

Boerboel Genetic Evaluation

SA Stud Book
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KENDALWEG 90
EVERSDAL
DURBANVILLE
7550



Kennel Number: 611837



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.

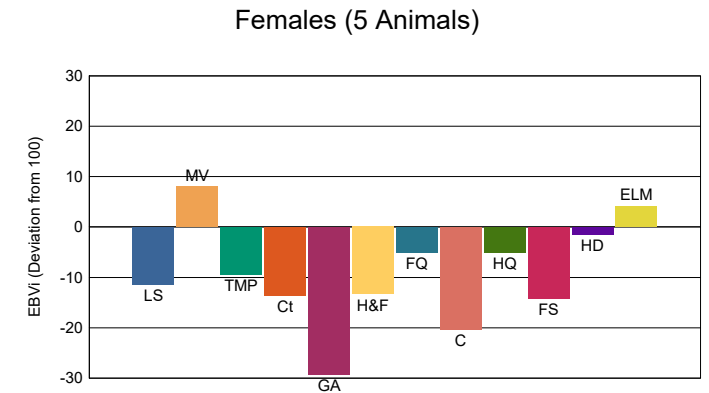
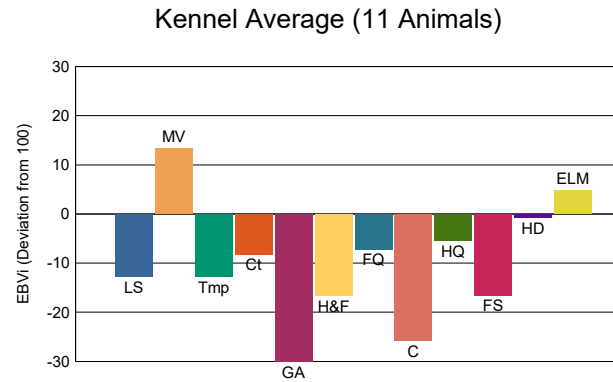
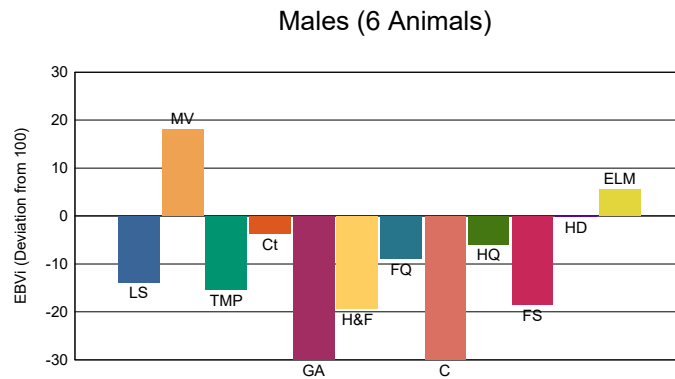
Genetic Trends: The Genetic Trends indicate the genetic change that occurred over time in the animals bred by the breeder compared to that of the breed. These are calculated as the average of the breeding values of all measured animals bred by the breeder, per year of birth.

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)	87	86	89
Movement (Mv)	113	118	108
Temperament (Tmp)	87	85	91
Coat (Ct)	92	96	86
General Appearance	64	58	71
Head & Face (H&F)	83	81	87
Front Quarter (FQ)	93	91	95
Centre (C)	74	70	80
Hind Quarter (HQ)	95	94	95
Final Score (FS)	83	82	86
Hip Health (HH)	99	100	98
Elbow Health (ELM)	105	106	104

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.

