

Boerboel Genetic Evaluation

SA Stud Book
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Kennel Number: 673532



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.

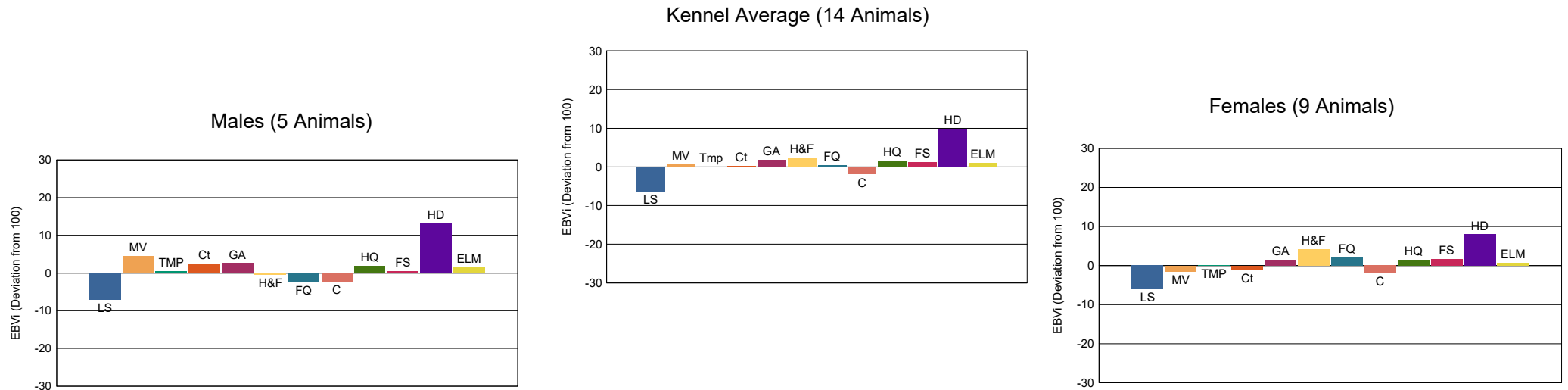
Genetic Trends: The Genetic Trends indicate the genetic change that occurred over time in the animals bred by the breeder compared to that of the breed. These are calculated as the average of the breeding values of all measured animals bred by the breeder, per year of birth.

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)	94	93	94
Movement (Mv)	101	105	99
Temperament (Tmp)	100	100	100
Coat (Ct)	100	103	99
General Appearance	102	103	102
Head & Face (H&F)	103	99	104
Front Quarter (FQ)	100	98	102
Centre (C)	98	98	98
Hind Quarter (HQ)	102	102	101
Final Score (FS)	101	100	102
Hip Health (HH)	110	113	108
Elbow Health (ELM)	101	101	101

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.

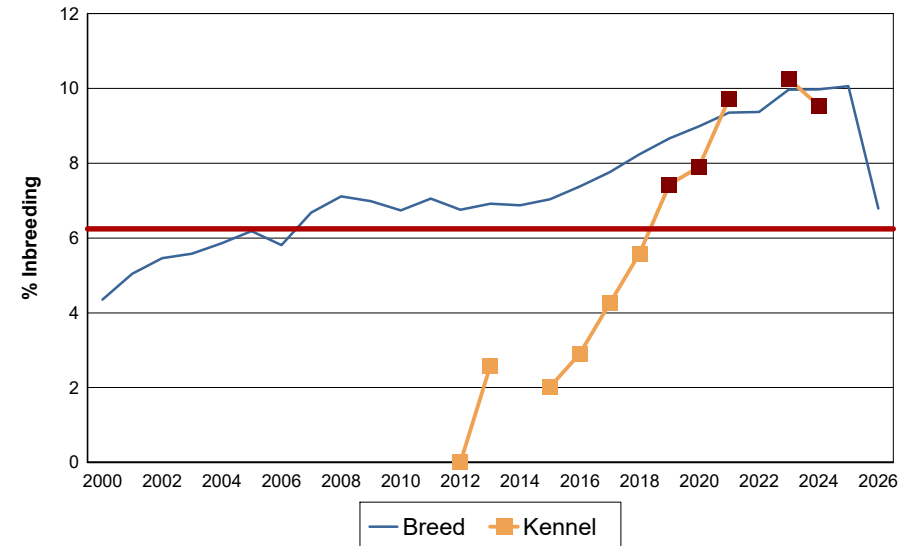
It is therefore highly recommended to record pedigree information as accurately. Inbreeding is dependent on pedigree information. Conventional methods for the calculation of inbreeding coefficients usually assume that unknown parents are unrelated, which is usually far from the truth. Inbreeding coefficients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

