



Euroopa Maaelu Arengu
Põllumajandusfond:
Euroopa investeeringud
maapiirkondadesse



HORSE CONSERVATION AND BREEDING IN LITHUANIA



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Lithuanian horse breeding associations

Breeding associations - 9
different selection programs - 13
managed on the same national database
= AVIS

Breeding associations for
Endangered horse breeds – 3+1
different stud books -1+2+2+1
managed on AVIS

National Program for the conservation of the native farm animal genetic resources (1996 and renewal in 2008).

Lithuanian farm animal genetic resources include: old breeds (6)

Žemaitukai



Lithuanian Ash-grey



Lithuanian White-Backed



Lithuanian Coarse-Wooled



Lithuania indigenous
(Wattle)



„Vištinės“ geese



and breeds that were developed in the 20th century (6)

Large type Žemaitukai



Lithuanian Heavy Draught



Lithuanian Red
(old genotype)



Lithuanian Black-and-White
(old gen.)



Lithuanian Blackface



Lithuanian White
(old genotype)



Transboundary (1):

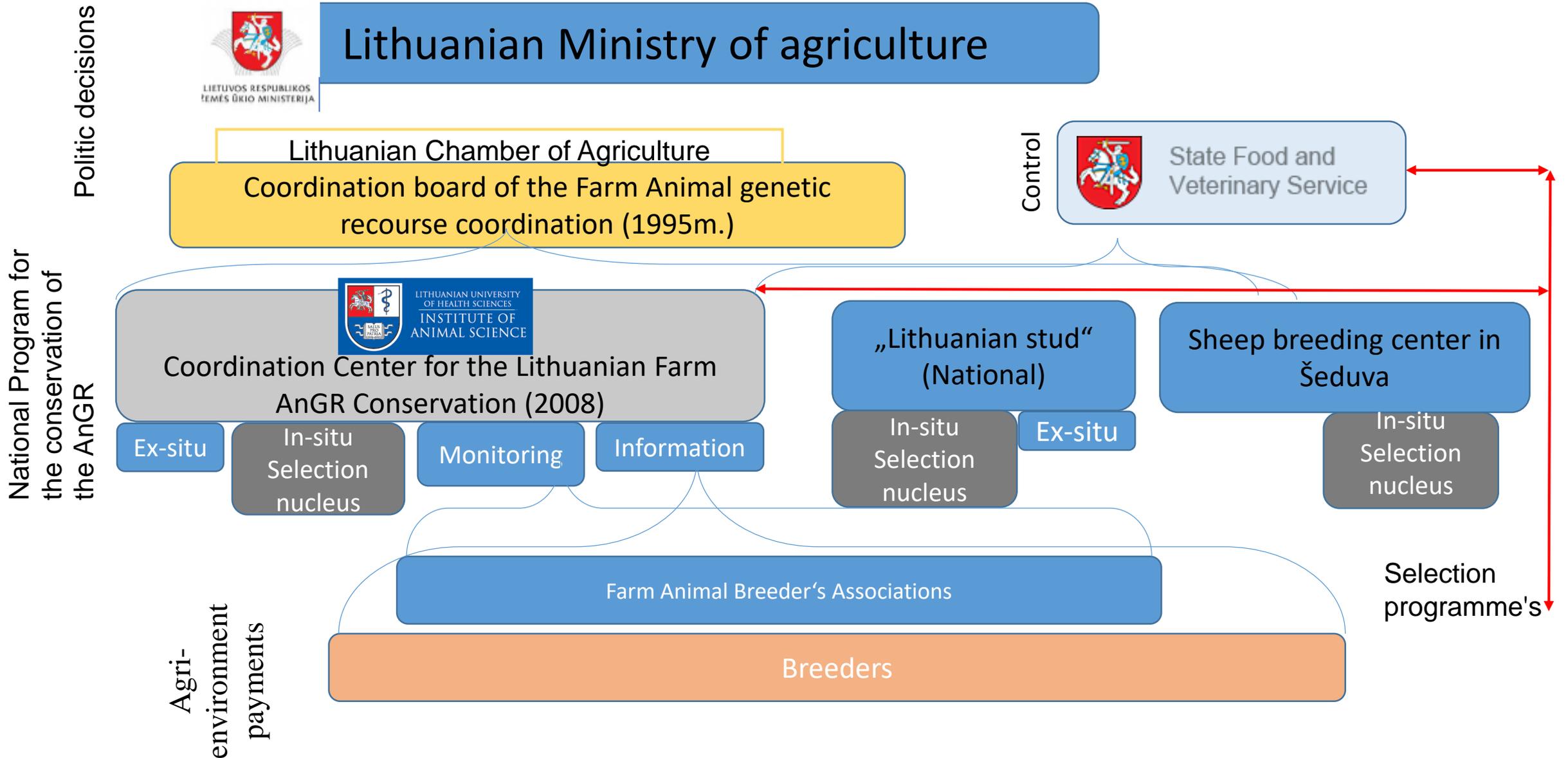
Trakehnen



Conservation of *AnGR* in Lithuania

- 1996 - The first National Programme for the conservation of farm animal genetic resources (*AnGR*) was adopted by the Ministry of Agriculture.
- The main purpose:
 1. to collect,
 2. to investigate and
 3. conserve Lithuanian *AnGR*.
- The programme was focused only for conservation *in-situ* of indigenous Lithuanian breeds.
