

BEEFMASTER

GENOMIC BREEDING VALUE REPORT

September 2026



CHARTONEL FARM

Herd Number: 728089

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BEEFMASTER
CATTLE BREEDERS' SOCIETY OF SA
BEESTELERSGENOOTSAP VAN SA



EBVs, EBVi's and GEBVs

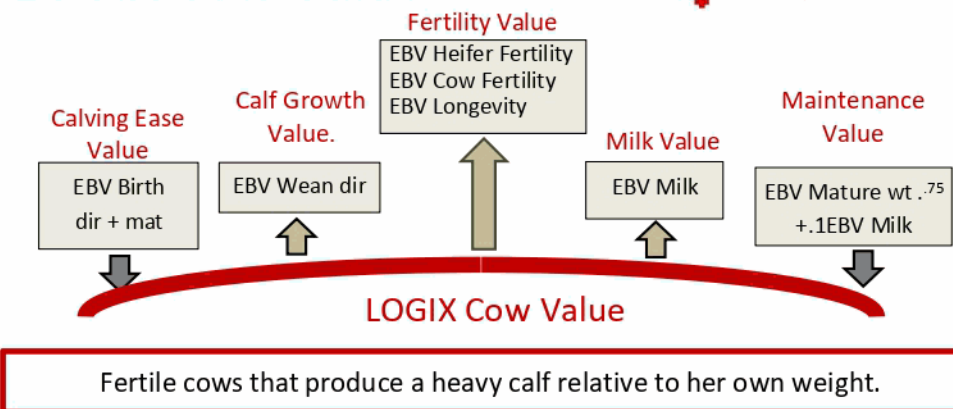
EBVi (Breeding Value Index): Genetic potential relative to the average (100) of the live (active) animals in the breed. Roughly 50% of the animals have values between 90 and 110. Values above 100, depending on the trait, tend to be in the more favourable direction.

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 Production Value



80% LOGIX Cow Value +
20% LOGIX Growth Value

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.

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)

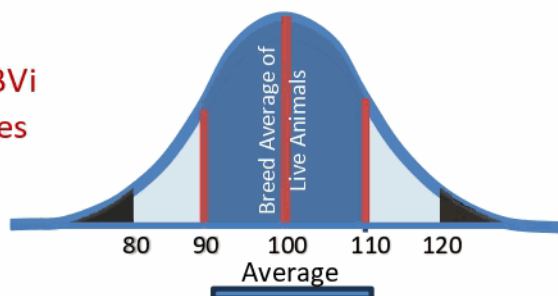
- WeanerCalf / Growth Value > 120
 - Cow Value and Fertility Value average to high
- Growers are usually heavier at birth (lower Calving Ease Value), and maturity (lower Maintenance Value).

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

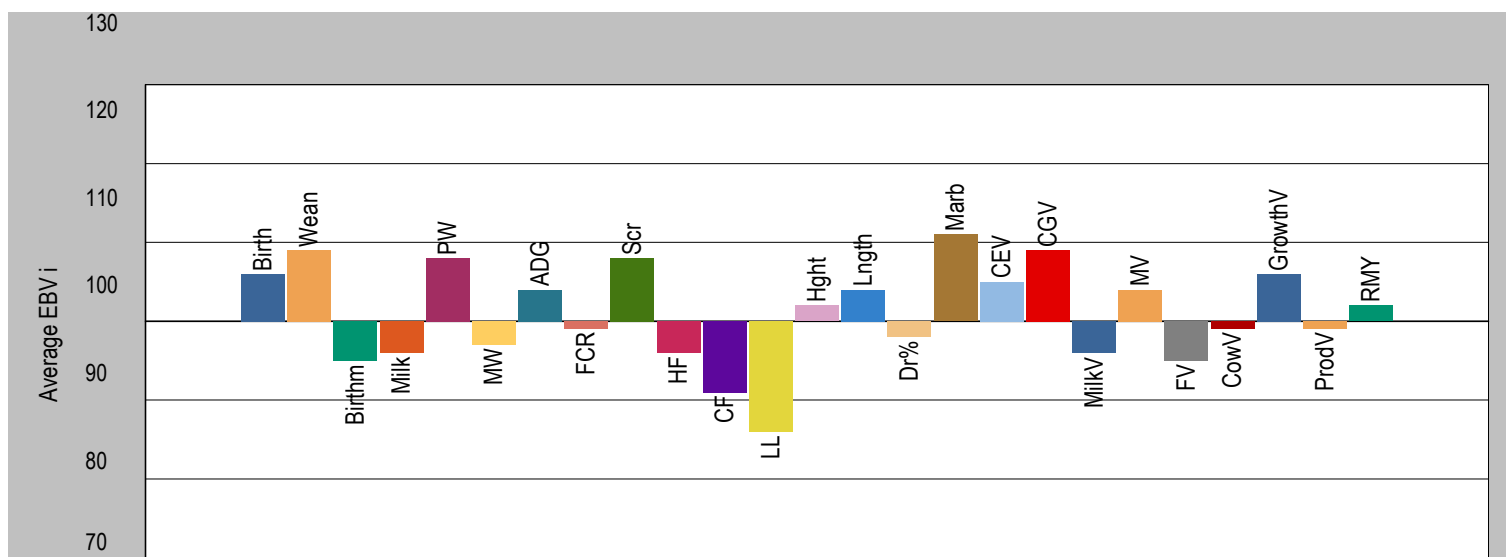
Larger groups result in more accurate and stable breeding values, as the mean and distribution of the group can be more accurately determined and are thus more representative. Groups should preferably have more than 5 animals. Weigh all the animals in the same group on the same day, as corrections for 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	EMA:	Eye Muscle Area
FCR:	Feed Conversion	RMY:	Carcass Value
	Ratio	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
Prewrite Growth	Birth Weight	-0.15	106	0.34
	Wean Weight	17.3	109	12.1
	Birth Mat.	0.16	95	-0.05
	Milk (Wn.Mat.)	-2.6	96	-1.4
Postwean Growth	Postwean Wt	25.5	108	19.0
	Mature Weight	3	97	7
	ADG	85	104	72
	FCR	-37	99	-39
Fertility	Scrotal Circumf.	15.4	108	11.1
	Heifer Fertility	-3.9	96	-7.5
	Cow Fertility	-2.3	91	-4.1
	Longevity	6.4	86	14.8
Frame	Height	3	102	1
	Length	17	104	13
Carcass	EMA	0.77	99	0.85
	Fat	-0.34	92	0.11
	Marbling	0.90	111	0.30

Selection Value	Ave. Herd
Calving Ease	105
Calf Growth	109
Milk	96
Maintenance	104
Fertility	95
Cow Value	99
Growth Value	106
Production Value	99
Carcass Value	102

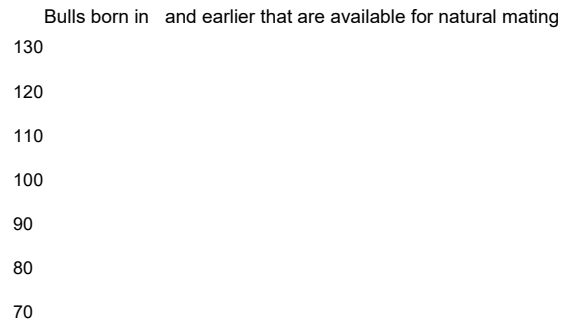
- Average of live animals in the breed: 100
- Above 100: **more favourable**,
- Below 100: **less favourable**

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

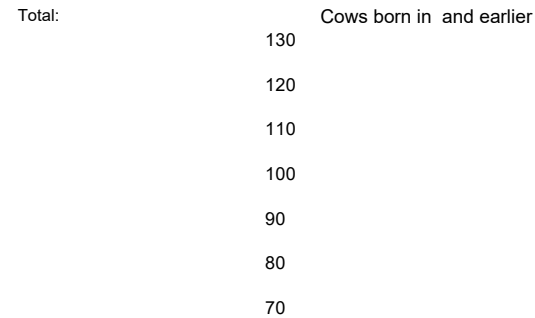
Calving ease:	Smaller calf at birth - easier calving
Calf growth:	Heavier calves at wean due to growth potential of the calf
Milk:	Cows with more milk and better mothering ability
Maintenance:	Animals with low maintenance requirements (lower mature weight).
Fertility:	Cows/daughters that calve

