

DRAKENSBERGER

GENOMIC BREEDING VALUE REPORT

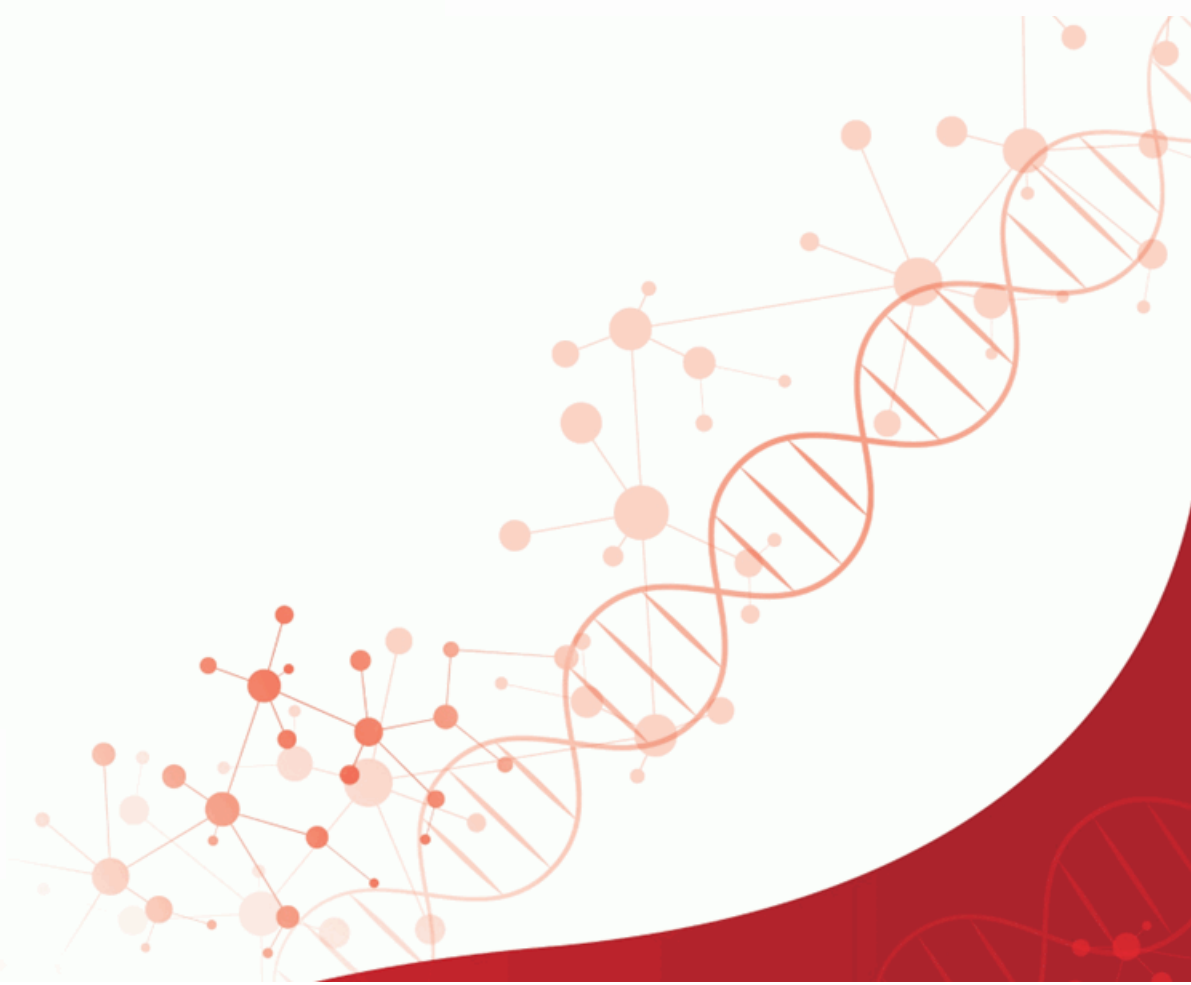
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EBVs, EBVi's and GEBVs

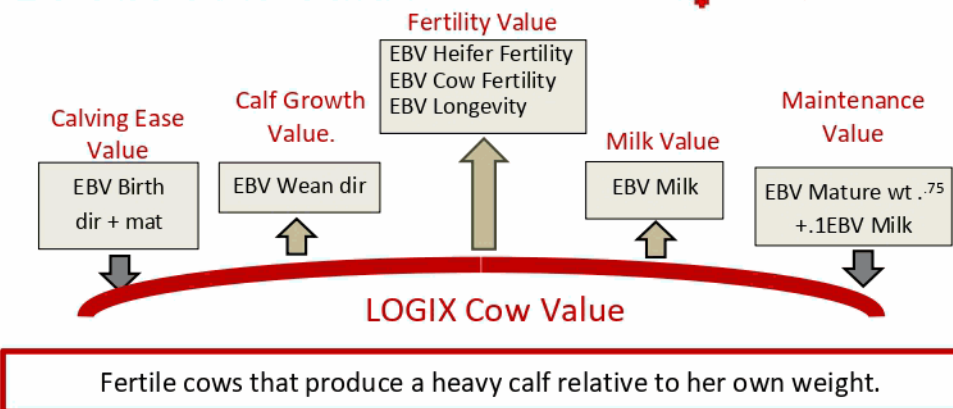
EBVi (Breeding Value Index): Genetic potential relative to the average (100) of the live (active) animals in the breed. Roughly 50% of the animals have values between 90 and 110. Values above 100, depending on the trait, tend to be in the more favourable direction.

EBV (Breeding Value): Genetic potential relative to the average of the animals born in the base year (1990), expressed in the unit of measurement.

GEBV (Genomic Breeding Value) Interpreted like the EBVi. (GEBV = EBV + Genomic information)

LOGIX Selection values combine different breeding values in a logical way. For example, Heifer Fertility (how early a heifer starts calving), Cow Fertility (how regular she calves) and Longevity (retention within the family) are combined to form the Fertility Value.

LOGIX Cow Value



Selection Values

LOGIX Cow Value



Selecting for:

- fertile,
- low maintenance,
- easy calving cows
- with heavy weaners

LOGIX Growth Value



Select for efficient growers on veld and in feedlot, as measured in Phase C and D Growth Tests.

LOGIX Carcass Value



Select for more meat on the carcass as measured from end weight in Phase C and D Growth Tests and RTU scanning.

LOGIX Production Value



80% LOGIX Cow Value +
20% LOGIX Growth Value

How to use the Cow Value

Selection values should be compatible with your selection goal.

AVERAGE ANIMALS

(NO GROWTH EXTREMES)

- Selection Values 90 to 110
 - Cow Value and Fertility Value average to high
- A safe choice, as animals are profitable in most environments.

GROWERS

(GOOD ENVIRONMENT)

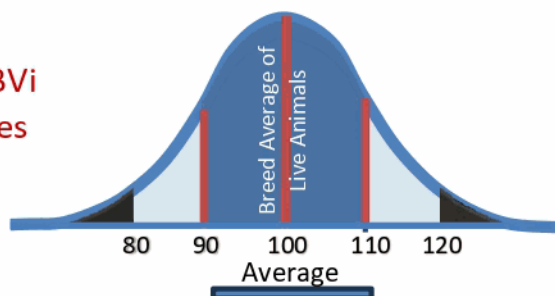
- WeanerCalf / Growth Value > 120
 - Cow Value and Fertility Value average to high
- Growers are usually heavier at birth (lower Calving Ease Value), and maturity (lower Maintenance Value).

LOW- MAINTENANCE ANIMALS

(HARSH ENVIRONMENT)

- Maintenance Value >110
 - Cow Value and Fertility Value average to high
- Lighter cows have a lower maintenance.

Interpretation of EBVi and Selection Values



Examples

Type of Animal	Cow Value	Calving Ease V	Weaner Calf V	Milk Value	Maint. Value	Fertility Value
Average	Med-High	Avg	Avg	Avg	Avg	Med-High
Grower	Med-High		High			Med-High
Low Maintenance	Med-High				High	Med-High

Contemporary Groups

The correct composition of contemporary groups is one of the cornerstones of BLUP breeding value estimation. Breeding values are estimated from the differences between animals exposed to the same environment, *as these differences are caused by genetics*. The following aspects are important:

1. Animals at the same time, place and treatment

A contemporary group is a comparable group of animals measured at the same time in the same environment. It is therefore a comparable group of animals that were together on the same farm or camp in the same year and season. If there are animals in the group that were treated differently, they should be given a separate treatment code because their performance is influenced by other environmental influences than the rest of the group. Examples of possible different treatments are when some animals received supplements or creep feed, sale or show animals, embryo donors, sick or foster calves or even purchased cows and calves. If bull and heifer calves or older cows and young heifers were in the same camp, they should be placed in the same group – corrections for sex, age and first calving of cows are automatically made during breeding value estimation.

2. Progeny of at least two sires, of which one is a link sire

The progeny of different sires needs to be compared in the same group in order to determine the sires' genetic merit relative to each other. At least one sire should be a link sire with progeny in other herds. Genetic links between herds are used to determine the position of sires in the breed. All sires are good link sires. Smaller herds could artificially inseminate some cows or allow some cows to be covered by another herd's bull.

