



## LEGAL AND POLICY FRAMEWORKS AFFECTING THE MANAGEMENT OF ANIMAL GENETIC RESOURCES - 2013 -

Country: Thailand

### SECTION 1: SUSTAINABLE USE, DEVELOPMENT AND CONSERVATION OF ANIMAL GENETIC RESOURCES

This section targets information on legislation and policies related specifically to the management of animal genetic resources, i.e. to:

- characterization, surveying and monitoring;
- sustainable use and development;
- conservation; and
- research and development related to animal genetic resources management.

It also includes issues related to patenting and access and benefit sharing. Instruments in these fields of action may or may not include specific provisions related to animal genetic resources or to relevant broader categories such as living organisms or genetic resources for food and agriculture.

#### 1. Overall management of animal genetic resources

*Note: In the policy field, this might include, for example, a national strategy and action plan for animal genetic resources.*

Legislation  Policy

Details of the measure(s)

1. National council regulation of biodiversity conservation and utilization.  
The rules and procedures for access to biological resources and benefit sharing 2011
2. Act of native animal promotion and conservation (draft in process of developing)
3. The policy of integrated management of biodiversity. year 2013-2021 (draft in the process of consideration)
4. Local animal registration implement of CBD

Impact on animal genetic resources management

1. Protect animal genetic resource from endanger
2. Animal genetic resources is sustainable use.
3. Food security

Future needs

1. Capacity building
2. Inventory system

#### 2. Integration of animal genetic resources management with the management of other genetic resources for food and agriculture (plant, forest or aquatic genetic resources)

Legislation  Policy

Details of the measure(s)

The policy of integrated management of biodiversity. year 2013-2021 (draft in the process of consideration)

Impact on animal genetic resources management

1. Protect animal genetic resource from endanger
2. Animal genetic resources is sustainable use
3. Food security

Future needs

1. Capacity building
2. Inventory system

#### 3. Surveying and monitoring of animal genetic resources

Legislation  Policy

Details of the measure(s)

1. The policy of integrated management of biodiversity. year 2013-2021 (draft in the process of consideration)  
2. <http://www.dld.go.th/ict/> (animal production statistics)

Impact on animal genetic resources management

1. Protect animal genetic resource from endanger  
2. Animal genetic resources is sustainable use  
3. Food security

Future needs

1. Capacity building  
2. Inventory system

#### 4. Official recognition of livestock breeds

Legislation  Policy

Details of the measure(s)

1. National council regulation of biodiversity conservation and utilization.  
The rules and procedures for access to biological resources and benefit sharing 2011  
2. Act of native animal promotion and conservation (draft in process of developing)  
3. The policy of integrated management of biodiversity. year 2013-2021 (draft in the process of consideration)

Impact on animal genetic resources management

1. Animal genetic resources is sustainable use  
2. Food security

Future needs

1. Capacity building  
2. Inventory system

#### 5. Animal breeding and genetic improvement strategies

Legislation  Policy

Details of the measure(s)

Strategy of animal production of department of livestock development  
- Dairy cattle  
- Beef cattle  
- Buffalo  
- Small ruminants  
- Swine  
- Poultry

Impact on animal genetic resources management

1. Animal genetic resources is sustainable use  
2. Food security

Future needs

1. Capacity building  
2. Inventory system

#### Do these measures address:

##### 5.1 Animal identification and recording

*Note: Sections 2 and 3 include questions on traceability and on animal identification as it relates to animal health. If relevant, please use cross-references to indicate that a given law or policy affects more than one field of action.*

Legislation  Policy

Details of the measure(s)

- Act of animal disease control  
- Regulation of good animal husbandry practice (traceability is in this details)

Impact on animal genetic resources management

1. Disease control

2. Tracability  
3. Animal genetic improvement

Future needs

1. Capacity building  
2. Inventory system

## 5.2 The establishment and operation of breeders' associations

Legislation  Policy

Details of the measure(s)

