

BEEFMASTER

GENOMIC BREEDING VALUE REPORT

September 2026



HUTTON BEEFMASTERS

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BEEFMASTER
CATTLE BREEDERS' SOCIETY OF SA
BEESTELERSGENOOTSAP VAN SA



EBVs, EBVi's and GEBVs

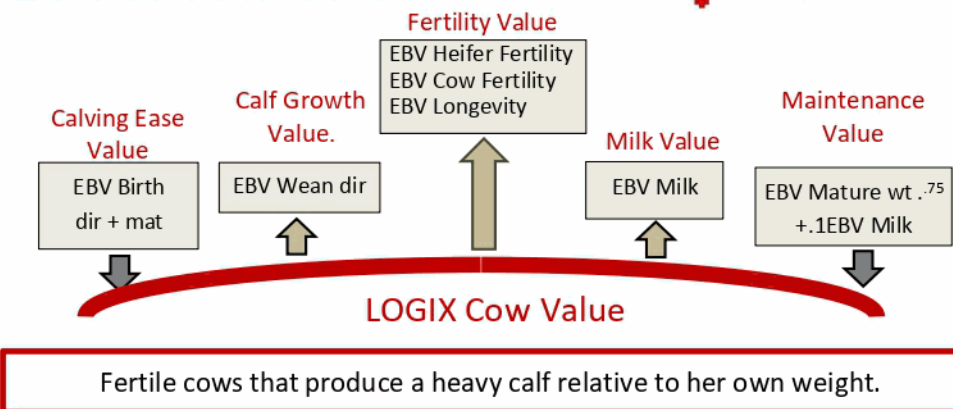
EBVi (Breeding Value Index): Genetic potential relative to the average (100) of the live (active) animals in the breed. Roughly 50% of the animals have values between 90 and 110. Values above 100, depending on the trait, tend to be in the more favourable direction.

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)

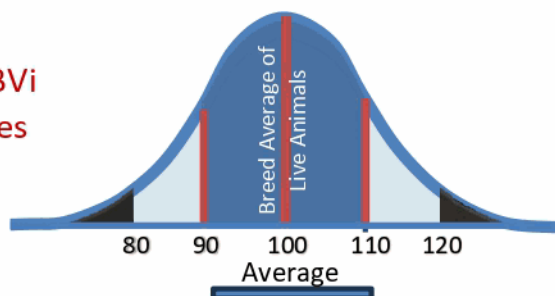
- WeanerCalf / Growth Value > 120
 - Cow Value and Fertility Value average to high
- Growers are usually heavier at birth (lower Calving Ease Value), and maturity (lower Maintenance Value).

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

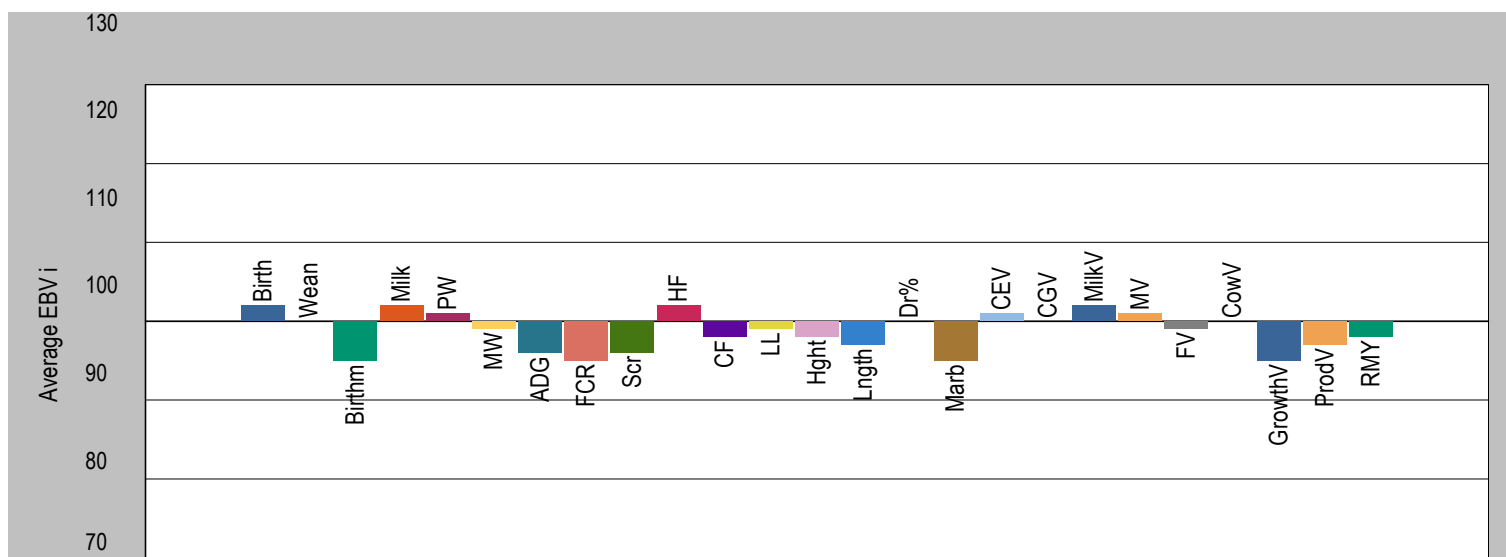
Larger groups result in more accurate and stable breeding values, as the mean and distribution of the group can be more accurately determined and are thus more representative. Groups should preferably have more than 5 animals. Weigh all the animals in the same group on the same day, as corrections for 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 Ratio	RMY:	Carcass Value
		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	102	0.34
	Wean Weight	12.0	100	12.1
	Birth Mat.	0.14	95	-0.05
	Milk (Wn.Mat.)	-1.0	102	-1.4
Postwean Growth	Postwean Wt	19.7	101	19.0
	Mature Weight	6	99	7
	ADG	56	96	72
	FCR	-34	95	-39
Fertility	Scrotal Circumf.	8.6	96	11.1
	Heifer Fertility	-8.8	102	-7.5
	Cow Fertility	-3.6	98	-4.1
	Longevity	14.4	99	14.8
Frame	Height	0	98	1
	Length	10	97	13
Carcass	EMA	0.89	100	0.85
	Fat	-0.17	95	0.11
	Marbling	0.02	95	0.30

Selection Value	Ave. Herd
Calving Ease	101
Calf Growth	100
Milk	102
Maintenance	101
Fertility	99
Cow Value	100
Growth Value	95
Production Value	97
Carcass Value	98

