ick of funding leads to serious constraints in keeping some breeds in the Research Stations (under the National Iltural Research Foundation- currently Hellenic Agricultural Organization).
oreed Glossal	oes your country have ex situ in vitro conservation measures in place for locally adapted ls at risk of extinction and to prevent breeds from becoming at risk (SP 8 and SP 9)? The sy: Ex situ in vitro - conservation, under cryogenic conditions including, inter alia, the cryoconservation of embryos, semen, so, somatic cells or tissues having the potential to reconstitute live animals at a later date. The sy conservation of embryos, semen, so somatic cells or tissues having the potential to reconstitute live animals at a later date. The sy conservation of embryos, semen, so somatic cells or tissues having the potential to reconstitute live animals at a later date.
\bigcirc	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
•	f. No, but action is planned and funding is sought
\bigcirc	g. No
Please	provide further details:
he a	lease describe the measures (indicating for each whether they were introduced before or after doption of the GPA) or provide a web link to a published document that provides further nation:
38. If	your country has not established any conservation programmes, is this a future priority? a. Yes
\circ	b. No
Please	provide further details:
	as your country identified the major barriers and obstacles to enhancing the conservation of imal genetic resources? a. Country requires no conservation programmes because all animal genetic resources are secure
\circ	b. Yes
0	c. No
(•)	d. No major barriers and obstacles exist. Comprehensive conservation programmes are in place

Please provide further details. If barriers and obstacles have been identified, please list them:	
40. If your country has existing ex situ collections of animal gaps in these collections (SP 9, Action 5)?	genetic resources, are there major
If yes, have priorities for filling the gaps been established?	
a. Yes b. No. but action is planned and funding identified.	
b. No, but action is planned and funding identified	
c. No, but action is planned and funding is soughtd. No	
Please provide further details:	
41. Are arrangements in place in your country to protect br from natural or human-induced disasters (SPA 3)?	eeds and populations that are at risk
 a. Yes, arrangements have been in place since before the adopt 	ion of the GPA
 b. Yes, arrangements put in place 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 	
○ e. No	
Please provide further details:	
The only measures refer to keeping nucleus of endangered populations	in Research Stations.
42. Are arrangements in place in your country for extraction following loss of animal genetic resources (e.g. through disalenable restocking (SP 9, Action 3)? O a. Yes, arrangements have been in place since before the adopt	asters), including arrangements to
 b. Yes, arrangements put in place 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	
• e. No	
Please provide further details:	
43. Is your country conducting research to adapt existing, of technologies for in situ and ex situ conservation of animal g a. Yes, research commenced before the adoption of the GPA	·
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	
a. 110, but detict to plainted did fulfully to obugit	

○ 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
b. Yes, programmes 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:
45. What are your country's priority requirements for enhancing conservation measures for animal genetic resources? Please list and describe them:
Ensure funds for these purposes. Enhance the cooperation between different stakeholders and enhance the role of Farmers and Breeders Associations.
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.
STRATEGIC PRIORITY AREA 4: POLICIES, INSTITUTIONS AND CAPACITY-BUILDING IMPLEMENTATION AND FINANCING OF THE GLOBAL PLAN OF ACTION FOR ANIMAL GENETIC RESOURCES
 The state of national institutions for planning and implementing animal genetic resources measures The state of information sharing
 The state of educational and research facilities capacity for characterization, inventory, and monitoring, sustainable use, development, and conservation The state of awareness of the roles and values of animal genetic resources
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)?
 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

O e. No

Please provide further details:
48. What is the current status of your country's national strategy and action plan for animal genetic resources (SP 20)?
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.
a. Previously endorsed national strategy and action plan is being updated (or new version has been endorsed)
 ○ b. Completed and government-endorsed
C. Completed and agreed by stakeholders
d. In preparation
e. Preparation is planned and funding identified
○ g. Not planned
Please provide further details. If available, please provide a copy of your country's national strategy and action plan as a separate document or as a web link:
49. Are animal genetic resources addressed in your country's National Biodiversity Strategy and Action Plan (http://www.cbd.int/nbsap/)?● a. Yes
 b. No, but they will be addressed in forthcoming plan
○ c. No
Please provide further details:
50. Are animal genetic resources addressed in your country's national livestock sector strategy, plan or policy (or equivalent instrument)?
 b. No, but they will be addressed in a forthcoming strategy, plan or policy
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:
51. Has your country established or strengthened a national database for animal genetic resources (independent from DAD-IS) (SP 15, Action 4)?
 a. Yes, a national database has been in place since before the adoption of the GPA
 b. Yes, a national database is in place because of progress made since the adoption of the GPA
C. Yes, a national database is in place but still requires strengthening (progress since adoption of the GPA)
 d. Yes, a national database is in place but still requires strengthening (no progress since adoption of the GPA)
e. No. but action is planned and funding identified

∫ f. No, but action is planned and funding is sought					
C g. No					
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 					
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 (S 12, Action 3)?	P				
 a. Yes, established before the adoption of the GPA 					
O 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					
○ e. No					
Please provide further details. If a National Advisory Committee has been established, please list its main functions:					
54. Is there strong coordination and interaction between the National Focal Point and stakeholder involved with animal genetic resources, such as the breeding industry, livestock keepers, government agencies, research institutes and civil society organizations (SP 12, Action 3)? • a. Yes, strong coordination has been in place since before the adoption of the GPA	·S				
 b. Yes, strong coordination was established after the adoption of the GPA 					
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:					
 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)? a. Yes, activities commenced before the adoption of the GPA b. Yes, activities commenced after the adoption of the GPA 					
C. No, but activities are planned and funding identified					

d. No, but activities are planned and funding is sought				
C e. No				
Please provide further details:				
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 b. Comprehensive programmes exist because of progress made since the adoption of the GPA c. Some programmes exist (further progress since the adoption of the GPA) d. Some programmes (no further progress since the adoption of the GPA) e. None, but action is planned and funding identified f. None, but action is planned and funding is sought 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 				
○ g. No				
Please provide further details:				