- Thai Brahman breeder's association  
- Swine breeder's association

Impact on animal genetic resources management

- Animal genetic improvement  
- Food security

Future needs

1. Capacity building  
2. Inventory system

## 6. Use of reproductive biotechnologies (excluding zoosanitary issues)

*Note: Zoosanitary issues are covered in Section 3.*

Legislation  Policy

Details of the measure(s)

- Frozen semen and AI  
- Embryo transfer  
- Cloning

Impact on animal genetic resources management

- Frozen semen and AI is practical in farmers controlled by department of livestock development

Future needs

1. Capacity building  
2. Inventory system

## 7. Genetic modification of animals used for food and agriculture

Legislation  Policy

Details of the measure(s)

Impact on animal genetic resources management

Future needs

## 8. Suitability of imported genetic material for use in local production environments

*Note: For example, rules requiring a "genetic assessment" before genetic material can be introduced.*

Legislation  Policy

Details of the measure(s)

- Frozen semen  
- Embryo

Impact on animal genetic resources management

- Animal genetic improvement  
- Food security

Future needs

## 9. Conservation programmes for animal genetic resources

Legislation

Yes

Policy

Yes

Details of the measure(s)

- In situ conservation in government farm
- In situ conservation in farmers
- In situ conservation in private company
- Ex situ conservation government laboratories
- Regulation of locally animal breed registration and developed of ABS

Impact on animal genetic resources management

- Conservation of animal genetic resources
- Protect animal genetic resources from endanger
- Food security

Future needs

Capacity building

### Do these measures include provisions specifically related to:

#### 9.1 *In vivo* conservation

Legislation

Yes

Policy

Yes

Details of the measure(s)

- In situ conservation in government farm
- In situ conservation in farmers
- In situ conservation in private company
- Regulation of locally animal breed registration and developed of ABS

Impact on animal genetic resources management

- Conservation of animal genetic resources
- Protect animal genetic resources from endanger
- Food security

Future needs

- Capacity building
- Inventory system

#### 9.2 Cryoconservation

Legislation

Yes

Policy

Yes

Details of the measure(s)

- Ex situ conservation government laboratories and gene bank

Impact on animal genetic resources management

- Conservation of animal genetic resources
- Protect animal genetic resources from endanger
- Food security

Future needs

- Capacity building
- Expand for gene bank system
- Inventory system

## 10. Research and development related to animal genetic resources management

Legislation

Yes

Policy

Yes

Details of the measure(s)

Lack of research and development

Impact on animal genetic resources management

Future needs

- Capacity building  
- Inventory system

## 11. Patenting

Legislation

**If legislation is in place or under development, does/will it include provisions (including exemptions) specifically targeting:**

Animal genetic resources for food and agriculture

Living organisms in general

Details of the measure(s)

Impact on animal genetic resources management

Future needs

## 12. Access and benefit sharing arrangements

*Note: The Secretariat of the Commission on Genetic Resources for Food and Agriculture, on 8 August 2013, invited countries to report on the conditions under which genetic resources for food and agriculture are exchanged and used (Circular State Letter C/ NRD-5). Please coordinate responses within your country.*

Legislation

Policy

**If instruments are in place or under development, do/will they include provisions (including exemptions) specifically targeting:**

Animal genetic resources for food and agriculture

Genetic resources for food and agriculture in general

Details of the measure(s)

1. National council regulation of biodiversity conservation and utilization.  
The rules and procedures for access to biological resources and benefit sharing 2011  
2. Act of native animal promotion and conservation (draft in process of developing)

Impact on animal genetic resources management

Future needs

- Capacity building  
- Inventory system

## SECTION 2: MARKETING AND CONSUMER INFORMATION AND PROTECTION

This section targets information on legislation and policies addressing the marketing of animal products, including those addressing:

- the production and marketing of organic products;
- the production and marketing of products sold under protected designations of origin or similar labels;
- production and marketing of products sold under labels indicating adherence to animal-welfare-related standards; and
- food safety.

