

Boerboel Genetic Evaluation

SA Stud Book
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CROATIA



Kennel Number: 694870



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.

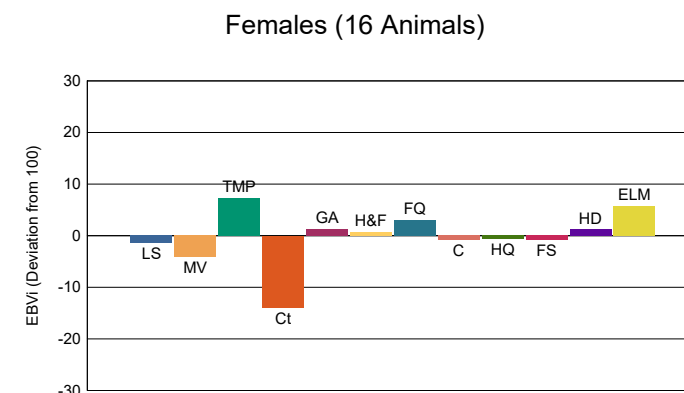
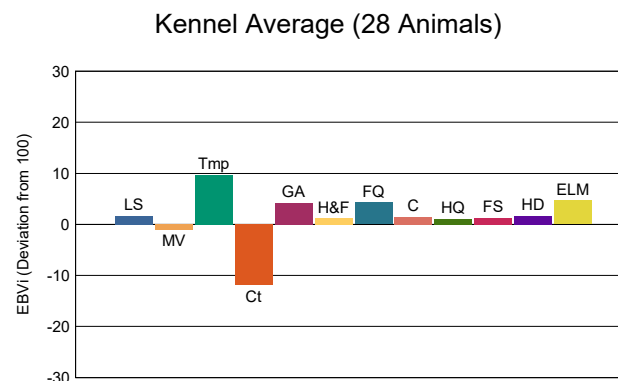
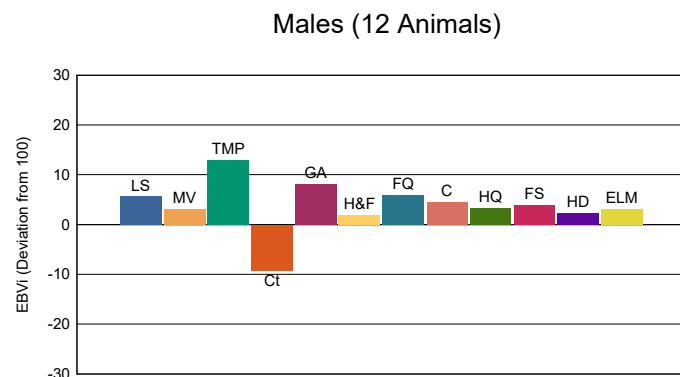
Genetic Trends: The Genetic Trends indicate the genetic change that occurred over time in the animals bred by the breeder compared to that of the breed. These are calculated as the average of the breeding values of all measured animals bred by the breeder, per year of birth.

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)	102	106	99
Movement (Mv)	99	103	96
Temperament (Tmp)	110	113	107
Coat (Ct)	88	91	86
General Appearance	104	108	101
Head & Face (H&F)	101	102	101
Front Quarter (FQ)	104	106	103
Centre (C)	101	105	99
Hind Quarter (HQ)	101	103	99
Final Score (FS)	101	104	99
Hip Health (HH)	102	102	101
Elbow Health (ELM)	105	103	106

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.