3. Larger groups stabilise Breeding Values

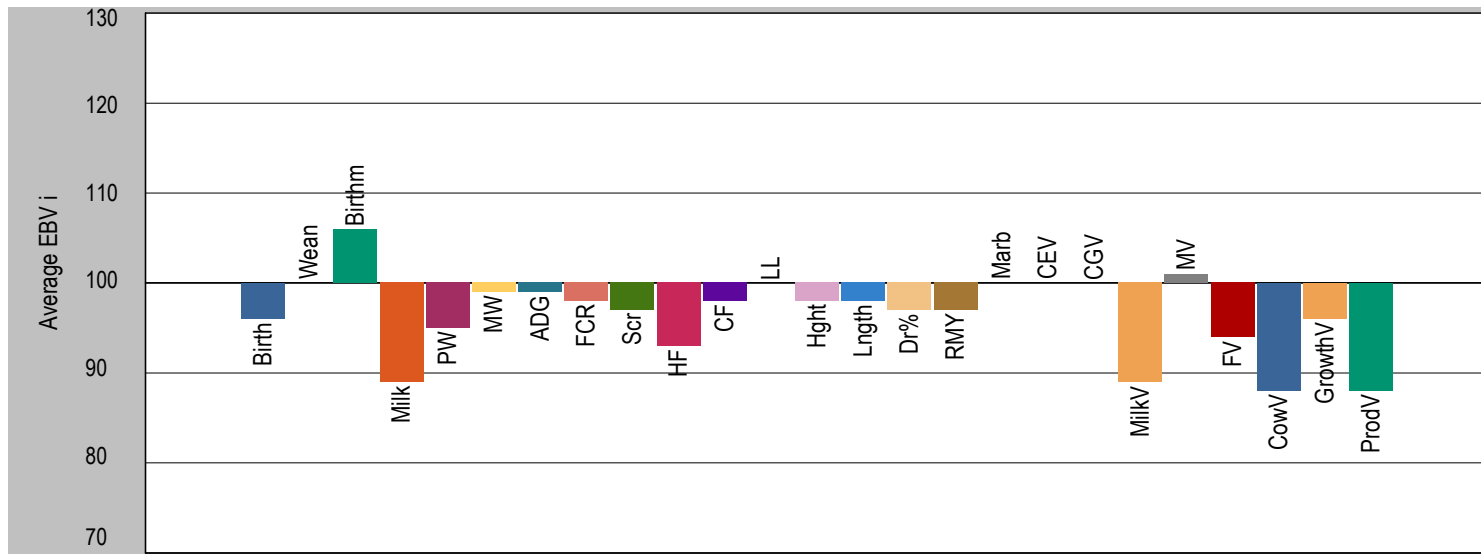
Larger groups result in more accurate and stable breeding values, as the mean and distribution of the group can be more accurately determined and are thus more representative. Groups should preferably have more than 5 animals. Weigh all the animals in the same group on the same day, as corrections for age differences are made during genetic evaluation. The use of breeding seasons rather than through the year calving will also increase contemporary group size. Groups with less than 3 animals are not included in breeding value estimation. An accidental mistake in a small group affects the animal itself, its family, all the other animals in the group and their families. The effect could be much less in large groups.

4. Measure all animals in the contemporary group

Weigh ALL the animals in the contemporary group, the good as well as the poor performers. Weigh animals before they are culled, so their parents can be penalized for their poor breeding.



Herd and Breed Averages



Breeding Values:

Birth:	Birth weight	Scr:	Scrotal circumf.
Wean:	Weaning weight	HF:	Heifer Fertility
Birthm:	Birth maternal	CF:	Cow Fertility
Milk:	Milk	LL:	Longevity
PW:	Post-wean weight	Hght:	Height
MW:	Mature weight	Lngth:	Length
ADG:	Average Daily Gain	Dr%:	Dressing%
FCR:	Feed Conversion Ratio	RMY:	Red Meat Yield
		Marb:	Marbling

Selection Values:

CEV:	Calving Ease Value
CGV:	Calf Growth Value
MilkV:	Milk Value
MV:	Maintenance Value
FV:	Fertility Value
CowV:	Cow Value (CV)
GrowthV:	Growth Value (GV)
ProdV:	Production Value (PV)

	Trait	EBV Herd	EBV Index	EBV Breed
Prewean Growth	Birth Weight	0.48	96	0.10
	Wean Weight	10.3	100	10.5
	Birth Mat.	-0.12	106	0.17
	Milk (Wn.Mat.)	-0.5	89	3.3
Postwean Growth	Postwean Wt	15.9	95	19.8
	Mature Weight	11	99	11
	ADG	67	99	71
	FCR	-47	98	-50
Fertility	Scrotal Circumf.	9.7	97	11.3
	Heifer Fertility	3.2	93	-2.3
	Cow Fertility	-1.3	98	-1.7
	Longevity	24.6	100	24.7
Frame	Height	-2	98	-1
	Length	10	98	12
Carcass	EMA	0.12	97	0.48
	Fat	-0.20	100	-0.20
	Marbling	0.18	100	0.16

Selection Value	Ave. Herd
Calving Ease	100
Calf Growth	100
Milk	89
Maintenance	101
Fertility	94
Cow Value	88
Growth Value	96
Production Value	88
Carcass Value	97

- Average of live animals in the breed: 100
- Above 100: **more favourable**,
- Below 100: **less favourable**

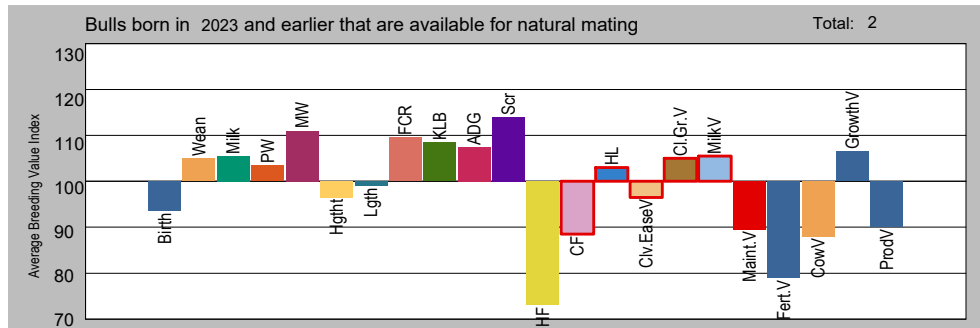
What does a sub-selection value above breed average (100) mean?:

Calving ease:	Smaller calf at birth - easier calving
Calf growth:	Heavier calves at wean due to growth potential of the calf
Milk:	Cows with more milk and better mothering ability
Maintenance:	Animals with low maintenance requirements (lower mature weight).
Fertility:	Cows/daughters that calve