While some policies and legislation in these fields of action may include specific references to animal genetic resources, it is likely that many will not. The latter may, nonetheless, have indirect effects on animal genetic resources and their management. Consumer demand for animal products often has a major influence on the use and development of animal genetic resources. A lack of demand may place a breed at risk of extinction. Marketing initiatives for breed-specific products, or products from production systems in which locally adapted breeds are kept, can provide a means of promoting the use of at-risk breeds and reducing the risk that they will become extinct. Legislation and policies that facilitate initiatives of this kind can have a positive effect in terms of the maintenance of animal genetic diversity. Conversely, legislation and policies that inhibit the marketing of particular types of products, or products from particular locations or production systems, may inhibit the use of animal genetic resources associated with these products, locations or production systems.

### 1. Marketing of animal products in general

Note: This question refers to measures that are not specifically focused on market subsectors such as organic products or products with designated labels of origin.

Legislation  Policy

Details of the measure(s)

- Native chicken meat
- Herbal pig meat
- Herbal native chicken meat
- Organic dairy milk
- Organic goat milk
- Organic chicken meat
- Organic pig meat
- Natural beef
- Organic egg
- Free range egg

Impact on animal genetic resources management

- Increase in farmer's income
- Promote to conservation of animal genetic resources
- Food security

Future needs

- Capacity building
- Inventory system

### 2. Production and marketing of organic products

Legislation  Policy

Details of the measure(s)

Organic livestock standards

Impact on animal genetic resources management

- Increase in farmer's income
- Promote to conservation of animal genetic resources
- Food security

Future needs

- Capacity building
- Inventory system

### 3. Production and marketing of products sold under protected designations of origin or similar labels

Legislation  Policy

Details of the measure(s)

Impact on animal genetic resources management

Future needs

### 4. Production and marketing of products sold under labels indicating adherence to particular animal welfare-related standards

Note: For example, rules relating to the marketing of products as "free range" or under similar designations. Basic animal welfare legislation (i.e. not specifically related to marketing) is covered in Section 3.

Legislation  Policy

Details of the measure(s)

Regulation of animal welfare

Impact on animal genetic resources management

Future needs

### 5. Safety of food products from animals

*Note: If relevant, include measures related to the marketing of products derived from genetically modified organisms.*

Legislation

Yes

Policy

Yes

Details of the measure(s)

Animal product standard

Impact on animal genetic resources management

Future needs

### 6. Traceability of animal-origin products

*Note: Sections 1 and 3 include questions on animal identification as it relates to breeding and to animal health. If relevant, please use cross-references to indicate that a given law or policy affects more than one field of action.*

Legislation

Yes

Policy

Yes

Details of the measure(s)

Impact on animal genetic resources management

Future needs

## SECTION 3: ANIMAL HEALTH AND WELFARE

This section targets information on legislation and policies addressing animal health and animal welfare. While some policies and legislation in these fields may include specific references to animal genetic resources, it is likely that many will not. The latter may, nonetheless, have indirect effects on animal genetic resources and their management. Animal genetic resources and their management can be affected both by the direct effects of animal diseases and by the effects of measures taken to control animal diseases. For example, a disease epidemic may threaten the existence of at-risk breeds, particularly if their populations are concentrated geographically. Animal diseases, as influenced by the presence or absence of effective animal health services, can also influence the type of animal genetic resources that can be kept in particular locations, influence breeding objectives and/or affect the economic sustainability of livestock-keeping livelihoods. Compulsory culling measures used to control disease epidemics may pose a threat to geographically concentrated breed populations. Legal restrictions on the import of genetic material because of zoosanitary reasons may affect breeders' access to genetic resources. Legal restrictions on livestock movements, restrictions on particular husbandry practices, or onerous requirements for animal health-related actions on the part of livestock keepers (or in the food processing and marketing chain), may inhibit the keeping of animal genetic resources associated with the production systems targeted. Zoosanitary legislation related to the use of semen, embryos and other genetic materials may have implications for cryoconservation programmes. Legal and policy frameworks related to animal welfare might promote or inhibit the keeping of animals in particular production systems or the use of animals to provide specific products or services. In turn, these developments might promote or inhibit the continued use of the animal genetic resources associated with the respective production systems, products or services.