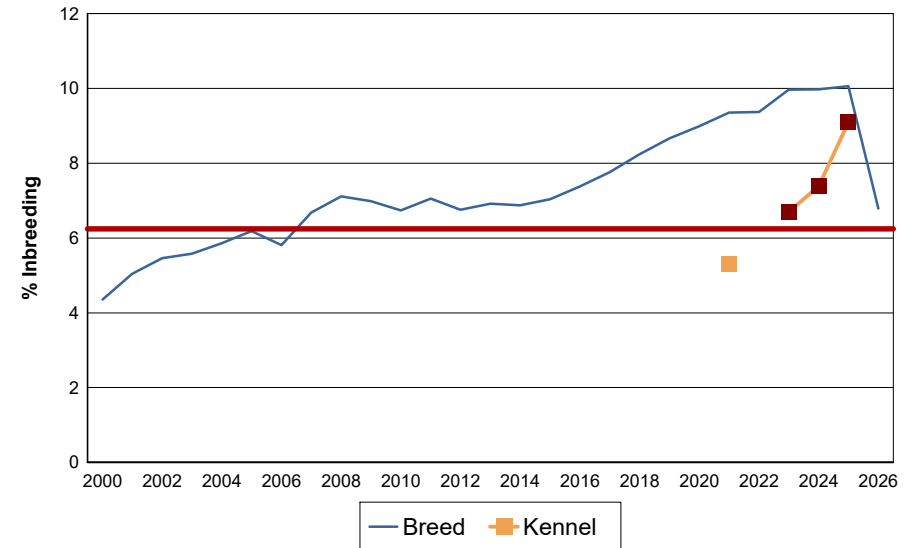
It is therefore highly recommended to record pedigree information as accurately. Inbreeding is dependent on pedigree information. Conventional methods for the calculation of inbreeding coefficients usually assume that unknown parents are unrelated, which is usually far from the truth. Inbreeding coefficients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

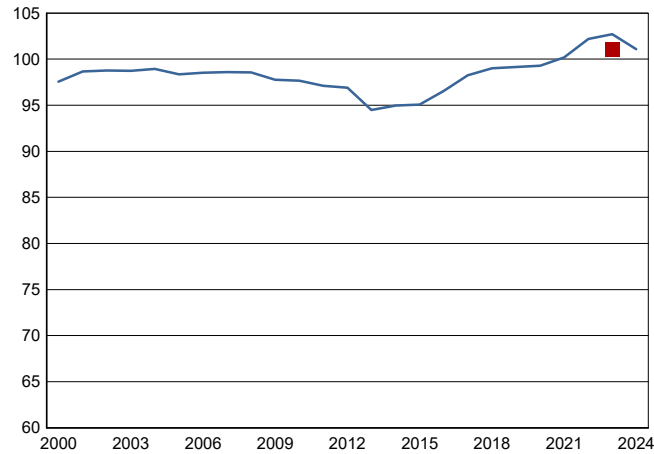


Inbreeding Levels

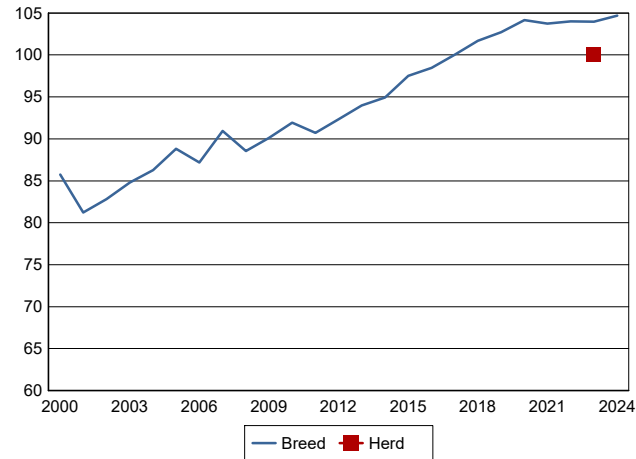
	All Animals		Males		Females		Sires		Dams	
	Kennel	Breed	Kennel	Breed	Kennel	Breed	Kennel	Breed	Kennel	Breed
Number	28	49007	12	25141	16	23857	10	3371	13	6287
Average Inbreeding	8.24	8.49	8.97	8.46	7.69	8.53	9.56	8.01	8.18	8.00
Number inbred	28	48727	12	24990	16	23728	10	24990	13	23728
Number >6.25% Inbr.	22	30600	9	15537	13	15058	8	15537	9	15058

