

Boerboel Genetic Evaluation

SA Stud Book
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PALAPYE

BOTSWANA



Kennel Number: 692289



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.

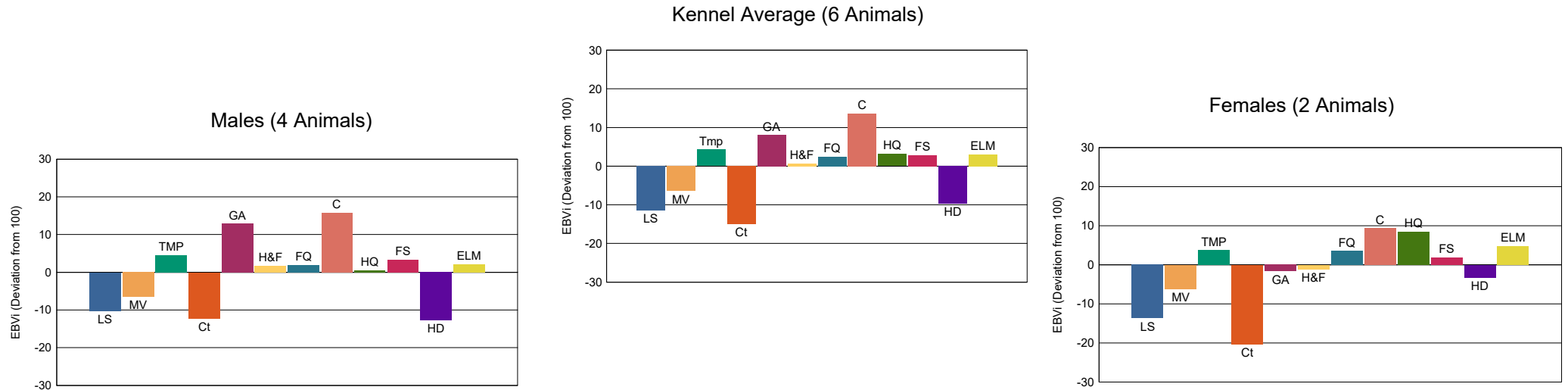
Genetic Trends: The Genetic Trends indicate the genetic change that occurred over time in the animals bred by the breeder compared to that of the breed. These are calculated as the average of the breeding values of all measured animals bred by the breeder, per year of birth.

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)	89	90	86
Movement (Mv)	94	93	94
Temperament (Tmp)	104	105	104
Coat (Ct)	85	88	80
General Appearance	108	113	98
Head & Face (H&F)	101	102	99
Front Quarter (FQ)	102	102	104
Centre (C)	114	116	109
Hind Quarter (HQ)	103	100	109
Final Score (FS)	103	103	102
Hip Health (HH)	90	87	97
Elbow Health (ELM)	103	102	105

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.

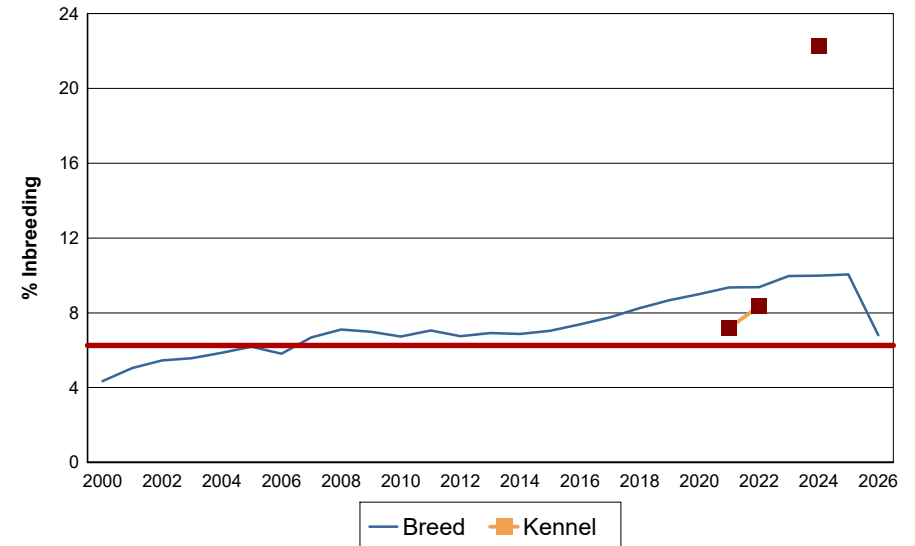
It is therefore highly recommended to record pedigree information as accurately. Inbreeding is dependent on pedigree information. Conventional methods for the calculation of inbreeding coefficients usually assume that unknown parents are unrelated, which is usually far from the truth. Inbreeding coefficients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

