

Boerboel Genetic Evaluation

SA Stud Book

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0



Kennel Number: 612115



Estimated Breeding Values (EBVs)

Litter size and conformation traits are influenced by many genes, with every gene making a small contribution to the expression of the trait. These traits are, however, also influenced by physiological and physical environmental factors, for example the age and sex of the animal, the feeding and management the animal received and year x season effects. It is therefore not possible to know what the animal's genetic potential for the trait is by merely using the measurement.

With BLUP (*Best Linear Unbiased Prediction*) methodology an animal's genetic potential is predicted by making use of the genetic parameters (heritabilities and genetic correlations) of the breed, pedigree information, as well as the measurements of the animal as deviation from the average of the animals that were measured with the animal. Adjustments are made for differences in sex, age, classifier, management and year x season effects to ensure that fair comparisons are made amongst the animals. These predictions are called **EBVs (Estimated Breeding Values)** which indicates the animal's genetic potential for the specific trait and predicts the type of progeny that the animal will breed.

Pedigree information determines the genetic level at which the animal enters the genetic evaluation, it links the information of all relatives together and it is used to determine the genetic ranking of the breed. For young animals that were not yet measured, mid-parent EBVs are estimated, which are the average of the EBVs of the sire and dam. These breeding values are still inaccurate and can change a lot when more information (measurements) is included in subsequent genetic evaluations.

Breeding values therefore enables a breeder to compare his/her animals genetically to one another, as well as to all other animals of the breed. This Report gives a summary of the genetic levels of the active males and females of the relevant breeder in comparison to that of the breed for linearly classified traits and litter size. The genetic change that occurred over time can also easily be seen.

Breeding Value Indices (EBVi)

For easy interpretation, EBVs are standardised and expressed relative to the average (100) of the active animals of the breed, using 12 as standard deviation (SD). This means that an EBV of 100 is equal to the active average of the breed, and more or less 50% of the animals will have EBVi's of between 90 and 110, which indicates an average animal. Only 0.5% of the EBVi's will be lower than 64 and 0.5% will be higher than 136. Higher EBVi's indicate better genetic potential for the trait.

Accuracy

EBVs are published with an **accuracy value (%)**, which indicates how much info was available for the estimation of the EBV and with how much trust it can therefore be applied. Factors that influence the accuracy include heritability, completeness and correctness of pedigree information, number of own and measured relatives and the size of the group in which the animal was measured. When an accuracy of 85% and more is reached, the EBV should not change significantly with the inclusion of more information in subsequent genetic evaluations.

Kennel and Breed Averages: The different traits' averages of the breeder's active animals are compared to those of the breed in the Kennel and Breed Average Graphs and Tables. The breeder can therefore easily see for which traits the animals are above or below the average of the breed.

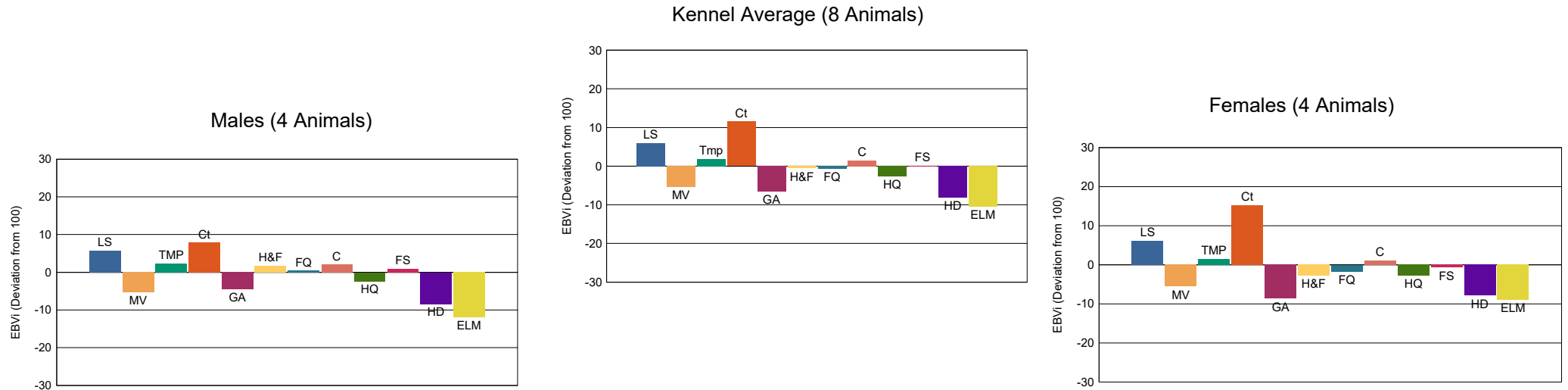
Genetic Trends: The Genetic Trends indicate the genetic change that occurred over time in the animals bred by the breeder compared to that of the breed. These are calculated as the average of the breeding values of all measured animals bred by the breeder, per year of birth.