Genetic Trends

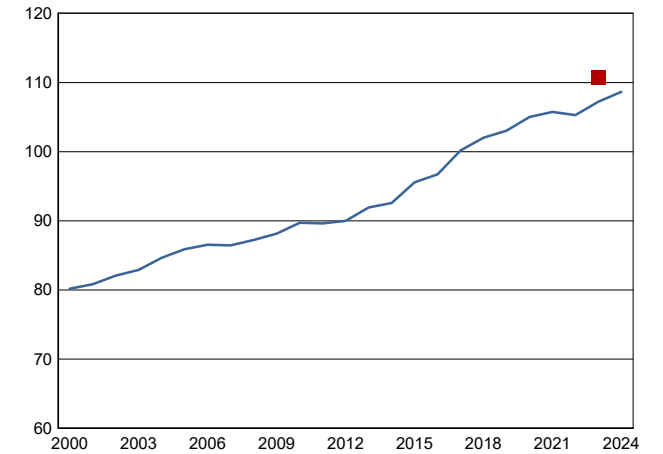
Litter Size



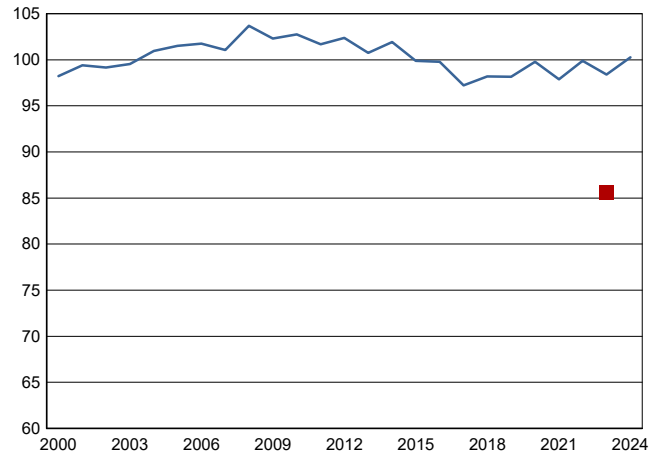
Movement



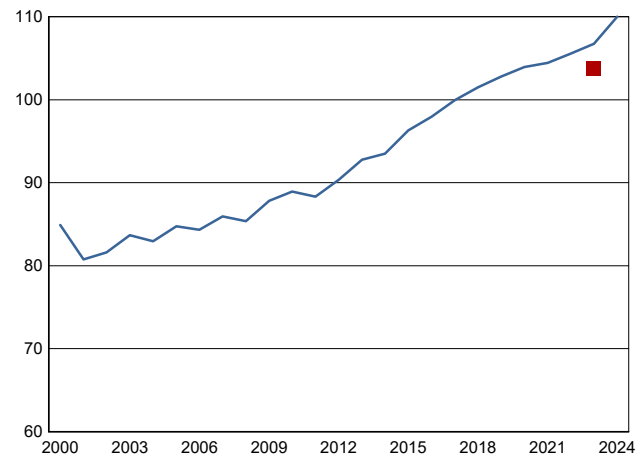
Temperament



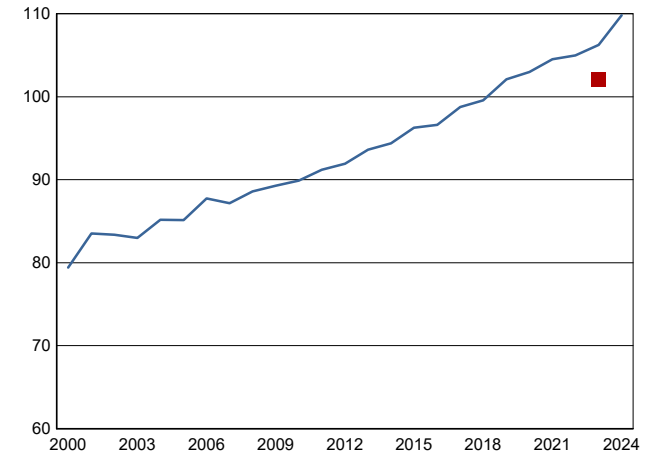
Coat