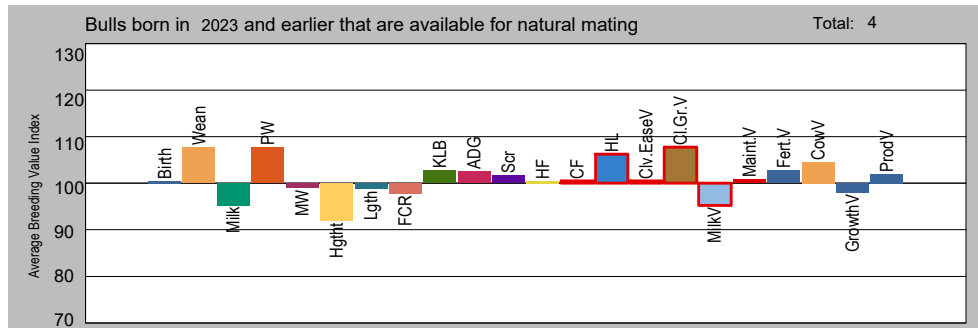
- Average of live animals in the breed: 100
- Above 100: **more favourable**,
- Below 100: **less favourable**

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

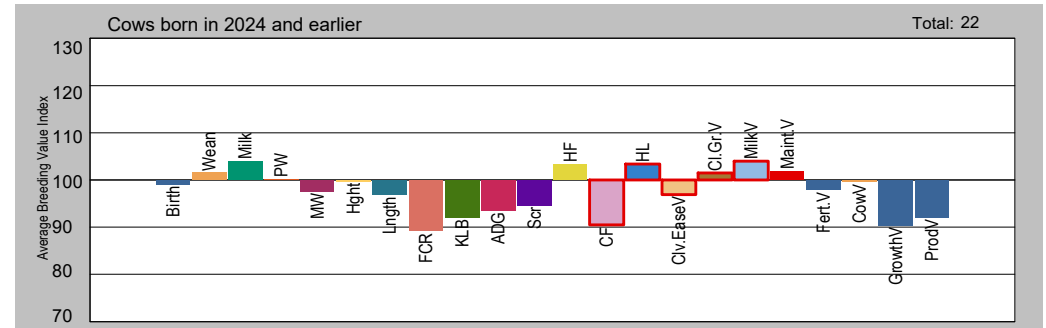
Genetic Windows

Bulls on the farm



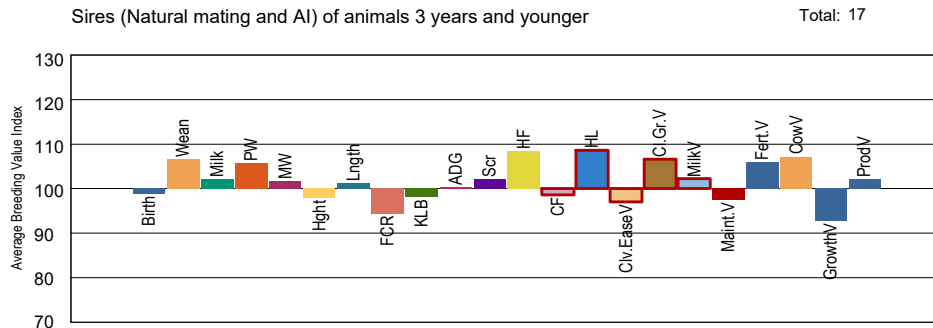
Animals available for breeding

Cow Herd

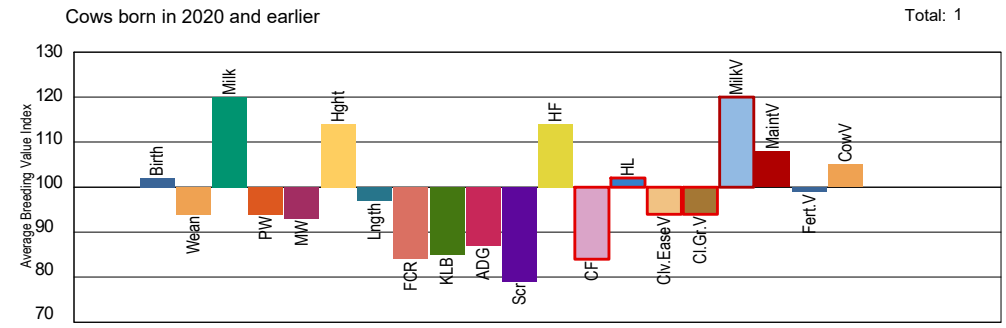


Results of previous selection decisions

Sires of young animals

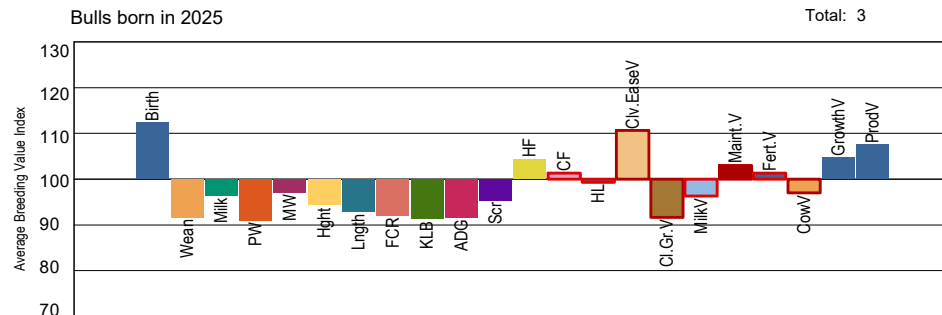


Cows older than 6 years

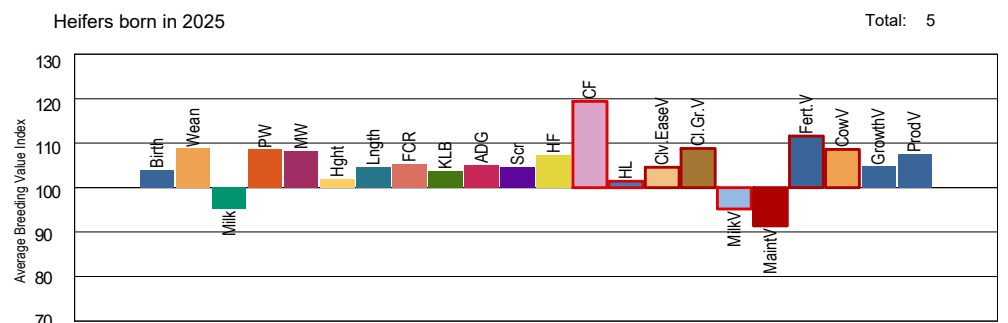


Selection possibilities

Bull calves



Heifer calves

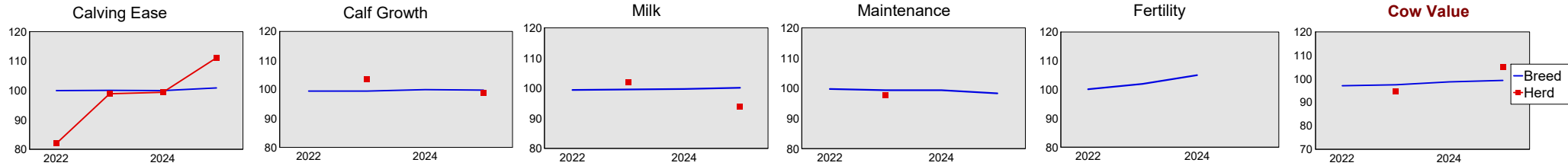


Summary of Cow Herd

			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	99	100	101	100	100	99	100	100	99	99	100	99	99	99	99	99	99	100	100	100	99	99
2017	1	★★★☆☆	93	97	98	99	87	80			95	97	98	98	93	99	91	92	87	81	104	85	89	88	
2019	1	★★★★☆	94	94	120	108	99	105			102	94	76	120	94	93	87	85	79	114	84	102	114	97	
2020	1		110	104	114						110	104	97	114	105							105			
2021	1		124	77	89						120	77	103	89											
2022	12	★★★☆☆	101	92	106	91	97	89			103	92	94	106	106	107	101	100	101	99	109	94	108	105	
2023	5	★★★★	99	104	102	98	92	95	93	89	103	104	86	102	105	102	99	98	96	98	89	97	104	103	
2024	18	★★★★☆	98	100	104	103	100	101	88	95	99	100	97	104	98	96	92	90	95	104	92	103	97	94	
2025	5	★★★★☆	105	109	95	91	112	109	105	108	104	109	101	95	109	108	105	104	105	107	119	101	102	105	
2026	3	★★★★	104	89	108	111	82	91			107	89	88	108	88	91	84	84	85	94	87	80	100	91	
Cows in Herd Average:			103	96	104	100	96	96	95	97	105	96	93	104	100	99	94	93	93	100	98	96	102	98	

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.



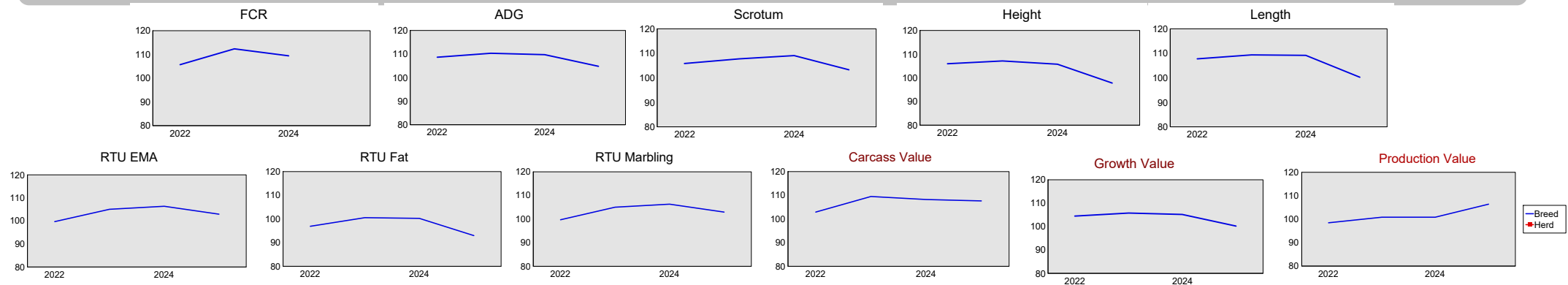
Herd

Birth Year	Calving Ease				Calf Growth			Milk			Maintenance				Fertility						Cow Value		
	Birth Weight		Mat EBV	Calv. Ease	Weaning Weight		Calf Growth	Milk (Wn.Mat.)		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
2022	1	1.60	0.05	82																			
2023	7	0.15	0.39	99	5	14.2	104	5	-0.87	102	5	22.6		98								95	
2024	6	0.25	0.15	99																			
2025	11	-0.47	-0.05	111	9	11.5	99	9	-3.12	94												105	

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.)		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
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			
2022																									
2023																									
2024																									
2025																									

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	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	G	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					Test	Dgt/Calvs.				