- Later, unfavourable conditions have formed for breeds developed in 20th century and these breeds and conservation *ex-situ* were also included into conservation programme.
- In 2011 – old genotype Trakehnen populations were included to the programme like watch population.

Management scheme of *AnGR* in Lithuania

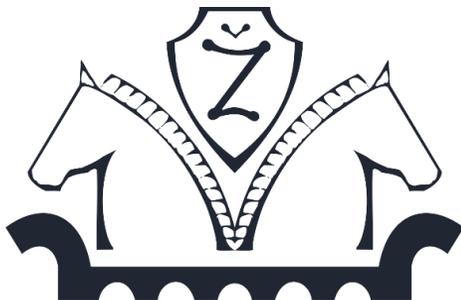


Distribution of horses at farms of different stakeholders in 2022-01

Breed	National selection nucleus with special requirements				Semen collection	Total in Lithuania			Agri-environment payments (horses)
	Lithuanian Stud		LSMU GI GGIC			Horse No	Ne	Keepers	
	Horse No	Lines/Families	Horse No	Lines/Families					
Žemaitukai	120/80 ¹	4/3	74/50 ¹	4/4	Yes	902	109	304	406
Large type žemaitukai	263/180 ¹	4/10	-	-	Yes	648	75 ² /67	161	331
Lithuanian Heavy drought	79/45 ¹	4/7	-	-	Yes	2268	280 ² /266	517	773
Trakehnen	417/232 ¹	6/10	-	-	Yes	975	61 ² /47	347	No



Žemaitukai Horse Breeders Association



Established in 1997

Zemaitukai Horse Studbook (from 1948)

Zemaitukai Horse -902

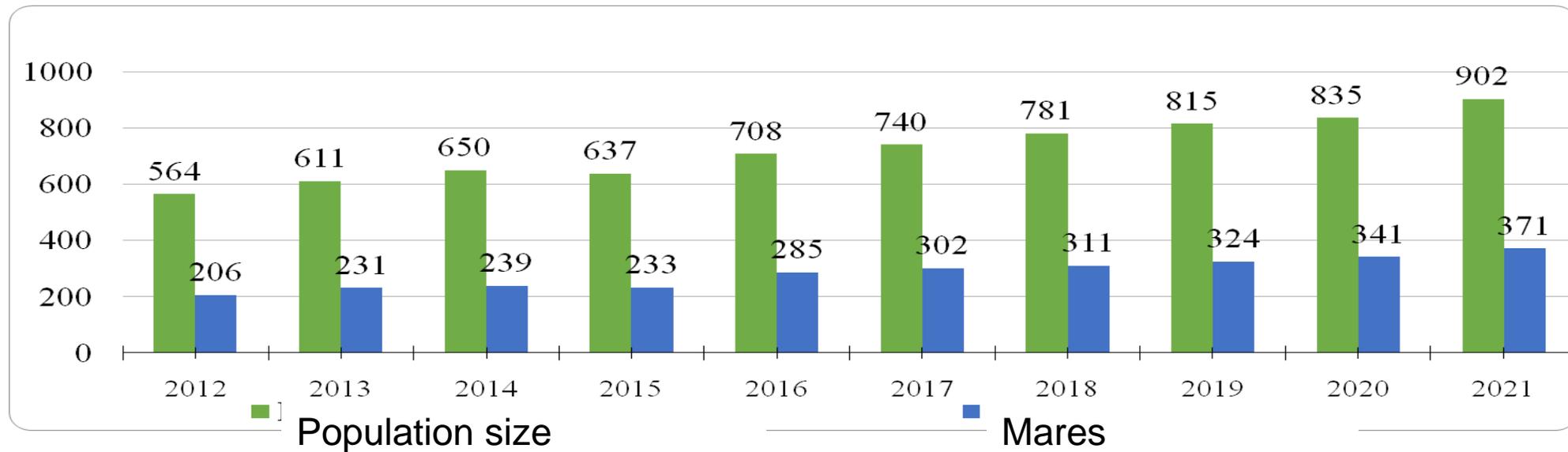
Selection programme approved -2019

Native breed known from 6th century
Height – 137 cm





Žemaitukai horses





1. Lithuanian Heavy Draught Horse Breeders Association

2. Association Lithuanian Heavy Draught Horse Conservation



LIETUVOS SUNKIŲJŲ ARKLIŲ VEISLĖS
IŠSAUGOJIMO ASOCIACIJA

Established in 1997 (2003)