General Appearance

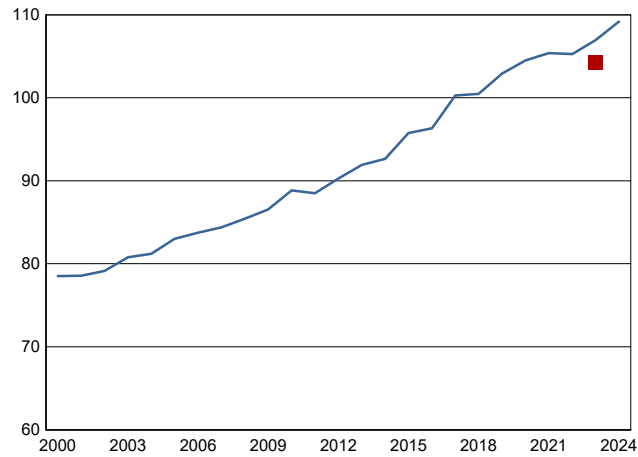


Head & Face

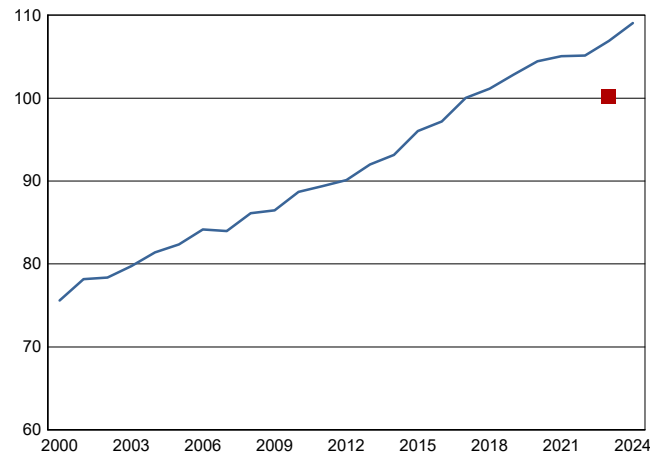


Genetic Trends

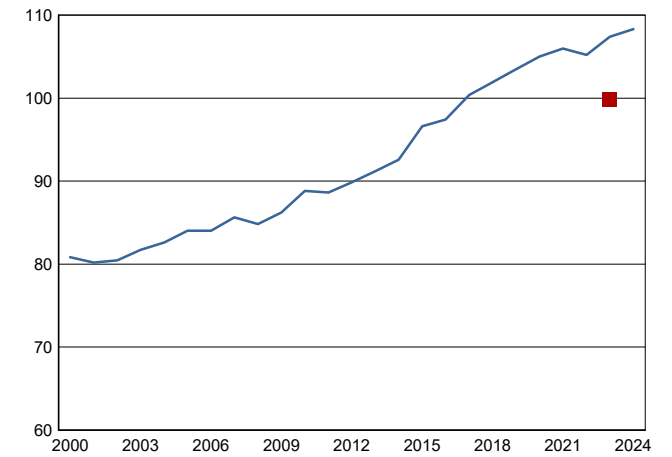
Front Quarter



Centre

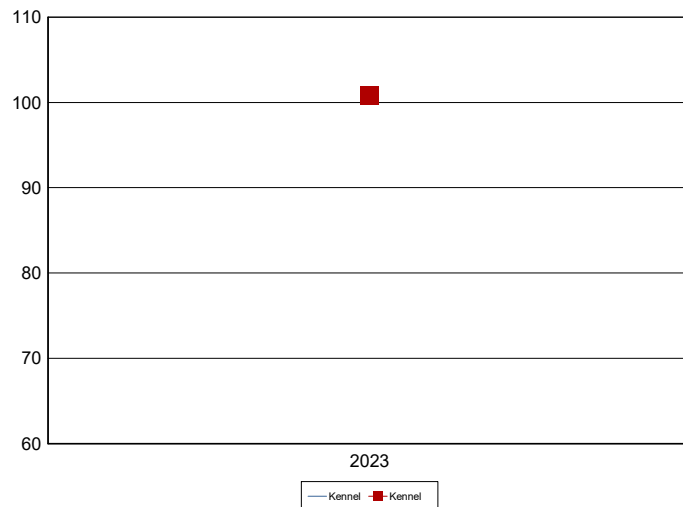