Genetic Windows

Bulls on the farm



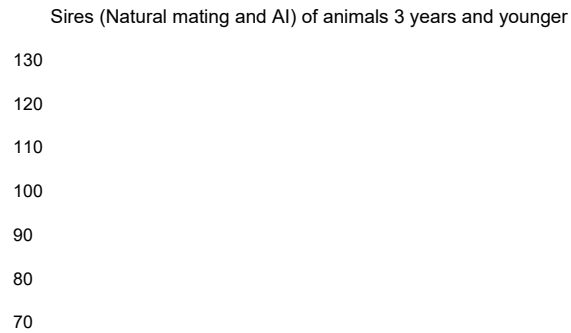
Animals available for breeding



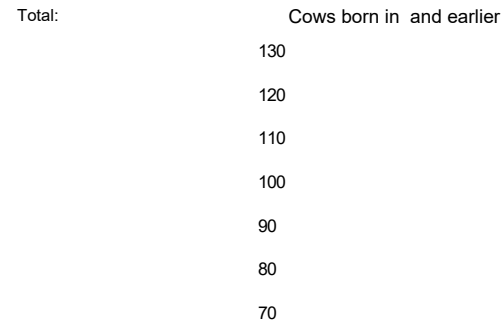
Cow Herd

Total:

Sires of young animals



Results of previous selection decisions

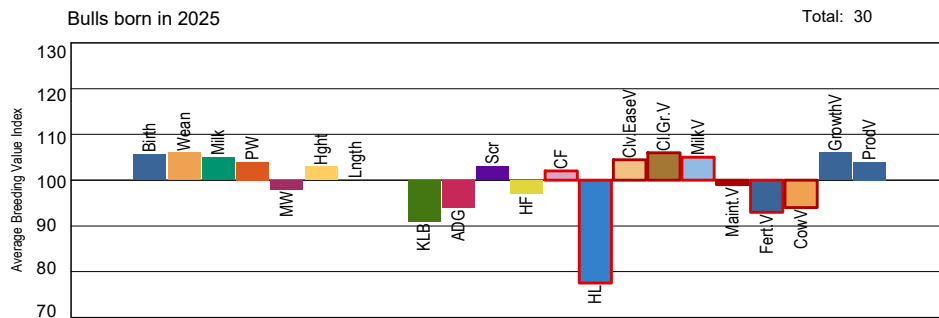


Cows older than 6 years

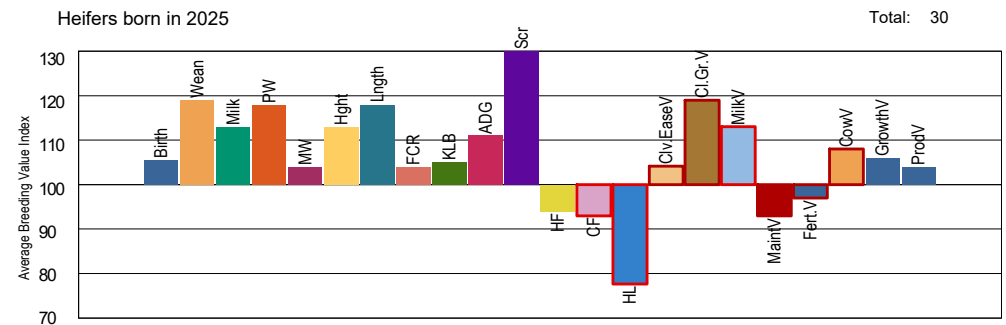
Total:

Selection possibilities

Bull calves



Heifer calves

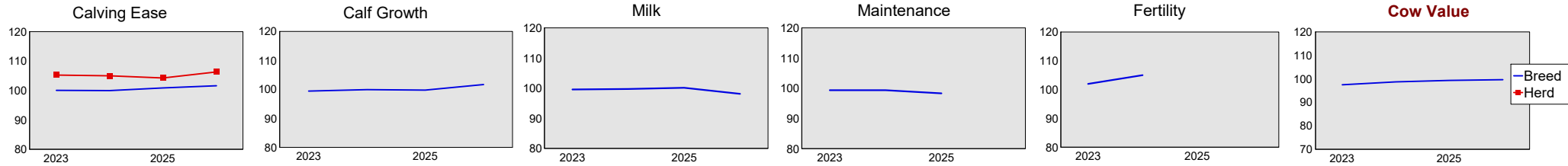


Summary of Cow Herd

			Selection Values (SV)								Calf Weight		Dam		Growth & Efficiency				Fertility				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	99	100	101	100	100	99	100	100	99	99	100	99	99	99	99	99	99	100	100	100	99	99
2017	2		114								113		98									92			
2018	2		110								111		94									97			
2019	9		105								108		88									93			
2020	4		110								111		94									92			
2021	13	★★★★☆	105	112	100	103	96	105	107	105	104	112	100	100	112	98	105	103	106	99	88	98	105	107	
2022	37		107								109		91									91			
2023	45		109								111		93									111			
2024	13	★★★★	104	103	107	98	89	95	107	103	105	103	95	107	102	100	98	96	103	95	88	81	103	102	
2025	30	★★★★☆	104	119	113	93	97	108	106	104	105	119	94	113	118	104	111	105	132	94	93	78	113	118	
2026	8	★★★☆☆	105	95	105	109	81	87	87	85	106	95	95	105	94	92	88	89	89	91	85	80	95	92	
Cows in Herd Average:			107	107	106	101	91	99	102	99	108	107	94	106	107	99	101	98	108	95	89	91	104	105	

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.



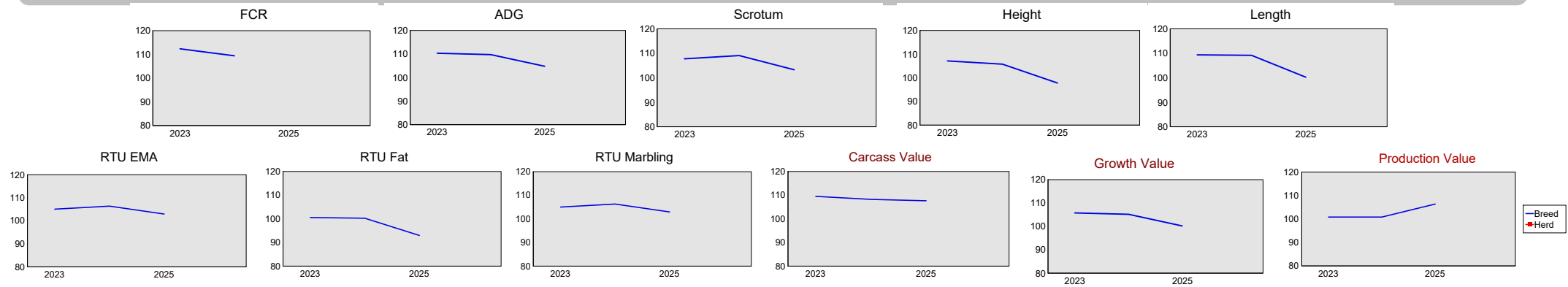
Herd

Birth Year	Calving Ease				Calf Growth			Milk		Maintenance					Fertility						Cow Value
	Birth Weight		Mat EBV	Calv. Ease	Weaning Weight		Calf Growth	Milk (Wn.Mat.)		Postwean Weight	Mature Weight		Maintenance	Heifer Fert.		Cow Fert.		Longevity		Fertility	
	Number	Dir EBV			Number	EBV		Number	EBV		Milk	Number		EBV	Number	EBV	Number	EBV	Number		
2023	8	-0.19	0.18	105																	
2024	24	-0.15	0.09	105																	
2025	57	-0.12	0.18	104																	
2026	19	-0.32	0.14	106																	

