

TULI

GENOMIC BREEDING VALUE REPORT

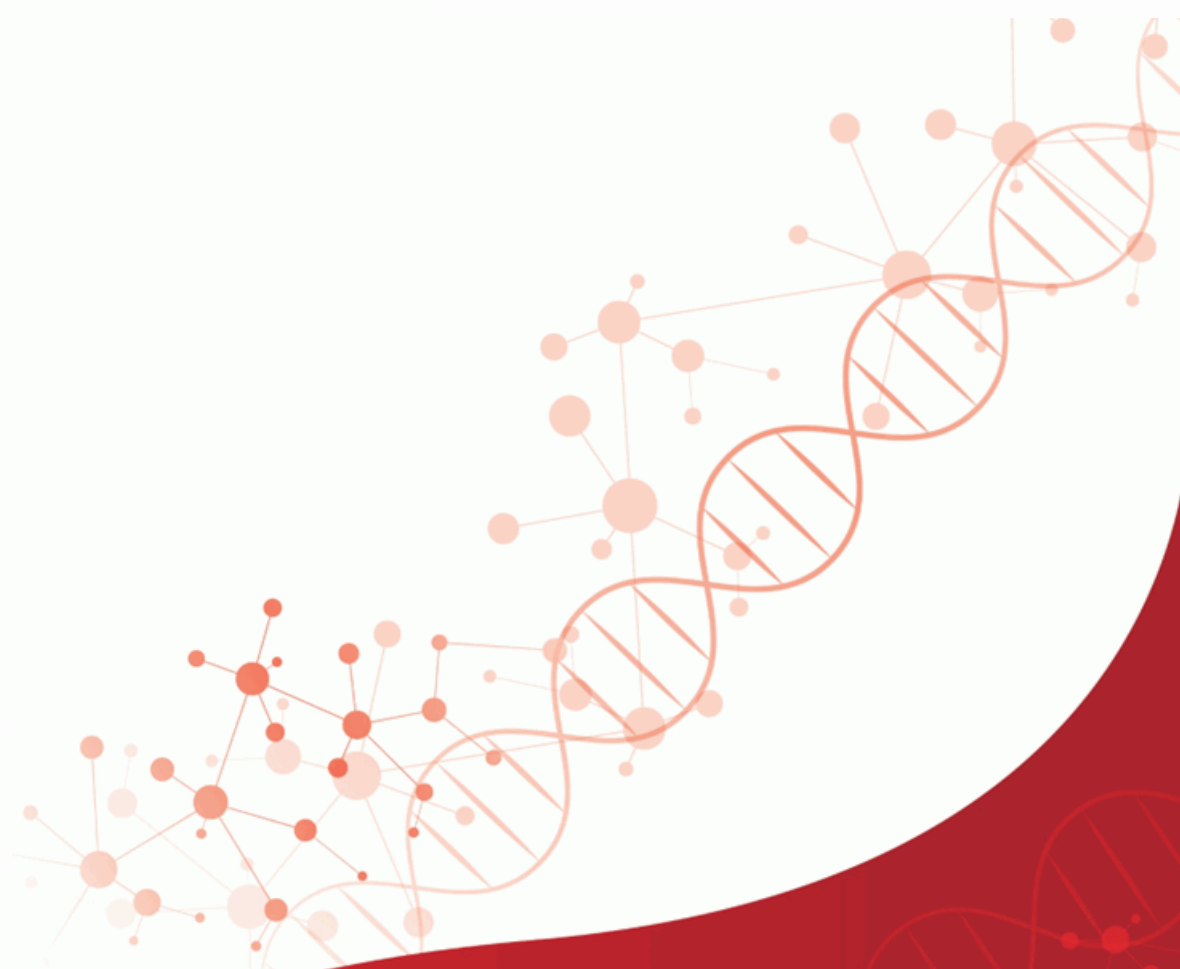
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BONNEFOI TULI STUD

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SA Stud Book's breeding value analyses are at a very high standard and are internationally accredited. The models were adjusted to enable a more precise determination of current breeding values.