BA 150312 BA 100010 BA 100549				86	96	129	115	104	117	80	107	99	96	63	129	99	86	88	73	65	134	77	105	123	103	94	126	113	69	62	
BA15-0312				91	91	80	51	72	72	38	65	0.43	9.9	1.42	6.8	18.3	-9	28	-10	-9.0	-33.9	0.6	18.0	15	16	0.28	1.62	1.04	21	28	
BA 160238 BA 110273 BA 090019				97	106	112	98	100	108	71	97	92	106	116	112	94	100	80	76	94	108	108	88	85	89	90	112	121	22	17	
BA16-0238				80	81	62	49	55	61	28	54	1.02	15.8	-0.68	1.9	14.1	7	-1	-13	7.5	-13.4	-5.6	7.5	-7	3	-0.15	0.84	1.48			
BOS 144309 Gx BOS 111313 G BOS 111170				74	110	123	95	91	97	119	97	69	110	133	123	108	102	118	115	111	61	122	92	91	105	119	86	98	259	228	
BOS144309				98	98	97	96	97	89	95	90	2.90	17.7	-1.38	5.0	25.3	9	139	-55	17.6	23.2	-8.4	10.1	-4	18	2.76	-0.74	0.19	1	49	122
HS 130108 BOS 088358 HS 080134				67	134	117	79	95	105	115	103	76	134	82	117	138	123	117	100	119	109	93	90	126	135	125	122	128	158	142	
HS130108				95	96	91	86	79	82	54	76	2.34	32.0	0.67	3.4	48.1	33	134	-39	21.9	-14.3	-2.7	8.7	17	47	3.36	1.39	1.89	18	34	116
JM 120371 BOS 077216 JM 080023				86	126	103	85	92	100	103	96	87	126	101	103	123	116	116	122	90	79	103	98	95	111	126	116	114	33	31	
JM120371				82	87	73	51	63	66	44	62	1.44	27.0	-0.10	-0.6	36.6	25	130	-62	5.7	9.2	-4.7	13.6	-2	24	3.42	1.02	1.08	6	4	18
RG 210050 Gx RG 160026 G RG 180140				109	102	93	83	119	105	92	98	112	102	87	93	107	118	98	92	108	120	128	99	96	100	98	109	109	1	1	
21 050				85	86	84	82	82	77	80	78	-0.64	13.3	0.46	-3.3	24.4	28	65	-30	15.4	-23.4	-9.8	14.0	-1	13	0.67	0.61	0.81			
SB 180519 SB 150759 SB 130164				120	121	63	87	113	107	91	100	112	121	121	63	115	115	98	99	89	109	108	114	74	95	101	126	116	180	171	
SB180519				95	96	86	72	71	78	50	72	-0.69	24.2	-0.89	-11.7	30.9	24	66	-38	4.6	-14.9	-5.6	23.5	-14	8	0.97	1.64	1.22	35	40	51
SB 190765 HS 130108 SB 160160				93	118	98	94	93	100	102	96	102	118	76	98	120	105	112	103	99	104	83	100	110	116	118	114	120	5	5	
SB190765				71	74	62	56	52	58	42	55	0.21	22.5	0.91	-2.0	34.9	13	114	-42	10.6	-10.4	-0.6	15.0	7	28	2.59	0.91	1.45			
SB 210632 Gx SB 180519 G SB 160312				132	98	83	121	113	123	85	114	127	98	103	83	97	82	85	78	95	113	100	118	62	79	88	104	91	18	19	
SB210632				90	90	86	85	85	80	86	81	-1.90	10.7	-0.18	-6.2	16.6	-13	19	-15	8.4	-17.7	-4.1	26.0	-21	-7	-0.37	0.34	-0.20	2		
TG 190039 Gx BOS 110085 G BOS 140326				96	123	101	87	111	116	101	111	102	123	81	101	117	112	114	118	103	120	109	99	113	114	111	128	117	20	12	
TG 190039				89	88	84	81	83	78	80	78	0.15	25.3	0.71	-1.2	31.8	21	124	-59	12.9	-23.0	-5.9	14.3	9	27	1.95	1.71	1.26	1	1	
TG 210071 BC 141197 TG 160022				94	101	98	101	105	99			95	101	99	98	100	97	96	94	106	107	91	114	101	96	95	90	78	2	2	
TG210071				64	66	48	21	36	44			0.78	12.8	0.00	-1.8	19.0	4	57	-33	14.5	-12.8	-2.4	23.6	2	10	0.37	-0.49	-0.93			