Hind Quarter

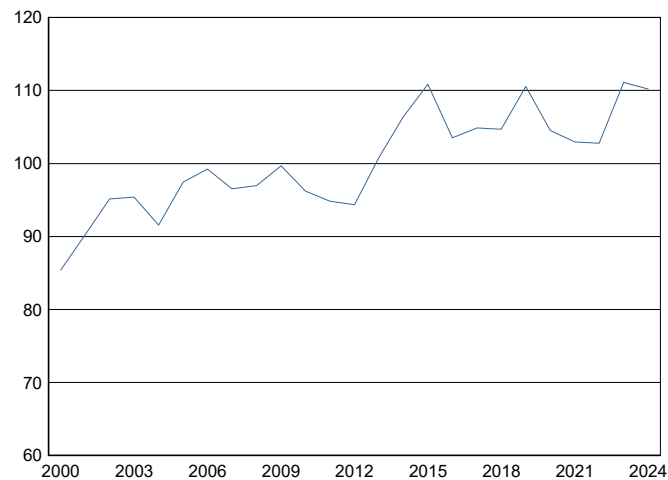


Final Score & Health Traits

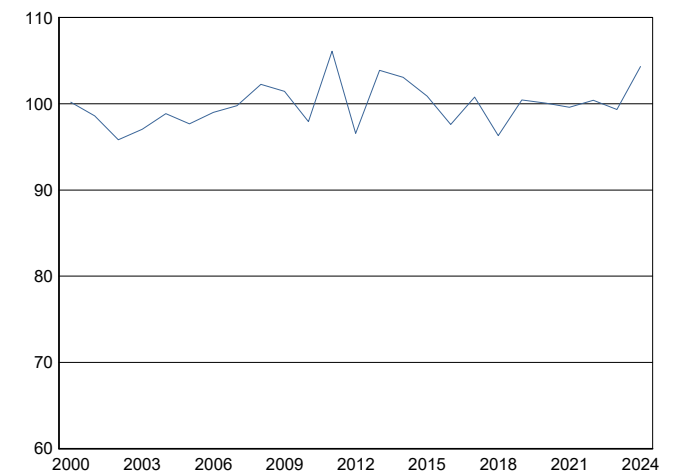
Final Score



Hip Health



Elbow Health



Estimated Breeding Value Indices (EBVi's)