Genomic Breeding Values (GEBVs)



Genomically analyzed animals are marked with the accompanying logo. Older animals with accurate breeding values (Reference Population) are used to determine the relationship between the SNP markers and the breeding values, which are unique to each breed. Production measurements, pedigrees and genomic information are used to estimate Genomic Breeding Values (GEBVs). Genomically tested young animals therefore have extra information with which breeding values can be estimated especially for complex traits such as fertility and milk.

 Parentages can be determined very accurately with 50 000 markers, instead of the 15-30 markers with previous DNA tests, provided that the parent has also been genomically tested. Parentages are indicated as follows in this report:

- ☐ The parent has not been tested, and the parentage cannot therefore be confirmed genomically.
- ☒ Parentage is genomically correct
- ☒ Parentage conflict. If the correct parent has been genomically tested, SA Studbook will contact you. If the breeder of the animal confirms that the genomically designated parent was also on the farm at the time of mating, the parentage can be corrected. Please work extremely carefully when collecting and marking hair samples, otherwise the test must be repeated. If there are any queries, please contact Jason Reding at jason@studbook.co.za

Update to the Evaluation

Best scientific practice and technological improvements have made it possible to update the Genomic Evaluation as follows:

1. **Previous Calf:** A cow whose previous calf died or was not weaned will have its cow fertility and current calf's weaning weight penalized.
2. **The age adjustment** is within the contemporary group for weaning weight and growth traits instead of across the breed as before. This adjustment may affect some herds more than others.
3. **Mature Weight EBV/Maintenance Value** uses all of the cow's weights at weaning as a repeated measurement, not just the first 3 measurements as before. The EBV appears as Cow Weight Weaning on the report.

New breeding values

- **Cow weight at birth of the calf**
- **Cow weight at weaning of the calf**
- **Cow-Calf Ratio at birth of the calf.** The Cow-Calf ratio is calculated with breeding values.
- **Cow-Calf Ratio at weaning of the calf.** The Cow-Calf ratio is calculated with breeding values.
- **Veld growth breeding value:** The growth rate and adaptability from weaning to year or 18 months for animals in Phase B on the veld.
- **Skin thickness:** Skin thickness is an indication of adaptation, where thicker skins protect the animal more against ticks as well as heat (due to an increase in blood vessels in the skin)



EBVs, EBVi's and GEBVs

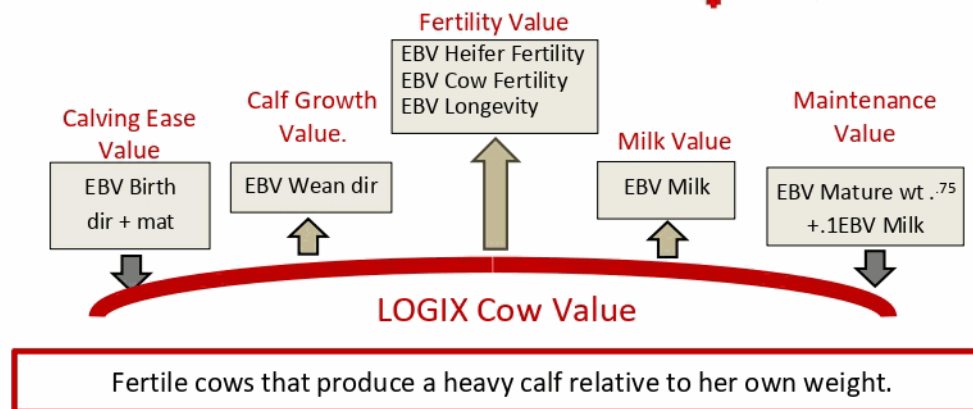
EBVi (Breeding Value Index): Genetic potential relative to the average (100) of the live animals in the breed. Roughly 50% of the animals have values between 90 and 110. Values above 100 tend to be in the more favourable direction.