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.
TG 210125		BC 141197 TG 170015	84	103	106	96	105	98			87	103	96	106	104	102	95		103	105	90	118	105	98				20	5
TG 210125			76	70	47	15	34	46			1.41	14.1	0.10	0.2	22.4	9	55		12.9	-11.2	-2.1	26.1	4	11					
TG 210125											82	70	54	47	48	15	21		23	37	14	52	23	22					
TG 210198		BC 181062 TG 160049	99	93	102		106				101	93	93	102	94				102	91	122							7	7
TG210198			68	71	46		33				0.23	7.8	0.21	-0.8	14.1				-8.8	-2.3	28.5								
TG210198											73	71	51	46	50				39	14	47								
TG 210321		BA 160567 WO 170567	98	108	103	95	106	108			100	108	94	103	106	102	104	95	109	100	88	125	107	109	106	103	91	2	2
TG210321			63	64	46	22	35	43			0.31	16.9	0.19	-0.5	23.6	10	87	-34	16.4	-7.7	-1.7	30.4	6	22	1.45	0.30	-0.20		
TG210321											67	64	47	46	41	22	13	6	14	39	17	49	14	14	7	7	6		
VOVA180052		VYF 120243 VOVA140106	99	101	92	92	126	108	92	102	108	101	70	92	98	107	102	97	91	125	144	95	102	103	105	112	113	135	101
VOVA180052			95	96	91	87	90	84	87	85	-0.34	12.6	1.12	-3.6	17.4	15	80	-36	6.2	-26.9	-13.0	11.4	3	16	1.36	0.79	1.06	17	18
VOVA180052											96	96	92	91	91	87	87	86	88	91	87	92	88	88	86	86	86		
VOVA210034		V8 160085 VYF 130097	125	103	73	95	103	96	97	92	116	103	118	73	101	104	99	96	115	99	99	110	99	93	96	109	118	48	10
VOVA210034			91	88	86	84	85	80	85	81	-1.01	13.9	-0.77	-9.1	19.7	12	67	-34	19.6	-6.7	-3.8	20.9	1	7	0.47	0.64	1.32		
VOVA210034											92	88	86	86	85	84	86	82	88	85	83	86	89	88	82	82	82		
VYF 160068		BOS 100432 FXF 070210	81	108	91	90	111	93	103	90	88	108	84	91	106	109	105	96	114	121	104	104	94	92	105	115	97		13
VYF160068			70	81	71	57	64	64	36	58	1.35	16.6	0.59	-3.8	23.4	17	91	-35	19.1	-24.2	-5.0	17.1	-2	6	1.37	0.99	0.12	4	7
VYF160068											71	81	65	71	72	57	56	14	60	69	51	71	61	60	28	25	25		
WO 180535		WO 160047 WO 120056	73	109	113	94	114	107			66	109	136	113	108	103	114	97	123	108	105	119	90	103	112	123	106	80	71
WO180535			89	91	56	43	56	63			3.14	17.3	-1.49	2.3	25.5	11	122	-36	24.3	-13.9	-5.1	26.3	-4	16	2.00	1.45	0.64	3	3
WO180535											93	91	73	56	74	43	22	13	24	72	28	69	24	23	13	12	11		
WO 201125		WO 140184 WO 100122	87	116	118	82	101	106	107	102	96	116	76	118	114	118	106	89	131	95	87	119	103	108	114	107	97	16	14
WO201125			78	79	61	50	52	60	32	54	0.66	21.4	0.90	3.5	29.7	28	93	-27	28.5	-3.8	-1.5	26.4	3	21	2.25	0.54	0.10		
WO201125											82	79	63	61	62	50	43	19	46	54	39	62	45	44	25	23	23		
WO 210048		S 144231 WO 150764	85	105	114	90	117	110	87	102	86	105	138	114	112	107	98	95	90	120	112	109	91	97	101	105	102	23	19
WO210048			89	88	84	82	82	78	80	78	1.48	14.9	-1.54	2.6	28.1	16	63	-34	5.6	-23.1	-6.5	20.1	-4	10	0.97	0.38	0.41		
WO210048											90	88	84	84	84	82	81	80	81	82	80	84	81	81	80	80	80		
ZCW 170120		WO 130103 RLR 150037	106	105	100	131	88	114	96	108	104	105	102	100	103	67	100	90	113	105	61	109	84	101	104	53	84	174	128
ZCW 170120			98	97	95	95	95	88	94	89	0.00	15.3	-0.15	-1.5	21.2	-30	71	-28	18.4	-11.3	3.8	20.2	-8	14	1.26	-2.61	-0.61	36	28
ZCW 170120											98	97	96	95	96	95	96	93	97	95	94	96	97	96	95	95	95		