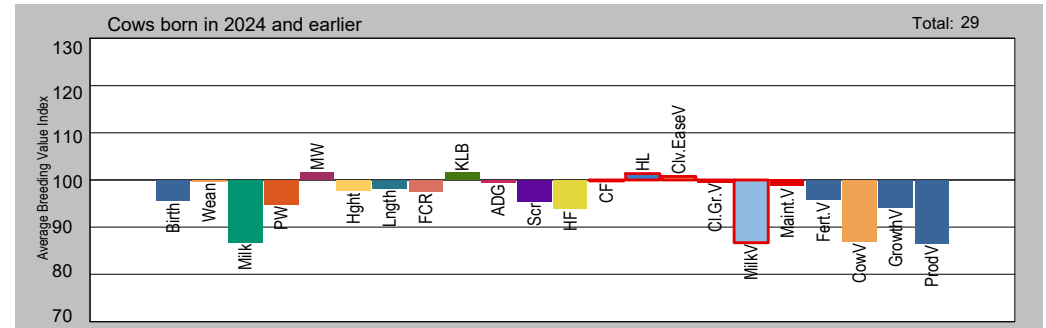
Genetic Windows

Animals available for breeding

Bulls on the farm

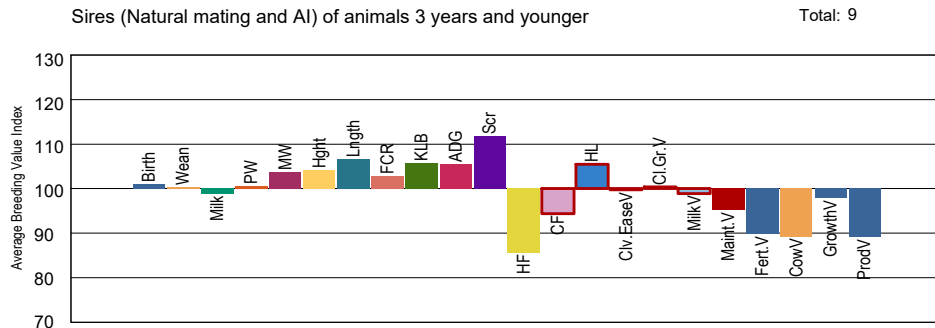


Cow Herd

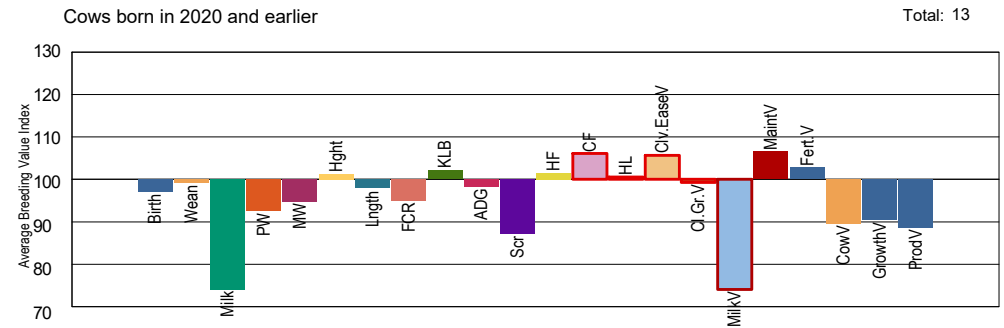


Results of previous selection decisions

Sires of young animals

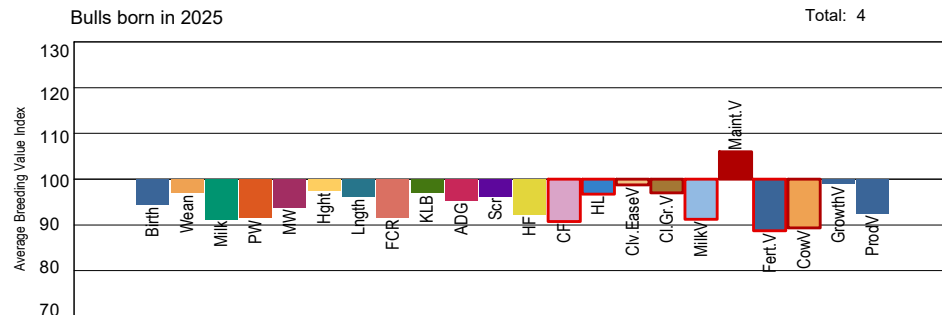


Cows older than 6 years

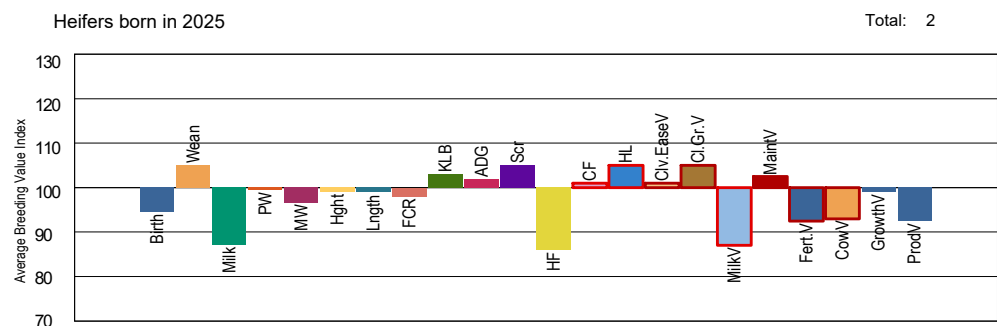


Selection possibilities

Bull calves



Heifer calves



Summary of Cow Herd

			Selection Values (SV)								Calf Weight		Dam		Growth & Efficiency				Fertiity				Frame	
Birth Year	No. Cows	Average Cow Value	Calving Ease	Calf Grwth	Milk	Maint.	Fertility	Cow Value	Growth Value	Prod Value	Birth Weight	Wean Weight	Birth Mat.	Milk (Wn.Mat)	Postwn Weight	Mature Weight	ADG	Kleiber	Scrotal Circumf.	Heifer Fertility	Cow Fertility	Longevity	Height	Length
			Cows in Breed Average:								100	100	100	101	101	101	99	100	100	100	100	100	100	100
2018	1		89								99		81						92					
2020	13	★★★★	106	99	74	107	103	90	90	89	97	99	114	74	93	95	98	102	87	101	106	101	101	98
2021	1	★★★★☆	90	94	101	98	98	87			93	94	94	101	89	100	94	93	91	103	91	104	106	102
2022	4	★★★★	101	103	98	88	95	90	102	90	97	103	107	98	99	114	103	102	106	91	101	101	98	103
2023	8	★★★★☆	91	101	100	92	84	82	97	83	91	101	100	100	98	108	100	101	104	82	89	103	87	94
2024	4	★★★★☆	107	94	88	103	96	87	90	85	104	94	105	88	92	97	97	99	94	97	100	97	105	100
2025	2	★★★★	101	105	87	103	93	93	99	93	95	105	111	87	100	97	102	103	105	86	101	105	99	99
2026	2	★★★★☆	96	103	90	106	88	89	98	89	90	103	110	90	98	94	101	103	106	84	92	105	99	99
Cows in Herd Average:			98	100	91	100	94	88	96	88	96	100	103	91	96	101	99	100	99	92	97	101	99	99

Genetic Trends for On-Farm Traits

The graphs show the genetic gain of the herd relative to the breed. Only data of animals with measurements are included.

Herd

Birth Year	Calving Ease			Calf Growth			Milk			Maintenance				Fertility				Cow Value			
	Birth Weight		Calv. Ease	Weaning Weight		Calf Growth	Milk (Wn.Mat.)		Milk	Postwean Weight		Mature Weight		Maintenance	Heifer Fert.		Cow Fert.		Longevity	Ferti- lity	
	Number	EBV		Number	EBV		Number	EBV		Number	EBV	Number	EBV		Number	EBV	Number		EBV	Number	EBV

Breed

Birth Year	Calving Ease				Calf Growth			Milk			Maintenance					Fertility								Cow Value
	Birth Weight		Mat EBV	Calv. Ease	Weaning Weight		Calf Growth	Milk (Wn.Mat.)		Milk	Postwean Weight		Mature Weight		Maintenance	Heifer Fert.		Cow Fert.		Longevity		Fertility		
	Number	Dir EBV			Number	EBV		Number	EBV		Number	EBV	Number	EBV		Number	EBV	Number	EBV	Number	EBV		Number	
2016	3646	0.21	0.12	100	2841	9.8	99	2841	1.58	95	2243	18.0	536	11	101	786	-0.9	490	-1.6	4039	18.4	96	92	
2017	3747	0.22	0.09	100	2879	10.7	100	2879	1.88	96	2328	19.3	551	12	101	731	-1.1	516	-2.1	4171	18.7	98	94	
2018	4020	0.24	0.13	99	3347	10.5	100	3347	1.94	96	2574	19.5	538	13	100	750	0.0	524	-2.2	4320	18.8	97	93	
2019	3716	0.16	0.11	100	3312	9.8	99	3312	2.49	98	2449	19.4	499	12	101	743	-3.0	485	-2.0	4312	19.0	101	95	
2020	4077	0.11	0.10	101	3575	9.9	99	3575	2.62	98	2781	19.0	510	10	101	772	-2.6	446	-2.4	4146	19.5	101	96	
2021	4035	0.14	0.09	100	3588	9.8	99	3588	2.80	98	2633	18.8	482	11	100	679	-2.1	369	-2.3	3913	19.6	101	96	
2022	4015	0.16	0.10	100	3442	10.3	100	3442	3.11	99	2315	21.0	400	13	99	558	-1.5	29	-3.3	1635	19.2	102	98	
2023	4207	-0.03	0.10	102	3319	9.9	99	3319	3.19	100	2252	20.6	53	10	99	201	-1.3					100	98	
2024	3580	-0.07	0.13	102	3060	10.0	99	3060	3.46	100	2232	20.1			99	7	-1.8					93	99	
2025	3286	-0.02	0.14	101	2447	9.5	98	2447	3.55	101	207	13.3			104								99	
2026	694	-0.11	0.07	103	19	14.0	107	19	2.57	98													95	

Genetic Trends for Growth Test Traits

Herd

Birth Year	Growth									Frame						Carcass						Selection Values			
	FCR			ADG			Scrotum			Height			Length			EMA		Fat		Marbling		Carcass Value	Growth Value	Prod Value	
	Number	EBV	EBVi	Number	EBV	EBVi	Number	EBV	EBVi	Number	EBV	EBVi	Number	EBV	EBVi	RTU Number	EBV	EBVi	EBV	EBVi	EBV	EBVi			

Breed

Birth Year	Growth									Frame						Carcass								Selection Values		
	FCR			ADG			Scrotum			Height			Length			RTU Number	EMA		Fat		Marbling		Cracss Value	Growth Value	Prod Value	
	Number	EBV	EBVi	Number	EBV	EBVi	Number	EBV	EBVi	Number	EBV	EBVi	Number	EBV	EBVi		EBV	EBVi	EBV	EBVi						
2017	81	-67	110	594	85	103	560	13.2	104	551	1	103	551	15	103	384	0.51	100	-0.04	102	-0.02	97	101	100	95	
2018	115	-66	109	553	97	107	507	13.3	104	469	4	107	469	18	107	290	1.00	105	-0.27	99	0.17	100	103	103	96	
2019	104	-60	106	545	99	107	532	13.2	103	341	2	103	341	17	105	311	1.58	111	0.19	105	0.15	100	108	103	99	
2020	116	-59	105	714	89	104	687	13.6	104	504	1	102	505	15	103	438	0.97	105	0.09	104	0.11	99	106	101	97	
2021	108	-72	113	739	81	102	742	12.6	102	648	2	104	648	16	104	345	1.05	106	-0.39	98	0.03	98	106	100	96	
2022	74	-78	117	651	92	105	630	13.5	104	401	1	102	401	15	103	280	1.07	106	0.32	106	0.37	104	109	102	99	
2023	94	-69	111	663	98	107	657	14.4	106	617	4	107	617	20	108	350	1.16	107	0.19	105	0.24	101	108	104	100	
2024	82	-74	114	449	104	108	639	12.4	102	400	2	104	400	18	106	316	1.46	109	0.01	103	0.19	101	110	107	104	
2025	1	-23	85	2	14	86	5	12.8	103	5	-1	99	5	7	94	1	1.84	113	-4.77	44	0.11	99	89	94	90	
2026																										