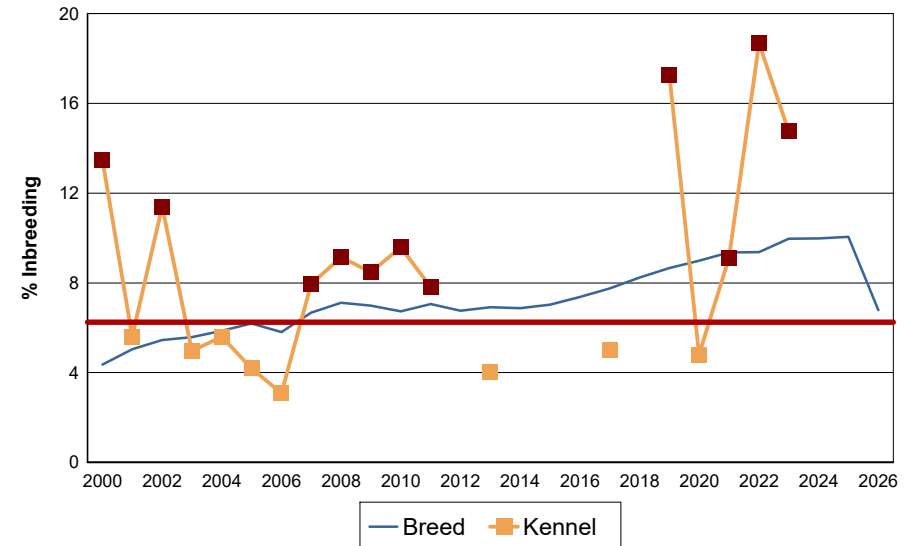
It is therefore highly recommended to record pedigree information as accurately. Inbreeding is dependent on pedigree information. Conventional methods for the calculation of inbreeding coefficients usually assume that unknown parents are unrelated, which is usually far from the truth. Inbreeding coefficients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

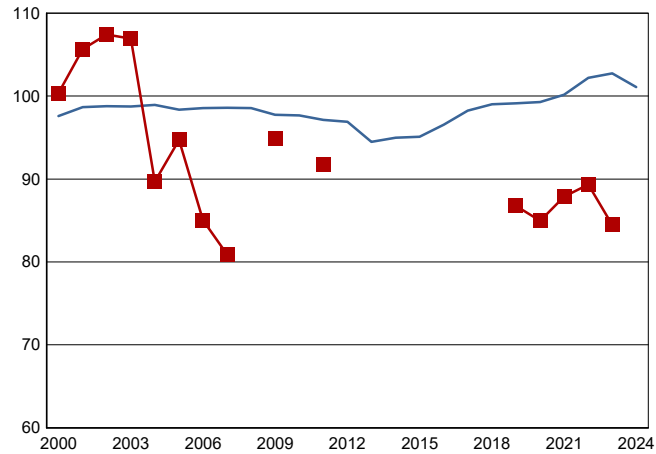


Inbreeding Levels

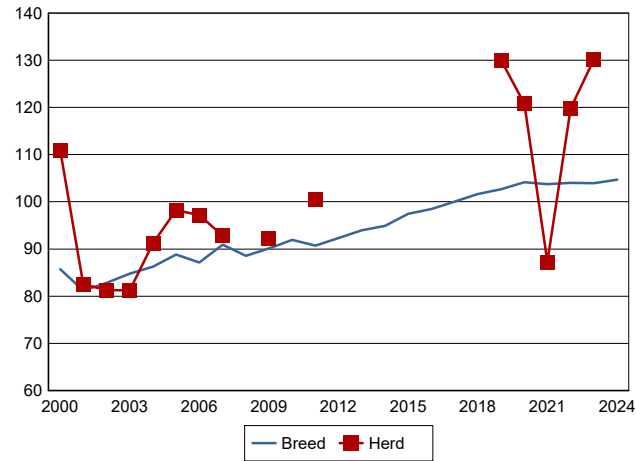
	All Animals		Males		Females		Sires		Dams	
	Kennel	Breed	Kennel	Breed	Kennel	Breed	Kennel	Breed	Kennel	Breed
Number	11	49007	6	25141	5	23857	7	3371	6	6287
Average Inbreeding	13.40	8.49	14.62	8.46	11.94	8.53	8.49	8.01	12.43	8.00
Number inbred	11	48727	6	24990	5	23728	7	24990	6	23728
Number >6.25% Inbr.	9	30600	5	15537	4	15058	4	15537	5	15058