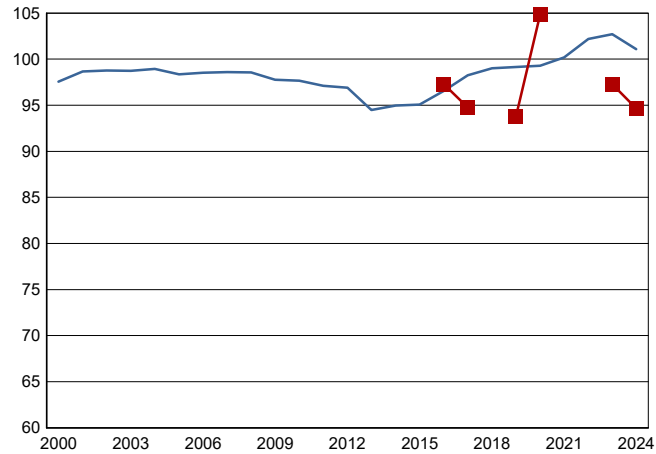


Inbreeding Levels

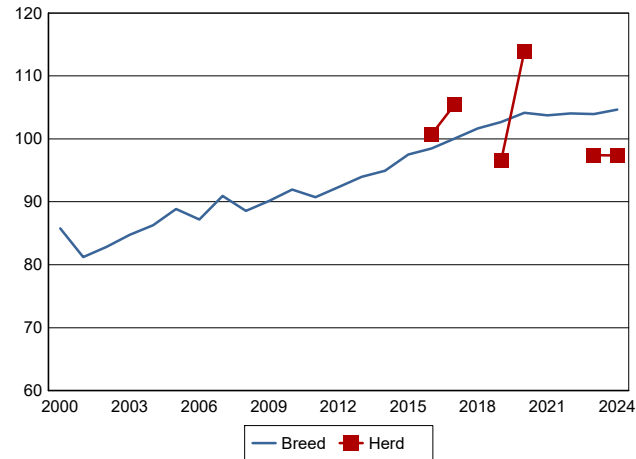
	All Animals		Males		Females		Sires		Dams	
	Kennel	Breed	Kennel	Breed	Kennel	Breed	Kennel	Breed	Kennel	Breed
Number	14	49007	5	25141	9	23857	7	3371	11	6287
Average Inbreeding	7.32	8.49	6.13	8.46	7.99	8.53	8.74	8.01	7.10	8.00
Number inbred	14	48727	5	24990	9	23728	7	24990	11	23728
Number >6.25% Inbr.	6	30600	2	15537	4	15058	3	15537	5	15058