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

GROWERS

(GOOD ENVIRONMENT)

- Calf Growth / Growth Value > 120
- Cow Value and Fertility Value average to high

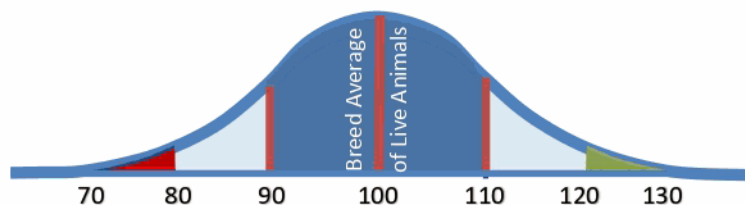
Growers are usually heavier at birth (lower Calving Ease Value), and maturity (lower Maintenance Value).

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

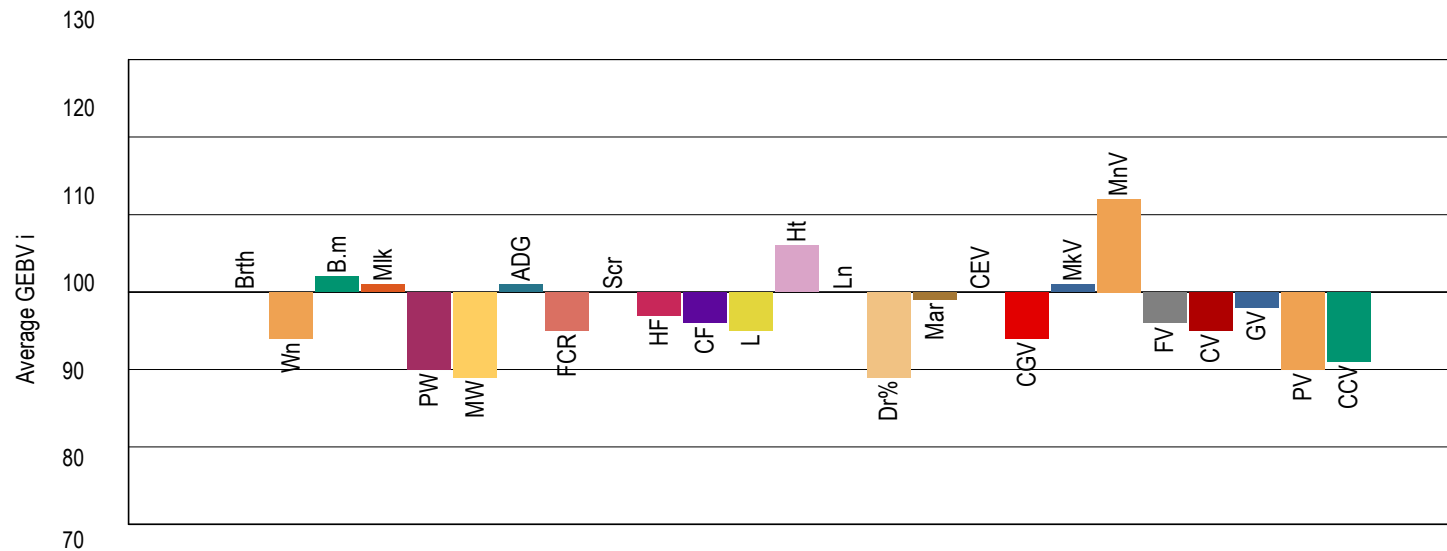


Examples

Type of Animal	Cow Value	Calving Ease V	Calf Growth 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