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	13219	0.14	0.07	102	12679	9.1	95	12679	-1.48	100	8440	15.3	1794	3	102	3547	-3.4	2382	-3.3	17317	7.0	92	91	
2017	13995	0.13	0.10	101	13543	9.5	95	13543	-1.37	100	9155	16.1	1876	5	102	3705	-3.9	2610	-3.3	17744	7.7	93	92	
2018	14638	0.19	0.05	101	14085	10.0	96	14085	-1.34	100	9471	16.9	2043	6	101	3752	-4.9	2671	-3.5	18478	8.4	96	93	
2019	14156	0.27	0.02	100	13892	10.8	98	13892	-1.52	100	9219	18.0	2528	6	101	4491	-5.8	3152	-3.8	18218	9.0	97	94	
2020	15148	0.25	0.00	101	15376	10.8	98	15376	-1.55	99	10390	17.9	2588	6	100	4524	-5.8	3018	-3.8	19306	9.7	97	94	
2021	16009	0.27	0.04	100	16004	10.8	98	16004	-1.35	100	10852	18.0	2635	6	100	4750	-5.2	2794	-3.8	18490	8.9	97	95	
2022	17601	0.32	-0.01	100	16942	11.8	99	16942	-1.58	99	11576	19.5	2295	8	100	4355	-6.7	1065	-4.2	8636	9.8	100	97	
2023	18573	0.32	-0.02	100	18307	11.8	99	18307	-1.53	100	11750	19.7	741	11	99	2183	-7.2	100	-4.8			102	98	
2024	18117	0.35	-0.05	100	16963	12.1	100	16963	-1.48	100	9904	20.0	3	6	99	166	-7.7					105	99	
2025	17947	0.27	-0.03	101	15468	12.0	100	15468	-1.38	100	2468	22.0			98									99
2026	5644	0.19	0.00	102	192	13.1	102	192	-1.95	98														100

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			
2023																									
2024																									
2025																									
2026																									

Breed

Birth Year	Growth								Frame						Carcass						Selection Values					
	FCR			ADG			Scrotum			Height			Length			RTU		EMA		Fat		Marbling		Cracss Value	Growth Value	Prod Value
	Number	EBV	EBVi	Number	EBV	EBVi	Number	EBV	EBVi	Number	EBV	EBVi	Number	EBV	EBVi	Number	EBV	EBVi	EBV	EBVi	EBV	EBVi				
2017	62	-38	100	1015	76	101	979	12.8	103	953	4	105	953	15	102	101	0.00	91	0.00	98	0.00	95	93	97	91	
2018	16	-50	110	835	94	106	830	14.6	106	830	6	107	830	18	105	33	1.18	103	0.28	103	0.55	104	108	102	93	
2019	13	-43	103	772	95	106	773	14.5	106	767	6	108	766	19	106	32	0.58	97	-0.14	96	0.44	102	100	101	94	
2020	15	-50	110	1035	102	108	1026	15.8	108	960	6	108	960	21	108	60	1.56	107	-0.22	94	0.67	107	109	104	96	
2021	20	-40	101	1162	102	108	1151	15.5	108	1048	5	107	1048	21	108	148	1.41	106	-0.20	95	0.46	103	106	104	97	
2022	20	-45	106	1222	104	109	1266	14.4	106	1115	5	106	1115	21	108	147	1.11	103	-0.08	97	0.28	100	103	104	99	
2023	10	-52	112	1270	110	110	1263	15.5	108	1127	5	107	1127	22	109	250	1.52	107	0.14	101	0.58	105	109	106	101	
2024	11	-49	109	918	108	110	945	16.3	109	790	5	106	790	22	109	127	1.57	107	0.12	100	0.66	106	108	105	101	
2025				54	90	105	58	13.0	103	58	0	98	58	14	100	25	1.70	109	-0.30	93	0.47	103	108	100	106	
2026																										

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	Grwth	Value	Value	Value	Value	Value	Dir	Dir	Mat.	Mat.	wt	weight							Fertility	Fertility	ty							Grwth
BOS 133095				95	114	89	106	72	84	120	85	93	114	129	89	115	94	115	116	85	87	49	103	109	112	98	58	98	138	146		
BOS133095				97	97	95	93	94	87	94	88	97	97	95	95	96	93	95	91	96	94	92	96	96	96	96	94	93	93	37	46	96
HS 180133				97	114	104	113	105	122	101	116	92	114	121	104	113	89	106	100	126	117	88	111	112	116	102	80	111	37	32		
HS180133				85	87	76	64	63	70	48	66	88	87	74	76	77	64	78	13	84	74	42	73	85	83	78	73	72	9	13	17	
HS 210135				78	123	121	81	100	109	110	106	80	123	102	121	121	119	116	110	140	97	100	104	121	125	114	90	110	4			
HS210135				84	84	82	81	81	76	82	77	85	84	82	82	82	81	83	78	86	81	79	82	86	85	83	82	82				
MB 160490				76	127	96	87	120	114	138	116	77	127	103	96	132	113	131	115	133	110	123	114	132	120	91	128	104	85	80		
MB 160490				92	93	83	77	68	76	62	73	94	93	83	83	87	77	88	34	92	79	46	79	92	91	84	80	79	28	23	33	
MS 170084				110	105	99	92	96	99	124	100	112	105	90	99	107	106	128	102	102	94	93	105	93	111	146	89	115	55	47		
MS170084				92	93	88	85	85	81	89	83	93	93	88	88	90	85	89	87	91	86	82	88	91	91	89	87	87	20	14	21	
OKT 130012				112	106	93	84	98	94	98	90	108	106	110	93	108	117	104	98	94	109	96	94	99	106	102	87	100	43	50		
OKT 130012				89	91	85	70	68	75	28	66	91	91	83	85	82	70	43	9	46	72	46	86	47	46	23	21	20		17	61	
RLR 111153				103	118	88	82	90	89	136	93	105	118	92	88	123	121	135	129	134	87	79	110	112	106	134	86	119	66	55		
RLR111153				96	96	94	92	92	86	90	87	96	96	94	94	94	92	92	87	93	92	89	94	93	93	90	89	89	2	13	47	
RLR 140084				103	116	61	96	107	93	111	92	101	116	103	61	120	104	113	104	102	96	108	112	98	102	109	89	102	39	39		
RLR 140084				93	93	90	89	88	83	87	84	94	93	90	90	91	89	89	84	90	88	86	91	90	89	85	85	85	6	10	27	
RLR 150055				99	111	54	129	91	90	110	89	98	111	102	54	110	73	106	90	147	91	82	107	91	96	104	100	134	106	101		
RLR 150055				97	97	95	93	93	87	92	88	97	97	95	95	95	93	94	90	95	94	91	95	95	95	91	91	91	26	40	66	
RLR 160064				70	146	49	76	99	78	136	83	53	146	143	49	148	132	134	111	102	78	94	124	110	136	125	147	153	119	113		
RLR 160064				97	97	95	93	93	87	94	88	97	97	95	95	96	93	95	92	96	93	92	95	96	96	94	94	94	31	27	40	
RLR 170031				83	117	138	107	99	130	80	119	88	117	89	138	112	92	94	111	127	113	69	117	67	90	91	59	111	72	64		
RLR 170031				95	95	92	91	91	85	92	86	96	95	92	92	94	91	93	90	94	91	89	92	94	94	92	91	91	15	14	21	