Genetic Trends

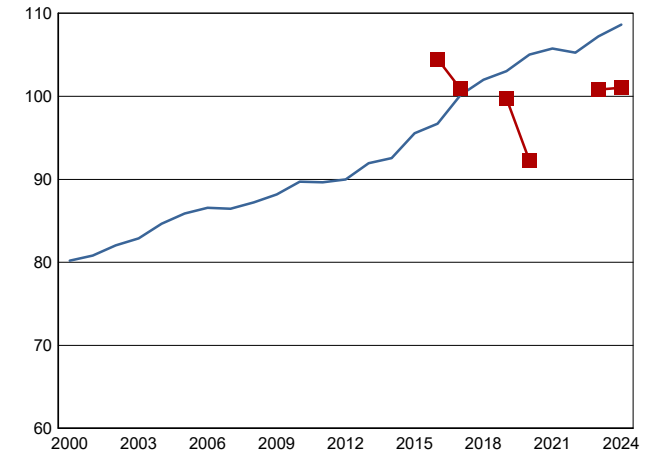
Litter Size



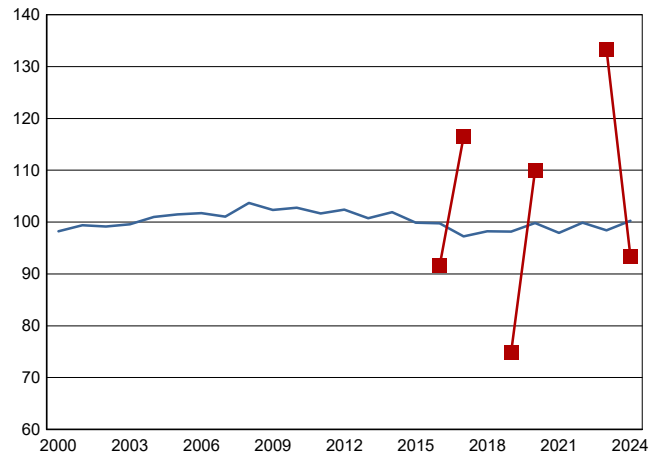
Movement



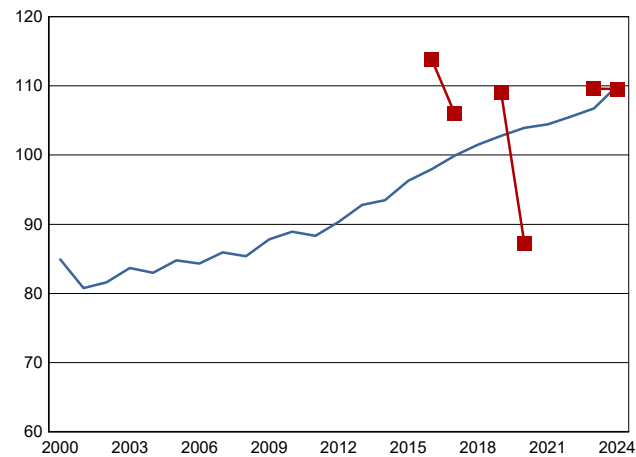
Temperament



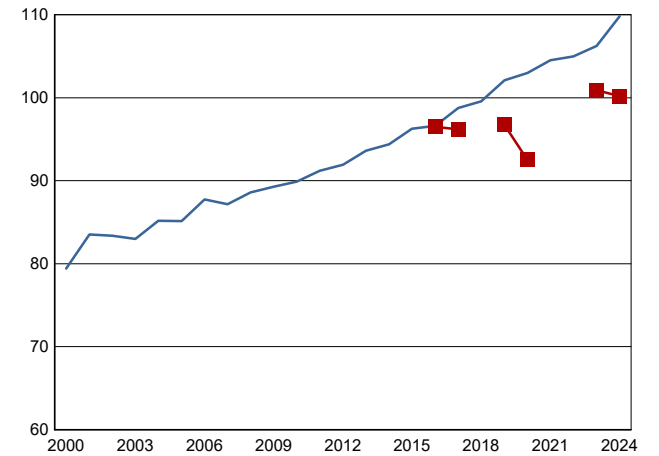
Coat



General Appearance

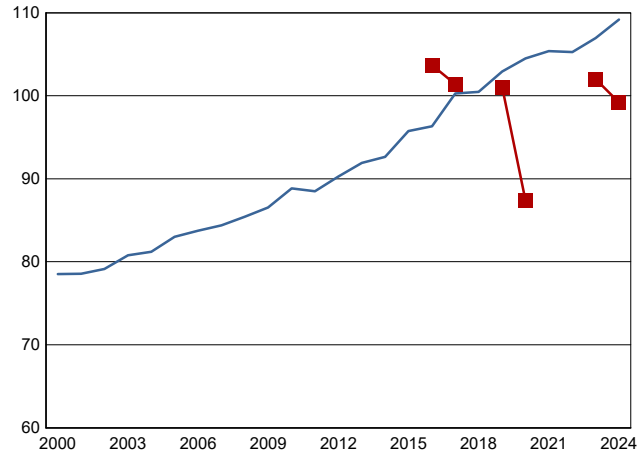


Head & Face

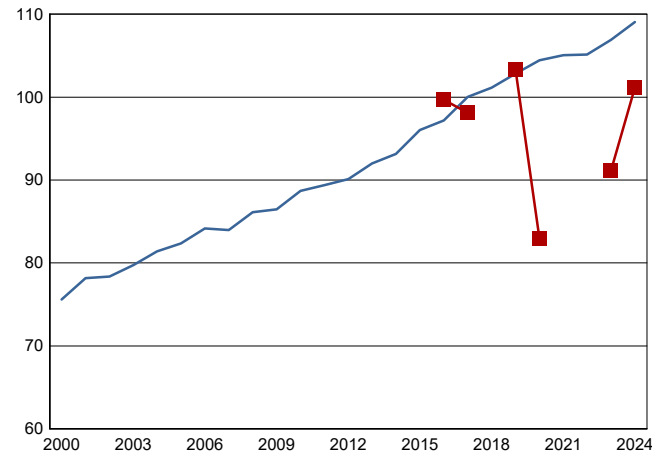


Genetic Trends

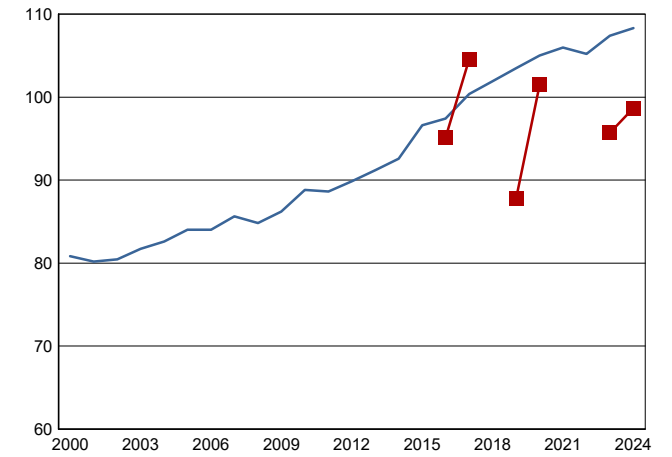
Front Quarter



Centre

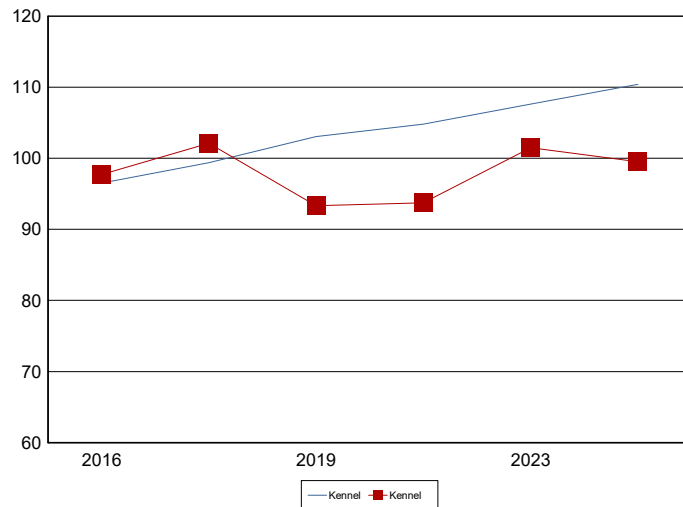


Hind Quarter

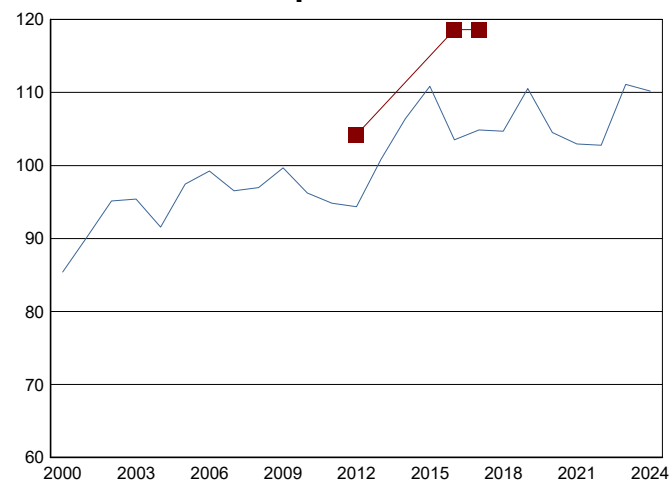


Final Score & Health Traits

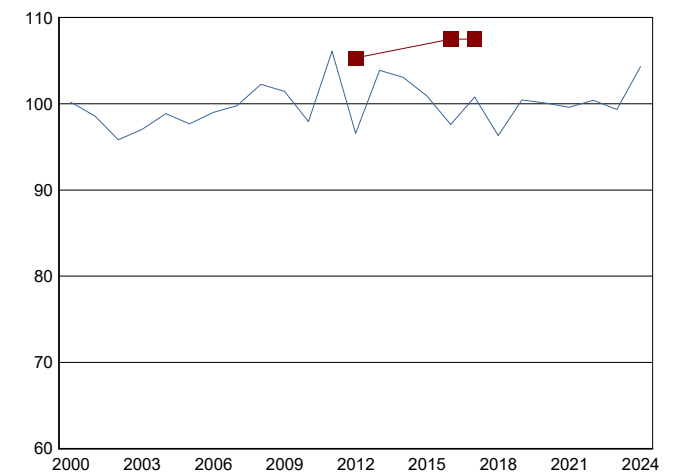
Final Score



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	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				
MIDDELPOS BBD ROCKY		GROENBERG BBD RAMBO	8.21	133	110	94	119	122	91	125	106	121	123	115	117	29	7	10	2	2	14
	2014	MIDDELPOS BBD TRIX		35	38	52	63	50	72	63	71	64	65	66	69			8			4
APHRODITE HOLYFIELD		MIDDELPOS BBD ROCKY	5.58	115	112	92	106	108	106	110	100	107	107	110	107	24	8				1