Genetic Trends

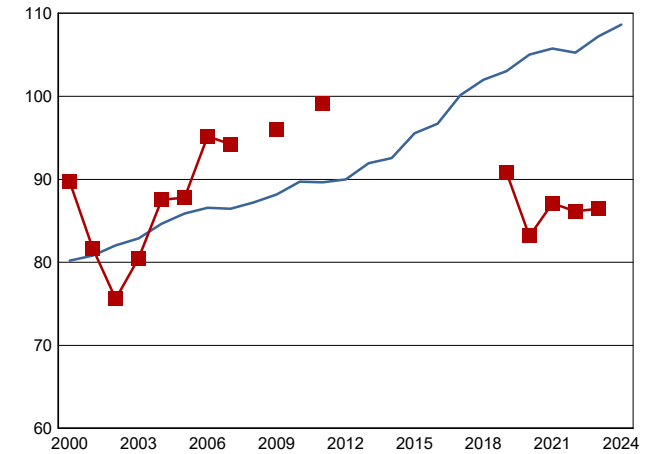
Litter Size



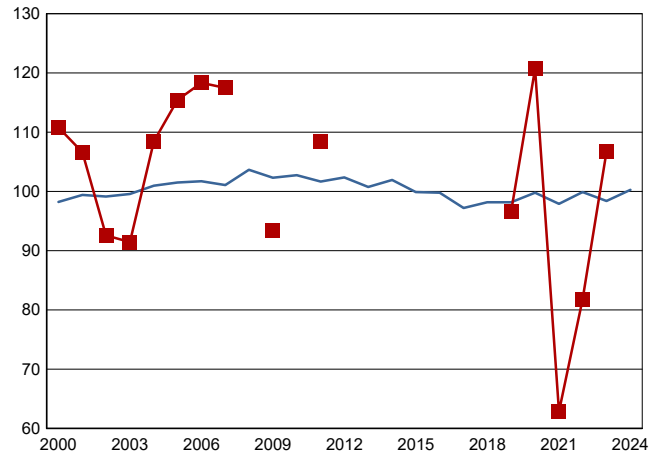
Movement



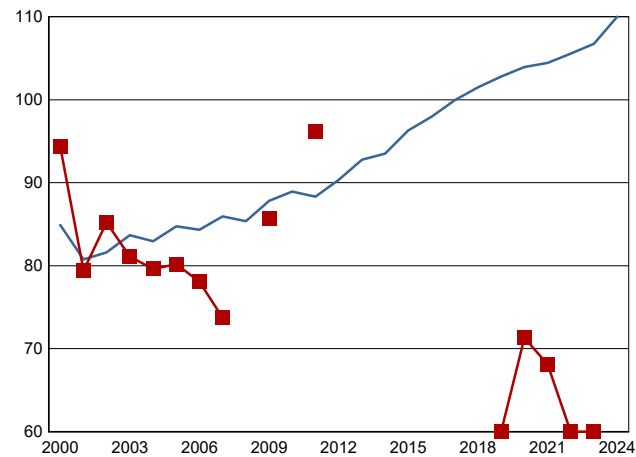
Temperament



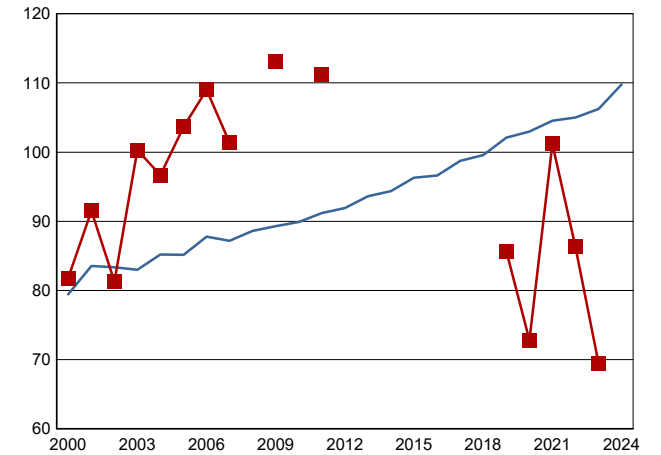
Coat



General Appearance

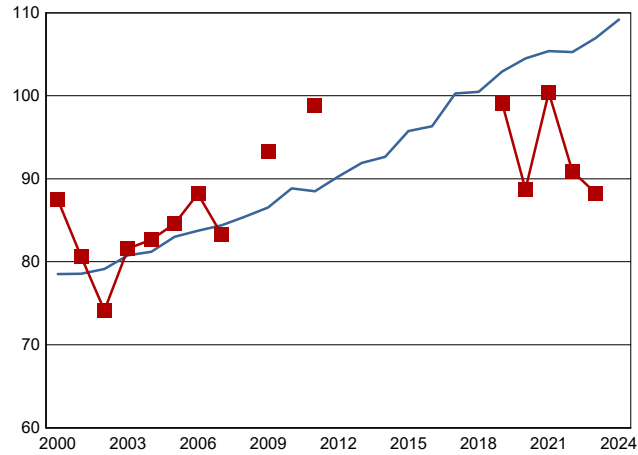


Head & Face

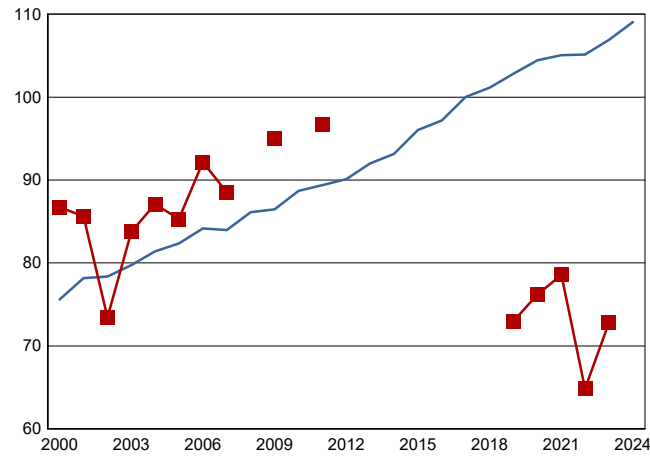


Genetic Trends

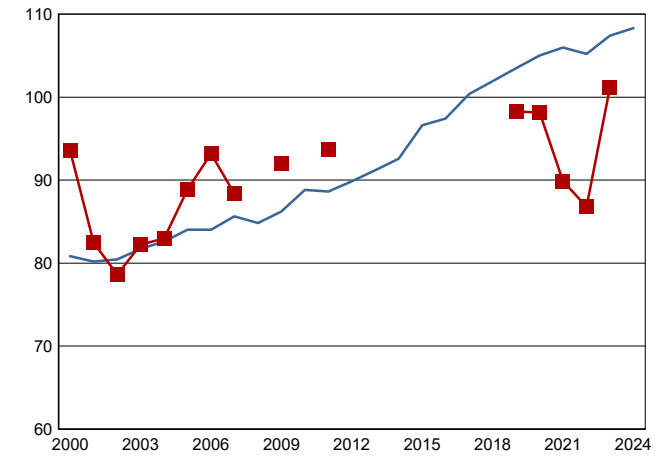
Front Quarter



Centre

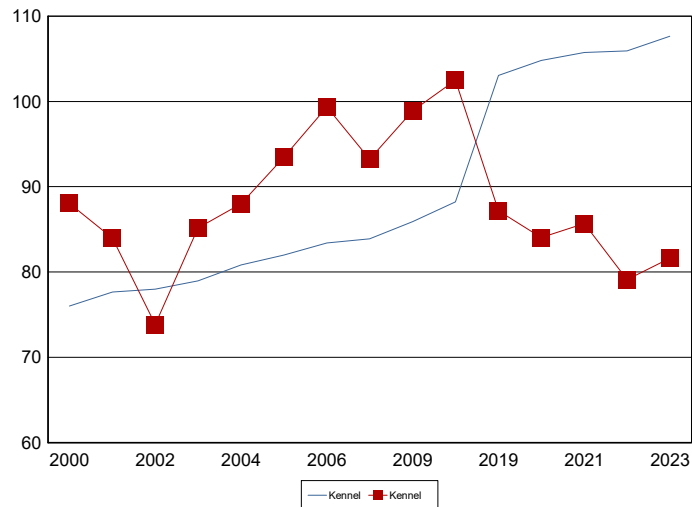


Hind Quarter

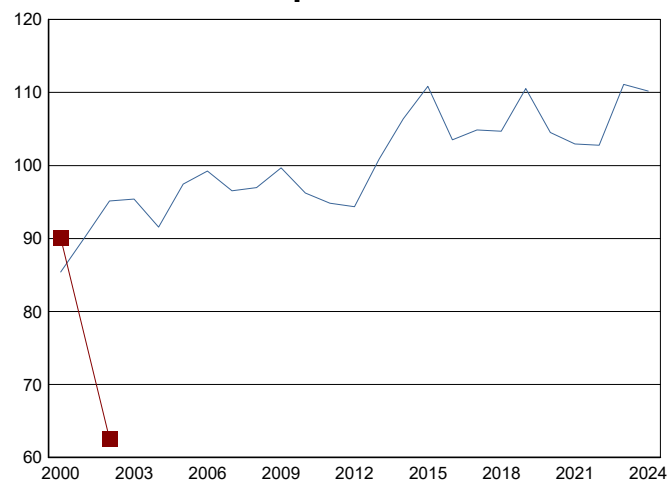


Final Score & Health Traits

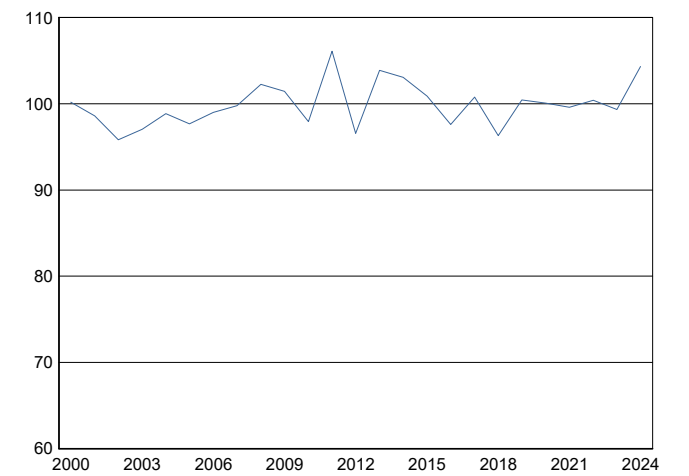
Final Score



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.	Move- ment	Tempe- rament	Coat	General Appear.	Head & Face	Front Quarter	Centre	Hind Quarter	Final Score	Progeny	Litters	Progeny Kennels	Hips	Elbows	
LEGRA ARNOLDUS		ALPHONSE WINSTON	4.80	106	104	84	128	82	123	62	67	88	74	101	82	9	1	4			2