### 1. Delivery of animal health services and control of animal diseases

Legislation

Yes

Policy

Yes

Details of the measure(s)

Act of animal disease control

Impact on animal genetic resources management

- GAHP

- Food safety

Future needs

**Do these measures include provisions specifically related to:**

**1.1 Animal identification**

*Note: Sections 1 and 2 include questions on animal identification as it relates to breeding and on traceability. If relevant, please use cross-references to indicate that a given law or policy affects more than one field of action.*

Legislation  Yes

Policy  Yes

Details of the measure(s)

- Act of animal disease control  
- Regulation of animal movement

Impact on animal genetic resources management

Future needs

**1.2 Control of the import of animal genetic resources (live breeding animals and/or germplasm) for zoosanitary reasons**

Legislation  Yes

Details of the measure(s)

- Act of animal disease control  
- Regulation of animal movement

Impact on animal genetic resources management

Future needs

**1.3 Control of the export of animal genetic resources (live breeding animals and/or germplasm) for zoosanitary reasons**

Legislation  Yes

Details of the measure(s)

- Act of animal disease control  
- Regulation of animal movement

Impact on animal genetic resources management

Future needs

**1.4 Zoosanitary rules related to the use of reproductive technologies**

Legislation  Yes

Details of the measure(s)

- Frozen semen and AI  
- Embryo transfer

Impact on animal genetic resources management

Future needs



### 1.5 Control of livestock movements (within the country) for zoonosanitary reasons

Legislation

Details of the measure(s)

- Act of animal disease control  
- Regulation of animal movement

Impact on animal genetic resources management

Future needs

### 1.6 Restrictions or compulsory actions related to husbandry practices (for zoonosanitary reasons)

Legislation

Details of the measure(s)

GAHP of farm standards

Impact on animal genetic resources management

Future needs

### 1.7 Compulsory culling in the event of outbreaks of specific diseases

Legislation

**If legislation is in place or under development, does/will it include provisions to protect at-risk animal genetic resources from the effects of culling programmes?**

Details of the measure(s)

Different in each disease

Impact on animal genetic resources management

Future needs

## 2. Animal welfare

Legislation  Policy

Details of the measure(s)

GAHP in animal farm and slaughter house

Impact on animal genetic resources management

Future needs

## SECTION 4: AGRICULTURE, LAND USE AND NATURAL RESOURCES MANAGEMENT

This section targets information on legislation and policies that address the overall management of the production systems, ecosystems and environments within which animal genetic resources are used and developed. The questions address the following main topics:

- general frameworks or strategies for rural development;
- agriculture, land use and natural resources management;
- management of biodiversity;
- other aspects of environmental protection;
- overall livestock-sector development;
- management of rangelands and other grazing lands;
- establishment of livestock farms or holdings
- establishment and operation of civil society organizations in the livestock sector
- participation of livestock keepers in decision-making in livestock-sector development; and
- prevention, preparedness and response to natural or human-induced disasters

While some policies and legislation in these fields may include specific references to animal genetic resources, it is likely that many will not. The latter may, nonetheless, have indirect effects on animal genetic resources and their management. For example, policies and legislation that promote or constrain the keeping of livestock in particular production systems, for particular purposes or in particular geographical areas may promote or discourage the use of the animal genetic resources associated with these systems/uses/locations (hence possibly affecting their risk status), lead to the establishment of breeding objectives targeting the development of animals suitable for the favoured systems/uses/locations or lead to the import of genetic resources suitable for these systems/uses/locations.