	EBVi	Description / Measurement	Goal	High Value	Low 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)	Profitable cows	Loss	Profit
	Growth Value	Efficient growth on veld and in feedlot (Rand-value)	Profitable growth	Loss	Profit
	Production Value	Combination of Cow- and Growth Values (Rand-value)	Profitable animals	Loss	Profit
	Carcass Value	Meat on carcass (Weight and RTU EBVs)	Meat on carcass	Less	More
Birth	Cow weight - birth	Cow weight at birth of calves	Mature cow weight	Light	Heavy
	Birth weight direct	Birth weight (Calf's genetic ability)	Average birth weight	Heavy	Light
	Cow-Calf birth	EBV Birth dir / EBV Mature cow weight	Average	Low	High
Wean	Cow Weight wean	Cow weight at weaning of calves	Mature cow weight	Light	Heavy
	Weaning weight direct	Weaning weight (Calf's genetic ability)	Heavy weaners	Light	Heavy
	Weaning weight mat	Weaning weight (Dam's genetic ability)	Good mothers	Poor	Good
	Cow-Calf Wean	EBV Wean dir / EBV Mature cow weight	High cow-calf ratio	Low	High
Growth & Adaptation	Post-Wean weight	12- and 18mnth weights	Post-wean growth	Low	High
	Ave. Daily Gain	Average daily gain in growth test (Phase C and D)	Good growth	Poor	Good
	Veld Growth	ADG on veld (Phase B)	Good adaptation	Poor	Good
	Feed Conversion Ratio	100g feed intake / g weight gain	Feed Efficiency	Poor	Good
	Final Test Weight	Final weight in growth test (Phase C and D)	Heavy Carcasses	Light	Heavy
	Skin Thickness	Measured in growth tests	Thicker skin	Thick	Thin
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	<1	>1
Carcass	Eye Muscle Area	RTU Eye muscle area	Bigger steaks	Small	Big
	Fat	RTU P8 Backfat Thickness	Carcass quality	Thin	Thick
	Marbling	RTU % Marbling	Juicy meat	Low	High
	Dressing%	Carcass weight / Live weight	High dressing %	Low	High

Herd and Breed Averages



Genomic Breeding Values (GEBVs):

Brth:	Birth weight	Scr:	Scrotal circumf.
Wn:	Weaning weight	HF:	Heifer Fertility
B.m:	Birth maternal	CF:	Cow Fertility
Mlk:	Milk	LL:	Longevity
PW:	Post-wean weight	Ht:	Height
MW:	Mature weight	Ln:	Length
ADG:	Average Daily Gain	Dr%:	Dressing%
FCR:	Feed Conversion Ratio	Mar:	Marbling

Selection Values:

CEV:	Calving Ease Value
CGV:	Calf Growth Value
MkV:	Milk Value
MnV:	Maintenance Value
FV:	Fertility Value
CV:	Cow Value
GV:	Growth Value
PV:	Production Value
CCV:	Carcass Value

	Trait	EBV Herd	EBVi Herd	EBV Breed
Prewrite Growth	Birth Weight	1.01	100	0.98
	Wean Weight	4.2	94	6.6
	Birth Mat.	-0.01	102	0.05
	Milk (Wn.Mat.)	2.0	101	1.7
Postwean Growth	Postwean Wt	5.3	90	10.3
	Mature Weight	6	89	18
	ADG	89	101	87
	FCR	-12	95	-17
Fertility	Scrotal Circumf.	12.5	100	12.7
	Heifer Fertility	-4.0	97	-5.5
	Cow Fertility	-2.0	96	-2.6
	Longevity	15.4	95	18.5
Frame	Height	18	106	14
	Length	22	100	23
Carcass	Dressing%	-0.11	89	0.04
	Marbling	-0.10	99	-0.02

Selection Value	Ave. Herd
Calving Ease	100
Calf Growth	94
Milk	101
Maintenance	112
Fertility	96
Cow Value	95
Growth Value	98
Production Value	90
Carcass Value	91

- 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 earlier and/or more regularly.

Genetic Windows

Bulls on the farm

Bulls born in and earlier

Total:

130
120
110
100
90
80
70

130
120
110
100
90
80
70

Sires of young animals

Sires of animals 3 years and younger

Total:

130
120
110
100
90
80
70

130
120
110
100
90
80
70

Bull calves

Bulls born in

Total:

130
120
110
100
90
80
70

130
120
110
100
90
80
70

Cow Herd

Cows born in and earlier

Total:

Cows older than 6 years

Cows born in and earlier

Total:

Heifer calves

Heifers born in

Total:

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	FCR	Scrotal Circumf.	Heifer Fertility	Cow Fertility	Longevity	Height	Length	
Cows in Breed Average:			100	99	100	101	100	100	99	99	100	99	100	100	99	99	100	100	100	100	100	100	100	100	100
2012	4	★★★★	97	93	98	116	97	91	88	85	94	93	110	98	85	85	105	108	103	97	99	91	108	102	
2013	1	★★★★	94	93	118	110	91	97	91	95	96	93	93	118	91	88	97	108	109	97	89	96	108	101	
2014	4	★★★★	108	92	104	112	98	98			108	92	100	104	89	89	95	104	96	97	99	95	104	97	
2016	10																								
2017	4																								
2018	12																								
2019	8																								
2020	5																								
2021	4																								
2022	1																								
Cows in Herd Average:			100	93	107	113	95	95	90	90	99	93	101	107	88	87	99	108	103	97	96	94	107	100	

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		Dir	Mat	Calv. Ease	Weaning Weight		Calf Growth	Milk (Wn.Mat.)	Milk	Postwean Weight		Mature Weight		Maintenance	Heifer Fert.		Cow Fert.			Longevity		Fertility
	Number	EBV				Number	EBV		Number		EBV	Number	EBV	Number		EBV	Number	EBV	Number		EBV	Number	

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	Milk	Number	EBV	Number		EBV	Number	EBV	Number	EBV	Number		EBV	Number	EBV	
2016	2171	0.80	0.07	102	1651	4.3	94	1651	0.30	96	1062	6.3	383	12	108	427	-4.6	355	-1.9	2663	10.5	96	92		
2017	2227	0.92	0.08	101	2114	4.8	96	2114	1.03	98	1376	8.0	385	14	105	484	-3.1	392	-2.2	2793	11.1	96	93		
2018	2263	0.86	0.09	101	1983	5.2	96	1983	0.89	97	1247	8.7	467	15	104	513	-4.0	441	-1.9	2879	11.5	96	95		
2019	2067	0.96	0.10	100	1915	5.4	97	1915	0.55	96	1206	8.8	490	15	103	538	-3.2	421	-2.1	2873	11.9	96	93		
2020	2001	1.00	0.06	100	1997	6.1	99	1997	0.67	97	1278	9.9	436	17	101	515	-4.1	393	-2.4	2685	12.8	97	95		
2021	2357	0.92	0.01	101	2345	6.1	99	2345	0.95	98	1597	9.4	428	19	101	497	-5.2	348	-2.8	2806	14.4	100	98		
2022	2347	0.95	0.03	101	2331	6.1	99	2331	0.79	97	1400	9.4	316	18	102	440	-5.2	75	-2.2	341	12.3	100	97		
2023	2368	0.91	0.05	101	2344	6.5	100	2344	1.08	98	1429	10.3	25	23	100	74	-4.4	1	-5.9			100	99		
2024	2354	0.91	0.02	101	2094	6.9	101	2094	1.17	98	1134	11.4			99								101		
2025	2407	0.84	0.04	102	1100	8.6	105	1100	1.49	99	132	12.6			96								104		
2026	165	1.01	0.12	99																					

Genetic Trends for Growth Test and Carcass Traits

Herd

Birth Year	Growth												Frame						Carcass						Selection Values			
	FCR			ADG			Veld Growth			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	Number	EBV	EBVi	RTU Number	EBV	EBVi	EBV	EBVi	EBV	EBVi			