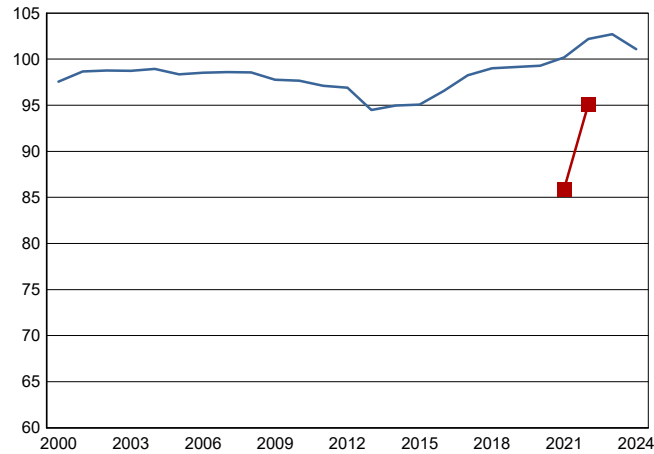


Inbreeding Levels

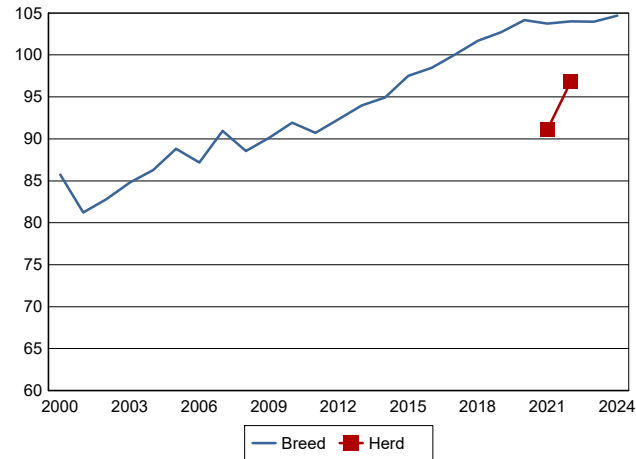
	All Animals		Males		Females		Sires		Dams	
	Kennel	Breed	Kennel	Breed	Kennel	Breed	Kennel	Breed	Kennel	Breed
Number	6	49007	4	25141	2	23857	6	3371	6	6287
Average Inbreeding	12.71	8.49	15.00	8.46	8.14	8.53	12.78	8.01	8.63	8.00
Number inbred	6	48727	4	24990	2	23728	6	24990	6	23728
Number >6.25% Inbr.	6	30600	4	15537	2	15058	5	15537	5	15058