	2018	BARNYARD BELLA		5	5	17	29	5	39	29	39	30	31	33	36			1			
FRANK IRENE BABAYEGA		BOSVLEI BISON	5.13	97	93	100	114	95	118	101	97	87	89	96	97	17	6	5			5
	2019	KAMMO BBD SABRINA		5	5	5	48	10	67	47	66	49	52	55	61			5			3
MARBBYS AJ		FRANK IRENE BABAYEGA	7.59	110	90	92	96	98	109	112	98	90	92	92	95	15	3	3			
	2021	MARBBYS LEA		5	5	5	40	5	59	39	58	41	44	47	53			2			
AFRICAN PAW JOHN WICK LB		BREKER MENEER	4.15	110	103	86	88	80	89	66	95	83	78	98	86						
	2022	MIDDELPOS BBD PAT		5	5	25	51	28	66	51	65	52	54	56	61						

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	Litters	Progeny Kennels	Hips	Elbows	
MARBBYS CAMILA		MIDDELPOS BBD ROCKY	12.22	123	87	85	112	115	99	115	108	111	111	107	111						
	2018	ELEVATION LILLY		5	5	28	36	14	46	36	46	37	38	40	43						
HERBERG MAXI I		BREKER FANUS	4.44	83	104	113	80	84	97	92	97	98	88	92	90	8	2				1
	2018	KADIMA ZENA		5	5	33	53	29	68	53	67	54	56	58	63						1
APHRODITE BROOKLYN		MIDDELPOS BBD ROCKY	12.64	120	103	92	108	118	89	118	110	120	118	109	114	2	1	1			