Breed

Birth Year	Growth												Frame						Carcass						Selection Values			
	FCR			ADG			Veld Growth			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	Number	EBV	EBVi	EBV	EBVi	EBV	EBVi	EBV	EBVi				
2017	19	-21	105	151	89	101	1148	22	98	151	12.9	101	151	14	100	151	23	100	97	0.30	101	-0.05	107	0.33	103	104	98	98
2018	4	-20	103	147	78	95	1070	21	98	147	14.0	103	147	13	98	147	20	96	114	0.10	98	-0.40	102	-0.03	100	96	94	94
2019				155	85	99	987	21	98	155	13.4	101	155	14	99	155	22	99	87	0.36	101	-0.56	100	0.34	103	103	96	93
2020				242	92	102	966	22	98	259	13.6	102	260	16	103	260	24	103	185	0.41	102	-0.55	100	0.45	104	105	99	99
2021				213	95	104	1303	23	99	212	14.4	104	213	15	102	213	25	104	192	0.53	104	-0.28	104	0.67	106	107	101	102
2022				233	98	105	1090	25	99	233	16.0	107	233	16	104	233	25	104	199	0.38	102	-0.33	103	0.39	103	106	101	100
2023				205	90	102	1157	25	100	216	14.9	105	209	15	101	209	24	103	216	0.40	102	-0.23	104	0.17	102	104	99	101
2024				158	103	108	890	28	101	158	16.0	107	177	17	105	177	27	107	151	0.57	104	-0.44	102	0.17	102	110	103	101
2025				8	99	106	110	29	101	8	14.7	104	17	13	98	17	24	103	13	0.24	100	0.19	110	0.14	101	107	100	99
2026																												

Sires

Bull				Selection Values										Birth			Wean				Grwth & Adaptation					Fertility				Raam		Carcass				Progeny	
Index EBV Acc	Genomic	Sire ID Dam ID	Comp.nr	Calv. Ease V	Calf Growth V	Milk Value	Maint. V	Fertility V	Cow Value	Growth Value	Prod. Value	Carcass V	Cow wt brth	Birth wt	Cow-Calf birth	Cow wt wean	Wean wt	Wean mat	Cow-Calf wn	Post wn wt	ADG	Veld growth	FCR	Skin Thickn	Scrotum	Heifer Fert	Cow Fert.	Longevity	Height	Length	EMA	Fat	Marbling	Dress %	Birth	Wean	
																																					Grwth Test
R 090084 69970408		R 040057 R 070058		128	66	103	146	101	91	87	88	66	56	126	95	58	66	103	94	67	72	106	82	93	77	82	107	82	73	60	82	89	93	80	86	66	
				95	95	90	88	78	85	77	83	78	-23	-1.23	0.4	-29	-7.4	2.6	20	-7.1	32	41	-1	-0.15	1.9	3.6	-3.8	7.0	-1	-3.2	-1.07	-1.35	-0.82	-0.23			
SW 060039 63613590		AJB 020021 HT 990005		107	91	119	111	112	114	81	107	90	91	105	103	86	91	119	118	86	95	103	114	105	123	119	107	89	108	99	86	85	79	84	150	135	
				96	97	92	92	76	86	81	85	80	11	0.60	-0.5	1	2.9	7.6	79	3.0	78	32	-29	0.31	23.5	-15.5	-3.9	11.8	19	22.1	-0.80	-1.62	-2.45	-0.18	2	27	
SW 080032 66645953		PS 020118 SW 050040		90	99	91	125	96	95	98	94	95	84	85	98	80	99	91	99	82	112	84	107	100	112	85	100	90	113	106	90	99	95	90	29	28	
				84	87	67	67	38	64	28	57	18	5	2.23	0.1	-6	6.1	-1.1	34	1.1	111	-12	-23	0.13	18.1	2.0	-2.6	12.6	22	26.2	-0.46	-0.65	-0.62	-0.10	3	4	
SW 090023 68916774		HBH 030739 SW 050028		138	80	90	133	98	94	89	91	90	81	132	132	73	80	90	85	74	92	115	106	100	90	97	99	98	110	96	77	95	96	76	14	10	
				78	79	58	56	33	57	26	51	32	1	-1.73	-3.7	-13	-1.5	-1.5	0	-3.3	71	62	-22	0.11	8.0	-4.0	-2.4	17.2	20	19.8	-1.46	-0.93	-0.54	-0.29			
SW 100052 71976781		SW 070050 SW 050015		79	94	108	112	70	75	94	75	90	91	83	72	87	94	108	109	82	91	94	94	105	87	80	71	88	103	96	85	109	119	86	53	33	
				92	91	85	87	70	80	76	79	77	11	2.40	2.9	2	4.1	4.2	57	1.1	70	11	-12	0.33	6.4	4.7	2.6	10.7	16	20.1	-0.83	0.08	2.23	-0.15	12	19	
XY 120065 76704790		V 070123 XY 090008		124	97	57	110	79	70	111	74	113	93	118	120	91	97	57	59	100	107	99	72	113	97	91	77	92	90	92	92	134	123	96	175	161	
				97	98	95	95	83	89	88	89	90	13	-0.54	-2.4	6	5.6	-11.9	-63	10.3	101	22	7	0.63	11.4	-0.7	1.5	13.5	9	17.6	-0.32	1.87	2.73	-0.02	10	54	