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	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
202004 D11 M				0627683BMA														
DWEN		SB 190765	HS 130108	100	118	114	116	110	113	99	91	112	103	102	118	114	120	115
		89182117	SB 160160	58	74	30	28	7	1.16	10.6	0.30	114	-42	42	2.59	0.91	1.45	32
						73	72	75	74	74	10	66	10		33	30	29	
202202 D11 M				0627683BMA														
DWEN		SB 210632	 SB 180519	123	98	86	79	62	117	95	115	85	78	85	88	104	91	84
		92185644	SB 160312	80	90	4	-7	-21	1.17	8.4	-0.16	19	-15		-0.37	0.34	-0.20	
						89	89	89	89	89	83	87	83	86	83	83	83	83

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																														
DL 199387		BOS 144309	91	99	113	97	96	96			95	86	117	100	99	113	109		97	101	104	101	76	106	106	97	97	98	80	75
89770309		DL 140955	62	63	57	42	43	50			14	1.52	-0.73	7	11.6	2.3	62		16.8	75	-44	11.6	11.0	-5.2	18.7	0	10	0.68	-1.07	-1.11
DL199387												64	54	42	63	57	54		58	24	11	27	44	30	55	27	26	15	14	13
SB 190765	2	HS 130108	93	118	98	94	93	100	102	96	115	102	76	105	118	98	113		120	112	103	99	104	83	100	110	116	118	114	120
89182117		SB 160160	71	74	62	56	52	58	42	55	32	0.21	0.91	13	22.5	-2.0	74		34.9	114	-42	10.6	-10.4	-0.6	15.0	7	28	2.59	0.91	1.45
SB190765												74	61	56	74	62	64		62	66	10	74	54	38	63	75	72	33	30	29
VOVA190158		VFY 160068	86	116	87	91	109	99	107	96	108	87	101	109	116	87	101		117	112	106	112	109	113	101	99	103	113	91	111
89958599		VFY 160045	79	82	79	76	78	72	76	73	75	1.40	-0.07	17	21.6	-5.1	44		32.5	115	-46	17.7	-14.2	-6.6	15.4	1	16	2.09	-0.44	0.90
19158												79	78	76	82	79	79		80	76	75	77	78	76	79	77	77	75	75	75
SB 210632	1 	SB 180519	132	98	83	121	113	123	85	114	84	127	103	82	98	83	88		97	85	78	95	113	100	118	62	79	88	104	91
92185644		SB 160312	90	90	86	85	85	80	86	81	83	-1.90	-0.18	-13	10.7	-6.2	15		16.6	19	-15	8.4	-17.7	-4.1	26.0	-21	-7	-0.37	0.34	-0.20
SB210632												91	87	85	90	86	87		86	87	83	89	86	83	87	89	89	83	83	83
HUT 240004		JM 120371	98	121	91	90	108	110	100	105	111	100	94	110	121	91	108		119	106	107	88	99	114	107	97	102	112	112	108
96883020		TG 180100	82	82	81	78	80	74	78	75	77	0.36	0.17	18	24.0	-3.9	61		34.0	92	-47	4.2	-6.4	-6.9	18.9	0	15	1.99	0.80	0.73
HUT 240004												82	80	78	82	81	80		80	79	77	80	80	78	81	80	79	77	77	77
HUT 250001		RG 210050	129	81	91	98	106	94				128	91	101	81	91	70		84	82		91	111	105	100	89	84			
99723009		HUT 210068	49	53	35	24	23	35				-2.02	0.32	8	1.0	-3.9	-28		6.4	5		6.2	-16.2	-5.1	14.6	-5	-2			
HUT 250001												53	33	24	53	35	37		26	12		13	25	15	30	13	13			
HUT 250003		VOVA180052	101	94	100	93	110	97				107	81	105	94	100	90		92	96		93	109	117	99	106	99			
99722985		HUT 220002	55	59	43	14	33	39				-0.23	0.71	13	8.7	-1.3	19		12.9	56		7.4	-14.3	-7.4	14.0	5	13			
HUT 250003												59	43	14	59	43	39		35	19		23	39	18	42	22	22			
HUT 250004		ZCW 170120	102	100	98	118	88	100	92	94	93	102	99	85	100	98	104		97	97	92	102	93	82	99	88	96	95	71	91
99586232		TG 170029	63	66	54	39	39	49	28	45	39	0.20	-0.02	-10	12.2	-1.9	52		16.8	61	-30	12.0	-2.2	-0.5	14.4	-5	10	0.32	-1.60	-0.22
HUT 250004												66	53	39	66	54	53		48	45	10	47	45	24	48	47	47	40	38	37
HUT 260038	1	VOVA210034	105	104	88	99	97	94	95	89	94	103	104	99	104	88	93		104	97	94	103	97	95	104	96	94	97	102	106
6020838170		HUT 230025	51	48	37	29	30	36	24	34	10	0.07	-0.21	6	14.2	-4.7	25		22.0	62	-32	12.9	-4.7	-3.0	17.1	-1	7	0.58	0.22	0.63
HUT 260038												54	39	29	48	37	38		38	38	5	43	31	20	38	43	42	11	10	9
HUT 260044		HUT 240003	97	97	103	102	79	82				98	98	96	97	103	100		94	90		86	81	96	76	91	92			
6020838196			26	27	25	15	19	21				0.54	0.04	3	10.5	-0.4	42		14.7	37		3.2	7.5	-3.2	0.1	-4	5			
HUT 260044												27	23	15	27	25	22		22	19		21	22	12	23	21	21			

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

Value <80	Value >120
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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		
TG 170029	88461215		BA 120135	93	97	98	99	87	80			85	95	98	99	97	98	93		93	91		87	81	104	85	89	88	81	87	96	
	170029			65	65	68	28	40	50			8	0.78	0.04	6	10.1	-2.0	26		13.5	39		4.0	7.1	-4.8	5.2	-5	2	-0.98	-0.63	0.08	
													67	60	28	65	68	54		44	20		23	51	22	48	22	21	8	7	7	
TG 190118	89139471		BA 150312	94	94	120	108	99	105			86	102	76	93	94	120	112		94	87	84	79	114	84	102	114	97	87	100	83	
	89139471		TG 160026	64	62	56	26	47	48			16	0.15	0.89	-1	8.4	4.1	69		14.4	24	-22	-1.1	-18.6	-0.9	16.2	10	11	-0.46	0.12	-0.66	
	TG190118												66	57	26	62	56	48		46	22	14	37	60	26	55	24	23	16	15	14	
HUT 200039	96539176			110	104	114							110	97		104	114			105					105							
	20 039			34	24	36							-0.48	0.08		14.7	2.5			23.1					17.6							
													33	38		24	36			11					26							
HUT 210068	96539218			124	77	89							120	103		77	89															
	21 068			25	24	37							-1.32	-0.19		-1.2	-4.4															
													24	28		24	37															
HUT 220001	97982961			105									108	88											89							
	HUT220001			25									-0.30	0.42											8.0							
													24	27											21							
HUT 220002	97983068			106	84	110							108	91		84	110	91							97							
	HUT220002			25	25	37							-0.32	0.32		2.8	1.3	20							13.1							
													24	28		25	37	21							21							
HUT 220004	97982987			96	87	115							102	81		87	115	98							95							
	HUT220004			25	25	37							0.16	0.71		4.4	2.8	38							11.8							