Sires

Bull				Selection Values							Calf		Dam		Growth				Fertility				Frame		Carcass			Measured Progeny			
ID	Index EBV Acc	Sire ID	Dam ID	Calv. Ease Value	Calf Grwth Value	Milk Value	Maint. Value	Fertility Value	Cow Value	Growth Value	Prod Value	Birth Dir	Wean Dir	Birth Mat.	Wean Mat.	Post wn wt	Mature weight	ADG	FCR	Scrotal	Heifer Fertility	Cow Fertility	Long-evi ty	Height	Length	EMA	Fat	Marbling	Birth Grwth Test	Wean Dgt/Calvs.	
BF 160026		BF 090021	BF 080063	94	93	115	113	80	94	107	95	93	93	100	115	96	87	111	105	124	79	77	110	87	93	104	91	109	11	9	
160026				77	81	64	29	54	57	42	54	0.77	7.1	0.18	8.4	16.8	-1	114	-58	24.4	13.5	3.4	29.5	-9	5	0.84	-0.92	0.67	4	3	5
BF 180085		PU 110302	BF 140186	77	118	97	66	84	79	125	86	69	118	112	97	112	146	124	132	120	75	101	100	109	107	109	103	91	121	86	
18 0085 FF				93	96	86	83	85	81	84	82	3.26	19.9	-0.38	2.2	29.2	56	165	-105	22.0	16.9	-1.8	24.6	5	19	1.45	0.06	-0.35	1	1	
BF 180142		BF 140014	BF 130131	113	88	105	102	88	88	94	87	107	88	112	105	84	95	98	116	91	88	87	105	98	71	100	93	102	33	24	
18 0142				78	87	54	28	52	57	51	56	-0.58	4.1	-0.37	5.1	7.0	7	65	-77	6.7	6.9	1.1	27.2	-2	-15	0.52	-0.77	0.25	10		
BF 180210		D 140434	BF 150157	113	104	85	92	107	97	83	92	109	104	106	85	91	109	93	91	130	99	118	101	108	113	102	113	132	12	8	
18 0210				74	80	54	33	51	55	54	55	-0.85	12.4	-0.09	-1.6	13.1	20	43	-34	27.6	-1.6	-5.7	25.2	5	24	0.73	0.86	2.04			
BF 180222		PU 110302	BF 130038	88	118	102	78	98	101	130	106	89	118	97	102	121	125	136	127	114	75	110	124	105	135	119	109	112	152	146	
18 0222				93	97	62	35	65	66	56	64	1.26	20.2	0.30	4.0	36.4	36	213	-96	18.8	16.5	-3.8	36.8	3	46	2.47	0.51	0.87	18	1	
BF 200360		BF 160026	BF 100025	91	107	105	103	84	98	104	98	88	107	102	105	105	94	104	101	122	77	89	109	98	99	97	91	114	10		
BF200360				73	71	54	28	48	51	48	50	1.28	14.3	0.06	5.0	23.6	6	88	-51	22.9	15.3	0.8	29.3	-2	11	0.18	-0.93	1.00			
BH 160021		BH 110117	BH 130324	79	97	93	94	77	66	89	68	92	97	75	93	97	106	88	84	127	80	85	93	80	93	100	58	114	199	134	
CHRIS				96	98	93	91	93	86	93	87	0.94	9.0	1.35	1.0	17.1	17	23	-21	25.9	12.9	1.7	20.9	-14	6	0.48	-3.64	0.98	34	8	20
BJ 200082		LL 130053	BJ 110107	106	94	103	91	99	90	97	90	108	94	96	103	98	109	105	97	120	93	99	114	110	114	107	99	101	9	8	
AREND				76	82	64	41	60	60	50	58	-0.72	7.1	0.36	4.5	18.1	20	91	-43	21.9	3.2	-1.3	31.5	6	25	1.26	-0.28	0.25	7		
BJ 200117		BJ 130053	BJ 160045	111	105	50	106	79	69	89	69	96	105	125	50	94	96	97	97	95	78	93	91	101	103	98	109	96	1		
BEUKES				70	74	58	41	54	55	42	52	0.46	13.2	-0.98	-13.5	15.2	8	60	-45	8.6	14.4	0.0	19.9	0	15	0.24	0.54	-0.06			
F 160001		ROD 080122	F 130088	124	97	53	121	95	85	81	82	113	97	120	53	87	85	101	105	78	98	100	94	97	96	98	109	94	19	14	
DJ1601				83	85	71	45	62	64	42	60	-1.18	8.9	-0.76	-12.5	9.7	-3	74	-57	-0.7	-0.6	-1.7	21.8	-3	8	0.26	0.53	-0.19	5	5	
HN 180340				98	84	127	96	101	96	71	89	106	84	84	127	89	99	97		93	106	95	102	117	99				43	41	
HN 180340				83	90	66	40	56	63	40	58	-0.54	2.3	0.92	12.6	10.9	11	60		7.5	-6.6	-0.5	25.7	11	11				13	9	13

Sires

Bull				Selection Values							Calf		Dam		Growth				Fertility				Frame		Carcass			Measured Progeny		
ID	Index EBV Acc	Sire ID	Dam ID	Calv.	Calf	Milk	Maint.	Fertility	Cow	Growth	Prod	Birth	Wean	Birth	Wean	Post wn	Mature	ADG	FCR	Scrotal	Heifer	Cow	Long-evi	Height	Length	EMA	Fat	Marbling	Birth	Wean
				Ease Value	Grwth Value	Value	Value	Value	Value	Value	Dir	Dir	Mat.	Mat.	wt	weight					Fertility	Fertility	ty							Grwth Test
HN 200013		LL 130053	HN 150024	107	110	106	92	93	106	109	106	115	110	86	106	117	106	119	98	132	88	97	106	124	140	132	100	98	95	92
AM 200013				93	96	87	85	88	82	88	83	-1.41	15.7	0.81	5.3	33.2	17	146	-46	28.7	7.2	-1.0	27.6	16	50	3.83	-0.17	0.06	17	
												97	96	87	87	92	85	90	83	92	86	84	89	90	89	84	83	83		
NB 190034				105								108		94															1	
NB 190034				21								-0.69		0.43																
												30		5																
P 120016	SS 060001	P 110017		99	117	68	90	114	99	113	101	86	117	131	68	105	113	117	105	94	101	132	100	115	122	112	128	98	108	61
BELENOS				91	94	79	40	64	68	41	63	1.55	19.6	-1.25	-7.3	24.0	24	140	-58	8.3	-3.3	-8.6	24.6	9	33	1.73	2.12	0.07		
												97	94	82	79	88	40	48	32	50	77	41	90	50	49	43	42	41	11	17
P 160033	P 120016	P 110027		107	92	79	98	87	70	101	74	94	92	129	79	80	102	104	98	93	95	92	86	107	105	93	115	96	53	32
NICO				84	90	60	26	50	58	25	51	0.75	6.0	-1.19	-3.8	4.0	14	88	-46	7.5	1.3	0.0	17.4	4	17	-0.26	1.04	-0.08		
												94	90	67	60	80	26	27	21	29	63	29	79	29	29	24	23	23	1	1
P 170038	P 120019	P 140027		103	96	91	89	104	86	107	89	102	96	102	91	90	112	110	100	99	102	100	110	113	115	106	108	95	35	20
JUNGE				80	86	56	24	46	55	23	49	-0.08	8.4	0.07	0.3	12.2	23	110	-50	10.9	-3.8	-1.7	29.8	8	27	1.09	0.48	-0.11		
												92	86	60	56	74	24	28	17	30	54	24	74	28	27	22	22	21		

Growth Tests

Animal				Weight		Frame				Growth				Carcass				
Test Code	Sex	Test no	Sire ID	Cow	Wean	End-	Length	Height	Length/	Scrotum	Intake	ADG	FCR	Growth	EMA	Fat	Marbling	Carcass
Test station		ID	Dam ID	Value	dir	weight			Height					Value				Value
202101 D21 M			0554911MIX															
FOURIE		BF 200360	BF 160026	98	107	104	99	98	101	122	97	104	101	104	97	91	114	101
		91668889	BF 100025	51	71	72	11	-2	1.14	22.9	0.33	88	-51		0.18	-0.93	1.00	
							71	74	72	73	24	63	24	48	33	31	30	32