Males

Inbreeding >6.25% is high

< 80

>= 100

>= 120

Animal Information		Inbred	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			
KAMMO BBD REUB 166	SPITSVUUR BBD TOKARA DRIFTER	8.24	83	104	110	97	86	103	106	101	90	104	96	98	17	3	3			1
	KAMMO BBD ZASTAVA		8	18	41	56	35	69	56	69	57	58	61	65			3			1
CDH BITCOIN	CDH BULLET	5.47	102	109	103	103	117	83	103	96	105	101	99	99	58	8	5			
	REGAL SUSSA		5	5	31	56	32	71	55	70	57	59	61	66			3			
WILLOW LION BUTCHER BOY	KLEIN SANDFONTEIN RHINO 6	10.98	90	98	103	102	108	91	112	98	106	114	103	104						
	KLEIN SANDFONTEIN SKYE		5	5	5	13	5	28	12	27	14	17	19	24						
BOSTU MAXI COOL	BOSTU DJ COOL	13.31	93	104	108	109	118	87	113	111	100	101	117	111	1	1				
	BOSTU AZIRA		5	9	9	50	18	66	49	65	51	53	56	61						
AGRAM CAPONE	CDH BITCOIN	5.32	113	107		98	103	89	96	102	103	97	96	98						
	BRACCO M.B. TESSA		5	5		31	5	44	30	43	32	34	36	40						
AGRAM COOPER	CDH BITCOIN	5.32	113	107		98	103	89	96	102	103	97	96	98						
	BRACCO M.B. TESSA		5	5		31	5	44	30	43	32	34	36	40						
SPIRITSOUL BLACKFACE	AFRIKA JAAP	13.52	116	95	99	104	117	101	107	111	116	112	117	115						
	MIDDELPOS BBD MITA		5	5	7	31	5	45	31	44	32	34	36	41						
AGRAM MAK	CDH BITCOIN	9.09	104	103	111	105	121	89			110	106								
	VEILIGPLEK PHEME		5	5	5	31	5	45		44	32	34	36	40						
AGRAM MIKE	CDH BITCOIN	9.09	104	103	111	105	121	89			110	106								
	VEILIGPLEK PHEME		5	5	5	31	5	45		44	32	34	36	40						

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	
AGRAM MERLIN		CDH BITCOIN	9.09	104	103	111	105	121	89			110	106							
	2025	VEILIGPLEK PHEME		5	5	5	31	5	45		44	32	34	36	40					
AGRAM MAJOR		CDH BITCOIN	9.09	104	103	111	105	121	89			110	106							
	2025	VEILIGPLEK PHEME		5	5	5	31	5	45		44	32	34	36	40					
AGRAM MAGNUS		CDH BITCOIN	9.09	104	103	111	105	121	89			110	106							
	2025	VEILIGPLEK PHEME		5	5	5	31	5	45		44	32	34	36	40					

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	
BRACCO M.B. TESSA	2019	AFRIKA BUTCH	7.54	125	105	88	93	89	96	90	107	100	93	94	97	22	2	2			
		AFRIKA SCARLET		5	5	23	44	14	62	44	61	45	48	50	56			2			
TOKARA BONNIE	2020	MES ZULU II	7.58	85	109	84	76	90	82	90	106	96	92	97	94	8	2	1			
		TOKARA LOLA		5	5	28	48	18	64	47	63	49	51	54	59			1			
VEILIGPLEK PHEME	2020	QUOVADIS PARTNER IN CRIME	8.72	105	98	119	108	124	96	123	105	115	110	107	111	21	3	2			
		VEILIGPLEK KUMA		5	7	19	48	20	64	47	63	49	51	54	59			2			
TOKARA SAMURAI	2021	MES ZULU II	5.03	93	103	80	80	86	86	75	82	83	78	94	80						
		REYDALL LEKITA		5	5	5	46	12	65	45	64	47	49	52	58						
AGRAM BALI	2023	CDH BITCOIN	9.09	104	103	111	113	123	95	114	96	109	107	105	105						
		VEILIGPLEK PHEME		5	5	5	42	8	61	41	60	43	46	48	54						
AGRAM EMPRESS	2023	CDH BITCOIN	6.26	93	109	93	87	105	60	102	105	100	95	97	95						
		TOKARA BONNIE		5	5	7	42	8	61	41	60	43	45	48	54						
AGRAM CASSIE	2023	CDH BITCOIN	5.32	113	107		100	105	93	100	108	106	101	97	103						
		BRACCO M.B. TESSA		5	5		40	5	58	38	57	41	43	46	52						
AGRAM CUTE RHEA	2023	CDH BITCOIN	5.32	113	107		98	103	89	96	102	103	97	96	98						
		BRACCO M.B. TESSA		5	5		31	5	44	30	43	32	34	36	40						
TOKARA CARMEL BAGIRA	2024	BOSTU KORAT KAT	13.08	94	113		92	98	77	92	95	96	100	98	93						
		TOKARA AIKA		5	5		22	5	34	22	33	23	25	27	30						
AGRAM ARETHA	2024	CDH BITCOIN	6.26	93	109	93	89	104	82	96	101	100	97	98	97						
		TOKARA BONNIE		5	5	7	31	5	45	31	44	32	34	36	40						
AGRAM ARWEN	2024	CDH BITCOIN	6.26	93	109	93	89	104	82	96	101	100	97	98	97						
		TOKARA BONNIE		5	5	7	31	5	45	31	44	32	34	36	40						