Genetic Trends

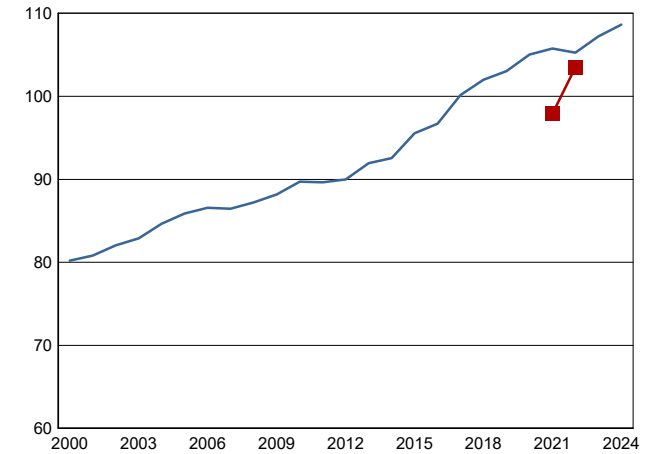
Litter Size



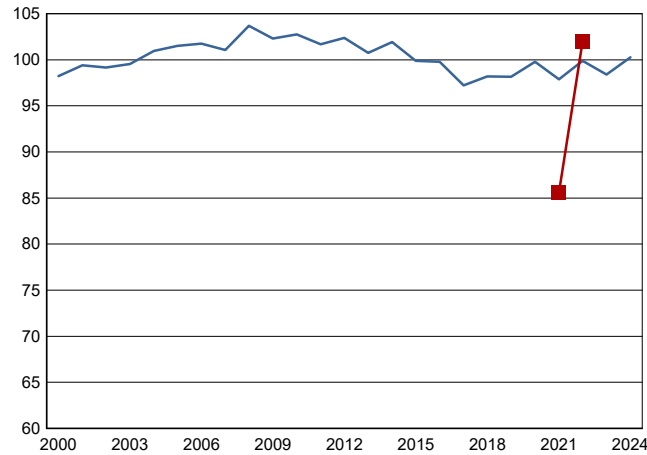
Movement



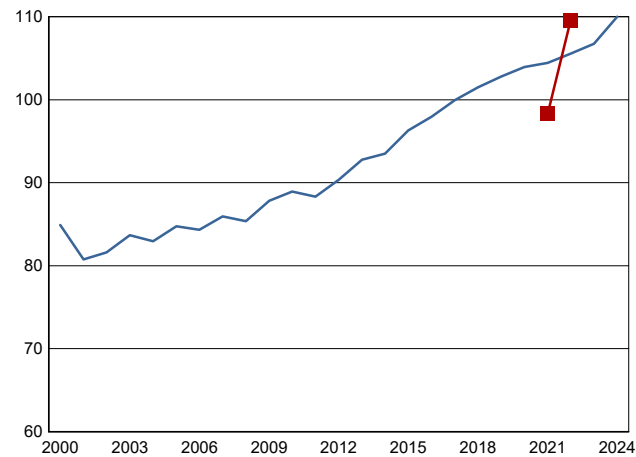
Temperament



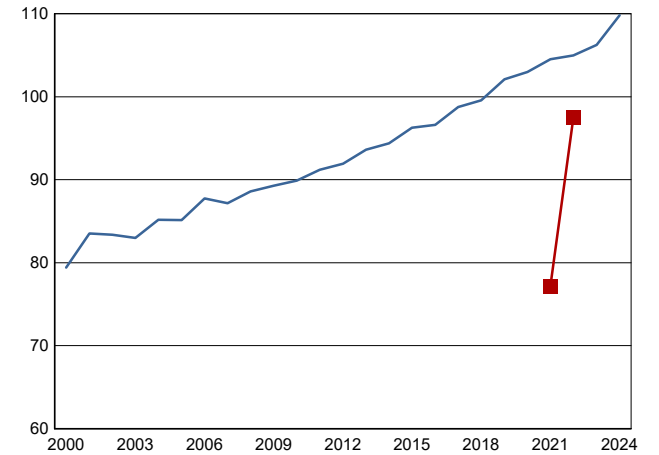
Coat



General Appearance

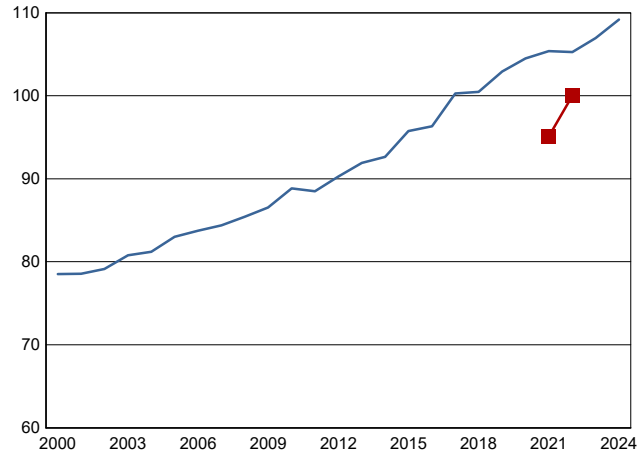


Head & Face

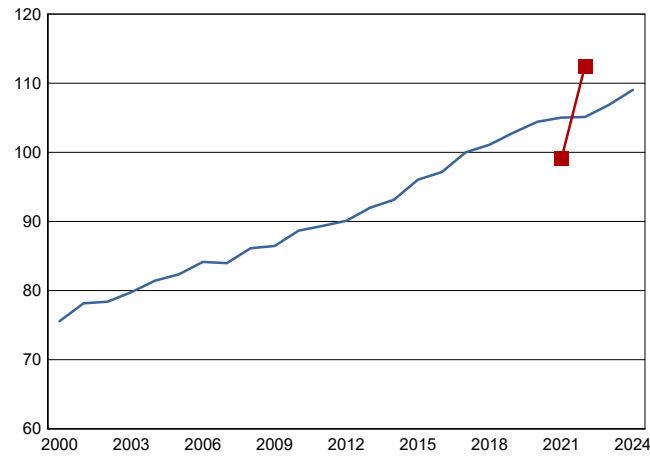


Genetic Trends

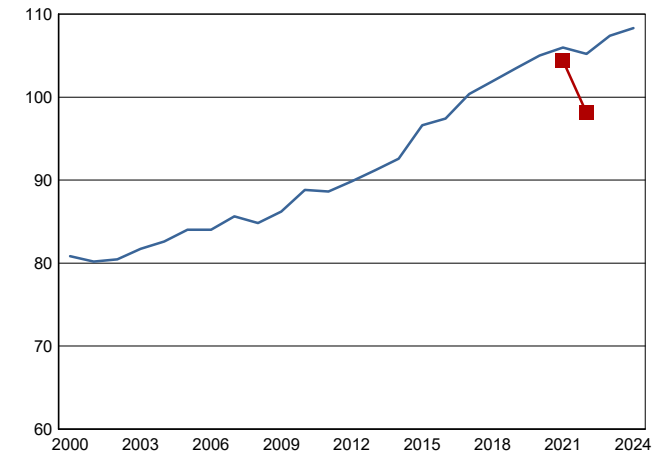
Front Quarter



Centre

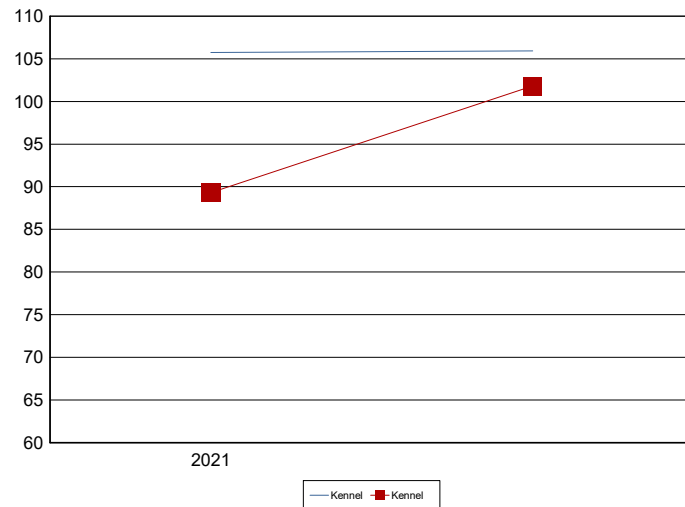


Hind Quarter

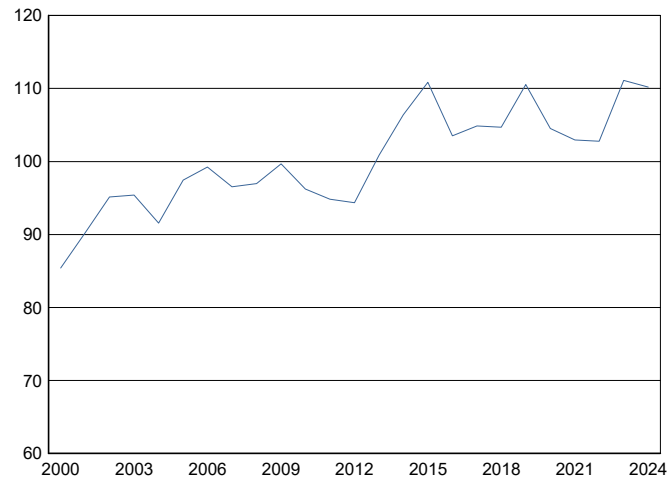


Final Score & Health Traits

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.	Movement	Temperament	Coat	General Appear.	Head & Face	Front Quarter	Centre	Hind Quarter	Final Score	Progeny	Litters	Progeny Kennels	Hips	Elbows	
JOSMOT BARKER		CABARET LA BAMBA	13.77	76	102	91	89	108	76	127	109	105	122	102	107	17	3	5			3
	2018	TARGUS NOVA		5	5	21	53	26	68	51	67	54	56	58	63			5			1
ALEXANDER BBD PABLO		LANDRE MAX	13.98	95	94	91	98	105	109	108	97	100	115	93	101	6	1	1			
	2020	ALEXANDER BBD POPLAP		5	5	5	39	5	52	38	52	40	42	44	49			1			
EL TRONCO LEO		KAMMO BBD WILDEBOER	10.00	94	112	83	92	101	78	107	102	100	116	104	103	3	1	1			
	2021	ALEXANDER BBD KIARA		5	5	12	32	5	45	27	44	33	35	37	41			1			
EL TRONCO SETH		JOSMOT BARKER	22.25	84	100	94	95	104	88	109	99	102	110	103	102						
	2024	TERRITORIAL DIVA		5	5	5	19	5	40	16	39	20	24	28	34						