Growth Tests

Green: >120 High
White: 80-120 Average
Orange: <80 Low

Animal				Weight		Frame				Growth				Carcass			
Test Code Sex	Test no	Sire ID	Cow Value	Wean dir	End-weight	Length	Height	Length/Height	Scrotum	Intake	ADG	FCR	Growth Value	EMA	Fat	Marbling	Carcass Value
Test station	ID	Dam ID															
201901 D21 M	0588010MIX																
MEYER	BOG 180020 87725255	RLR 111153 BOS 077486	92 53	117 68	123 39 72	116 29 72	125 16 75	95 1.12 74	131 28.6 73	72 0.66 16	131 184 65	117 -58 16	140 44	127 3.53 35	95 -0.21 32	114 1.08 32	124 34
	RLR 180020 87507018	RLR 150055 BOS 155022	105 55	103 69	105 22 73	105 18 72	98 0 75	110 1.16 74	117 20.9 74	98 0.16 12	102 81 66	92 -31 12	96 42	101 0.97 33	101 0.14 31	121 1.48 30	100 32
	RLR 180067 87706768	RLR 140084 BOS 088042	96 53	121 68	117 32 72	112 25 71	112 9 74	104 1.14 72	112 17.9 73	91 0.30 21	120 144 64	120 -60 21	114 46	118 2.65 30	96 -0.12 28	107 0.67 27	114 29
201902 D21 M	0588010MIX																
MEYER	RLR 180092 87841110	RLR 150055 RLR 160088	92 54	102 68	99 16 73	98 12 73	95 -2 76	104 1.14 74	89 4.8 74	93 0.26 15	100 74 66	81 -19 15	105 44	96 0.42 36	101 0.19 33	119 1.37 32	97 34
	RLR 180102 88037676	RLR 150055 RLR 160075	95 51	104 66	97 14 73	90 4 72	81 -10 75	108 1.15 74	125 25.2 74	102 0.09 13	97 62 66	86 -24 13	99 43	93 0.16 33	96 -0.11 31	110 0.87 31	92 32
202101 D21 M	0588010MIX																
MEYER	BOG 200050 91232728	MB 160490 BOS 177033	115 53	121 68	118 34 74	119 31 73	121 13 76	105 1.14 74	128 27.2 75	81 0.48 19	115 127 67	97 -36 19	123 46	89 -0.18 67	96 -0.11 61	102 0.40 60	114 64
202201 D11 M	0010224BMA																
STEENKAMP	HS 210117 92519677	 HS 180133 HS 170120	112 77	115 86	115 31 87	115 28 87	109 7 87	114 1.17 87	134 30.5 87	94 0.24 80	109 104 85	101 -40 80	106 84	102 1.01 85	100 0.08 84	115 1.16 84	107 84
202201 D21 M	0588010MIX																
MEYER	BOG 210049 92606284	RLR 160064 RLR 150086	94 53	138 68	120 36 74	117 30 73	103 3 76	125 1.19 74	87 3.6 75	80 0.51 23	116 131 67	98 -37 23	125 48	106 1.40 67	148 2.90 62	139 2.54 61	125 64
	RLR 210081 92657170	 RLR 170031 BOS 111198	111 79	112 88	87 5 88	82 -4 88	73 -14 89	106 1.15 88	110 16.8 89	129 -0.41 83	75 -19 87	72 -8 83	74 86	72 -1.94 87	85 -0.75 86	140 2.54 85	81 86

Breeding Values and Accuracies: Bulls

Green: >120 High
White: 80-120 Average
Orange: <80 Low

Inbreeding in red is high

Value <80 Value >120

Breeding values with an accuracy < 5% are not printed

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																														
BOG 180020		RLR 111153		82	117	99	86	96	92	140	97	124	89	83	113	117	99	109	122	131	117	131	88	94	108	125	116	127	95	114
87725255		BOS 077486		65	68	61	45	48	53	44	51	34	1.23	0.62	23	21.8	-1.6	64	36.3	184	-58	28.6	2.0	-2.9	19.8	16	29	3.53	-0.21	1.08
BOG 180020													67	57	45	68	61	58	58	65	16	73	50	35	58	75	72	35	32	32
RLR 180020	3	RLR 150055		114	103	77	118	101	105	96	100	100	112	101	86	103	77	88	102	102	92	117	99	92	112	98	105	101	101	121
87507018		BOS 155022		70	69	60	47	50	55	42	52	32	-0.66	-0.09	-9	14.1	-7.9	14	20.3	81	-31	20.9	-6.8	-2.4	22.5	0	18	0.97	0.14	1.48
RLR 180020													73	60	47	69	60	59	58	66	12	74	54	37	60	75	72	33	31	30
RLR 180067	8	RLR 140084		93	121	84	91	96	96	114	95	114	88	116	108	121	84	104	123	120	120	112	80	102	106	112	112	118	96	107
87706768		BOS 088042		66	68	57	48	44	53	46	52	29	1.31	-0.69	17	24.4	-5.8	52	37.2	144	-60	17.9	7.9	-4.6	18.7	9	25	2.65	-0.12	0.67
RLR 180067													68	57	48	68	57	58	56	64	21	73	45	32	56	74	71	30	28	27
RLR 180092	2	RLR 150055		98	102	73	121	95	92	105	89	97	102	87	82	102	73	85	100	100	81	89	95	84	110	95	98	96	101	119
87841110		RLR 160088		66	68	59	50	46	54	44	52	34	0.16	0.46	-13	13.5	-8.9	7	18.8	74	-19	4.8	-3.2	-0.9	21.2	-2	12	0.42	0.19	1.37
RLR 180092													68	58	50	68	59	59	58	66	15	74	51	34	54	76	73	36	33	32
RLR 180102	2	RLR 150055		105	104	68	124	94	95	99	90	92	102	105	79	104	68	84	101	97	86	125	101	78	108	81	90	93	96	110
88037676		RLR 160075		64	66	55	45	46	51	43	49	32	0.15	-0.26	-17	14.3	-10.3	4	20.1	62	-24	25.2	-8.2	0.3	19.9	-10	4	0.16	-0.11	0.87
RLR 180102													67	54	45	66	55	55	58	66	13	74	51	32	54	75	72	33	31	31
BOG 200050	3	MB 160490		102	121	77	98	118	115	123	114	114	98	128	101	121	77	101	123	115	97	128	110	116	115	121	119	89	96	102
91232728		BOS 177033		66	68	58	50	46	53	46	52	64	0.50	-1.16	9	24.1	-7.8	44	36.6	127	-36	27.2	-15.5	-7.4	23.8	13	31	-0.18	-0.11	0.40
BOG 200050													68	57	50	68	58	59	58	67	19	75	49	34	54	76	73	67	61	60
BOG 210049	4	RLR 160064		71	138	79	81	101	94	125	95	125	53	142	123	138	79	110	136	116	98	87	86	99	117	103	117	106	148	139
92606284		RLR 150086		67	68	58	48	43	53	48	52	64	4.28	-1.72	33	34.0	-7.2	67	46.6	131	-37	3.6	3.1	-3.8	25.1	3	30	1.40	2.90	2.54
BOG 210049													70	58	48	68	58	58	60	67	23	75	45	31	53	76	73	67	62	61
HS 210117	4	HS 180133		78	115	101	117	102	112	106	109	107	73	123	85	115	101	124	114	109	101	134	93	101	111	109	115	102	100	115
92519677		HS 170120		86	86	84	83	83	77	84	78	84	2.54	-0.97	-10	21.0	-1.3	99	29.8	104	-40	30.5	-2.2	-4.4	21.4	7	28	1.01	0.08	1.16
HS210117													86	84	83	86	84	84	84	85	80	87	83	81	84	87	87	85	84	84
RLR 210028		MS 170084		101	105	115	83	106	106	115	105	110	103	92	116	105	115	108	105	116	97	105	108	101	107	102	118	129	83	120
92459122		FXF 090740		66	69	59	47	40	52	72	56	65	0.07	0.26	26	14.9	2.9	62	22.8	131	-35	13.9	-13.7	-4.2	19.1	3	30	3.73	-0.88	1.44
RLR 210028													69	57	47	69	59	58	58	67	71	75	42	26	52	77	74	68	62	60
RLR 210034		MS 170084		99	101	87	110	96	94	101	90	95	105	80	92	101	87	92	101	115	100	102	97	90	105	96	99	106	84	107
92476241		VYF 150168		65	68	56	42	42	51	72	55	63	-0.12	0.75	-2	12.5	-5.0	22	20.2	126	-39	12.4	-4.8	-2.1	18.1	-1	12	1.43	-0.83	0.70
RLR 210034													68	54	42	68	56	55	58	64	71	73	46	29	52	75	72	66	60	58
RLR 210081	5	RLR 170031		89	112	90	121	102	111	74	100	81	86	113	81	112	90	113	104	75	72	110	103	87	116	73	82	72	85	140
92657170		BOS 111198		88	88	86	84	84	79	86	80	86	1.48	-0.55	-15	19.1	-4.3	72	22.1	-19	-8	16.8	-9.7	-1.5	24.6	-14	-4	-1.94	-0.75	2.54
RLR 210081													88	86	84	88	86	86	86	87	83	89	84	83	86	89	88	87	86	85
CFZ 240036		CFZ 190160		106									106	96											73					
6020096068				42									-0.16	0.10											-1.9					
24 0036													47	26											17					