Breeding Values and Accuracies: Bulls

Inbreeding in red is high

Value <80 Value >120

Breeding values with an accuracy < 5% are not printed

Animal				Selection Value										Birth			Wean				Growth & Adaptation					Fertility				Frame		Carcass				
ID	Inbreeding	Genomic	Index	Sire ID	Calv. Ease V	Calf Growth V	Milk Value	Maint. V	Fertility V	Cow Value	Wean Calf V	Growth Value	Prod. Value	Carcass V	Cow wt -brth	Birth wt	Cow-Calf birth	Cow wt -wean	Wean wt	Wean mat	Cow-Calf wn	Post wn wt	ADG	Veld growth	FCR	Skin Thickn	Scrotum	Heifer Fert	Cow Fert.	Longevity	Height	Length	EMA	Fat	Marbling	Dress %
GH 190070		XY	120065		84	109	79	100	90	87	92	115	90	108	101	86	87	100	109	79	88	115	115	133	96	123	96	99	87	108	108	105	99	125	112	101
89773709	4	GH	120045		75	75	63	61	38	58	71	25	51	40	20	2.12	1.3	15	10.3	-4.7	6	18.1	116	106	-14	1.0	10.7	-5.2	-0.3	23.3	18	26	0.15	1.29	1.39	0.05
															39	78	67	61	75	63	66	72	41	30	6	48	46	50	27	61	45	42	38	41	38	40