### 1. General framework or strategy for sustainable agriculture, land use and natural-resources management

*Note: This question relates to broad strategic-level instruments such as national agricultural or rural development policies, strategies or laws. Instruments related to specific aspects of agricultural and rural development should be described under other questions as and where relevant.*

Legislation

Policy

Details of the measure(s)

Impact on animal genetic resources management

Future needs

### 2. Management of biodiversity

*Note: Please use this question to provide information on the general framework for managing all aspects of the country's biodiversity (e.g. instruments related to the designation and management of protected areas). Include, for example, information on whether animal genetic resources issues are included in your country's National Biodiversity Strategy and Action Plan and on any provisions addressing potential conflicts, or perceived conflicts, between the management of animal genetic resources and the management of other elements of biodiversity. Specific animal genetic-resources-related instruments (e.g. National Strategy and Action Plans for Animal Genetic Resources) should be reported in Section 1 (Question 1).*

Legislation

Policy

Details of the measure(s)

Impact on animal genetic resources management

Future needs

### 3. Environmental protection

*Note: Instruments specifically targeting the management of biodiversity are covered under Question 2. Please use this question to provide information on instruments addressing other environmental issues (e.g. addressing pollution of land and water, deforestation, climate change, water use or flood protection). If an instrument addresses both biodiversity and other aspects of environmental protection, please indicate this using a cross-reference to your answer to Question 2.*

Legislation

Policy

Details of the measure(s)

Impact on animal genetic resources management

Future needs

#### 4. Overall development of the livestock sector

*Note: This question relates to broad strategic-level instruments addressing the livestock sector as a whole, such as national livestock development strategies or laws. Instruments related to specific aspects of livestock development should be described under other questions as and where relevant.*

Legislation

Yes

Policy

Yes

**If provisions are in place or under development do/will they include:**

#### Particular provisions aimed at supporting livestock keeping in harsh production environments

*Note: Please consider direct and indirect forms of support (e.g. grants or subsidies, favourable access to credit or livestock services, facilitation of market access).*

Legislation

Policy

#### Particular provisions aimed at supporting large-scale, high external input or export-oriented production systems or supporting management practices associated with such systems

*Note: Please consider direct and indirect forms of support (e.g. grants or subsidies, subsidized inputs, favourable access to credit or livestock services, support for infrastructure development or mechanization).*

Legislation

Policy

Details of the measure(s)

Impact on animal genetic resources management

Future needs

#### 5. Management of and access to rangelands or other grazing lands

Legislation

No

Policy

Yes

Details of the measure(s)

Impact on animal genetic resources management

Future needs

#### 6. Establishment of livestock farms or holdings

*Note: This question relates to planning rules related to the size, location, ownership, registration, etc. of livestock farms or holdings.*

Legislation

Yes

Policy

Yes

Details of the measure(s)

Impact on animal genetic resources management

Future needs

### 7. Establishment and operation of civil society organizations in the livestock sector

*Note: Instruments specifically related to organizations focused on breeding (genetic improvement) activities are covered in Section 1 (Question 5.2). Please use the present question to provide information on instruments of a more general nature (e.g. related to the operation of cooperative societies or community organizations).*

Legislation

Policy

Details of the measure(s)

Impact on animal genetic resources management

Future needs

### 8. Participation of livestock keepers in decision-making related to the development of the livestock sector

Legislation

Policy

Details of the measure(s)

Impact on animal genetic resources management

Future needs

### 9. Prevention, preparedness and response to natural or human-induced disasters

Legislation

Policy

**If instruments are place or under development, do/will they include any provisions specifically targeting:**

#### Animal genetic resources

*Note: For example, measures targeting the protection of at-risk breeds.*

Legislation

Policy

#### Livestock in general

Legislation

Policy

Details of the measure(s)

Impact on animal genetic resources management

Future needs

### SECTION 5: ADDITIONAL INFORMATION

Please provide information on any aspects of your country's legal and policy framework that affect animal genetic resources and their management but are not covered by any of the questions above.

Submit by e-mail