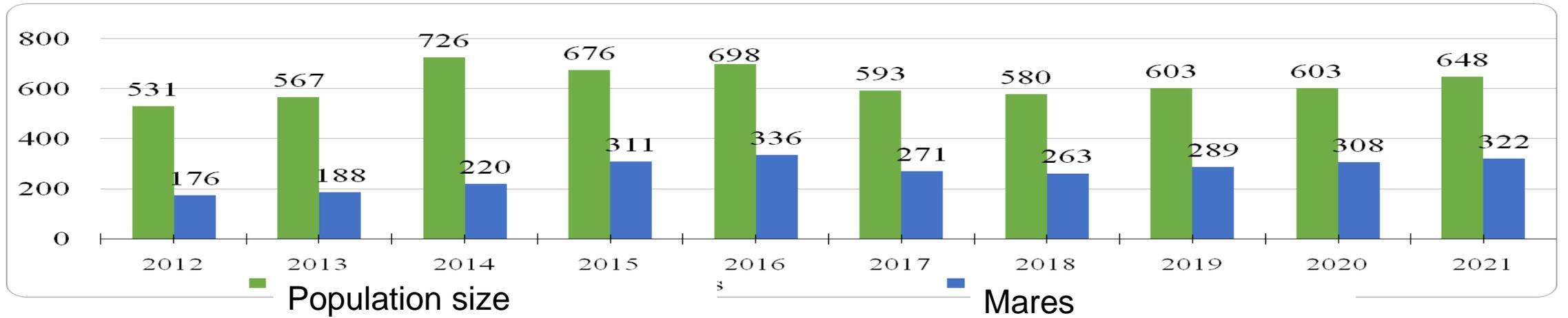
1. Lithuanian Heavy Draught Horse Studbook - 1711,
2. Large - Type Zemaitukai horse Studbook – 386.



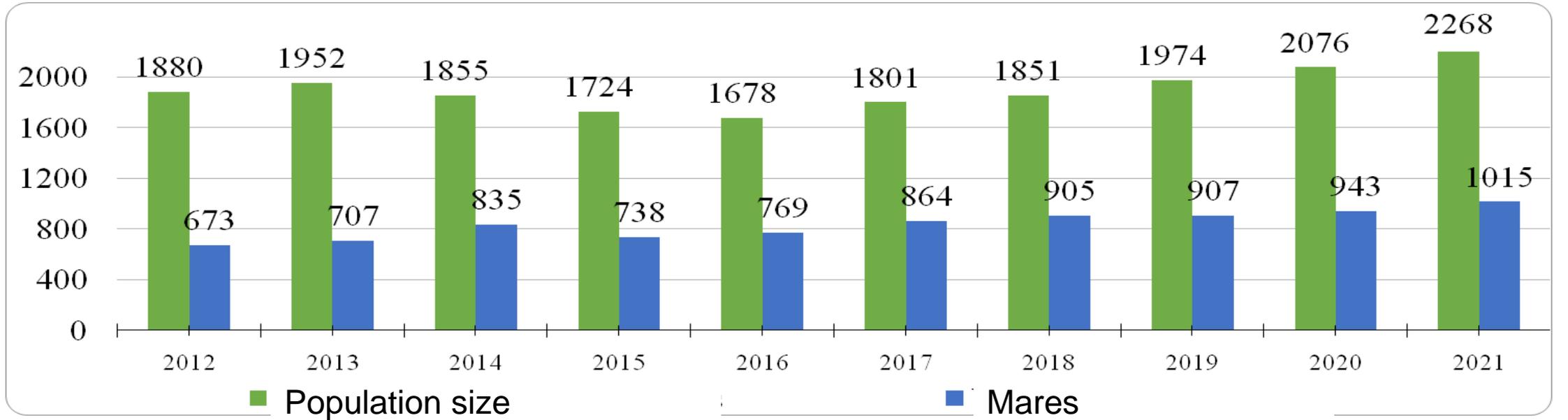
Established in 2021

1. Lithuanian Heavy Draught Horse Studbook - 552,
2. Large - Type Zemaitukai horse Studbook – 278.

Large type Žemaitukai



Lithuanian Heavy Drought horses



Differences between two breeding programs



Selection programme for the LTŽ

Approved in 2022-04

Preservation and improvement

Crossbreeding

- All breeds which participated in breed creation process can be approved and used in breeding programme.
 - Their offspring's in *1th* generation can be approved like purebred
- Other breeds and their crosses can be used, but
 - offspring will be approved like purebred just when other breed blood will be 1/16 (IV generation) for stallions
 - And 1/8 (III generation) for mares
- But the use of other breeds will not exceed **10 % of the total number of breeding foals received per year.**