	2019	MIDDELPOS BBD MIA		5	5	24	38	18	48	37	48	38	40	41	45			1			
APHRODITE MAXI		APHRODITE HOLYFIELD	4.63	99	108	102	94	98	113	102	100	105	96	101	101	13	3	2			
	2021	HERBERG MAXI I		5	5	5	26	5	39	26	39	27	29	31	35			2			
APHRODITE FOXY		APHRODITE HOLYFIELD	16.76	117	110	95	103	106	99	112	99	105	104	103	103						
	2021	APHRODITE GOLD COASTLINE DIXIE		5	5	5	5	5	29	5	28	5	10	15	23						
APHRODITE BLIZZARD		FRANK IRENE BABAYEGA	5.31	99	99	96	104	97	94	106	99	95	96	89	95						
	2021	APHRODITE PIXIE		5	5	5	25	5	40	24	39	26	28	30	35						
AFRICAN PAW STORM		FRANK IRENE BABAYEGA	7.59	110	90	92	110	103	110	109	102	96	96	98	101	3	1				
	2021	MARBBYS LEA		5	5	5	28	5	42	27	41	29	31	33	38						
AFRICAN PAW ELECTRA LB		BREKER MENEER	4.15	110	103	86	89	87	103	78	106	90	83	106	97						
	2022	MIDDELPOS BBD PAT		5	5	25	52	28	66	51	65	52	54	56	61						
AFRICAN PAW BLACK WIDOW LB		BREKER MENEER	4.15	110	103	86	87	94	87	82	119	99	91	109	104	3	1				
	2022	MIDDELPOS BBD PAT		5	5	25	51	28	66	51	65	52	54	56	61						