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																													
HUT 230025 96998695 HUT 230025	2	SB 190765 DL 199327	86 58	104 61	104 45	105 35	92 35	93 44	93 24	88 40	93 17	90 1.16 62	90 0.34 44	94 1 35	104 14.5 61	104 -0.4 45	109 62 47	107 24.2 50	96 57 35	92 -31 8	91 6.2 39	94 -2.8 35	91 -2.2 25	98 13.3 46	92 -3 40	94 8 38	98 0.69 18	95 -0.20 16	94 -0.06 16
HUT 230031 96636246 HUT 230031		SB 190765 HUT 200029	112 51	95 53	100 37	98 28	90 27	92 37	89 20	86 34	94 16	116 -0.96 55	85 0.52 36	100 7 28	95 9.5 53	100 -1.5 37	93 26 39	96 15.6 40	96 56 33	96 -35 5	93 7.3 37	99 -6.5 27	86 -1.2 19	96 12.4 36	104 4 38	100 14 36	96 0.44 16	94 -0.27 15	86 -0.52 14
HUT 230053 96636253 HUT 230053		SB 190765 HUT 200039	98 52	119 53	102 37	83 28	100 27	105 37	108 20	102 34	118 16	102 0.19 56	87 0.46 38	117 27 28	119 23.1 53	102 -0.8 37	112 70 39	120 34.2 40	117 135 33	114 -54 5	110 17.0 37	101 -8.2 27	99 -3.8 19	102 16.3 35	121 13 38	122 34 36	119 2.75 16	100 0.10 15	99 0.22 14
HUT 240003 96790399 HUT 240003		JM 120371 TG 170029	90 52	111 54	100 50	91 29	89 38	90 42	95 23	85 38	105 7	91 1.11 54	99 -0.03 46	107 15 29	111 18.6 54	100 -1.3 50	107 59 44	108 25.1 44	103 85 38		89 4.8 42	80 8.2 44	103 -4.7 23	91 9.4 46	92 -3 43	100 13 42	104 1.22 8	102 0.20 6	105 0.58 6
HUT 240005 97811533 HUT 240005		ZCW 170120 HUT 210068	115 49	91 49	94 45	123 37	88 33	99 39	83 28	91 37	82 39	112 -0.66 50	103 -0.17 45	79 -17 37	91 7.1 49	94 -3.0 45	93 26 44	90 10.9 42	87 24 44	86 -23 10	98 9.8 46	101 -8.1 37	73 1.3 21	102 15.8 40	88 -6 46	89 3 46	86 -0.51 40	63 -2.06 38	66 -1.62 37
HUT 240006 97811541 HUT 240006	1	ZCW 170120 DL 199327	91 56	103 58	100 52	120 42	89 40	100 46	95 29	95 43	92 40	91 1.10 58	103 -0.19 51	81 -14 42	103 13.7 58	100 -1.3 52	111 69 51	100 19.4 52	97 62 46	94 -32 11	104 13.6 48	92 -1.2 43	82 -0.5 27	102 16.1 50	87 -6 48	95 9 47	98 0.70 41	66 -1.88 38	78 -0.93 38
HUT 240007 98300155 HUT 240007		ZCW 170120 TG 190118	100 56	100 57	110 50	121 39	93 40	110 45	88 30	103 42	91 40	103 0.08 58	89 0.37 51	80 -16 39	100 11.8 57	110 1.3 50	117 82 49	98 17.8 48	93 47 45	87 -25 12	96 8.6 49	110 -15.0 48	73 1.4 25	105 18.2 48	99 1 48	99 12 47	95 0.40 41	77 -1.25 38	84 -0.63 38
HUT 240028 97811590 HUT 240028		HUT 200102	101 42	83 12	112 18							104 0.04 47	92 0.25 23		83 2.2 12	112 1.9 18		82 4.8 6					76 -0.3 13						
TG 240070 97167951 TG240070	3	WO 180535 WO 110284	99 66	100 59	97 51	110 32	109 41	108 46			92 10	93 0.91 69	121 -0.87 54	92 -2 32	100 12.0 59	97 -2.3 51	99 40 47	98 17.7 48	95 55 21	84 -22 10	104 13.1 23	104 -10.8 49	108 -5.7 25	109 20.1 50	83 -9 23	89 3 22	92 0.11 11	119 1.21 10	99 0.24 10
TG 240114 97342984 TG240114		WO 210048 TG 210144	77 60	111 52	112 37	90 24	110 33	104 39			98 8	75 2.41 65	112 -0.52 44	108 16 24	111 18.3 52	112 1.9 37	116 79 38	113 28.9 40	100 72 18	100 -39 9	98 10.2 19	112 -16.5 37	103 -4.6 20	110 21.0 41	102 3 19	101 14 19	99 0.76 9	102 0.25 8	103 0.44 8
TG 240126 97343107 TG240126		TG 210198 TG 210105	98 58	94 61	93 39	104 15	101 30	91 39			78 6	98 0.49 63	101 -0.09 42	95 2 15	94 8.5 61	93 -3.3 39	88 13 38	92 13.1 36	80 0 11		88 4.2 12	106 -12.3 37	88 -1.7 16	111 21.5 38	88 -6 12	84 -2 12	76 -1.54 7	93 -0.30 6	84 -0.59 6
TG 240197 97531636 TG240197		TG 210125 TG 210256	98 58	98 58	101 36	98 14	103 27	97 37			87 9	101 0.24 63	89 0.37 41	100 7 14	98 10.8 58	101 -1.0 36	97 35 36	99 18.3 31	92 42 15		95 8.5 16	105 -11.7 32	90 -2.0 12	113 22.9 36	102 2 17	92 6 16	88 -0.30 9	85 -0.75 9	71 -1.35 8