Green: >120 High
White: 80-120 Average
Orange: <80 Low

Breeding values with an accuracy < 5% are not printed

LOGIX Beefmaster Genomic Analysis, SA Stud Book, September 2026 12 CHARTONEL FARM 728089

Breeding Values and Accuracies: Bulls

Green: >120 High
White: 80-120 Average
Orange: <80 Low

Inbreeding in red is high

Value <80 Value >120

Breeding values with an accuracy < 5% are not printed

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				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	
CFZ 250131 6020095961 25 0131		CFZ 190018		99 43										102 0.15 48	90 0.33 24										78 1.0 14						
CFZ 250138 6020216401 CFZ250138		HS 210115		87 51	106 33	105 27	99 23	93 24	94 29			90 21		87 1.40 56	103 -0.16 33	98 5 23	106 15.3 33	105 0.0 27	109 64 28	104 22.4 30	94 49 23		103 13.1 25	97 -5.3 29	102 -4.4 16	87 6.6 26	103 3 26	100 13 25	84 -0.73 22	89 -0.52 20	102 0.42 20
CFZ 250141 99963514 CFZ250141		CFZ 210077		109 42										110 -0.46 48	93 0.21 20										78 1.2 13						
CFZ 250147 99956203 CFZ250147		CFZ 220018		100 42										102 0.14 48	93 0.22 23										72 -2.8 14						
CFZ 250149 99956229 CFZ250149		CFZ 220145		105 42										107 -0.22 48	93 0.20 20										77 0.6 11						
CFZ 250154 99956252 CFZ250153		CFZ 220033		105 42										107 -0.22 48	93 0.20 20										77 0.6 11						
CFZ 250159 99956286 CFZ250159		CFZ 220177		91 42										93 0.88 48	94 0.19 20										77 0.6 11						
CFZ 250161 99956302 CFZ250161		CFZ 220095		102 42										104 0.00 48	94 0.20 20										77 0.6 11						
CFZ 250165 99956344 CFZ250165		CFZ 220096		103 42										104 -0.03 48	94 0.20 20										77 0.6 11						
CFZ 250167 99956369 CFZ250167		CFZ 220077		103 42										104 -0.04 48	94 0.20 20										77 0.6 11						
CFZ 250168 99956377 CFZ250168		CFZ 220103		106 42										107 -0.26 48	93 0.20 20										77 0.6 11						
CFZ 250174 99956393 CFZ250174		CFZ 210022		123 43										122 -1.46 49	96 0.10 24										78 1.2 13						

Breeding Values and Accuracies: Bulls

Green: >120 High
White: 80-120 Average
Orange: <80 Low

Inbreeding in red is high

Value <80 Value >120

Breeding values with an accuracy < 5% are not printed

Animal				Selection Values									Birth		Wean				Growth			Fertility				Frame		Carcass			
Index EBV Acc	% Inbreeding	Sire ID Dam ID		Calv. Ease V	Calv 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																															
CFZ 250193 99956443 CFZ250193				CFZ 170056									96 45		98 0.54 50	94 0.17 28									76 -0.1 7						
CFZ 250203 99956476 CFZ250203				CFZ 220151									88 42		91 1.05 48	94 0.19 20									77 0.6 11						
CFZ 250206 99956484 CFZ250206				CFZ 220118									115 42		115 -0.95 48	93 0.21 20									77 0.6 11						
CFZ 250211 99956492 CFZ250211				CFZ 220027									86 42		89 1.27 48	94 0.19 20									77 0.6 11						
CFZ 250214 99956500 CFZ250214				CFZ 210018									115 43		116 -0.98 49	92 0.25 24									78 1.2 13						
CFZ 250217 99956518 CFZ250217				CFZ 220108									115 42		115 -0.89 48	96 0.11 23									72 -2.9 14						
CFZ 250221 99956526 CFZ250221				CFZ 220074									117 42		115 -0.94 48	98 0.02 23									71 -3.1 11						
CFZ 250239 6020769821 CFZ250225				CFZ 220168									107 42		108 -0.32 48	93 0.21 20									77 0.6 11						
CFZ 260002 6020095946 26 0002				CFZ 190008									122 45		139 -2.91 50	89 0.37 27									78 0.9 18						
CFZ 260056 6020769870 CFZ260056				HS 210142		96 51	99 33	106 27	115 23	81 24	93 29		88 21	97 0.61 56	98 0.02 33	87 -8 23	99 11.5 33	106 0.3 27	109 63 28	98 17.4 30	92 42 24		103 13.1 26	86 3.6 29	87 -1.5 16	85 5.5 27	98 0 26	97 11 25	84 -0.72 22	91 -0.43 20	103 0.45 20
CFZ 260081 6020769888 CFZ260081				CFZ 190153		106 44								108 -0.33 49	91 0.29 27										74 -1.6 18						
CFZ 260087 6020487820 CFZ260087				CFZ 180067		101 43								103 0.06 48	92 0.26 24										80 2.5 16						

Breeding Values and Accuracies: Bulls

Green: >120 High
White: 80-120 Average
Orange: <80 Low

Inbreeding in red is high Value <80 Value >120 Breeding values with an accuracy < 5% are not printed

Animal			Selection Values										Birth		Wean				Growth			Fertility				Frame		Carcass		
Index EBV Acc	% Inbreeding	Sire ID Dam ID	Calv. Ease V	Calv 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																														
CFZ 260088 6020487838 CFZ260088		CFZ 180133	113 45									112 -0.70 50	97 0.08 28										78 1.4 16							
CFZ 260090 6020487846 CFZ260090		CFZ 190160	108 44									109 -0.40 49	95 0.14 27										73 -1.9 17							
CFZ 260098 6020487861 CFZ260098		CFZ 190108	104 44									104 0.00 49	97 0.06 27										78 1.1 17							
CFZ 260102 6020487879 CFZ260102		CFZ 190140	109 43									111 -0.55 48	91 0.32 24										78 1.1 17							
CFZ 260112 6020520265 CFZ260112		HS 210154	103 51	98 34	99 30	114 26	77 27	89 31	90 20	83 29	88 20	102 0.21 56	103 -0.17 35	88 -7 26	98 11.0 34	99 -1.7 30	101 44 30	98 17.2 32	94 51 25	97 -36 14	90 5.5 26	87 2.6 31	80 -0.1 19	82 3.7 30	98 0 26	96 9 26	82 -0.89 21	86 -0.74 20	100 0.31 20	
CFZ 260116 6020648017 CFZ260116		CFZ 200202	106 44									106 -0.17 49	96 0.09 27										77 0.8 13							

Breeding Values and Accuracies: Cows

Green: >120 High
White: 80-120 Average
Orange: <80 Low

Inbreeding in red is high

Value <80 Value >120

Breeding values with an accuracy < 5% are not printed

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																														
CFZ 170012 99378127 17 0012			125 43									119 -1.27 42	109 -0.40 48											93 10.5 15						
CFZ 170056 99378226 17 0056			103 43									107 -0.23 42	87 0.48 48											91 9.0 13						
CFZ 180067 99378119 18 0067			103 35									107 -0.24 34	87 0.47 39											99 14.2 31						
CFZ 180133 99378358 18 0133			116 45									114 -0.87 44	100 -0.06 49											95 11.9 33						
CFZ 190018 99378291 19 0018			100 34									105 -0.08 33	83 0.61 38											94 11.1 29						
CFZ 190038 99378200 19 0038			101 42									105 -0.12 41	84 0.57 47											96 12.3 34						
CFZ 190042 99378366 19 0042			100 41									105 -0.10 40	84 0.59 45											92 9.8 35						
CFZ 190078 6020213614 CFZ 190078			111 40									111 -0.60 39	94 0.17 45											93 10.3 28						
CFZ 190081 99378192 19 0081			100 35									105 -0.07 34	83 0.61 39											100 14.5 36						
CFZ 190108 99378275 19 0108			112 41									112 -0.64 40	95 0.13 45											94 11.4 34						
CFZ 190140 99378382 19 0140			105 34									108 -0.34 33	89 0.39 38											94 11.4 34						
CFZ 190153 99378325 19 0153			105 41									108 -0.31 40	88 0.41 46											86 5.9 36						