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	
AGRAM ANET		CDH BITCOIN	6.26	93	109	93	89	104	82	96	101	100	97	98	97						
	2024	TOKARA BONNIE		5	5	7	31	5	45	31	44	32	34	36	40						
AGRAM DIDI		CDH BITCOIN	9.09	104	103	111	105	121	89	113	100	110	106	103	105						
	2024	VEILIGPLEK PHEME		5	5	5	31	5	45	31	44	32	34	36	40						
AGRAM MEHIT		CDH BITCOIN	9.09	104	103	111	105	121	89		100	110	106	103	105						
	2025	VEILIGPLEK PHEME		5	5	5	31	5	45		44	32	34	36	40						
AGRAM MOLLY		CDH BITCOIN	9.09	104	103	111	105	121	89		100	110	106	103	105						
	2025	VEILIGPLEK PHEME		5	5	5	31	5	45		44	32	34	36	40						
AGRAM MINA		CDH BITCOIN	9.09	104	103	111	105	121	89		100	110	106	103	105						
	2025	VEILIGPLEK PHEME		5	5	5	31	5	45		44	32	34	36	40						

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	
SPITSVUUR BBD TOKARA DRIFTER		SPITSVUUR BBD RAMKAT	8.98	47	128	101	86	79	96	99	84	89	114	97	91	183 38	63	3	3	36
	2012	SPITSVUUR BBD DOEDIE		40	35	68	83	64	90	82	90	83	84	86	88					
AFRIKA BUTCH		AFRIKA DAMARKUS	7.47	126	102	63	85	85	97	90	106	92	88	82	91	19 5	2			1
	2014	AFRIKA PLUM		5	17	40	41	15	53	41	52	42	44	45	49					
CDH BULLET		CDH SNIPER	10.46	103	118	94	111	124	118	117	113	123	116	119	122	169 26	43	4	4	32
	2017	MIDDELPOS BBD MILLY		16	36	57	76	53	86	75	85	76	78	80	83					
QUOVADIS PARTNER IN CRIME		KLEIN SANDFONTEIN HUEY	19.39	109	91	135	130	143	92	139	113	130	126	131	129	108 13	36	11	10	18
	2017	LOTTER SANA		24	46	40	66	42	79	66	78	67	69	71	75					
MES ZULU II		ULTRA-INYATHI KOJAK	9.11	92	105	92	75	90	83	73	109	100	81	94	92	34 10	12			7
	2017	LEESER MIEKE		5	5	25	60	31	76	59	75	61	63	66	71					
KLEIN SANDFONTEIN RHINO 6		KLEIN SANDFONTEIN DEJAVU	9.12	106	114	91	120	116	96	112	96	109	123	114	111	13 2		1	1	1
	2017	KLEIN SANDFONTEIN ARRA		5	12	26	34	5	46	34	46	35	37	39	43					
CDH BITCOIN		CDH BULLET	5.47	102	109	103	103	117	83	103	96	105	101	99	99	58 8	5			
	2019	REGAL SUSSA		5	5	31	56	32	71	55	70	57	59	61	66					
BOSTU KORAT KAT		CABARET STRAAT-KAT	9.29	100	119	91	80	97	86	102	93	94	103	94	93	6	1			
	2020	CDH MICCO		12	24	43	50	32	58	50	58	51	52	53	56					
AFRIKA JAAP		WOEKER BBD JAPIE	10.17	116	84	111	105	123	102	109	119	121	115	116	120	34 3	7			2
	2021	AFRIKA DANIKA		5	5	35	60	36	74	60	73	61	63	65	70					
BOSTU DJ COOL		BOSTU DADDY COOL	6.16	104	111	106	99	124	89	131	118	107	113	115	117	41 7	12			3
	2021	ELEVATION J LO		37	55	34	63	37	77	62	76	64	66	68	73					