LIETUVOS SUNKIŲJŲ ARKLIŲ VEISLĖS
IŠSAUGOJIMO ASOCIACIJA

Selection programme for the LTŽ

Approved in 2021-11

Conservation

- Exception for pure breeding –
 - Fort the expansion of genealogical structure of the breed, provision is made for the use the stallions of the North Swedish breed, but
 - the use of which will not exceed **10 % of the total number of breeding foals received per year.**
 - The use of imported stallions will be coordinated with the LSMU GI Lithuanian Coordination Centre for the Conservation of Farm Animal Genetic Resources.
- Purebred horses –
 - both parents are purebred;
 - or have > 75% of the Large type Žemaitukai breed and < 25% of the of the Northern Swedish breed blood
 - Have to be approved by standard of Large type Žemaitukai breed.

Differences between two breeding programs



Selection programme for the **LHD**

Approved in 2022-04

Preservation and improvement

Crossbreeding

- All breeds which participated in breed creation process can be approved and used in breeding programme.
 - Their offspring's in *1th* generation can be approved like purebred
- Other breeds and their crosses can be used
 - but offspring will be approved like purebred just when of other breed blood 1/16 (IV generation)
- But the use of other breeds will not exceed **10 % of the total number of breeding foals received per year.**



LIETUVOS SUNKIŲJŲ ARKLIŲ VEISLĖS
IŠSAUGOJIMO ASOCIACIJA

Selection programme for the **LHD**

Approved in 2021-06

Conservation

- Exception for pure breeding –
 - For the expansion of genealogical structure of the breed, provision is made for the use of the stallions of the Swedish Ardenen and Soviet Heavy Drought breed, but
 - the use of it will not exceed **10 % of the total number of breeding foals received per year.**
 - The use of imported stallions will be coordinated with the LSMU GI Lithuanian Coordination Centre for the Conservation of Farm Animal Genetic Resources.
- Purebred horses –
 - both parents are purebred;
 - or have > 75% of the Lithuania Heavy Drought breed and < 25% of the of the other breed blood
 - Have to be approved by standard of Lithuanian Heavy Drought breed.

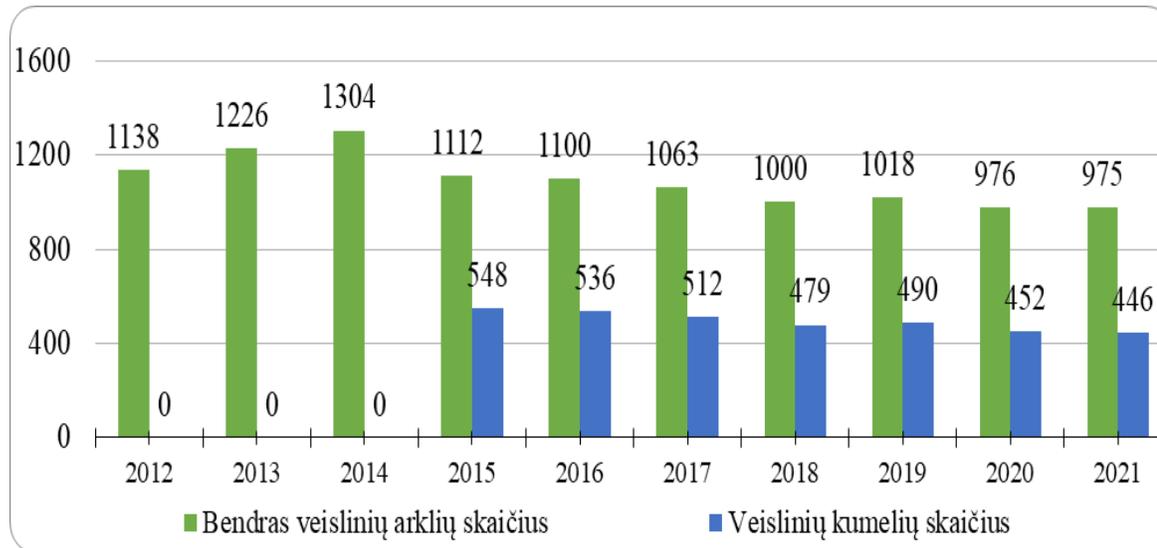
Lithuanian Trakehner Breeders Association



Established in 1993 (2000)

Trakehner Horse Studbook – 937 horses

Trakehner Verband



Selection programme - use of new imported stallions in old population can not exceed 10 % of the total number of breeding foals received per year

Thank you for your attention