Breeding Values and Accuracies: Cows

Green: >120 High
White: 80-120 Average
Orange: <80 Low

Inbreeding in red is high

Value <80 Value >120

Breeding values with an accuracy < 5% are not printed

Animal			Selection Values										Birth		Wean				Growth			Fertility				Frame		Carcass		
Index EBV Acc	ID Number Name	% Inbreeding	Sire ID Dam ID	Calv. Ease V	Calv 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
	CFZ 190160 99378168 19 0160			111 41									112 -0.63 40	95 0.14 46											85 5.4 34					
	CFZ 200104 99378267 20 0104			109 41									110 -0.53 40	93 0.23 46											90 8.9 28					
	CFZ 200126 99378341 20 0126			108 32									110 -0.48 31	92 0.27 36											91 9.4 27					
	CFZ 200189 99378390 20 0189			110 33									111 -0.54 32	93 0.21 37											94 10.8 28					
	CFZ 200202 99378242 20 0202			112 41									112 -0.66 40	96 0.12 46											93 10.7 27					
	CFZ 210002 6020203128 21 0002		OKT 130012 CFZ 180133	114 56	93 46	97 43	93 35	94 37	89 40			86 11	111 -0.56 56	105 -0.24 56	106 13 35	93 8.2 46	97 -2.1 43	87 11 41	94 14.3 41	91 39 21		90 5.5 23	102 -8.8 36	92 -2.4 23	96 12.3 52	98 0 23	94 8 23	87 -0.43 12	80 -1.06 10	75 -1.11 10
	CFZ 210017 6020106057 21 0017		CFZ 180067	103 18									106 -0.13 17	91 0.29 20											80 2.5 16					
	CFZ 210018 99378283 21 0018			112 35									112 -0.63 34	95 0.14 39											95 11.5 27					
	CFZ 210022 99378176 21 0022			121 35									117 -1.09 34	105 -0.25 39											95 11.5 27					
	CFZ 210034 99378317 21 0034			124 35									118 -1.20 34	107 -0.34 39											94 11.1 28					
	CFZ 210077 99378374 21 0077			109 26									110 -0.53 25	93 0.23 29											95 11.5 27					
	CFZ 210250 99378259 21 0250			115 35									113 -0.78 34	98 0.01 39											93 10.5 28					

Green: >120 High
White: 80-120 Average
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Value <80	Value >120
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Animal				Selection Values								Birth		Wean				Growth			Fertility				Frame		Carcass						
Index EBV Acc	ID	% 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			
Number																															Name		
CFZ 210576 99378234 21 0576				104 35								108 -0.30 34		88 0.42 39									95 11.5 27										
HS 210115 92519651 HS210115				3	HS 180133 HS 170133	77 67	125 66	102 55	88 46	117 48	115 52	108 28	111 47	107 42	77 2.24 69	107 -0.33 59	112 20 46	125 26.5 66	102 -0.9 55	120 90 56	125 38.3 62	110 108 46	102 -41 7	124 24.7 51	113 -17.5 58	115 -7.1 32	112 22.3 53	115 10 51	116 29 50	103 1.15 44	85 -0.74 41	107 0.68 40	
HS 210141 92674985 HS210141				1	BOS 133095 HS 140123	96 70	112 69	103 61	110 50	91 53	108 56	105 40	104 53	102 44	97 0.54 72	97 0.07 65	92 -2 50	112 19.2 69	103 -0.5 61	119 86 60	111 27.7 66	108 100 51	106 -46 27	97 9.2 54	98 -6.2 62	73 1.4 36	111 21.5 60	102 2 54	104 17 53	100 0.90 46	78 -1.17 43	98 0.20 43	
HS 210142 92674993 HS210142				1	HS 180133 HS 170195	93 68	113 66	105 55	113 46	93 48	111 53	102 30	106 48	103 42	93 0.88 70	99 -0.02 59	89 -5 46	113 19.6 66	105 0.0 55	122 95 56	113 29.2 61	106 96 47	99 -38 8	124 24.6 51	90 0.3 58	86 -1.3 33	109 20.2 54	105 5 52	111 24 51	103 1.17 44	89 -0.56 40	108 0.74 40	
HS 210154 92784065 HS210154				3	BOS 133095 HS 140017	93 69	117 69	94 61	112 53	85 53	101 56	112 40	99 53	104 42	89 1.21 71	114 -0.61 64	91 -4 53	117 21.8 69	94 -3.2 61	116 79 61	118 32.6 64	111 112 50	107 -47 27	97 9.5 53	93 -1.7 61	72 1.6 37	103 16.6 60	107 5 53	108 21 52	100 0.83 43	78 -1.17 41	103 0.45 40	
CFZ 220009 99377913 22 0009						108 26								110 -0.47 25		92 0.27 29									93 10.4 22								
CFZ 220011 99377954 22 0011						103 26								107 -0.25 25		87 0.47 29									93 10.4 22								
CFZ 220018 99377798 22 0018					CFZ 190038	101 32								104 -0.02 31		89 0.39 36									82 3.6 29								
CFZ 220019 99377988 22 0019						108 26								110 -0.47 25		92 0.28 29									93 10.4 22								
CFZ 220027 99377830 22 0027						97 26								103 0.07 25		80 0.73 29									93 10.4 22								
CFZ 220033 99377939 22 0033						108 26								109 -0.44 25		91 0.30 29									93 10.4 22								
CFZ 220045 99377889 22 0045						91 26								100 0.35 25		74 0.97 29									93 10.4 22								

Breeding Values and Accuracies: Cows

Green: >120 High
White: 80-120 Average
Orange: <80 Low

Inbreeding in red is high

Value <80 Value >120

Breeding values with an accuracy < 5% are not printed

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																													
CFZ 220047 99378101 22 0047			94 26									101 0.21 25	77 0.85 29											93 10.4 22					
CFZ 220052 99377921 22 0052			107 26									109 -0.42 25	90 0.32 29											93 10.4 22					
CFZ 220058 99377822 22 0058			123 26									118 -1.16 25	106 -0.31 29											93 10.4 22					
CFZ 220059 99378077 22 0059			111 26									112 -0.62 25	95 0.15 29											93 10.4 22					
CFZ 220062 99377962 22 0062			106 26									108 -0.35 25	89 0.38 29											93 10.4 22					
CFZ 220073 99377806 22 0073			110 26									111 -0.55 25	93 0.21 29											93 10.4 22					
CFZ 220074 99377863 22 0074		CFZ 170012	118 33									114 -0.81 32	106 -0.28 36											81 2.9 22					
CFZ 220077 99377756 22 0077			106 26									109 -0.38 25	90 0.35 29											93 10.4 22					
CFZ 220079 99377764 22 0079			118 26									115 -0.93 25	101 -0.11 29											93 10.4 22					
CFZ 220092 99377947 22 0092			106 26									109 -0.39 25	90 0.34 29											93 10.4 22					
CFZ 220095 99377772 22 0095			106 26									109 -0.37 25	90 0.36 29											93 10.4 22					
CFZ 220096 99378002 22 0096			106 26									109 -0.38 25	90 0.35 29											93 10.4 22					