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		Sire		Hips	Elbows	Litter Size	Move-	Tempe-	Coat	General	Head &	Front	Centre	Hind	Final	Progeny	Litters	Progeny	Hips	Elbows	
	BYr	Dam	%	Acc.	Acc.	Acc.	ment	rament		Appear.	Face	Quarter		Quarter	Score			Kennels			
EL TRONCO LUCARA		ALEXANDER BBD BLACK KNIGHT AGAIN	6.63	101	107	86	96	103	86	99	84	99	102	108	95						
	2021	CDH PUSHY ZOE		5	5	8	27	5	39	27	38	28	30	32	35						
TT ELTRONCO YARA		EL TRONCO LEO	9.64	92	102	87	91	105	74	98	114	109	116	109	109						
	2024	TERRITORIAL ROXIE		5	5	5	34	5	55	5	54	35	38	41	48						

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	
CABARET LA BAMBA	2014	CABARET SON OF A GUN	27.04	90	100	87	97	113	66	106	90	103	117	106	99	32	7	12		12
		CABARET MERAAL		5	5	37	64	38	77	63	77	65	67	69	73					
LANDRE MAX	2016	DE NOVO BBD MAXIMUS	4.83	109	101	89	94	105	93	109	101	100	120	98	103	61	9	23		24
		NTHOHADI EVA		5	5	40	70	43	83	69	82	70	72	75	79					
JOSMOT BARKER	2018	CABARET LA BAMBA	13.77	76	102	91	89	108	76	127	109	105	122	102	107	17	3	5		3
		TARGUS NOVA		5	5	21	53	26	68	51	67	54	56	58	63					
KAMMO BBD WILDEBOER	2019	TARGUS BOM BOEL	8.34	84	119	75	96	105	81	113	98	100	115	109	104	8	6	3		2
		KAMMO BBD DOLLIE		5	5	34	51	30	62	50	61	52	53	55	59					
ALEXANDER BBD BLACK KNIGHT AGAIN	2019	CABARET TANK	12.70	87	102	88	91	88	71	92	69	82	91	100	79	6	2	1		
		HOREB BLACK DIAMOND		5	5	20	38	5	52	38	52	39	41	43	48					
EL TRONCO LEO	2021	KAMMO BBD WILDEBOER	10.00	94	112	83	92	101	78	107	102	100	116	104	103	3	1	1		
		ALEXANDER BBD KIARA		5	5	12	32	5	45	27	44	33	35	37	41					

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-rament	Coat	General Appear.	Head & Face	Front Quarter	Centre	Hind Quarter	Final Score	Progeny	Litters	Progeny Kennels	Hips	Elbows	
TARGUS NOVA	2017	SPITSVUUR BBD TOKARA DRIFTER	8.34	62	103	94	82	98	70	126	107	99	120	100	103	14	1	8			8
		AREA BOERBOELS ROSE		5	5	47	61	40	72	60	71	61	63	65	68			7			1
ALEXANDER BBD POPLAP	2018	SA SUPERIOR KASPAAS	9.91	80	88	93	101	105	125	107	93	100	110	88	99	8	1	2	1	1	3
		STEPHANO ROSEBELLA		5	5	26	53	19	70	52	69	54	56	59	64			2			1
TERRITORIAL DIVA	2018	CABARET LA BAMBA	5.84	92	99	98	101	101	99	92	89	99	98	105	96	8	2	1			
		TERRITORIAL I BELIEVE		5	5	26	48	19	65	48	64	49	52	54	60			1			
CDH PUSHY ZOE	2019	CDH SNIPER	14.14	115	113	84	102	118	101	106	99	115	114	116	110	5	1	1			
		MIDDELPOS BBD MIKI		5	5	39	50	30	60	50	60	51	52	54	57			1			
ALEXANDER BBD KIARA	2019	LANDRE MAX	6.93	105	105	91	92	95	84	105	97	96	111	96	97	1	1				1
		BOSTU LIANIE		5	5	35	46	23	57	45	56	47	48	50	53						1
TERRITORIAL ROXIE	2021	TERRITORIAL LAZARO	6.63	90	93	91	99	105	88	97	107	108	107	107	106	3	1	1			
		TERRITORIAL TOKYO		5	5	5	29	5	46	24	45	30	33	35	40			1			