Inbreeding: Inbreeding is the mating of related animals and is widely viewed as being harmful. The danger of inbreeding lies there in that it can gradually decrease fertility and survivability – a phenomenon known as inbreeding depression. It can cause lower conception rates, more abortions, more stillborn and weak offspring and a higher susceptibility to diseases. Indications in dogs include a low litter size as well as problems relative to fertility, such as invisible heat, behavioural problems when mating and low sperm quality. Overall, reduced litter size most likely reflects inbreeding depression in several traits, both physiological and behavioural, as well as a high frequency of non-viable embryos due to lethal alleles. Generally, the effects of inbreeding can become noticeable at a value of 6.25%, therefore it is generally recommended that individuals should have inbreeding coefficients of less than 6.25%. Breeders should therefore avoid matings causing inbreeding of more than 6.25% in the progeny. The theoretical maximum inbreeding coefficient is 50%. However, it should be noted that not all inbred animals show signs of inbreeding depression.

The data used in this evaluation was obtained from LOGIX from linear classifications that were done by the Breeder Society. All possible attempts have been made to present the information correctly. SA Stud Book does not accept responsibility for the use and interpretation of the information presented on animals in this publication.

Genetic Levels

Kennel Average relative to Breed Average, where Breed Average is indicated as 0



Average Breeding Value Indices (EBVi) where Breed Average = 100

Trait	All Animals	Males	Females
Litter size (LS)	106	106	106
Movement (Mv)	95	95	95
Temperament (Tmp)	102	102	102
Coat (Ct)	112	108	115
General Appearance	93	95	91
Head & Face (H&F)	99	102	97
Front Quarter (FQ)	99	100	98
Centre (C)	102	102	101
Hind Quarter (HQ)	97	98	97
Final Score (FS)	100	101	99
Hip Health (HH)	92	92	92
Elbow Health (ELM)	90	88	91

Inbreeding

Notes

Inbreeding primarily leads to decreased fertility, low survivability of pups and low disease resistance.

Inbreeding coefficients are calculated for all animals of the breed and indicates the probability that two genes of a pair are the same due to a common ancestor in the pedigree of the animal.

The adverse effects of inbreeding can be observed from 6.25% onwards.