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																														
TG 240226		WO 201125	78	112	106	87	101	94			104	84	87	113	112	106	110		110	102	88	116	108	85	110	100	103	106	107	102
97531875		TG 190157	61	62	44	27	36	43			12	1.64	0.44	22	19.2	0.4	66		26.4	79	-26	20.2	-13.8	-1.1	21.3	2	16	1.48	0.54	0.41
TG240226												65	48	27	62	44	44		41	24	10	26	40	25	44	25	25	13	12	12
TG 240235		TG 200175	119	89	99	111	100	104				117	99	91	89	99	89		90	83		88	103	101	99	87	86			
97704498			51	52	31	18	25	34				-1.10	-0.01	-3	5.6	-1.8	16		11.2	12		4.1	-9.6	-4.3	14.1	-6	0			
TG240235												56	35	18	52	31	34		24	10		14	29	15	30	12	11			
TG 240244		BA 160238	100	94	112	102	93	96			79	99	102	96	94	112	104		88	78	80	89	96	95	94	90	84	80	93	85
97704589		TG 170022	59	58	43	24	32	41			10	0.39	-0.13	2	8.9	2.0	52		9.6	-9	-17	4.8	-4.3	-3.2	10.9	-5	-1	-1.12	-0.33	-0.55
TG240244												62	47	24	58	43	42		36	20	6	24	33	18	44	21	21	10	9	8
TG 240271		TG 190039	107	105	104	96	109	113			96	109	90	102	105	104	106		102	97		95	113	108	104	102	99	95	107	93
97704837		TG 160008	60	59	47	19	31	41			6	-0.44	0.33	10	14.9	-0.3	55		20.6	62		8.5	-17.3	-5.7	17.1	2	12	0.32	0.53	-0.12
TG240271												63	48	19	59	47	42		30	16		18	32	18	44	18	17	6	5	5
TG 240276	28	BA 150312	99	91	118	115	101	110	77	100	86	106	80	86	91	118	110		93	84	71	67	123	81	102	114	96	88	120	109
97704886		TG 190143	65	65	52	29	45	48	22	43	17	-0.14	0.75	-8	7.0	3.5	66		13.6	13	-7	-8.0	-25.3	-0.3	16.3	9	10	-0.35	1.26	0.80
TG240276												68	56	29	65	52	49		46	25	16	42	52	31	51	27	26	18	16	16
TG 240295		TG 210071	88	96	104	110	95	94			85	94	86	91	96	104	102		96	87	84	89	106	75	110	103	92	87	94	79
97705057		TG 210278	57	59	39	17	30	38			8	0.86	0.51	-3	10.0	-0.2	47		16.2	25	-22	4.6	-12.0	1.0	21.0	3	5	-0.44	-0.24	-0.89
TG240295												61	42	17	59	39	38		34	16	7	23	35	18	38	18	17	9	8	8
TG 240348		TG 210321	109	104	95	93	104	102				110	93	105	104	95	96		101	100	99	103	101	91	117	107	102			
98381312		TG 200159	56	58	39	17	29	38				-0.48	0.21	13	14.2	-2.7	33		20.0	73	-39	12.6	-8.0	-2.3	25.5	6	15			
TG240348												61	40	17	58	39	38		31	11	6	12	34	15	38	12	11			
TG 240361	6	BA 160238	98	106	105	91	104	103			89	95	109	107	106	105	106		95	80	70	96	103	107	101	93	93	91	113	116
97896922		TG 190053	61	63	47	33	39	46			12	0.72	-0.40	15	15.5	0.1	56		15.1	-1	-7	8.7	-9.6	-5.5	15.4	-3	6	0.01	0.85	1.22
TG240361												65	49	33	63	47	48		44	26	9	30	43	26	48	28	27	12	11	11
TG 240363		TG 190039	97	105	106	93	104	102			96	102	85	105	105	106	106		101	99		97	106	99	105	108	102	94	101	85
97896948		TG 180177	57	57	43	19	29	39			6	0.20	0.55	13	14.8	0.3	56		19.9	68		9.4	-12.2	-3.9	17.8	6	15	0.30	0.15	-0.57
TG240363												61	45	19	57	43	40		29	16		18	28	17	42	18	17	6	5	5
HUT 250002		VOVA180052	87	99	105	94	108	97				95	79	103	99	105	100		97	94		92	107	118	95	104	97			
99723025		HUT 220004	55	59	43	14	33	39				0.74	0.76	11	11.7	-0.1	42		16.6	50		6.6	-13.3	-7.6	11.6	4	11			
HUT 250002												59	43	14	59	43	39		35	19		23	39	18	41	22	22			
HUT 250005		VOVA210034	110	96	89	100	100	92	88	86	86	106	110	99	96	89	85		94	89		102	90	104	105	95	89	87	95	95
99723017		CR 210022	60	62	43	29	31	42	24	38	6	-0.12	-0.44	5	9.5	-4.6	6		14.6	33		12.1	0.4	-4.8	18.1	-1	3	-0.39	-0.21	-0.01
HUT 250005												64	45	29	62	43	45		41	39		44	34	18	42	44	43	6	6	5
HUT 250011		SB 210632	91	118	91	90	116	110	114	108	107	88	113	110	118	91	105		119	112	100	109	116	119	106	98	108	112	91	99
99584609		HUT 220028	82	83	80	79	79	74	79	75	78	1.36	-0.56	18	22.4	-4.0	54		33.4	115	-39	16.0	-19.7	-7.8	18.2	0	21	1.99	-0.44	0.25
HUT 250011												83	80	79	83	80	81		79	80	78	80	79	78	80	80	80	78	78	78

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		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
HUT 250026	99584641	SB 210632										109	112	102	112	95	106	112	105	99	100	112	127	108	98	104	107	117	107
	HUT 220010											-0.39	-0.51	10	19.1	-3.0	55	28.0	90	-38	10.9	-17.2	-9.5	20.0	0	18	1.50	1.09	0.70
	HUT 250026											82	79	78	82	79	80	79	79	77	80	79	78	80	80	79	77	77	77
HUT 250029	99584658	HUT 200039										122	91	127	119	96	103	121	125	117	120	112	129	93	115	125	125	100	110
	HUT 250029											-1.47	0.32	38	23.2	-2.6	49	35.1	164	-58	22.4	-17.2	-9.9	10.5	10	37	3.33	0.13	0.87
												79	77	76	77	77	77	76	76	76	76	76	76	77	76	76	76	76	76
HUT 260025	6020620198	TG 190118										103	86	89	88	113	102	88	82	85	81	98	86	82	102	90	76	97	90
	HUT 260025											0.07	0.50	-6	5.4	2.3	47	9.4	6	-23	0.2	-5.9	-1.3	3.5	3	4	-1.54	-0.09	-0.25
												33	29	13	31	28	24	24	11	7	19	30	13	27	12	11	8	7	7
HUT 260042	6020838188	HUT 230031										110	90	92	89	103	93	88	86		88	90	87	79	97	92	80	93	92
	HUT 260042											-0.49	0.32	-2	6.0	-0.5	25	10.0	23		4.4	0.2	-1.4	1.6	0	6	-1.09	-0.28	-0.18
												27	18	14	27	19	20	20	16		18	14	10	18	19	18	8	7	7