	2020	VOORSLAG BBD ROMI		5	5	5	50	19	69	50	68	51	54	57	63						1
LEGRA MADALA		LEGRA SPOOK	9.73	101	111	88	82	83	81	71	103	101	78	86	87	9	2	2			1
	2021	MIDDELPOS BBD ROZAY		5	5	5	52	17	69	51	68	53	55	58	63						1
LEGRA JAVEL		LEGRA SPOOK	9.73	101	111	88	90	84	66	65	99	97	75	89	84						
	2022	MIDDELPOS BBD ROZAY		5	5	5	41	5	53	40	53	41	43	46	50						
LEGRA DIKKEDAAN		JACOB CUJO	22.26	93	101	90	143	94	84	47	83	89	54	88	78						
	2022	LEGRA DIKSUS		5	5	5	44	5	69	43	67	46	49	53	61						
LEGRA BONGI		LEGRA ARNOLDUS	20.58	99	103	84	133	83	112	50	66	86	69	100	79						
	2023	LEGRA KLEINSUS		5	5	5	22	5	45	21	44	24	28	32	39						
LEGRA RONNIE		LEGRA ARNOLDUS	20.58	99	103	84	133	83	112	50	66	86	69	100	79						
	2023	LEGRA KLEINSUS		5	5	5	22	5	45	21	44	24	28	32	39						