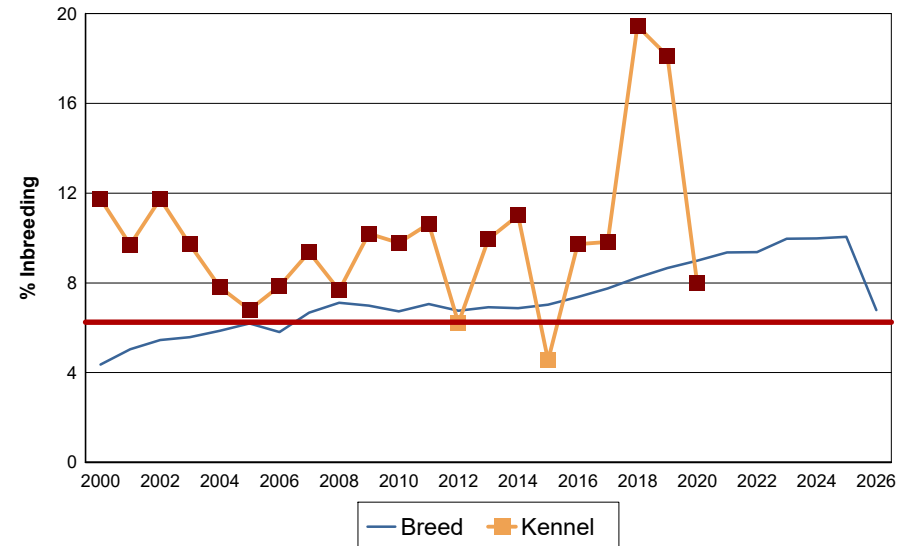
It is therefore highly recommended to record pedigree information as accurately. Inbreeding is dependent on pedigree information. Conventional methods for the calculation of inbreeding coefficients usually assume that unknown parents are unrelated, which is usually far from the truth. Inbreeding coefficients are therefore conservative indicators of the level of inbreeding.

Incomplete or incorrect pedigree information can be reported to SA Stud Book via the Breed Society.

Inbreeding Levels for Specific Matings

Progeny with Parents :	25%
Full Brother x Full Sister :	25%
Half Brother x Half Sister :	12.5%
One Common Grandparent :	6.25%
One Common Great-Grandparent :	3.125%

Rate of Inbreeding

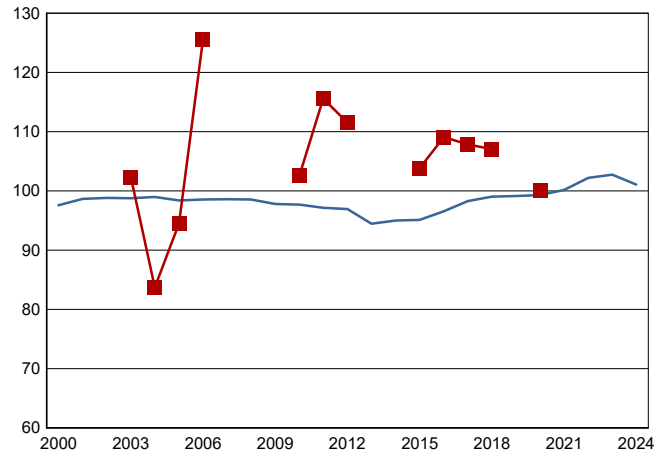


Inbreeding Levels

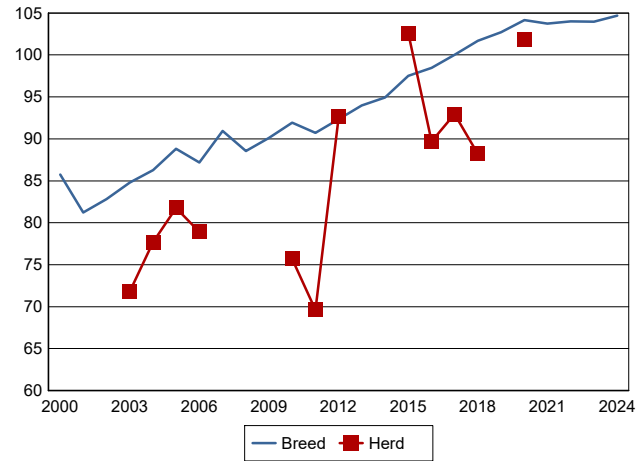
	All Animals		Males		Females		Sires		Dams	
	Kennel	Breed	Kennel	Breed	Kennel	Breed	Kennel	Breed	Kennel	Breed
Number	8	49007	4	25141	4	23857	6	3371	8	6287
Average Inbreeding	13.33	8.49	11.55	8.46	15.12	8.53	9.53	8.01	12.27	8.00
Number inbred	8	48727	4	24990	4	23728	6	24990	8	23728
Number >6.25% Inbr.	7	30600	3	15537	4	15058	5	15537	7	15058