Breeding Values and Accuracies: Bulls

Inbreeding in red is high

Value <80 Value >120

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Animal				Selection Values								Birth		Wean				Growth			Fertility				Frame		Carcass		
Index EBV Acc	% Inbreeding	Sire ID Dam ID	Calv. Ease V	Calf Growth V	Milk V	Maint. V	Fertility V	Cow Value	Growth Value	Prod. Value	Carcass Value	Birth wt dir	Birth mat	Mature wt	Wean wt	Wean mat	Cow-Calf Ratio (Wean)	Postwean wt	ADG	FCR	Scrotal Circ.	Heifer Fertility	Cow Fertility	Longevity	Height	Length	EMA	Fat	Marbling
ID Number Name																													
BF 200360 91668889 BF200360	3	BF 160026 BF 100025	91 73	107 71	105 54	103 28	84 48	98 51	104 48	98 50	101 32	88 1.28 84	102 0.06 54	94 6 28	107 14.3 71	105 5.0 54	112 97 51	105 23.6 54	104 88 63	101 -51 24	122 22.9 73	77 15.3 41	89 0.8 26	109 29.3 52	98 -2 74	99 11 71	97 0.18 33	91 -0.93 31	114 1.00 30
BF 220212 94142692 22 0212	6	BF 180085 BF 160078	102 66	103 61	106 52	76 25	74 38	78 45	109 32	82 42	108 28	99 0.16 75	105 -0.04 52	128 38 25	103 12.1 61	106 5.4 52	97 58 46	102 21.1 48	111 115 39	118 -81 19	106 14.7 44	69 21.0 38	88 1.0 25	97 23.0 46	95 -4 45	99 11 43	94 -0.10 28	107 0.40 27	96 -0.06 26
R 240001 97996961 PIETERS		P 200014	100 56	93 37	92 33	103 13	93 24	84 29			88 12	96 0.54 68	107 -0.13 36	96 7 13	93 7.1 37	92 0.8 33	88 33 28	87 9.8 34	88 23 17	81 -17 12	88 4.8 18	103 -4.5 30	99 -1.4 18	84 16.4 31	99 -1 17	94 6 17	92 -0.37 12	100 -0.20 12	92 -0.30 12
R 240003 97996987 BERTUS		P 200020	105 55	88 35	91 30	109 13	95 22	83 28			85 5	103 -0.19 68	103 0.06 34	91 2 13	88 4.2 35	91 0.1 30	83 20 26	84 6.9 30	87 22 18	84 -22 5	84 2.9 20	104 -5.3 26	97 -1.0 16	88 18.4 27	99 -1 13	92 4 13	91 -0.50 5	94 -0.70 5	90 -0.45 5
R 240004 97996995 TIAAN	2	HN 200013 P 200029	104 66	113 60	86 48	96 24	92 38	98 44	102 28	98 41	113 14	103 -0.25 75	100 0.17 50	103 14 24	113 17.5 60	86 -1.5 48	97 56 44	111 28.4 54	112 118 44	100 -49 8	110 17.0 47	84 10.1 38	102 -2.1 23	105 27.4 43	114 8 41	122 33 40	117 2.23 15	106 0.27 14	96 -0.05 14
R 240009 97997100 PIETMAN		NB 190034 P 200048	105 52	93 36	92 29	106 14	102 24	92 28			90 13	99 0.21 64	109 -0.27 32	93 5 14	93 7.0 36	92 0.8 29	88 35 26	89 10.8 30	91 36 17	84 -22 10	86 3.8 18	112 -11.3 30	105 -2.8 16	83 16.1 30	104 2 18	97 9 17	95 -0.05 13	96 -0.52 13	92 -0.31 13
R 240010 97997027 BOBAAS		P 200010	111 53	86 36	89 27	120 15	97 22	90 28			81 8	109 -0.83 64	103 0.03 34	84 -4 15	86 2.9 36	89 -0.2 27	81 17 26	83 6.4 32	85 11 21	81 -16 5	81 0.9 23	110 -9.7 22	94 -0.5 17	88 18.4 28	97 -3 17	88 0 17	89 -0.64 9	90 -1.01 8	89 -0.46 8
R 250001 99668428 DAWID		P 200042	104 35	90 35	82 30	115 13	84 22	78 25			85 8	100 0.07 38	107 -0.14 31	88 0 13	90 5.2 35	82 -2.6 30	78 7 26	83 6.8 26	88 24 18	83 -20 6	82 1.9 20	97 0.2 26	84 1.9 14	87 18.2 27	97 -2 14	92 4 14	93 -0.24 8	93 -0.74 7	88 -0.52 7
R 250002 99668386 SAUL		P 200019	100 32	89 27	95 21	104 8	86 16				87 7	96 0.49 37	107 -0.13 24	95 6 8	89 4.5 27	95 1.5 21	86 28 19	81 5.1 24	88 25 8	82 -18 6	88 4.7 9	100 -2.1 19	85 1.6 9	85 17.3 28	102 0 8	95 7 8	93 -0.29 7	93 -0.80 7	90 -0.41 7
R 250005 99668410 FOURIE	1	BF 200360 P 200020	98 61	101 50	89 41	105 19	96 33	93 37	95 27	91 35	96 16	93 0.77 71	106 -0.13 43	94 5 19	101 11.2 50	89 -0.3 41	93 46 37	97 17.6 41	100 72 36	99 -48 13	103 13.2 41	90 5.1 33	100 -1.7 20	106 27.9 38	99 -1 39	97 9 38	93 -0.25 17	99 -0.29 16	104 0.41 16
R 250014 6020190481 DRIES	7	BF 200360 BF 220132	93 62	108 51	99 40	100 20	89 34	97 38	104 30	97 36	100 28	89 1.18 73	106 -0.09 43	98 9 20	108 14.6 51	99 2.8 40	105 79 37	105 23.8 41	105 89 41	102 -53 15	112 17.7 46	82 11.5 32	94 -0.4 19	109 29.2 37	92 -6 47	101 13 45	94 -0.18 29	91 -0.96 27	110 0.74 27
R 260017 6020491632 LINDO	1	BF 200360 P 200010	102 62	100 50	88 38	116 21	98 33	99 37	93 28	96 35	92 18	97 0.36 72	108 -0.18 44	87 -1 21	100 10.4 50	88 -0.8 38	92 45 36	97 17.6 42	98 61 38	96 -42 13	100 11.1 43	96 0.7 30	98 -1.2 22	106 27.9 38	96 -3 41	93 5 39	92 -0.38 19	95 -0.60 17	104 0.40 17

Breeding Values and Accuracies: Bulls

Inbreeding in red is high

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Animal			Selection Values										Birth		Wean				Growth			Fertility				Frame		Carcass		
Index EBV Acc	% Inbreeding	Sire ID Dam ID	Calv. Ease V	Calf Growth V	Milk V	Maint. V	Fertility V	Cow Value	Growth Value	Prod. Value	Carcass Value	Birth wt dir	Birth mat	Mature wt	Wean wt	Wean mat	Cow-Calf Ratio (Wean)	Postwean wt	ADG	FCR	Scrotal Circ.	Heifer Fertility	Cow Fertility	Longevity	Height	Length	EMA	Fat	Marbling	
ID Number Name																														
R 260019 6020491657 CHRISTO	2	BF 200360 P 200031	98 61	104 51	91 41	108 20	91 34	95 38	96 27	94 36	96 16	98 0.30	98 0.24	91 3	104 12.6	91 0.2	97 58	103 22.2	100 72	98 -46	104 13.6	87 7.3	95 -0.7	105 27.1	99 -1	97 9	94 -0.14	99 -0.28	104 0.37	
R 260024 6020491673 CHAMPION	1	BF 200360 P 200029	99 62	110 51	86 41	102 19	88 34	94 38	99 27	93 36	102 18	95 0.61	107 -0.14	97 9	110 15.8	86 -1.5	96 54	103 22.5	105 89	101 -52	105 14.1	78 14.2	98 -1.2	107 28.2	101 0	102 14	99 0.40	101 -0.11	104 0.42	

Breeding Values and Accuracies: Cows

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Animal				Selection Values								Birth		Wean				Growth			Fertility				Frame		Carcass			
Index EBV Acc	% Inbreeding	Sire ID Dam ID	ID Number Name	Calv. Ease V	Calf Growth V	Milk V	Maint. V	Fertility V	Cow Value	Growth Value	Prod. Value	Carcass Value	Birth wt dir	Birth mat	Mature wt	Wean wt	Wean mat	Cow-Calf Ratio (Wean)	Postwean wt	ADG	FCR	Scrotal Circ.	Heifer Fertility	Cow Fertility	Longevity	Height	Length	EMA	Fat	Marbling
P 180038 91869909 P 180038				89 46									99 0.20 46	81 1.04 46										92 20.8 28						
P 200010 90723016 LINDI	1	F 160001 P 110023		118 74	90 71	71 54	126 30	113 45	99 51	81 28	93 46	82 17	111 -1.06 78	112 -0.36 66	80 -8 30	90 5.3 71	71 -6.3 54	69 -14 52	88 10.5 64	91 35 42	91 -34 11	78 -0.7 46	115 -13.9 45	107 -3.2 34	104 26.6 55	95 -4 35	87 -1 34	86 -0.95 18	99 -0.27 16	94 -0.20 16
P 200011 90723024 PETRO	1	F 160001 P 160045		113 65	90 70	74 50	117 27	106 40	90 47	87 26	87 43	90 14	104 -0.30 73	115 -0.54 51	87 -1 27	90 5.1 70	74 -5.4 50	70 -13 49	85 7.7 63	97 58 37	96 -42 12	80 0.4 41	111 -10.8 42	103 -2.3 25	99 24.1 51	97 -3 28	94 6 28	89 -0.66 15	109 0.58 14	90 -0.41 14
P 200013 90718826 NKOMAZI	2	P 120016 P 150005		101 72	102 73	72 62	101 22	106 44	88 51	93 22	87 45	95 22	94 0.72 77	112 -0.39 64	99 11 22	102 11.5 73	72 -6.0 62	76 3 52	93 14.0 65	97 58 26	91 -33 17	83 2.4 27	109 -9.4 58	101 -2.0 33	102 25.7 60	100 -1 27	99 11 26	92 -0.36 22	114 0.94 21	94 -0.19 21
P 200014 90718834 GLYNETTE	2	P 120016 P 070029		99 76	104 75	78 65	97 27	105 48	91 54	96 30	90 49	98 24	89 1.26 80	118 -0.64 69	103 14 27	104 12.8 75	78 -4.1 65	82 18 56	96 16.3 68	97 61 34	92 -35 24	92 7.1 35	101 -3.3 60	115 -5.0 35	96 22.6 62	99 -1 35	99 11 34	92 -0.39 25	119 1.35 23	99 0.12 23
P 200019 90723065 UGOGO	6	P 160033 P 170005		97 64	96 54	81 43	99 15	90 32	76 38			95 14	85 1.60 74	119 -0.69 48	101 12 15	96 8.6 54	81 -2.9 43	79 10 37	85 8.0 48	98 63 16	93 -38 13	92 6.9 17	95 1.4 37	88 0.9 19	99 24.4 55	105 2 17	100 12 17	93 -0.24 14	104 0.14 13	96 -0.10 13
P 200020 90723008 NATALIE	1	F 160001 P 160026		104 73	96 70	73 60	107 25	108 44	88 50	85 24	85 45	91 10	97 0.36 78	111 -0.32 64	93 5 25	96 8.3 70	73 -5.7 60	73 -5 52	90 11.8 61	96 57 35	97 -45 10	85 3.4 39	104 -5.1 53	112 -4.2 31	104 26.6 54	100 -1 26	95 8 25	89 -0.67 10	107 0.35 9	94 -0.18 9
P 200029 91225300 FIGLIA	1	F 160001 P 150029		110 74	112 72	67 61	100 26	92 46	90 52	94 26	89 47	103 14	103 -0.23 78	111 -0.33 66	101 12 26	112 16.8 72	67 -7.9 61	79 12 53	102 21.1 65	105 91 37	102 -53 12	89 5.2 41	80 13.1 55	107 -3.2 33	105 27.2 55	103 1 29	105 17 28	101 0.63 15	111 0.71 14	95 -0.16 14
P 200031 91225326 MRYNA	1	F 160001 P 160053		99 74	103 72	76 62	114 28	99 46	94 52	87 24	91 46	91 12	101 0.00 78	96 0.35 66	88 0 28	103 12.3 72	76 -4.9 62	84 23 54	103 22.3 64	96 57 36	95 -41 9	87 4.3 40	98 -0.8 56	102 -2.2 33	100 24.9 55	99 -1 27	95 7 26	91 -0.46 12	107 0.37 11	93 -0.27 11
P 200036 91225375 ESTRELITA	3	P 160033 P 140044		97 74	97 73	91 60	100 21	95 41	86 50			95 14	88 1.28 79	114 -0.48 66	98 10 21	97 9.0 73	91 0.2 60	88 35 51	91 12.7 58	98 63 19	92 -36 14	98 10.4 20	93 3.2 56	103 -2.4 32	99 23.9 57	103 1 20	100 12 20	94 -0.13 15	105 0.23 14	98 0.06 14
P 200041 91225417 CIARA	1	F 160001 P 160035		123 73	101 71	60 60	106 25	99 45	87 51	91 25	85 46	97 14	113 -1.18 78	119 -0.71 65	95 6 25	101 11.1 71	60 -10.2 60	65 -26 52	93 14.2 56	102 77 36	99 -48 10	85 3.3 40	88 6.6 55	112 -4.2 32	105 27.1 54	99 -1 28	99 11 27	97 0.12 14	111 0.69 13	93 -0.25 13
P 200042 91225425 ROSALIE	1	F 160001 P 160087		105 71	99 69	57 59	118 26	87 44	76 50	89 26	76 45	92 14	93 0.77 77	119 -0.70 61	87 -1 26	99 10.1 69	57 -11.1 59	62 -33 51	89 11.3 54	97 61 37	95 -41 12	82 1.4 41	89 6.0 53	85 1.6 28	103 26.3 54	97 -3 28	94 7 28	94 -0.15 15	106 0.26 14	92 -0.31 14