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.	Move-ment	Tempe-rament	Coat	General Appear.	Head & Face	Front Quarter	Centre	Hind Quarter	Final Score	Progeny Progeny Litters	Progeny Progeny Kennels	Hips Elbows	Progeny with litters
LEGRA KLEINSUS	2019	VOORSLAG BBD DJ	17.26	93	102	84	137	83	101	39	65	84	63	100	76	9	1	4	2
		VOORSLAG BBD ROMI		5	5	5	51	5	70	51	69	52	55	58	64				
LEGRA DIKSUS	2019	VOORSLAG BBD DJ	17.26	93	102	86	140	92	98	51	90	102	71	95	89	5		2	
		VOORSLAG BBD ROMI		5	5	5	51	5	69	50	68	52	55	58	64				
MIDDELPOS BBD ROZAY	2019	BREKER MENEER	4.55	108	119	92	71	79	68	77	100	91	76	84	81	12	2	6	2
		MIDDELPOS BBD KERIE		5	11	42	62	39	76	62	75	63	65	67	71				
KLEIN WITWAL BBD PEPPER	2019	KLEIN WITWAL BBD UNO	10.92	97	87	93	114	124	105	121	93	115	122	113	112	6	2	2	
		SA SUPERIOR POPPIE		5	5	23	53	22	70	53	69	54	56	59	64				
LEGRA DINA	2022	LEGRA SPOOK	9.73	101	111	88	77	75	60	66	85	83	66	84	71				
		MIDDELPOS BBD ROZAY		5	5	5	49	13	66	48	65	50	52	55	60				