Genetic Trends

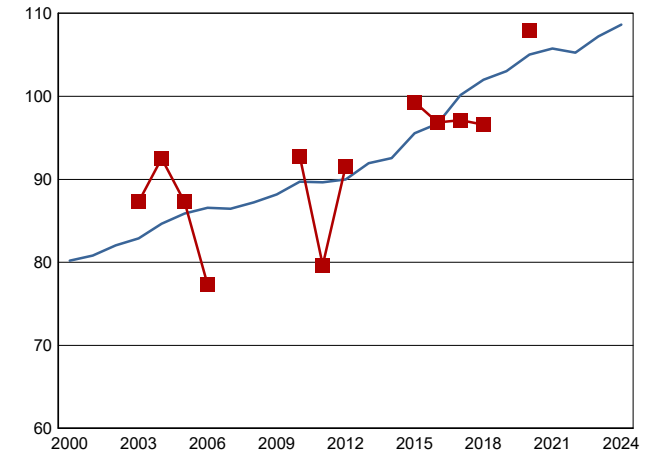
Litter Size



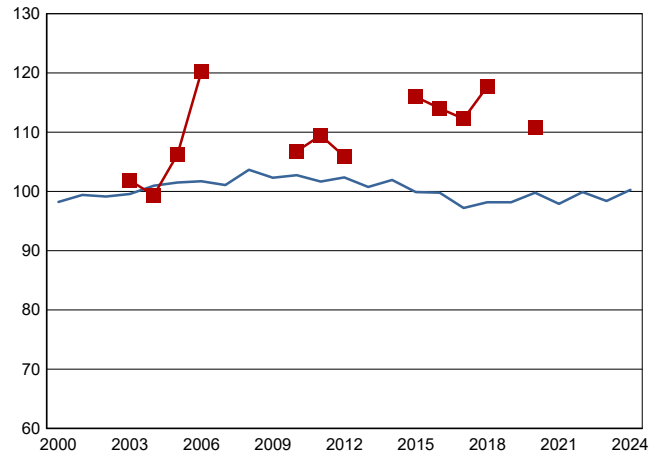
Movement



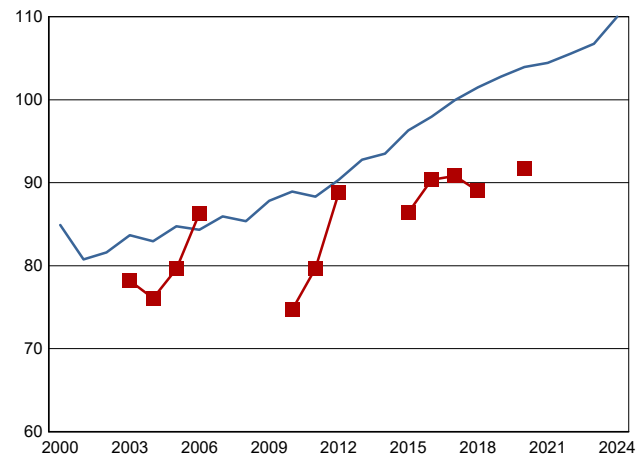
Temperament



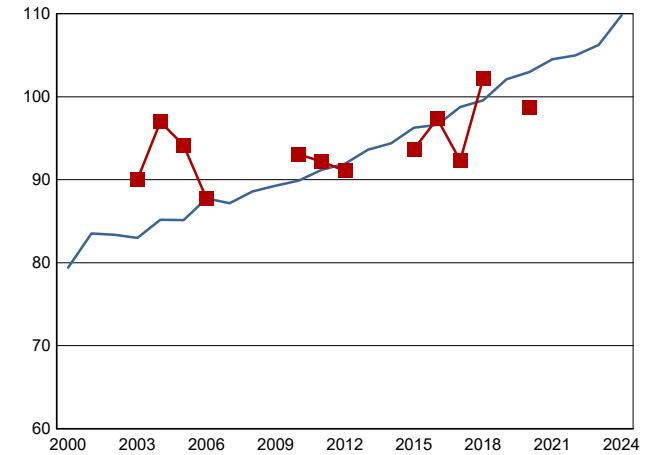
Coat