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	
1	SB 210632	SB210632	SB 180519	SB 160312	1.2	PcH	0	0	0		132 90	98 90	83 86	121 85	113 85	123 80	85 86	114 81	
1	HUT 240004	HUT 240004	JM 120371	TG 180100	0.0	HH	1	0	0		98 82	121 82	91 81	90 78	108 80	110 74	100 78	105 75	
1	SB 190765	SB190765	HS 130108	SB 160160	1.8						93 71	118 74	98 62	94 56	93 52	100 58	102 42	96 55	
1	DL 199387	DL199387	BOS 144309	DL 140955	0.0						91 62	99 63	113 57	97 42	96 43	96 50			
2	VOVA190158	19158	VYF 160068	VYF 160045	0.3	PcH	1	0	0		86 79	116 82	87 79	91 76	109 78	99 72	107 76	96 73	

Selection List on Cow Value

Cows 2 years and older

ID	Name	Sire ID	Dam ID	% Inbreeding	Myostatin Horned / Polled nt821 Q204X F94L 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	
Sorted on ID														
										★★★★★				
1	HUT 240007	HUT 240007	ZCW 170120	TG 190118	0.0	100 56	100 57	110 50	121 39	93 40	110 45	88 30	103 42	
2	TG 240271	TG240271	TG 190039	TG 160008	0.0	107 60	105 59	104 47	96 19	109 31	113 41			
3	TG 240276	TG240276	BA 150312	TG 190143	28.1	99 65	91 65	118 52	115 29	101 45	110 48	77 22	100 43	
										★★★★★				
1	HUT 230053	HUT 230053	SB 190765	HUT 200039	0.0	98 52	119 53	102 37	83 28	100 27	105 37	108 20	102 34	
2	HUT 240006	HUT 240006	ZCW 170120	DL 199327	1.4	91 56	103 58	100 52	120 42	89 40	100 46	95 29	95 43	
3	TG 190118	TG190118	BA 150312	TG 160026	0.0	94 64	94 62	120 56	108 26	99 47	105 48			
4	TG 240070	TG240070	WO 180535	WO 110284	3.0	99 66	100 59	97 51	110 32	109 41	108 46			
5	TG 240114	TG240114	WO 210048	TG 210144	0.0	77 60	111 52	112 37	90 24	110 33	104 39			
6	TG 240235	TG240235		TG 200175	0.0	119 51	89 52	99 31	111 18	100 25	104 34			
7	TG 240348	TG240348	TG 210321	TG 200159	0.2	109 56	104 58	95 39	93 17	104 29	102 38			
8	TG 240361	TG240361	BA 160238	TG 190053	5.8	98 61	106 63	105 47	91 33	104 39	103 46			
9	TG 240363	TG240363	TG 190039	TG 180177	0.0	97 57	105 57	106 43	93 19	104 29	102 39			
										★★★★★				
1	HUT 230022	HUT 230022	SB 190765	HUT 200103	0.0	103 52	98 53	97 37	109 28	90 28	95 37	82 20	87 34	
2	HUT 230025	HUT 230025	SB 190765	DL 199327	1.6	86 58	104 61	104 45	105 35	92 35	93 44	93 24	88 40	
3	HUT 230031	HUT 230031	SB 190765	HUT 200029	0.0	112 51	95 53	100 37	98 28	90 27	92 37	89 20	86 34	
4	HUT 240003	HUT 240003	JM 120371	TG 170029	0.1	90 52	111 54	100 50	91 29	89 38	90 42	95 23	85 38	
5	HUT 240005	HUT 240005	ZCW 170120	HUT 210068	0.0	115 49	91 49	94 45	123 37	88 33	99 39	83 28	91 37	
6	TG 240126	TG240126	TG 210198	TG 210105	0.0	98 58	94 61	93 39	104 15	101 30	91 39			
7	TG 240197	TG240197	TG 210125	TG 210256	0.0	98 58	98 58	101 36	98 14	103 27	97 37			
8	TG 240226	TG240226	WO 201125	TG 190157	0.0	78 61	112 62	106 44	87 27	101 36	94 43			
9	TG 240244	TG240244	BA 160238	TG 170022	0.0	100 59	94 58	112 43	102 24	93 32	96 41			
10	TG 240295	TG240295	TG 210071	TG 210278	0.0	88 57	96 59	104 39	110 17	95 30	94 38			
										★★★★★				
1	HUT 220028	HUT 220028		DL 199483	0.0	82 40	106 37	103 43	91 11	97 19	89 28			

Selection List on Cow Value

Cows 2 years and older

ID Name Sorted on ID		Sire ID	Dam ID	% Inbreeding	Myostatin Horned / Polled nt821 Q204X F94L 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	
						★★★★★								
2	HUT 230015 HUT 230015	SB 190765	HUT 200102	0.0		9552	10253	10737	9328	9028	8937	9420	8434	
3	TG 170029 170029		BA 120135	0.0		9365	9765	9868	9928	8740	8050			

Selection List on Cow Value

Bull Calves younger than 2 years

IDName 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	
1 HUT 250004 HUT 250004			ZCW 170120	TG 170029	0.0						10263	10066	9854	11839	8839	10049	9228	9445	
1 HUT 250001 HUT 250001			RG 210050	HUT 210068	0.0						12949	8153	9135	9824	10623	9435			
2 HUT 250003 HUT 250003			VOVA180052	HUT 220002	0.0						10155	9459	10043	9314	11033	9739			
3 HUT 260038 HUT 260038			VOVA210034	HUT 230025	1.3						10551	10448	8837	9929	9730	9436	9524	8934	
1 HUT 260044 HUT 260044				HUT 240003	0.0						9726	9727	10325	10215	7919	8221			

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	HUT 250026	HUT 250026	SB 210632	HUT 220010	0.0	HH	0	0	0		114	81	112	82	95	79	96	78	120	79	125	73	99	78	119	74	
											★★★★★																
1	HUT 250011	HUT 250011	SB 210632	HUT 220028	0.5	HH	0	0	0		91	82	118	83	91	80	90	79	116	79	110	74	114	79	108	75	
2	HUT 250029	HUT 250029		HUT 200039	0.0	HH	0	0	0		121	79	119	77	96	77	77	76	114	76	119	70	118	76	117	71	
											★★★★★																
1	HUT 250002	HUT 250002	VOVA180052	HUT 220004	0.0						87	55	99	59	105	43	94	14	108	33	97	39					
2	HUT 250005	HUT 250005	VOVA210034	CR 210022	0.2						110	60	96	62	89	43	100	29	100	31	92	42	88	24	86	38	
3	HUT 260025	HUT 260025		TG 190118	0.0						99	32	88	31	113	28	113	13	84	23	91	24					

	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.

