



SCREENING CHAPTER 12
FOOD SAFETY, VETERINARY AND PHYTOSANITARY POLICIES

AGENDA ITEM 13: ZOOTECHNICS

Country Session: Republic of Turkey
24-28 April 2006



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I. LEGAL BASIS AND COMMITTEES



- Law no. 4631 on Improvement of Animal Breeds
- Law no. 3285 on Animal Health Control
- Law no.6132 on Horseracing
- Implementing Regulation Rules and Procedures for Establishment and Operation of Embryo and Sperma Production Centers
- Implementing Regulation on Establishment of and Services Provided by Breeder Organisations
- Implementing Regulation on Rules and Procedures for Animal Pre-herdbook and Herdbook
- Implementing Regulation on the Registration of Pure-bred Arabian Horses and Thoroughbred to the Stud Book



- Implementing Regulation on Rules and Procedures Establishment and Operation of National Animal Breeding Committee
- Implementing Regulation on the Identification, Registration and Monitoring of Bovine Animals
- Implementing Regulation on the Registration of Animal Breeds
- Implementing Regulation on Rules and Procedures for Artificial Insemination, Natural Insemination and Ovum, Embryo Transfer Activities
- Implementing Regulation on the Protection of Animal Gene Resources
- Implementing Regulation on Rules and Procedures for Establishment, Operation and Inspection of Animal Establishments



Committees for Breeding Activities

- National Committee on Protection of Animal Gene Resources
- Committee on Animal Race Registry
- National Animal Breeding Committee



Protection and Registration of Domestic animal gene resources

Protection

➤ by Research Institutes

- ✓ 13 domestic animal races (4 cattle, 1 water buffalo, 4 sheep, 1 goat, 2 hen, 1 bee race)
- ✓ 3 species of silkworm

➤ by Public

- ✓ 7 bovine and 16 small ruminants

Registration

- ✓ 5 cattle, 1 water buffalo, 11 sheep, 4 goat, 2 hen, 1 rabbit, 1 dog, 1 cat and 1 bee race
- ✓ 3 silkworm species and 3 laying stud hybrids.



II. BOVINE ANIMALS



Central Cattle Breeder's Association of Turkey (CBAT) and Ministry of Agriculture and Rural Affairs (MARA)

- Maintain
 - ✓ Pre-herdbook
 - ✓ Herdbook
- Carry out progeny tests



Cattle Breeder Associations

- Established in 1995
- Central Union was established in 1998
- Herdbook practices started by MARA and CBAT in 2000
- Electronic data base has been active since 2005
- Since CBAT is a member of ICAR (International Committee for Animal Recording) the system has been created towards ICAR rules.



Pre-herdbook

- A temporary registry system (Parent, Artificial Insemination, Registry of establishment etc.)
- Activities towards
 - Identification of animals
 - Preparation for herdbook
 - Registration of insemination
 - Monitoring the movements of animals kept for breeding
 - Meeting the need for certificated animal kept for breeding practices



Evolution of Pre-Herdbook

	2000	2001	2002	2003	2004	2005	01.04.2006
Number of province	81	81	81	81	81	81	81
Number of farms	28 293	177 168	230 340	452 253	569 886	875 616	930 155
Number of female animal	111 875	531 518	764 784	1 246 629	1 586 324	2 314 271	2 550 856

SOURCE: MARA and CBAT



Herdbook (1)

- A registry system on a national base, basic for breeding, for individual records of animals and yield registries on individual holdings with five dairy cows and more
- This system operates at 65 provincial cattle breeder associations that are connected to centre.



Herdbook (2)

Activities towards

- ✓ Identifying the cattle with eartag
- ✓ Determination of each cows' milk efficiency once a month
- ✓ Determination of milk fat content in approximately %5 of all the holdings with a target of covering all of the holdings.
- ✓ Registration of calving, insemination and all other information on herd
- ✓ Classification (Type assessment)
- ✓ Breed on purpose
- ✓ Certification
- ✓ Breeding assessment (e.b.v.:estimating of breeding value)
- ✓ Progeny testing



Evolution of Herdbook

	2000	2001	2002	2003	2004	2005	01.04.2006
Number of province	25	26	28	38	47	57	65
Number of farms	5 087	7 328	8 442	13 442	21 937	34 545	38 165
Number of female animals	96 144	148 717	178 471	271 948	435 351	695 636	746 120

SOURCE: MARA and CBAT



Progeny Testing

- Progeny testing practices, started in 2000, performed in provinces that are members of CBAT
- Each year 20 bulls on average has been included in the scope
- 1 813 291 unit sperma has been produced
- There are 1 254 341 unit sperma under stock for use after the test results



III. PORCINE, OVINE AND CAPRINE ANIMALS



- No herdbook for porcine animals

Sheep and Goat

- Five breeder associations were established until 2005 and one breeder association in 2006
- Holdings with at least 25 head of ewe-nannygoat can be registered to these associations



IV. EQUIDAE



Native, regional and half breed horses, donkeys and mules are not registered to stud books. However given an identity card that include

- its owner name and address
- its species, breed, sex, colour and marks that help to identify the animals



V. EQUIDAE INTENDED FOR COMPETITIONS



- Competent Authority for official horseracing is MARA
- Turkey has been a member
 - IFHA (International Federation of Horseracing Authorities)
 - ISBC (International Stud-book Committee)
 - WAHO (World Arabian Horse Organisation)
 - IFAHR (International Federation of Arabian Horseracing Authorities)
 - ARF (Asian Racing Federation)
- Provisions of IFHA and FEI are enforced for horseracing
- ISBC rules are applied for registrations to stud book of Thoroughbred horses while WAHO rules are applied registration to stud book of Pure Bred Arabian Horses

General Requirements for Registration

- Horses' parents should be registered in an international stud-book.
- Mother and father verifications should be done (by DNA or blood type test)
- Thoroughbreds should be born by natural mating
- Stud-book information should include at least past six generations
- All other information should be included



Information for Identification

- Name (Thoroughbred can be registered without a name which can included later)
- Breed
- Sex
- Colour
- Date and place of birth
- Name and address of the owner
- DNA/Blood type report
- Micro-chip number
- Identification inspection report, arranged by official veterinarian (diagram which shows all marks noted on the horse)
- Photograph of the horse

Passport include

- Stud-book information of Horses
- Identity/identification information
- Owner and breeder information
- Control register information
- Vaccination information
- Laboratory test information
- Medical treatment information
- Customs register information
- General requirements

sections



VI. OTHER PURE-BREED ANIMALS



Poultry

- For poultry breeding, base lines are imported.
- For hatching hens, a breeding practice is carried on at one research institute.
- There is no breeding practice for Broiler line
- Establishments are registered according to related implementing regulation.
- Information pertaining to poultry holdings is included in the veterinary information system (VIS)
- Currently 8 235 pens are registered (approximately % 50) and total capacity of these pens is 696 702 197 animals



Bees

- Currently, there are 74 Provincial Apiculture Association.
- A Central Association established by 18 provincial associations in 2003
- Establishments have more than 50 beehives can join the Breeder Associations.
- Number of members is 18 454 with 2 130 118 colonies



VII. IMPORT RULES FOR BREEDING MATERIAL



EU criteria is used on import of

- Broiler and laying hens breeds' hatching eggs and chicks
- Turkeys' hatching eggs and base line
- Ruminants' and small ruminants' semen, ova and embryos



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THANK YOU FOR YOUR ATTENTION