General Appearance

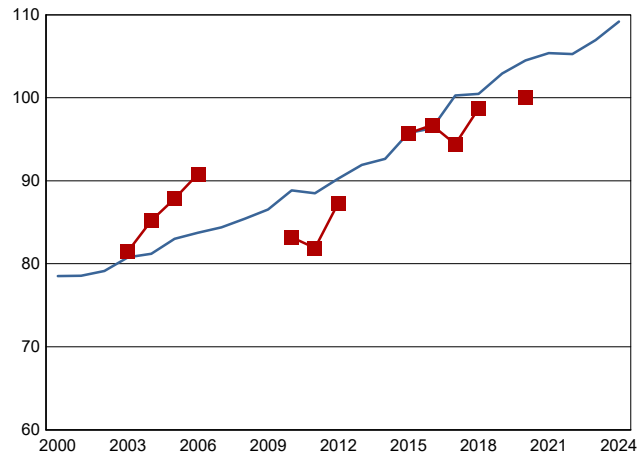


Head & Face

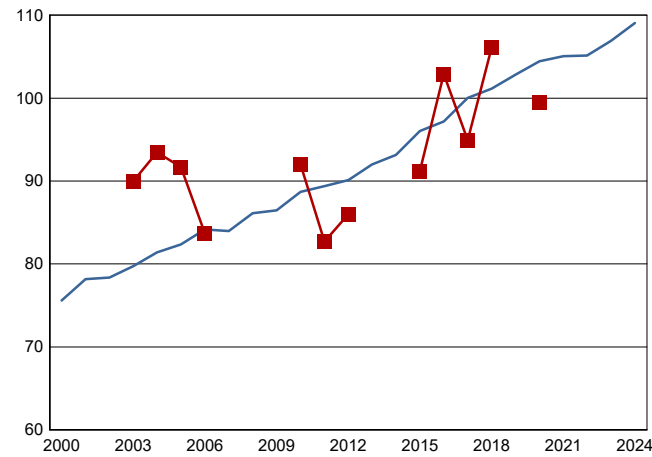


Genetic Trends

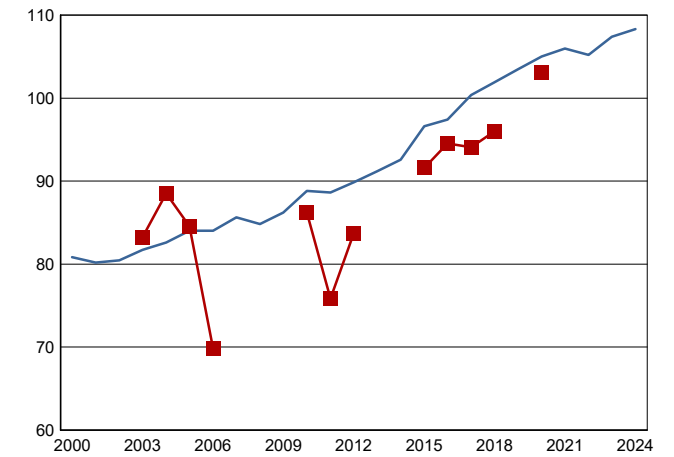
Front Quarter



Centre

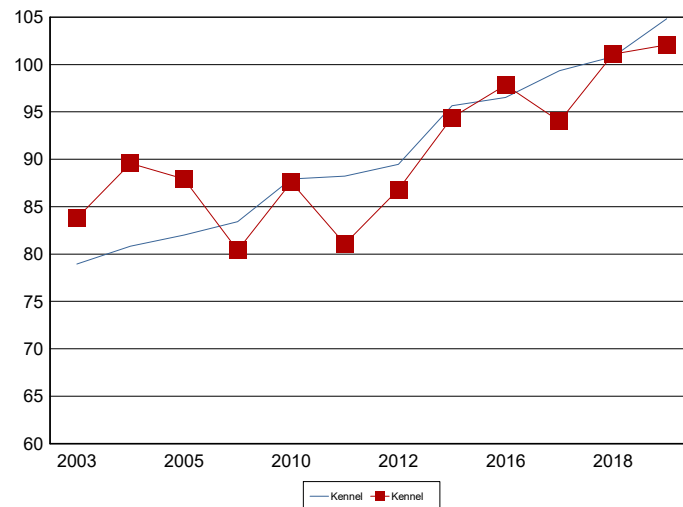