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	
VOORSLAG BBD DJ		VOORSLAG BBD PORTOS	11.58	93	103	88	132	99	88	56	92	110	85	102	94	18	2	7		4
	2012	VOORSLAG BBD KIANA		5	5	5	57	23	73	56	72	58	60	63	68		4			2
ALPHONSE WINSTON		MIDDELPOS BBD BOEL I	8.81	118	107	87	109	87	116	91	78	90	89	96	88	7	1	3		1
	2012	LEGRA LADY I		5	7	28	52	27	69	52	68	53	56	58	63		2			1
BREKER MENEER		VOORSLAG BBD PIKSTEEL	3.84	96	107	77	72	80	81	75	111	102	84	94	92	126	22	56	1	36
	2015	BREKER NELLA		5	5	56	79	57	88	79	88	80	81	83	86		41		1	9
JACOB CUJO		VOORSLAG BBD DJ	8.35	94	100	94	123	94	97	56	85	95	79	95	87	9	2	2		2
	2016	JACOB ROXY2		5	5	5	44	6	60	44	59	45	48	50	55		2			1
KLEIN WITWAL BBD UNO		MES RUBENSTEIN	4.80	101	70	107	114	129	109	111	104	122	116	120	118	46	12	20		15
	2017	SA SUPERIOR PEPSI		5	20	49	72	49	83	72	82	72	74	76	79		17			4
LEGRA SPOOK		VOORSLAG BBD DJ	17.26	93	102	84	108	89	64	54	98	103	75	94	86	13	3	7		2
	2019	VOORSLAG BBD ROMI		5	5	5	55	8	73	54	72	56	59	62	67		3			1
LEGRA ARNOLDUS		ALPHONSE WINSTON	4.80	106	104	84	128	82	123	62	67	88	74	101	82	9	1	4		2
	2020	VOORSLAG BBD ROMI		5	5	5	50	19	69	50	68	51	54	57	63		3			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-rament	Coat	General Appear.	Head & Face	Front Quarter	Centre	Hind Quarter	Final Score	Progeny	Litters	Progeny Kennels	Hips	Elbows	
MIDDELPOS BBD KERRIE	2014	MIDDELPOS BBD LOFTY	7.90	120	131	89	106	94	83	93	97	88	82	90	89	24	5	10	1	1	9
		MIDDELPOS BBD CLARA		34	48	61	66	44	79	66	78	67	69	71	75			9			2
VOORSLAG BBD ROMI	2015	VOORSLAG BBD PIKSTEEL	10.74	94	102	84	123	82	109	53	75	87	64	96	79	20	2	8			4
		VOORSLAG BBD NTHABI		5	5	5	56	20	73	55	72	57	59	62	67			4			1
SA SUPERIOR POPPIE	2017	SA SUPERIOR VOO DOO	16.85	93	103	99	111	107	126	110	85	102	112	104	103	8	1	2			1
		SA SUPERIOR TOLBOS		5	5	13	49	14	65	48	64	50	52	55	60			2			1
LEGRA DIKSUS	2019	VOORSLAG BBD DJ	17.26	93	102	86	140	92	98	51	90	102	71	95	89	5		2			
		VOORSLAG BBD ROMI		5	5	5	51	5	69	50	68	52	55	58	64			2			
LEGRA KLEINSUS	2019	VOORSLAG BBD DJ	17.26	93	102	84	137	83	101	39	65	84	63	100	76	9	1	4			2
		VOORSLAG BBD ROMI		5	5	5	51	5	70	51	69	52	55	58	64			3			1
MIDDELPOS BBD ROZAY	2019	BREKER MENEER	4.55	108	119	92	71	79	68	77	100	91	76	84	81	12	2	6			2
		MIDDELPOS BBD KERRIE		5	11	42	62	39	76	62	75	63	65	67	71			3			1