Breeding Values and Accuracies: Cows & Heifers

Value <80 Value >120

Breeding values with an accuracy < 5% are not printed

Animal				Selection Values										Birth			Wean				Growth & Adaptability					Fertility				Frame		Carcass			
ID Animal no	% Inbreeding	Genomic Parentage	Index EBV Acc	Calv. Ease V	Calf Growth V	Milk Value	Maint. V	Fertility V	Cow Value	Wean Calf V	Growth Value	Prod. Value	Carcass V	Cow wt -brth	Birth wt	Cow-Calf birth	Cow wt -wean	Wean dir	Wean mat	Cow-Calf wn	Post wn wt	ADG	Veld growth	FCR	Skin Thicken	Scrotum	Heifer Fert	Cow Fert.	Longevity	Height	Length	EMA	Fat	Marbling	Dress %
			Sire ID Dam ID																																
SW 120053 81290124		SW 080032		90 42	86 44	108 33	111 34	111 18					104 10	90 11	87 2.05	95 0.4	87 34	86 44	108 33	103 37	83 44	120 128	94 12	128 -41	98 0.0	102 13.4	115 -13.0	111 -4.6	94 14.8	123 27	113 31	76 -1.47	94 -1.00	125 2.92	77 -0.28
SW 120078 76431436	7	SW 080032 SW 020013		97 68	100 69	83 53	106 51	93 30	87 50	90 64	88 20	85 44	87 16	91 11	94 1.47	101 -0.3	94 9	100 6.7	83 -3.6	86 3	88 4.2	96 80	80 -24	95 -12	97 0.0	109 16.7	89 0.0	95 -1.8	87 10.6	100 14	94 19	86 -0.77	98 -0.72	95 -0.64	86 -0.16
SW 120085 76431303	6	SW 080032 SW 080093		105 66	92 68	102 49	130 49	88 26	94 48	103 62			88 12	81 1	102 0.78	94 0.5	75 -11	92 3.4	102 2.4	108 56	83 1.5	100 87	97 19	100 -17	105 0.3	99 12.1	87 1.1	90 -0.8	91 13.1	101 15	98 21	93 -0.28	93 -1.07	95 -0.63	92 -0.08
SW 130065 78645769	3	SW 060039 SW 100038		94 69	93 69	118 57	110 58	91 32	97 52	103 65	91 20	95 46	88 20	89 9	96 1.31	86 1.4	88 3	93 3.9	118 7.4	119 81	91 5.6	97 81	114 60	108 -24	102 0.2	109 16.7	97 -4.2	89 -0.7	96 15.8	108 19	101 23	90 -0.49	91 -1.23	90 -1.14	89 -0.12
R 140199 81026254	6	R 090084 R 060015		115 78	78 74	114 73	125 73	107 42	103 62	94 74			85 18	80 0	119 -0.63	87 1.3	79 -7	78 -2.2	114 6.3	107 53	78 -1.0	88 63	78 -28		103 0.2	85 5.6	98 -4.5	108 -4.0	84 8.7	91 9	84 12	93 -0.27	91 -1.17	95 -0.60	92 -0.08
SW 140033 80713688	6	SW 090023 SW 110085		136 65	88 65	94 45	116 46	105 26	103 46	98 59			88 19	90 10	130 -1.50	131 -3.6	85 46	88 1.8	94 -0.3	91 14	87 3.3	95 77	122 80	110 -25	102 0.2	105 15.1	104 -7.6	104 -3.4	101 19.5	108 19	98 21	80 -1.24	94 -0.98	92 -0.93	79 -0.25
SW 140073 80854185	9	SW 100052 SW 100046		94 67	97 67	111 51	109 53	99 28	102 49	103 62			89 16	93 13	94 1.48	90 0.9	89 4	97 5.3	111 5.3	114 70	91 5.7	98 84	103 33	99 -16	105 0.3	93 9.3	99 -5.0	99 -2.4	96 16.1	105 17	101 23	89 -0.57	106 -0.15	107 0.80	89 -0.11
SW 140081 80854227	4	SW 100052 SW 090044		86 69	103 68	98 53	97 54	82 28	85 50	96 64			96 22	105 24	88 1.95	87 1.2	101 17	103 7.9	98 1.0	100 35	98 9.5	99 85	103 34	103 -19	109 0.5	100 12.6	85 2.2	84 0.2	97 17.0	111 20	105 26	84 -0.93	104 -0.26	108 0.97	85 -0.18

Selection List on Cow Value

Bulls 2 years and older

ID Name Sorted on ID		Sire ID	Dam ID	% Inbreeding	Horned / Polled	Myostatin		Genomic test	Calving Ease Value Acc	Calf Growth Value Acc	Milk Value Acc	Maint. Value Acc	Fertility Value Acc	Cow Value Acc	Weaner Calf Value Acc	Growth Value Acc	Prod Value Acc	Carcass Value Acc
									★★★★									
1	GH 190070 GH190070	XY 120065	GH 120045	4.2					8475	10975	7963	10061	9038	8758	9271	11525	9051	10840

Selection List on Cow Value

Cows 2 years and older

ID	Name	Sire ID	Dam ID	% Inbreeding	Horned / Polled	Myostatin	Genomic test	Calving Ease Value	Calf Growth Value	Milk Value	Maint. Value	Fertility Value	Cow Value	Weaner Calf Value	Growth Value	Prod Value	Carcass Value
Sorted on ID						nt821	F94L	Q204X									
1	R 140199	14199	R 090084	R 060015	6.4												
2	SW 140033	SW 140033	SW 090023	SW 110085	5.6												
3	SW 140073	SW 140073	SW 100052	SW 100046	9.1												
1	SW 120085	SW120085	SW 080032	SW 080093	5.7												
2	SW 130065	SW 130065	SW 060039	SW 100038	3.2												
1	SW 120078	SW120078	SW 080032	SW 020013	7.1												
2	SW 140081	SW 140081	SW 100052	SW 090044	4.2												