Hind Quarter

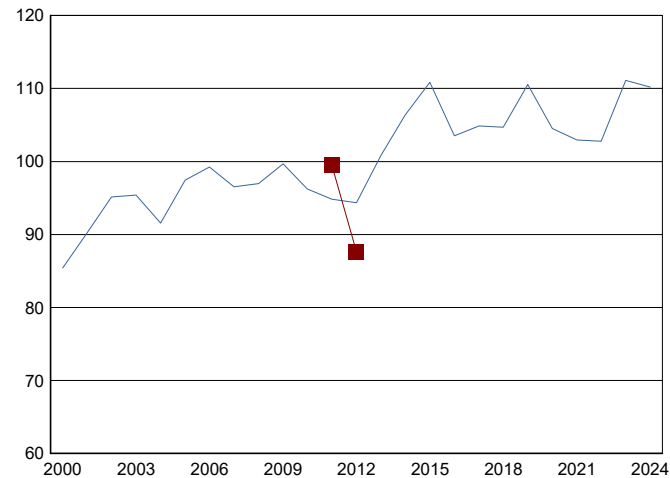


Final Score & Health Traits

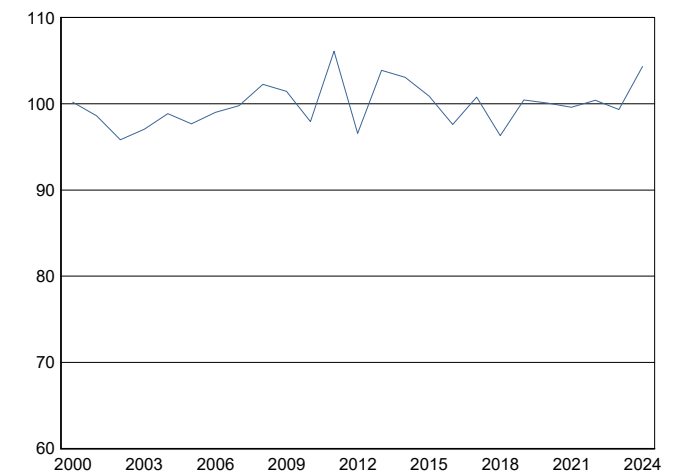
Final Score



Hip Health



Elbow Health



Estimated Breeding Value Indices (EBVi's)