59. Are there any national NGOs active in your country in the fields of:						
Characterization?						
a. Yes						
O b. No						
Sustainable use and development?						
C c. Yes						
● d. No						
Conservation of breeds at risk?						
C e. Yes						
• f. No						
If yes, please list the national NGOs and provide links to their web sites:						
NGOs that are active in the area of animal genetic resources, namely Amaltheia (www.amaltheia.org.gr), the Society for the Protection of Prespa. Other NGOs mainly focus on protection of nature and wild life namely WWF Greece, Arktouros, Peliti, Kallisto.						
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 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:						
61. Please provide further comments describing your country's activities related to Strategic Priority 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.

It is under discussion the development of the National Strategy for the management of AnGR. It is important to ensure funds.

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

52. H	as your country established or strengthened international collaboration in (SP 16):						
Chara	acterization?						
•	a. Yes						
\circ	○ b. No, but action is planned and funding identified						
\circ	C. No, but action is planned and funding is sought						
\bigcirc	d. No						
Susta	inable use and development?						
•	e. Yes						
\bigcirc	f. No, but action is planned and funding identified						
\bigcirc	g. No, but action is planned and funding is sought						
\circ	h. No						
Conse	ervation of breeds at risk?						
•	i. Yes						
\circ	j. No, but action is planned and funding identified						
\circ	k. No, but action is planned and funding is sought						
\circ	I. No						
Please	provide further details:						
Partici	ipation in the activities of the European Regional Focal Point for animal genetic recourses (ERFP) international						
resear	rch projects, networks.						
Chara Ch	re there any international NGOs active in your country in the fields of: acterization? a. Yes b. No inable use and development? c. Yes d. No ervation of breeds at risk? e. Yes f. No please list the international NGOs:						
64. Ha	as national funding for animal genetic resources programmes increased since the adoption of PA?						
\circ	a. Yes						
•	b. No						
Please	provide further details:						
 55. Ha	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:				
assist	as your country supported or participated in international research and education programmes ing developing countries and countries with economies in transition to better manage animal it resources (SP 15 and 16)?				
\circ	a. Yes, support or participation in place before the adoption of the GPA and strengthened since				
\circ	b. Yes, support or participation in place before the adoption of the GPA but not strengthened since				
\bigcirc	c. Yes, support or participation in place since the adoption of the GPA				
\circ	d. No, but action is planned and funding identified				
\bigcirc	e. No, but action is planned and funding is sought				
•	f. No				
Please	provide further details:				
count	as your country supported or participated in programmes aimed at assisting developing ries and countries with economies in transition to obtain training and technologies and to build information systems (SP 15 and 16)?				
\circ	a. Yes, support or participation commenced before the adoption of the GPA and strengthened since				
\circ	b. Yes, support or participation commenced before the adoption of the GPA but not strengthened since				
\circ	c. Yes, support or participation commenced since the adoption of the GPA				
\circ	d. No, but action is planned and funding identified				
\circ	e. No, but action is planned and funding is sought				
•	f. No				
Please	provide further details:				
68. H Action	as your country provided funding to other countries for implementation of the Global Plan of n?				
\circ	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				
\circ	e. No, because country is generally not a donor country				
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)?

\circ	a. Yes				
\circ	O b. No, but action is planned and funding identified				
\bigcirc	C. No, but action is planned and funding is sought				
d. No					
Please	provide further details:				
syste resou	las your country contributed to establishing or strengthening global or regional information ms or networks related to inventory, monitoring and characterization of animal genetic irces (SP 1, Action 6)?				
•					
0	b. No, but action is planned and funding identified				
0	c. No, but action is planned and funding is sought				
Disease	d. No				
Please	provide further details:				
	las your country contributed to the development of international technical standards and cols for characterization, inventory and monitoring of animal genetic resources (SP2)? 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:				
	las your country contributed to the development and implementation of regional in situervation 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				
\bigcirc	d. No				
Please	provide further details:				
conse 4)?	las your country contributed to the development and implementation of regional ex situ ervation programmes for breeds that are at risk (SP 9, Action 2; SP 10, Action 3; SP 10, Action 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:					
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)?					
0	a. Yes				
0	b. No, but action is planne	_			
0	c. No, but action is planne	d and funding is sought			
•	d. No				
Please	provide further details:				
	as your country partici s of animal genetic reso a. Yes		rnational campaigns to raise awareness of the		
0	b. No, but action is planne	d and funding identified			
	c. No, but action is planne	_			
	d. No	a and funding is sought			
Please	provide further details:				
	J .	pated in reviewing or de nal genetic resources (Sl	eveloping international policies and regulatory P 21)?		
\circ	b. No, but action is planne	d and funding identified			
\circ	c. No, but action is planne	d and funding is sought			
\circ	d. No				
Please	provide further details:				
EMERGING ISSUES					
EIVIE	KGING 1330E3				
any a but w descr	spects of animal genet ill be important to add	ic resources management ress in the future (appro- re important and indicate	ntries may wish to update the GPA, please list nt that are not addressed in the current GPA eximately the next ten years). Please also be what needs to be done to address them.		
Issu		easons	Actions required		

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