Green: >120 High
White: 80-120 Average
Orange: <80 Low

Value <80	Value >120
-----------	------------

Animal				Selection Values								Birth		Wean				Growth			Fertility				Frame		Carcass			
Index EBV Acc	ID Number Name	% Inbreeding	Sire ID Dam ID	Calv. Ease V	Caif 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
	CFZ 220103	99377871		108									110	91											93					
	99377871			26									-0.46	0.29											10.4					
	22 0103												25	29											22					
	CFZ 220108	99378010	CFZ 180133	114									112	102											82					
	99378010			33									-0.62	-0.12											3.4					
	22 0108												32	37											28					
	CFZ 220117	99377780	CFZ 170056	103									105	90											80					
	99377780			33									-0.09	0.33											2.3					
	22 0117												32	36											22					
	CFZ 220118	99377897		113									112	96											93					
	99377897			26									-0.70	0.09											10.4					
	22 0118												25	29											22					
	CFZ 220121	99377848		107									109	90											93					
	99377848			26									-0.41	0.33											10.4					
	22 0121												25	29											22					
	CFZ 220139	99378093		111									112	95											93					
	99378093			26									-0.63	0.14											10.4					
	22 0139												25	29											22					
	CFZ 220145	99378044		108									109	91											93					
	99378044			26									-0.44	0.30											10.4					
	22 0145												25	29											22					
	CFZ 220149	99377905		105									108	88											93					
	99377905			26									-0.32	0.40											10.4					
	22 0149												25	29					</											

Breeding Values and Accuracies: Cows

Green: >120 High
White: 80-120 Average
Orange: <80 Low

Inbreeding in red is high

Value <80 Value >120

Breeding values with an accuracy < 5% are not printed

Animal			Selection Values										Birth		Wean				Growth			Fertility				Frame		Carcass		
Index EBV Acc	ID Number Name	% 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
	CFZ 220168 99377749 22 0168			108 26									110 -0.48 25	92 0.27 29											93 10.4 22					
	CFZ 220173 99378051 22 0173			108 26									110 -0.47 25	92 0.28 29											93 10.4 22					
	CFZ 220177 99377855 22 0177			100 26									105 -0.07 25	83 0.62 29											93 10.4 22					
	CFZ 230032 99377327 23 0032			105 25									108 -0.34 24	89 0.39 27											111 21.3 14					
	CFZ 230164 99377616 23 0164			113 26									113 -0.72 25	97 0.07 29											111 21.3 14					
	CFZ 240012 6020213622 24 0012		CFZ 190078	101 42									101 0.25 47	98 0.04 26											77 0.6 14					
	CFZ 240021 6020096035 24 0021		CFZ 190140	97 41									99 0.45 46	95 0.13 23											78 1.1 17					
	CFZ 240022 6020095912 24 0022		CFZ 180133	116 44									116 -0.97 48	95 0.13 28											78 1.4 16					
	CFZ 240052 6020096126 24 0052		CFZ 200189	120 40									121 -1.39 45	89 0.37 23											77 0.8 14					
	CFZ 240060 6020095953 24 0060		CFZ 190018	93 40									96 0.65 45	93 0.23 23											78 1.0 14					
	CFZ 240063 6020096019 24 0063		CFZ 190108	110 42									110 -0.50 46	95 0.15 26											78 1.1 17					
	CFZ 240093 6020096233 24 0093		CFZ 210576	105 41									107 -0.24 46	91 0.28 23											78 1.2 13					

Breeding Values and Accuracies: Cows

Green: >120 High
White: 80-120 Average
Orange: <80 Low

Inbreeding in red is high										Value <80		Value >120		Breeding values with an accuracy < 5% are not printed																
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																														
CFZ 240096 6020779101 CFZ240096		CFZ 210002	108 46	89 23	102 21	103 18	82 18	82 23				107 -0.22 50	100 -0.07 31	95 2 18	89 5.5 23	102 -0.8 21	90 18 21	88 9.6 20	84 14 11		87 3.5 12	92 -0.9 18	90 -2.1 11	79 1.6 26	94 -2 12	89 3 11	76 -1.52 6	86 -0.68 5	86 -0.47 5	
CFZ 240098 6020096175 24 0098		CFZ 210018	105 41									105 -0.12 46	96 0.09 23										78 1.2 13							
CFZ 240117 6020105562 24 0117	2	HS 210135 HS 210141	88 59	117 48	112 41	92 34	96 35	107 40	107 30	103 38	110 38	89 1.22 63	99 -0.02 44	105 13 34	117 22.2 48	112 2.0 41	124 99 41	116 31.4 44	112 115 41	108 -48 14	118 21.6 45	98 -5.7 39	86 -1.3 24	108 19.5 41	112 8 46	114 27 44	107 1.55 40	84 -0.83 36	104 0.52 36	
CFZ 240121 6020095896 24 0121		CFZ 170056	95 44									97 0.54 49	94 0.17 27										76 -0.1 7							
CFZ 240160 6020203136 24 0160		CFZ 190008	118 43									117 -1.06 48	98 0.02 27										78 0.9 18							
CFZ 240186 6020096001 24 0186		CFZ 190081	93 43									96 0.65 48	93 0.23 24										93 10.3 21							
CFZ 250024 6020105570 25 0024	17	HS 210135 HS 210142	84 58	119 47	113 38	93 33	97 33	108 39	106 25	104 36	111 37	85 1.58 62	101 -0.11 42	104 12 33	119 23.0 47	113 2.4 38	127 106 39	118 32.8 41	111 113 40	104 -44 6	132 29.3 45	94 -2.4 38	93 -2.7 22	107 18.9 38	113 9 45	118 30 44	109 1.69 39	89 -0.52 35	109 0.79 35	
CFZ 250045 6020096043 25 0045		CFZ 190140	104 17									106 -0.18 17	92 0.25 19										78 1.1 17							
CFZ 250047 6020096050 25 0047		CFZ 190153	98 44									100 0.32 49	94 0.17 27										74 -1.6 18							
CFZ 250053 6020096142 25 0053		CFZ 200202	107 44									108 -0.30 49	96 0.11 27										77 0.8 13							
CFZ 250094 6020096118 25 0094		CFZ 200126	99 42									100 0.34 48	97 0.08 23										76 0.1 13							
CFZ 250125 6020096076 25 0125		CFZ 190160	114 44									114 -0.85 49	93 0.23 27										73 -1.9 17							

Breeding Values and Accuracies: Cows

Green: >120 High
White: 80-120 Average
Orange: <80 Low

Inbreeding in red is high										Value <80		Value >120		Breeding values with an accuracy < 5% are not printed																
Animal			Selection Values								Birth		Wean				Growth			Fertility				Frame		Carcass				
Index EBV Acc	% Inbreeding	Sire ID Dam ID	Calv. Ease V	Calv 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																														
CFZ 250142		CFZ 220019	106									107	93										77							
99956161			42									-0.28	0.20										0.6							
CFZ250142												48	20										11							
CFZ 250143		CFZ 220157	106									107	93										77							
6020487283			42									-0.29	0.20										0.6							
CFZ250143												48	20										11							
CFZ 250144		CFZ 220117	102									103	94										71							
99956179			42									0.06	0.20										-3.4							
CFZ250144												48	23										11							
CFZ 250145		CFZ 220073	109									110	93										77							
99956187			42									-0.51	0.21										0.6							
CFZ250145												48	20										11							
CFZ 250146		CFZ 220079	124									124	93										77							
99956195			42									-1.62	0.22										0.6							
CFZ250146												48	20										11							
CFZ 250148		CFZ 220092	103									105	93										77							
99956211			42									-0.07	0.20										0.6							
CFZ250148												48	20										11							
CFZ 250150		CFZ 220059	112									113	93										77							
99956237			42									-0.74	0.21										0.6							
CFZ250150												48	20										11							
CFZ 250152		CFZ 220173	106									108	93										77							
99956245			42									-0.29	0.20										0.6							
CFZ250152												48	20										11							
CFZ 250155		CFZ 220009	106									108	93										77							
99956260			42									-0.29	0.20										0.6							
CFZ250155												48	20										11							
CFZ 250158		CFZ 220149	101									102	94										77							
99956278			42									0.14	0.20										0.6							
CFZ250158												48	20										11							
CFZ 250160		CFZ 220139	112									113	93										77							
99956294			42									-0.74	0.21										0.6							
CFZ250160												48	20										11							
CFZ 250162		CFZ 220047	80									84	94										77							
99956310			42									1.69	0.18										0.6							
CFZ250162												48	20										11							