Males

Inbreeding >6.25% is high

< 80

>= 100

>= 120

Animal Information			Inbreed	Health		Fertility	General			Appearance						Progeny :		Appraisal	Health		Progeny with litters
Name	BYr	Sire Dam	%	Hips Acc.	Elbows Acc.	Litter Size Acc.	Move-ment	Tempe-rament	Coat	General Appear.	Head & Face	Front Quarter	Centre	Hind Quarter	Final Score	Progeny	Litters	Progeny Kennels	Hips	Elbows	
SERRA DE SOAJO SALMO		SERRA DE SOAJO BAMBO	10.88	91	93	103	85	97	104	92	103	99	106	91	98						
	2016	SERRA DE SOAJO JOIA I		5	5	5	28	5	52	27	50	30	33	37	44						
SERRA DE SOAJO ZOR 2		SERRA DE SOAJO ZOR I	22.18	81	82	110	91	97	113	88	98	98	102	95	98	3	1	1	1	1	1
	2019	SERRA DE SOAJO SINAY		5	5	5	5	5	25	5	23	5	5	5	11			1			
YSTERHART RAJAH		AFRIKA TARZAN	7.86	101	82	99	107	109	105	99	104	102	96	105	104						
	2021	ANUKH D'NIARA		5	5	10	32	5	45	31	44	33	35	37	41						
ZEFURIAN ZEUS		VEILIGPLEK POKER	5.27	94	95	110	95	107	109	104	102	103	104	100	103						
	2024	SERRA DE SOAJO REBECA		5	5	5	10	5	31	8	30	12	16	19	25						

Estimated Breeding Value Indices (EBVi's)

Females

Inbreeding >6.25% is high

< 80

>= 100

>= 120

Animal Information

Inbreed

Health

Fertility

General

Appearance

Progeny :

Appraisal

Health

Progeny with litters

Name	BYr	Sire Dam	%	Hips Acc.	Elbows Acc.	Litter Size Acc.	Movement	Temperament	Coat	General Appear.	Head & Face	Front Quarter	Centre	Hind Quarter	Final Score	Progeny Litters	Progeny Kennels	Hips Elbows	Progeny with litters
SERRA DE SOAJO MANCHA	2016	CABARET MAC	11.01	87	93	111	98	103	119	94	97	101	106	98	102	9	1	1	1
		SERRA DE SOAJO MALI		5	5	30	38	5	57	37	56	39	42	44	50		1		1
SERRA DE SOAJO SULA	2018	SERRA DE SOAJO TED	22.18	89	93	107	88	97	118	89	102	99	106	96	101	3	3		1
		SERRA DE SOAJO MANCHA		5	5	5	17	5	50	15	48	20	25	31	40		3		1
SERRA DE SOAJO LANA 3	2019	SERRA DE SOAJO ZOR I	19.66	93	94	106	96	101	115	93	95	98	97	96	97				
		SERRA DE SOAJO PETRA II		5	5	5	5	5	16	5	14	5	5	5	5				
SERRA DE SOAJO MANCHA I	2020	AFRIKA TARZAN	7.63	101	84	101	96	106	109	90	95	96	95	99	97				
		SERRA DE SOAJO SULA		5	5	5	37	5	56	37	55	38	41	44	50				

Estimated Breeding Value Indices (EBVi's)