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	
TOKARA LOLA	2014	SPITSVUUR BBD TOKARA DRIFTER	9.21	77	113	93	71	87	69	103	100	90	105	93	91	16	3	4		2	
		KLEIN SANDFONTEIN KYLA		5	5	51	54	31	68	53	67	55	57	59	63			4			1
AFRIKA SCARLET	2014	AFRIKA SAKABUKA	5.81	124	109	112	88	81	84	93	103	102	88	88	91	14	4	2		1	
		AFRIKA BLITZY		27	36	49	55	34	65	54	64	55	57	58	62			2			1
REGAL SUSSA	2015	MIDDELPOS BBD DUKE I	5.26	101	99	111	96	113	65	95	90	103	93	77	86	26	4	12		8	
		VOEL GERUS ELZAAN		5	5	45	62	37	77	62	76	63	65	68	72			11			2
KAMMO BBD ZASTAVA	2016	MES BITE A BULLET	7.47	118	79	124	107	105	98	119	111	93	100	104	106	38	6	8	1	1	4
		ELEVATION KENNA		31	47	60	59	39	70	58	70	59	61	63	67			7			
REYDALL LEKITA	2017	BOUWER MUFASA 7	4.77	94	100	68	90	85	106	87	76	76	78	88	79	13	2	1			
		JAC-LEE ISABELLA		5	5	24	48	13	67	47	66	49	51	55	61			1			
VEILIGPLEK KUMA	2017	MARKHUS BALU	5.27	101	105	96	85	101	112	100	106	99	93	88	98	15	2	5	2	1	3
		VEILIGPLEK HASTA		5	5	16	45	17	63	45	62	46	49	52	57			4			
BRACCO M.B. TESSA	2019	AFRIKA BUTCH	7.54	125	105	88	93	89	96	90	107	100	93	94	97	22	2	2			
		AFRIKA SCARLET		5	5	23	44	14	62	44	61	45	48	50	56			2			
TOKARA BONNIE	2020	MES ZULU II	7.58	85	109	84	76	90	82	90	106	96	92	97	94	8	2	1			
		TOKARA LOLA		5	5	28	48	18	64	47	63	49	51	54	59			1			
KLEIN SANDFONTEIN SKYE	2020	KLEIN SANDFONTEIN THE STING	9.07	74	82	115	83	100	86	112	100	102	105	93	97	8	1				
		KLEIN SANDFONTEIN IVANKA		5	5	26	32	5	45	31	44	33	35	37	41						
VEILIGPLEK PHEME	2020	QUOVADIS PARTNER IN CRIME	8.72	105	98	119	108	124	96	123	105	115	110	107	111	21	3	2			
		VEILIGPLEK KUMA		5	7	19	48	20	64	47	63	49	51	54	59			2			
BOSTU AZIRA	2021	BOSTU ZAZU	15.31	81	96	110	118	108	94	98	90	90	92	117	100	17	1	3			1
		BOSTU ASHANTI		6	32	42	60	36	74	60	73	61	63	65	69			3			
MIDDELPOS BBD MITA	2021	CDH MONTARO	12.00	115	105	87	103	112	99	105	103	111	109	118	110	15	3				
		MIDDELPOS BBD JAXY		5	5	36	46	17	64	46	62	47	50	52	58						

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	
TOKARA AIKA		TOKARA RIPPER	8.30	89	106	88	103	99	67	81	96	98	97	102	94	8	1	1			
	2022	TOKARA MOANA		5	5	17	31	5	46	31	45	32	34	37	41			1			