Breeding Values and Accuracies: Cows

Green: >120 High
White: 80-120 Average
Orange: <80 Low

Inbreeding in red is high										Value <80		Value >120		Breeding values with an accuracy < 5% are not printed																
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																														
CFZ 250163		CFZ 220058	131									132	93										77							
99956328			42									-2.29	0.23										0.6							
CFZ250163												48	20										11							
CFZ 250164		CFZ 220011	98									100	94										77							
99956336			42									0.36	0.20										0.6							
CFZ250164												48	20										11							
CFZ 250166		CFZ 220121	104									105	93										77							
99956351			42									-0.11	0.20										0.6							
CFZ250166												48	20										11							
CFZ 250173		CFZ 210576	99									101	94										78							
99956385			43									0.28	0.18										1.2							
CFZ250173												49	24										13							
CFZ 250175		CFZ 220045	74									79	94										77							
99956401			42									2.09	0.18										0.6							
CFZ250175												48	20										11							
CFZ 250177		CFZ 210250	107									107	98										77							
99963522			43									-0.24	0.03										0.7							
CFZ250177												49	24										14							
CFZ 250185		CFZ 190081	99									102	90										80							
99956419			43									0.16	0.32										2.7							
CFZ250185												49	24										18							
CFZ 250187		CFZ 200104	102									102	96										76							
99956427			45									0.13	0.10										-0.2							
CFZ250187												50	27										14							
CFZ 250190		CFZ 170012	121									118	100										77							
99956435			45									-1.20	-0.04										0.7							
CFZ250190												50	28										8							
CFZ 250199		CFZ 220152	110									111	93										77							
99956450			42									-0.58	0.21										0.6							
CFZ250199												48	20										11							
CFZ 250200		CFZ 220052	104									106	93										77							
99956468			42									-0.13	0.20										0.6							
CFZ250200												48	20										11							
CFZ 250224		CFZ 220062	102									103	94										77							
6020487275			42									0.06	0.20										0.6							
CFZ250224												48	20										11							

Breeding Values and Accuracies: Cows

Green: >120 High
White: 80-120 Average
Orange: <80 Low

Inbreeding in red is high										Value <80		Value >120		Breeding values with an accuracy < 5% are not printed															
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																													
CFZ 260001 6020096209 26 0001		CFZ 210034	118 43									116 -1.01 49	100 -0.04 24											78 1.0 14					
CFZ 260018 6020769839 CFZ260018		CFZ 230032	101 39									103 0.09 45	94 0.20 19											86 6.1 7					
CFZ 260023 6020769847 CFZ260023		CFZ 200189	96 41									97 0.60 46	99 0.00 23											77 0.8 14					
CFZ 260038 6020882251 CFZ260038		CFZ 210002	108 46	88 23	102 21	103 18	82 18	82 23			80 6	107 -0.26 50	100 -0.06 31	95 2 18	88 5.4 23	102 -0.8 21	89 17 21	88 9.4 20	84 14 11		87 3.5 12	92 -0.9 18	90 -2.1 11	79 1.6 26	94 -2 12	89 3 11	76 -1.52 6	86 -0.68 5	86 -0.47 5
CFZ 260039 6020769854 CFZ260039		CFZ 190042	111 42									114 -0.80 47	86 0.49 26											77 0.3 18					
CFZ 260041 6020769862 CFZ260041		CFZ 190078	112 42									113 -0.74 47	93 0.22 26											77 0.6 14					
CFZ 260094 6020487853 CFZ260094		HS 210141	89 51	102 35	107 31	114 25	80 26	92 31	87 20	85 29	88 22	90 1.17 56	101 -0.08 35	88 -6 25	102 13.4 35	107 0.6 31	113 72 30	100 19.2 33	92 45 25	97 -35 13	90 5.3 27	90 0.4 31	80 -0.1 18	86 6.2 30	96 -1 27	94 7 27	83 -0.86 23	86 -0.74 22	98 0.18 21
CFZ 260110 6020487887 CFZ260110		CFZ 190038	101 44									104 0.04 49	90 0.32 27											79 1.6 17					

Selection List on Cow Value

Bulls 2 years and older

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	BOG 200050	BOG 200050	MB 160490	BOS 177033	2.9					102	66	121	68	77	58	98	50	118	46	115	53	123	46	114	52
2	HS 210117	HS210117	HS 180133	HS 170120	3.7	HH	0	0	0	78	86	115	86	101	84	117	83	102	83	112	77	106	84	109	78
3	RLR 210081	RLR 210081	RLR 170031	BOS 111198	4.7	HH	1	0	0	89	88	112	88	90	86	121	84	102	84	111	79	74	86	100	80
1	RLR 180020	RLR 180020	RLR 150055	BOS 155022	3.3					114	70	103	69	77	60	118	47	101	50	105	55	96	42	100	52
2	RLR 210028	RLR 210028	MS 170084	FXF 090740	0.5					101	66	105	69	115	59	83	47	106	40	106	52	115	72	105	56
1	BOG 180020	BOG 180020	RLR 111153	BOS 077486	0.0					82	65	117	68	99	61	86	45	96	48	92	53	140	44	97	51
2	BOG 210049	BOG 210049	RLR 160064	RLR 150086	3.7					71	67	138	68	79	58	81	48	101	43	94	53	125	48	95	52
3	RLR 180067	RLR 180067	RLR 140084	BOS 088042	8.5					93	66	121	68	84	57	91	48	96	44	96	53	114	46	95	52
4	RLR 180092	RLR 180092	RLR 150055	RLR 160088	2.4					98	66	102	68	73	59	121	50	95	46	92	54	105	44	89	52
5	RLR 180102	RLR 180102	RLR 150055	RLR 160075	1.6					105	64	104	66	68	55	124	45	94	46	95	51	99	43	90	49
6	RLR 210034	RLR 210034	MS 170084	VYF 150168	0.2					99	65	101	68	87	56	110	42	96	42	94	51	101	72	90	55

Selection List on Cow Value

Cows 2 years and older

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	
Sorted on ID							nt821	Q204X	F94L	Genomic tested									
											★★★★★								
1	HS 210115	HS210115	HS 180133	HS 170133	3.4						77 67	125 66	102 55	88 46	117 48	115 52	108 28	111 47	
2	HS 210142	HS210142	HS 180133	HS 170195	1.1						93 68	113 66	105 55	113 46	93 48	111 53	102 30	106 48	
											★★★★☆								
1	CFZ 240117	24 0117	HS 210135	HS 210141	2.1						88 59	117 48	112 41	92 34	96 35	107 40	107 30	103 38	
2	HS 210141	HS210141	BOS 133095	HS 140123	0.5						96 70	112 69	103 61	110 50	91 53	108 56	105 40	104 53	
3	HS 210154	HS210154	BOS 133095	HS 140017	2.8						93 69	117 69	94 61	112 53	85 53	101 56	112 40	99 53	
											★★★★☆								
1	CFZ 210002	21 0002	OKT 130012	CFZ 180133	0.0						114 56	93 46	97 43	93 35	94 37	89 40			
2	CFZ 240096	CFZ240096		CFZ 210002	0.0						108 46	89 23	102 21	103 18	82 18	82 23			

Selection List on Cow Value

Bull Calves younger than 2 years

ID Name Sorted on ID		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	CFZ 250138	CFZ250138	HS 210115	0.0						8751	10633	10527	9923	9324	9429			
2	CFZ 260056	CFZ260056	HS 210142	0.0						9651	9933	10627	11523	8124	9329			
										★★★★☆								
1	CFZ 260112	CFZ260112	HS 210154	0.0						10351	9834	9930	11426	7727	8931	9020	8329	

Selection List on Cow Value

Heifers younger than 2 years

ID Sorted on ID		Name	Sire ID	Dam ID	% Inbreeding	Horned / Polled	Myostatin			Genomic tested	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	
											★★★★★								
1	CFZ 250024	25 0024	HS 210135	HS 210142	16.7						8458	11947	11338	9333	9733	10839	10625	10436	
											★★★★								
1	CFZ 260094	CFZ260094		HS 210141	0.0						8951	10235	10731	11425	8026	9231	8720	8529	
											★★★★								
1	CFZ 260038	CFZ260038		CFZ 210002	0.0						10846	8823	10221	10318	8218	8223			

	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 18mth 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.