Sires

Inbreeding >6.25% is high

< 80

>= 100

>= 120

Sire Information		Inbreed	Health		Fertility	General			Appearance						Progeny :		Appraisal	Health		Progeny with litters
Name	BYr	Sire Dam	%	Hips Acc.	Elbows Acc.	Litter Size Acc.	Move-ment	Tempe-rament	Coat	General Appear.	Head & Face	Front Quarter	Centre	Hind Quarter	Final Score	Progeny Litters	Progeny Kennels	Hips	Elbows	
SERRA DE SOAJO BAMBO	2008	BLACK MASK JOSCHI	6.42	95	94	103	77	85	108	81	98	90	98	84	90	13	3	3		2
		BOERKLAN'S PAPRIKA		5	5	30	27	5	45	26	44	28	31	33	39		1			1
CABARET MAC	2010	TARGUS POCKET-MONEY 2 CABERET	14.50	80	88	114	97	101	106	101	85	95	95	109	96	67	10	12		11
		CABARET DIANA I		5	5	43	53	32	65	53	64	54	56	57	61		8			3
SERRA DE SOAJO ZOR I	2012	CABARET MAC	11.01	84	89	107	90	98	111	90	95	95	100	97	96	22	5			1
		SERRA DE SOAJO MALI		5	5	24	26	5	39	25	38	26	28	31	35					1
SERRA DE SOAJO TED	2017	SERRA DE SOAJO BAMBO	10.88	91	93	103	74	88	105	86	94	91	103	88	91	14	2	1		1
		SERRA DE SOAJO JOIA I		5	5	5	31	5	54	30	53	32	36	39	46		1			1
AFRIKA TARZAN	2018	MES RUBENSTEIN	5.62	112	75	94	109	120	101	99	99	105	99	112	106	73	8	14	2	4
		VOLSPPOED MEISIEKIND		23	32	42	61	40	75	61	74	62	64	66	70		13		2	2
VEILIGPLEK POKER	2020	QUOVADIS PARTNER IN CRIME	8.72	98	97	114	105	118	105	118	109	109	103	107	110	55	6	6	2	1
		VEILIGPLEK KUMA		8	7	13	49	21	66	49	65	50	52	55	60		6		2	1

Estimated Breeding Value Indices (EBVi's)

Dams

Inbreeding >6.25% is high

< 80

>= 100

>= 120

Animal Information			Inbreed	Health		Fertility	General			Appearance						Progeny :		Appraisal	Health		Progeny with litters
Name	BYr	Sire Dam	%	Hips Acc.	Elbows Acc.	Litter Size Acc.	Move-ment	Tempe-r-ament	Coat	General Appear.	Head & Face	Front Quarter	Centre	Hind Quarter	Final Score	Progeny	Litters	Progeny Kennels	Hips	Elbows	
SERRA DE SOAJO MALI	2009	BADEN BBD MAGNUM	9.38	93	99	100	81	94	115	80	103	94	104	84	96	20	4	2			5
		SERRA DE SOAJO OLGA		5	5	43	27	5	43	26	42	28	30	33	38			1			1
SERRA DE SOAJO JOIA I	2014	CABARET MAC	11.01	87	93	103	87	98	107	93	96	96	103	96	97	5	2	2			1
		SERRA DE SOAJO MALI		5	5	28	28	5	43	28	42	29	31	34	38			1			1
SERRA DE SOAJO MANCHA	2016	CABARET MAC	11.01	87	93	111	98	103	119	94	97	101	106	98	102	9	1	1			1
		SERRA DE SOAJO MALI		5	5	30	38	5	57	37	56	39	42	44	50			1			1
SERRA DE SOAJO SINAY	2016	SERRA DE SOAJO BAMBO	10.88	88	89	113	88	94	116	85	98	96	103	93	97	14	2				1
		SERRA DE SOAJO KAIRA I		5	5	20	29	5	52	28	51	30	33	37	44						1
SERRA DE SOAJO PETRA II	2017	CABARET MAC	4.55	101	98	105	101	103	120	95	95	101	95	96	98	5	1				
		MARBOELLA TINA		5	5	29	39	5	57	39	56	40	43	45	51						
ANUKH D'NIARA	2018	VEILIGPLEK FUMO	6.97	89	89	104	106	98	109	99	109	100	93	97	102	31	2	6			3
		ANUKH AKIRA		5	5	13	35	5	51	34	50	35	38	40	45			5	1	1	1
SERRA DE SOAJO REBECA	2018	SERRA DE SOAJO TED	22.18	89	93	107	86	95	112	90	95	96	104	93	96	4	1				
		SERRA DE SOAJO MANCHA		5	5	5	5	5	22	5	20	5	5	5	6						
SERRA DE SOAJO SULA	2018	SERRA DE SOAJO TED	22.18	89	93	107	88	97	118	89	102	99	106	96	101	3		3			1
		SERRA DE SOAJO MANCHA		5	5	5	17	5	50	15	48	20	25	31	40			3			1