Breeding Values and Accuracies: Cows

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Animal				Selection Values								Birth		Wean				Growth			Fertility				Frame		Carcass		
Index EBV Acc	% Inbreeding	Sire ID Dam ID	Calv. Ease V	Calf Growth V	Milk V	Maint. V	Fertility V	Cow Value	Growth Value	Prod. Value	Carcass Value	Birth wt dir	Birth mat	Mature wt	Wean wt	Wean mat	Cow-Calf Ratio (Wean)	Postwean wt	ADG	FCR	Scrotal Circ.	Heifer Fertility	Cow Fertility	Longevity	Height	Length	EMA	Fat	Marbling
ID Number Name																													
P 200047 91225466 CHEREE	7	P 160033 P 150039	104 69	95 71	86 48	98 17	114 38	93 46			96 14	95 0.56 76	114 -0.48 56	102 13 17	95 7.9 71	86 -1.4 48	82 17 45	89 11.3 58	101 75 17	95 -42 14	92 7.2 18	117 -15.3 55	115 -4.9 23	96 22.7 55	110 6 18	102 14 18	89 -0.65 14	114 0.92 13	92 -0.32 13
P 200048 91225474 LOVIE	2	P 120016 P 110022	104 71	106 73	77 57	102 29	122 47	106 52	101 27	104 47	101 26	89 1.22 77	125 -0.97 62	98 9 29	106 13.9 73	77 -4.4 57	85 26 53	100 19.7 60	104 86 34	97 -44 19	89 5.2 35	119 -17.1 60	129 -7.9 32	95 22.0 61	110 6 35	105 17 35	98 0.23 27	111 0.70 25	99 0.12 25
P 210048 97550420 SANRI		P 170038 P 180038	90 60	94 43	101 28	98 12	98 24	87 30			95 11	93 0.83 72	94 0.47 39	100 11 12	94 7.5 43	101 3.6 28	95 51 28	89 11.3 36	94 48 14	86 -25 9	91 6.6 15	103 -4.7 27	91 0.3 12	104 26.6 42	106 3 14	102 14 14	99 0.38 11	95 -0.63 11	90 -0.42 11
BF 220132 94117892 22 0132	2	BF 180222 BF 140025	97 72	108 74	92 59	97 29	95 46	96 52	104 36	96 49	99 48	91 0.97 78	109 -0.23 62	102 13 29	108 14.7 74	92 0.7 59	99 61 54	105 23.8 61	105 90 52	103 -54 18	102 12.5 55	87 7.7 49	100 -1.7 28	109 29.2 52	85 -10 56	103 15 55	90 -0.53 49	90 -0.99 46	105 0.47 45
BF 220210 94142676 22 0210	9	BF 180085 BF 140162	97 71	106 74	102 64	79 31	95 43	90 53	109 36	92 50	108 32	92 0.90 77	108 -0.19 60	125 35 31	106 13.5 74	102 4.1 64	97 58 56	104 23.2 56	108 102 44	111 -69 26	114 19.0 48	92 4.0 41	103 -2.3 30	99 24.0 53	100 0 48	102 14 47	108 1.33 32	95 -0.62 31	95 -0.12 30
BF 220216 94815776 22 0216		BF 180085 BF 140368	105 61	91 67	105 47	86 20	88 30	78 43	97 25	80 39	96 20	105 -0.41 71	99 0.24 45	115 25 20	91 5.8 67	105 5.0 47	91 41 45	89 11.1 36	99 67 32	101 -52 14	99 11.0 36	91 4.8 25	91 0.4 17	96 22.9 42	101 0 37	95 8 36	98 0.30 20	92 -0.88 19	87 -0.60 18
BF 220275 95201943 22 0275	1	BF 180210 BF 200018	105 64	106 54	91 44	88 23	100 35	94 40	97 32	92 38	105 25	99 0.22 74	111 -0.33 47	113 24 23	106 13.5 54	91 0.2 44	91 42 40	96 17.1 44	99 66 39	97 -45 21	109 16.3 44	92 4.0 33	111 -4.1 19	101 25.4 44	105 3 44	113 25 43	103 0.78 26	108 0.48 24	110 0.76 23
BF 230209 94880119 23 0209	4	BH 160021 BF 120084	90 72	98 73	90 58	95 34	95 46	80 52	80 42	77 50	82 52	91 0.98 77	97 0.32 63	104 16 34	98 9.2 73	90 -0.2 58	86 29 55	95 15.5 62	81 -6 54	81 -17 26	112 17.6 57	103 -4.4 47	92 0.2 28	95 22.3 54	75 -17 58	83 -4 57	84 -1.18 54	75 -2.24 51	113 0.91 50
BF 230210 94880127 23 0210	9	BH 160021 BF 160206	91 70	97 72	103 56	91 34	80 46	77 52	92 40	78 50	92 50	97 0.45 75	89 0.68 61	108 19 34	97 9.0 72	103 4.4 56	96 56 54	95 16.1 61	93 43 52	92 -35 24	113 18.2 55	78 14.5 47	88 0.9 30	98 23.7 53	83 -12 55	91 4 54	96 0.03 51	76 -2.16 49	113 0.94 49
BF 230215 97146559 23 0215	5	BF 180222 BF 150082	85 68	110 62	105 55	83 23	75 44	82 46	113 36	86 44	112 44	85 1.62 75	98 0.27 55	118 29 23	110 15.6 62	105 5.1 55	105 78 47	108 25.8 54	117 136 50	114 -74 18	103 13.1 53	65 24.0 46	84 1.7 25	110 29.6 50	93 -5 54	109 21 53	112 1.69 45	98 -0.39 43	106 0.53 42
BF 230219 95609277 23 0219	1	BF 180142 BF 190030	87 66	97 69	106 45	100 17	81 36	83 44	90 28	82 41	89 36	79 2.26 75	113 -0.45 52	97 9 17	97 9.1 69	106 5.3 45	103 72 44	93 14.2 53	95 49 38	103 -55 15	90 6.0 42	84 9.6 45	78 3.2 17	103 26.2 41	96 -3 43	82 -5 41	98 0.23 38	87 -1.26 35	97 0.01 34
BF 230221 97146567 23 0221	2	BF 180222 BF 180248	83 69	112 72	100 53	85 20	90 43	91 48	110 32	93 45	112 41	83 1.86 76	98 0.29 57	116 27 20	112 16.9 72	100 3.4 53	104 74 48	108 26.6 58	113 121 46	111 -68 14	103 12.8 50	81 12.3 55	93 -0.2 20	114 31.6 48	93 -6 50	110 21 49	104 0.94 42	100 -0.23 40	107 0.57 39