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	
GROENBERG BBD RAMBO		PIET-ZYN-DRIFT BASTRON I	5.76	129	93	99	119	134	90	129	106	119	123	134	123	352 64	166	44	42	154
	2011	MIDDELPOS BBD TESSA II		67	76	84	91	82	95	91	94	91	92	92	93		122			26
MIDDELPOS BBD ROCKY		GROENBERG BBD RAMBO	8.21	133	110	94	119	122	91	125	106	121	123	115	117	29 7	10	2	2	14
	2014	MIDDELPOS BBD TRIX		35	38	52	63	50	72	63	71	64	65	66	69		8			4
BREKER MENEER		VOORSLAG BBD PIKSTEEL	3.84	96	107	77	72	80	81	75	111	102	84	94	92	126 22	56	1	1	36
	2015	BREKER NELLA		5	5	56	79	57	88	79	88	80	81	83	86		41			9
BOSVLEI BISON		BOSVLEI BOSSIE BOSMAN	16.98	82	74	101	118	103	119	109	118	103	100	103	112	26 3	8			5
	2016	BOSVLEI LOLA		5	5	5	42	5	61	42	60	44	46	50	55		8			2
BREKER FANUS		BREKER MENEER	15.68	97	107	76	68	71	92	94	111	102	92	104	98	151 21	41			27
	2017	BREKER BELLA		5	5	46	75	50	86	75	85	76	78	79	83		38			7
APHRODITE HOLYFIELD		MIDDELPOS BBD ROCKY	5.58	115	112	92	106	108	106	110	100	107	107	110	107	24 8				1
	2018	BARNYARD BELLA		5	5	17	29	5	39	29	39	30	31	33	36					1
FRANK IRENE BABAYEGA		BOSVLEI BISON	5.13	97	93	100	114	95	118	101	97	87	89	96	97	17 6	5			5
	2019	KAMMO BBD SABRINA		5	5	5	48	10	67	47	66	49	52	55	61		5			3

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 TRIX	2009	MIDDELPOS BBD BOEL I	9.57	137	126	92	106	102	92	98	102	113	107	98	102	9	2	7	2	1	9
		MIDDELPOS BBD MAXI I		49	43	65	72	56	80	72	80	73	74	75	78			7			1
BARNYARD BELLA	2012	GRETCHEN FERNANDO	6.61	98	115	90	91	93	109	93	94	91	93	106	96	17	5	2			6
		BARNYARD ADJA		5	5	5	22	5	41	21	40	23	26	29	35			2			2
APHRODITE GOLD COASTLINE DIXIE	2016	MIDDELPOS BBD ROCKY	2.91	119	108	97	101	105	92	114	97	104	100	95	98	9	3	2			1
		APHRODITE HOM CLEO		10	16	30	48	29	64	48	63	49	51	53	58			2			1
KAMMO BBD SABRINA	2016	KAMMO BBD JOSH	4.48	112	111	98	106	91	103	91	88	85	90	97	91	18	2	6			2
		ROMSHA PLOOIE		5	5	23	51	21	68	50	67	51	54	57	62			6			1
KADIMA ZENA	2016	MAXIPAL TROMPIE	4.15	68	101	148	90	90	101	82	79	87	80	85	80	42	3	10			6
		LINJO SPARKLE		5	5	44	57	29	73	56	72	57	60	62	68			9			1
ELEVATION LILLY	2016	SWELLENDAM KAROLUS	8.73	114	64	76	105	107	107	104	111	101	98	100	106	20	4	5			2
		ELEVATION MELISSA		5	22	50	52	26	68	52	67	53	55	58	63			5			1
MIDDELPOS BBD MIA	2017	AFRIKA LEO 5	5.70	108	96	89	100	117	109	113	116	124	111	102	114	2	1				1
		MIDDELPOS BBD FUDGE		10	23	40	51	30	65	51	65	52	54	56	61						1
MARBBYS LEA	2018	MIDDELPOS BBD ROCKY	12.22	123	87	85	106	110	101	118	106	105	104	100	106	17	4	3			3
		ELEVATION LILLY		5	5	28	41	17	54	40	53	41	43	45	49			3			2
HERBERG MAXI I	2018	BREKER FANUS	4.44	83	104	113	80	84	97	92	97	98	88	92	90	8	2				1
		KADIMA ZENA		5	5	33	53	29	68	53	67	54	56	58	63						1
APHRODITE PIXIE	2019	MES SHADOW I	3.95	100	105	93	94	100	70	110	100	103	104	82	93	2	2				
		APHRODITE GOLD COASTLINE DIXIE		5	5	24	44	22	61	44	60	45	47	50	55						
MIDDELPOS BBD PAT	2020	JAMBAL BUKS	15.37	124	99	96	99	101	101	94	106	89	93	108	102	8	1	5			2
		WOEKER BBD KATINKA		5	5	34	53	24	70	52	69	53	56	59	64			3			1