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Animal				Selection Values									Birth		Wean				Growth			Fertility				Frame		Carcass		
Index EBV Acc	% Inbreeding	Sire ID Dam ID	ID Number Name	Calv. Ease V	Calf Growth V	Milk V	Maint. V	Fertility V	Cow Value	Growth Value	Prod. Value	Carcass Value	Birth wt dir	Birth mat	Mature wt	Wean wt	Wean mat	Cow-Calf Ratio (Wean)	Postwean wt	ADG	FCR	Scrotal Circ.	Heifer Fertility	Cow Fertility	Longevity	Height	Length	EMA	Fat	Marbling
BF 230226 95832523 23 0226	9	BH 160021 BF 110034		82 70	99 74	96 59	95 38	70 50	68 54	94 42	70 52	89 53	83 1.87 76	96 0.36 60	104 15 38	99 9.8 74	96 2.1 59	93 47 57	97 17.3 62	94 45 54	92 -36 28	117 20.5 57	69 21.1 57	83 2.0 33	93 21.2 55	83 -12 57	89 2 56	93 -0.26 54	73 -2.46 52	113 0.91 52
BF 230228 95828836 23 0228	7	BF 180142 BF 150182		116 66	88 71	105 49	95 23	87 40	83 47	91 34	82 44	88 42	112 -1.18 76	105 -0.08 50	103 14 23	88 4.1 71	105 5.0 49	91 43 48	84 6.9 56	97 58 44	105 -58 19	90 5.9 48	87 7.9 38	92 0.1 26	99 24.2 48	91 -7 49	80 -7 47	107 1.16 43	87 -1.26 40	104 0.39 39
BF 230275 96264064 23 0275	2	BF 180222 BF 150170		96 72	108 74	96 59	88 25	94 44	92 51	103 36	93 48	110 46	94 0.67 78	102 0.08 61	113 23 25	108 14.6 74	96 2.0 59	98 53	104 23.2 55	110 111 51	108 -64 18	101 11.7 55	85 9.4 45	101 -2.0 25	108 28.6 51	85 -11 55	106 18 54	108 1.26 48	111 0.72 45	108 0.63 44
R 240002 97996979 SANRI		P 200031		104 55	91 36	92 31	112 14	90 23	87 29			85 6	106 -0.56 68	95 0.42 34	88 0 14	91 5.8 36	92 0.6 31	88 33 27	90 11.7 32	87 22 18	83 -20 5	85 3.4 20	101 -3.2 28	92 0.1 16	86 17.5 28	99 -1 14	92 4 13	92 -0.40 6	94 -0.69 6	89 -0.50 5
R 240005 97997001 KARIN		HN 180340 P 200036		99 64	90 58	109 45	98 24	98 37	91 42	83 24	87 38	90 8	99 0.16 74	99 0.24 48	99 10 24	90 5.2 58	109 6.5 45	99 62 42	89 11.3 48	98 61 37	95 -41 7	96 9.0 42	99 -1.7 46	99 -1.4 18	100 24.8 43	110 6 42	99 12 40	97 0.19 8	93 -0.77 7	91 -0.34 7
R 240006 97997076 ELMA	2	BJ 200082 P 200047		108 62	93 54	95 40	94 22	107 36	91 39	98 26	91 36	100 12	105 -0.40 73	104 -0.03 43	105 16 22	93 6.8 54	95 1.7 40	87 31 39	93 14.0 46	103 83 40	96 -43 11	106 14.5 43	105 -6.1 39	107 -3.1 21	105 27.1 42	110 6 21	108 20 21	98 0.31 13	106 0.32 12	97 -0.04 11
R 240007 97997019 KOEBAAI	2	BJ 200117 P 200041		117 62	103 52	55 42	106 24	89 35	78 39	90 25	77 36	98 12	104 -0.33 72	122 -0.85 44	95 7 24	103 12.2 52	55 -11.9 42	62 -33 39	94 14.7 42	99 68 38	98 -46 8	90 5.9 42	83 10.5 38	102 -2.1 21	98 23.5 40	100 0 22	101 13 22	97 0.18 13	110 0.62 11	95 -0.16 11
R 250010 99668436 TERSIA	1	BF 200360 P 200014		101 63	103 52	92 43	100 19	94 35	93 39	100 28	93 37	99 20	96 0.50 73	108 -0.20 45	99 10 19	103 11.9 52	92 0.7 43	95 51 38	98 18.2 44	101 74 36	96 -43 17	107 15.0 40	89 6.0 37	102 -2.1 22	103 25.9 41	99 -1 41	99 11 39	94 -0.11 20	105 0.21 19	107 0.56 19
R 250013 6020190473 SONNEBLOM	1	BF 200360 P 200041		101 62	107 50	82 41	105 19	91 34	93 38	98 27	92 36	99 18	93 0.78 73	113 -0.41 43	94 6 19	107 14.3 50	82 -2.9 41	91 40 37	101 20.5 39	103 82 36	100 -49 13	103 13.1 42	83 11.0 35	100 -1.7 20	107 28.2 38	99 -1 40	99 11 38	97 0.15 18	101 -0.12 17	104 0.37 16
R 260016 6020491624 MIANE	2	BF 200360 P 200036		96 62	101 51	98 41	102 17	90 33	91 37	100 26	91 35	98 18	91 1.01 73	108 -0.18 43	96 8 17	101 11.1 51	98 2.7 41	100 64 36	97 17.5 40	101 75 33	97 -44 14	110 16.7 38	85 9.3 35	96 -0.8 20	104 26.6 39	100 0 39	100 12 37	96 0.03 18	98 -0.35 17	106 0.53 17
R 260018 6020491640 SHANTE	1	BF 200360 P 200042		95 61	104 50	81 40	109 19	85 33	86 37	96 27	86 35	96 18	88 1.31 72	111 -0.35 42	91 3 19	104 12.8 50	81 -3.2 40	88 35 36	98 18.1 38	101 74 37	98 -46 13	102 12.2 42	83 10.7 33	87 1.2 19	106 27.8 38	97 -2 40	97 9 38	96 0.01 18	98 -0.33 17	103 0.35 17

Selection List on Cow Value

Bulls 2 years and older

ID	Name	Sire ID	Dam ID	% Inbreeding	Horned / Polled	Myostatin	Calving Ease Value	Calf Growth Value	Milk Value	Maint. Value	Fertility Value	Cow Value	Growth Value	Prod Value	
Sorted on ID						nt821 Q204X F94L Genomic tested	Acc	Acc	Acc	Acc	Acc	Acc	Acc	Acc	
											★★★★				
1	BF 200360	BF200360	BF 160026	BF 100025	3.2		9173	10771	10554	10328	8448	9851	10448	9850	
2	R 240004	TIAAN	HN 200013	P 200029	1.6		10466	11360	8648	9624	9238	9844	10228	9841	
3	R 240009	PIETMAN	NB 190034	P 200048	0.0		10552	9336	9229	10614	10224	9228			
4	R 240010	BOBAAS		P 200010	0.0		11153	8636	8927	12015	9722	9028			
											★★★				
1	R 240001	PIETERS		P 200014	0.0		10056	9337	9233	10313	9324	8429			
2	R 240003	BERTUS		P 200020	0.0		10555	8835	9130	10913	9522	8328			
											★★★				
1	BF 220212	22 0212	BF 180085	BF 160078	6.3		10266	10361	10652	7625	7438	7845	10932	8242	

Selection List on Cow Value

Cows 2 years and older

ID	Name	Sire ID	Dam ID	% Inbreeding	Myostatin	Calving Ease Value	Calf Growth Value	Milk Value	Maint. Value	Fertility Value	Cow Value	Growth Value	Prod Value	
Sorted on ID					nt821 Q204X F94L Genomic tested	Acc	Acc	Acc	Acc	Acc	Acc	Acc	Acc	
										★★★★				
1	P 200048	LOVIE	P 120016	P 110022	2.1		104 71	106 73	77 57	102 29	122 47	106 52	101 27	104 47
										★★★★☆				
1	BF 220132	22 0132	BF 180222	BF 140025	2.3		97 72	108 74	92 59	97 29	95 46	96 52	104 36	96 49
2	BF 220210	22 0210	BF 180085	BF 140162	9.0		97 71	106 74	102 64	79 31	95 43	90 53	109 36	92 50
3	BF 220275	22 0275	BF 180210	BF 200018	0.8		105 64	106 54	91 44	88 23	100 35	94 40	97 32	92 38
4	BF 230221	23 0221	BF 180222	BF 180248	2.1		83 69	112 72	100 53	85 20	90 43	91 48	110 32	93 45
5	BF 230275	23 0275	BF 180222	BF 150170	1.8		96 72	108 74	96 59	88 25	94 44	92 51	103 36	93 48
6	P 200010	LINDI	F 160001	P 110023	0.8		118 74	90 71	71 54	126 30	113 45	99 51	81 28	93 46
7	P 200011	PETRO	F 160001	P 160045	1.1		113 65	90 70	74 50	117 27	106 40	90 47	87 26	87 43
8	P 200014	GLYNETTE	P 120016	P 070029	1.9		99 76	104 75	78 65	97 27	105 48	91 54	96 30	90 49
9	P 200029	FIGLIA	F 160001	P 150029	0.9		110 74	112 72	67 61	100 26	92 46	90 52	94 26	89 47
10	P 200031	MRYNA	F 160001	P 160053	1.1		99 74	103 72	76 62	114 28	99 46	94 52	87 24	91 46
11	P 200047	CHEREE	P 160033	P 150039	6.6		104 69	95 71	86 48	98 17	114 38	93 46		
12	R 240005	KARIN	HN 180340	P 200036	0.0		99 64	90 58	109 45	98 24	98 37	91 42	83 24	87 38
13	R 240006	ELMA	BJ 200082	P 200047	1.7		108 62	93 54	95 40	94 22	107 36	91 39	98 26	91 36
										★★				
1	BF 230209	23 0209	BH 160021	BF 120084	3.9		90 72	98 73	90 58	95 34	95 46	80 52	80 42	77 50
2	BF 230215	23 0215	BF 180222	BF 150082	5.4		85 68	110 62	105 55	83 23	75 44	82 46	113 36	86 44
3	BF 230219	23 0219	BF 180142	BF 190030	1.2		87 66	97 69	106 45	100 17	81 36	83 44	90 28	82 41
4	BF 230228	23 0228	BF 180142	BF 150182	7.1		116 66	88 71	105 49	95 23	87 40	83 47	91 34	82 44
5	P 200013	NKOMAZI	P 120016	P 150005	2.4		101 72	102 73	72 62	101 22	106 44	88 51	93 22	87 45
6	P 200020	NATALIE	F 160001	P 160026	1.0		104 73	96 70	73 60	107 25	108 44	88 50	85 24	85 45
7	P 200036	ESTRELITA	P 160033	P 140044	3.5		97 74	97 73	91 60	100 21	95 41	86 50		
8	P 200041	CIARA	F 160001	P 160035	1.1		123 73	101 71	60 60	106 25	99 45	87 51	91 25	85 46
9	P 210048	SANRI	P 170038	P 180038	0.0		90 60	94 43	101 28	98 12	98 24	87 30		
10	R 240002	SANRI		P 200031	0.0		104 55	91 36	92 31	112 14	90 23	87 29		

Selection List on Cow Value

Cows 2 years and older

ID		Name	Sire ID	Dam ID	% Inbreeding	Horned / Polled	Myostatin				Calving Ease Value	Calf Growth Value	Milk Value	Maint. Value	Fertility Value	Cow Value	Growth Value	Prod Value									
Sorted on ID							nt821	Q204X	F94L	Genomic tested	Acc	Acc	Acc	Acc	Acc	Acc	Acc	Acc									
										★★★																	
1	BF	220216	22 0216	BF 180085	BF 140368	0.0					105	61	91	67	105	47	86	20	88	30	78	43	97	25	80	39	
2	BF	230210	23 0210	BH 160021	BF 160206	8.9					91	70	97	72	103	56	91	34	80	46	77	52	92	40	78	50	
3	P	200019	UGOGO	P 160033	P 170005	6.3					97	64	96	54	81	43	99	15	90	32	76	38					
4	P	200042	ROSALIE	F 160001	P 160087	1.1					105	71	99	69	57	59	118	26	87	44	76	50	89	26	76	45	
5	R	240007	KOEBAAI	BJ 200117	P 200041	1.8					117	62	103	52	55	42	106	24	89	35	78	39	90	25	77	36	
										★																	
1	BF	230226	23 0226	BH 160021	BF 110034	9.0					82	70	99	74	96	59	95	38	70	50	68	54	94	42	70	52	

Selection List on Cow Value

Bull Calves younger than 2 years

ID		Name	Sire ID	Dam ID	% Inbreeding	Horned / Polled	Myostatin				Calving Ease Value	Calf Growth Value	Milk Value	Maint. Value	Fertility Value	Cow Value	Growth Value	Prod Value									
Sorted on ID							nt821	Q204X	F94L	Genomic tested	Acc	Acc	Acc	Acc	Acc	Acc	Acc	Acc									
											★★★★☆																
1	R	250005	FOURIE	BF 200360	P 200020	0.9					98	61	101	50	89	41	105	19	96	33	93	37	95	27	91	35	
2	R	250014	DRIES	BF 200360	BF 220132	6.9					93	62	108	51	99	40	100	20	89	34	97	38	104	30	97	36	
3	R	260017	LINDO	BF 200360	P 200010	1.2					102	62	100	50	88	38	116	21	98	33	99	37	93	28	96	35	
4	R	260019	CHRISTO	BF 200360	P 200031	1.9					98	61	104	51	91	41	108	20	91	34	95	38	96	27	94	36	
5	R	260024	CHAMPION	BF 200360	P 200029	1.2					99	62	110	51	86	41	102	19	88	34	94	38	99	27	93	36	
											★★★☆☆																
1	R	250001	DAWID		P 200042	0.0					104	35	90	35	82	30	115	13	84	22	78	25					

Selection List on Cow Value

Heifers younger than 2 years

ID Sorted on ID		Name	Sire ID	Dam ID	% Inbreeding	Horned / Polled	Myostatin				Calving Ease Value Acc	Calf Growth Value Acc	Milk Value Acc	Maint. Value Acc	Fertility Value Acc	Cow Value Acc	Growth Value Acc	Prod Value Acc	
							nt821	Q204X	F94L	Genomic tested									
											★★★★☆								
1	R	250010	TERSIA	BF 200360	P 200014	0.7					10163	10352	9243	10019	9435	9339	10028	9337	
2	R	250013	SONNEBLOM	BF 200360	P 200041	1.1					10162	10750	8241	10519	9134	9338	9827	9236	
3	R	260016	MIANE	BF 200360	P 200036	1.8					9662	10151	9841	10217	9033	9137	10026	9135	
											★★★								
1	R	260018	SHANTE	BF 200360	P 200042	1.2					9561	10450	8140	10919	8533	8637	9627	8635	

	EBVi	Description / Measurement	Goal	Low Value	High Value
Selection Values	Calving Ease Value	Difficult calving due to high birth weight	Average birth weight	High	Low
	Calf Growth Value	Calf's genetic ability for prewean growth	Heavy weaner	Light	Heavy
	Milk Value	Cow's genetic mothering and milking ability	Enough milk for calf	Less	More
	Maintenance Value	Maintenance requirement of cow (weight and milk)	Low cow maintenance	High	Low
	Fertility Value	Fertility and retention of cows and heifers	Fertile cows	Low	High
	Cow Value	Combination of calving ease, calf growth, milk, maintenance and fertility values (Rand-value per Ha)	Profitable cows	Loss	Profit
	Weaner Calf Value	Heavier weaners and more milk, with lower birth and cow weights	Heavy weaner	Light	Heavy
	Growth Value	Efficient growth on veld and in feedlot (Rand-value per animal)	Profitable growth	Loss	Profit
	Production Value	Combination of Cow- and Growth Values (Rand-value)	Profitable animals	Loss	Profit
	Carcass Value	Meat on carcass (Weight and RTU EBVs)	Meat on carcass	Less	More
Birth	Cow weight - birth	Cow weight at birth of calves	Mature cow weight	Light	Heavy
	Birth weight direct	Birth weight (Calf's genetic ability)	Average birth weight	Heavy	Light
	Cow-Calf birth	EBV Birth dir / EBV Mature cow weight	Average	Low	High
Wean	Cow Weight wean	Cow weight at weaning of calves	Mature cow weight	Light	Heavy
	Weaning weight direct	Weaning weight (Calf's genetic ability)	Heavy weaners	Light	Heavy
	Weaning weight mat	Weaning weight (Dam's genetic ability)	Good mothers	Poor	Good
	Cow-Calf Wean	EBV Wean dir / EBV Mature cow weight	High cow-calf ratio	Low	High
Growth & Adaptation	Post-Wean weight	12- and 18mnth weights	Post-wean growth	Low	High
	Ave. Daily Gain	Average daily gain in growth test (Phase C and D)	Good growth	Poor	Good
	Veld Growth	ADG on veld (Phase B)	Good adaptation	Poor	Good
	Feed Conversion Ratio	100g feed intake /g weight gain	Feed Efficiency	Poor	Good
	Final Test Weight	Final weight in growth test (Phase C and D)	Heavy Carcasses	Light	Heavy
	Skin Thickness	Measured in growth tests	Thicker skin	Thin	Thick
Fertility	Scrotal Circumference	Scrotal circumference in growth test	Fertile bulls	Less	More
	Heifer Fertility	Age at first calving	Fertile heifers	Less	More
	Cow Fertility	First 3 inter-calving periods (ICPs)	Fertile cows	Less	More
	Longevity	Retention of progeny	Acceptable progeny	Poor	Good
Frame	Height	Shoulder / Hip height in growth test	Average height	Short	Tall
	Length	Length in growth test	Longer (more meat)	Short	Long
	Length:Height	EBV Length / EBV Height	Longer, not higher	Less desirable	More desirable
Carcass	Eye Muscle Area	RTU Eye muscle area	Muscle in carcass	Small	Big
	Fat	RTU P8 Backfat Thickness	Carcass quality & adaptability	Thin	Thick
	Marbling	RTU % Marbling	Juicy meat	Low	High
	Dressing%	Carcass weight / Live weight	High dressing %	Low	High

Notes on the interpretation of EBVs, EBVi's, sub-values and selection values

EBVi (EBVindex) is the breeding value index and is easier to interpret than the breeding value, especially for commercial farmers buying from stud farmers. The base of a breeding value index is 100, which is the average of all the live animals in the breed, and all values are expressed relative to this value. Values above 100 are always in a more desirable direction: an index of 105 for AFC indicates a genetic potential to calve earlier. Note that a very high index is not always desirable. For certain traits, such as birth weight, average values can be better.

EBV: (Estimated Breeding Value) indicates the genetic potential of the animal for a specific trait. It is presented in the unit of measurement and relative to the average of animals born in the base year (1990 for most breeds and traits). Higher values for certain traits are better while lower values for other traits are better, for example, an EBV of -2 for AFC (age at first calving) indicates that the animal has the genetic potential to calve 2 days earlier than the average heifer in 1990 (the base year). Earlier calving is better and therefore low breeding values (high breeding value indices) are better. For weaning weight, higher values are better.

Sub-values combine similar breeding values in a scientific manner to simplify the selection of animals. For example, AFC (age at first calving) and ICP (inter-calving period) are combined to form the sub-value Fertility by taking the heritability and economic importance in consideration. The sub-value is expressed in an index format, thus an animal with a sub-value of 110 for Fertility will genetically be above average compared to the live animals in the breed.

Selection Values (Cow Value and Growth Value) combine the sub-values into a single value. This gives a quick and easy indication of the combined genetic value of an animal compared to the breed. It is advised to still look at the sub-values to see where the strengths and weaknesses lie.

How to use breeding values to select animals

Selecting animals on breeding values is easy if you know how. There is a common saying that “good nutrition can mask poor breeding”. This is very true. If an animal that is genetically inferior is fed well, it can appear as a great animal. This great performance will not be passed over to future generations. An animal that is genetically superior can appear to be inferior if its environment did not allow it to reach its true potential. It is best to select animals that are most adapted to the environment and can reach their full potential. To continuously adapt the environment to the animal can be expensive.

The reason why the use of breeding values is such a valuable tool is because it “removes” the environmental effect that contributes to the performance.

Scientific methods are used to determine how much of the performance is due to genetics and to identify genetically superior animals. This involves the measurement of animals under controlled environments, complete record keeping and pedigree information. *If performance recording and pedigree information are not done correctly, breeding values of these animals will not be useful.* Keep in mind that breeding is a long-term option: the effect of a bull selected/bought today will only show much later. If it is a good decision, his daughters will become part of the breeding herd and contribute to overall profitability in future.

Even if a bull is not perfect in all aspects, knowing the shortcomings will allow strategic selection with suitable cows. Traits are genetically correlated, meaning that a change in one trait can lead to a change in another. This change can be favourable or unfavourable. An increase in weaning weight can lead to an increase in birth weight, which can lead to calving difficulty. It is therefore advisable to not only select on a single trait. Take other traits in consideration to avoid negative effects.

How to improve the herd genetically

The first and most important aspect is to know what type of animal will improve the herd genetically. This can be determined through the following factors:

What happens to the calves? For example: used as replacement heifers, sold as stud animals or sold to commercial breeders who sell weaner calves.

How much feed is available? The availability of feed (or the hardness of the environment) determines the optimal frame size. If feed is abundant and the environment is less harsh, larger animals would be ideal. If not, medium framed animals would be ideal.

What is the genetics of the cow herd? Are they the wrong frame type, grow too slowly, do not have enough milk, etc.? Always aim to breed a calf that is superior to its dam.

Conclusion

Different types of bulls are suitable for different types of cows, environments and breeding objectives. Inbreeding should be avoided or limited as much as possible. Mating programs are available to aid in the pairing of bulls and cows.

The data used for this evaluation is pedigree information and performance data found on LOGIX as provided by breeders. All attempts are made to present accurate information. SA Stud Book takes no responsibility for the use and interpretation of information presented in this report.

