

BORAN

GENOMIC BREEDING VALUE REPORT

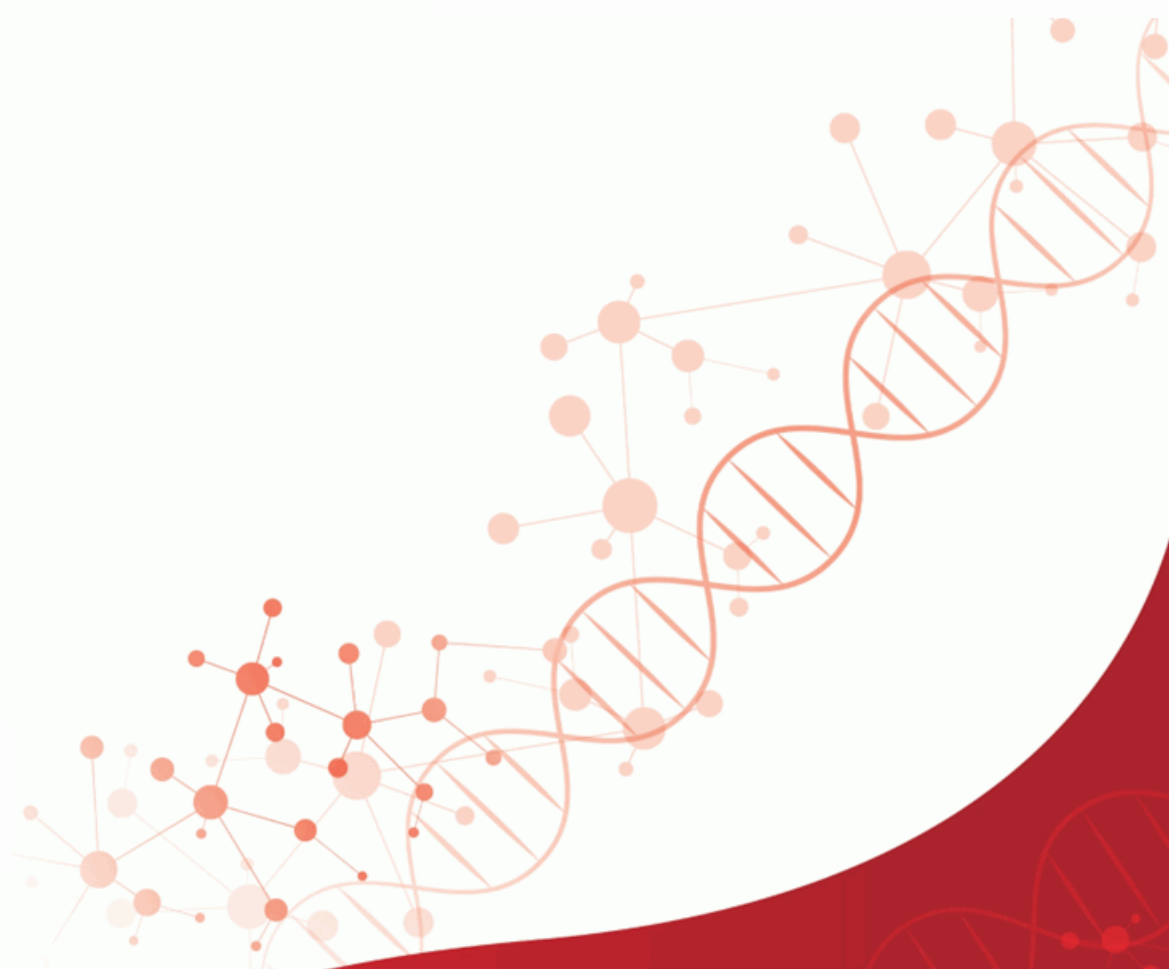
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SA Stud Book's breeding value analyses are at a very high standard and are internationally accredited. The models were adjusted to enable a more precise determination of current breeding values.

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

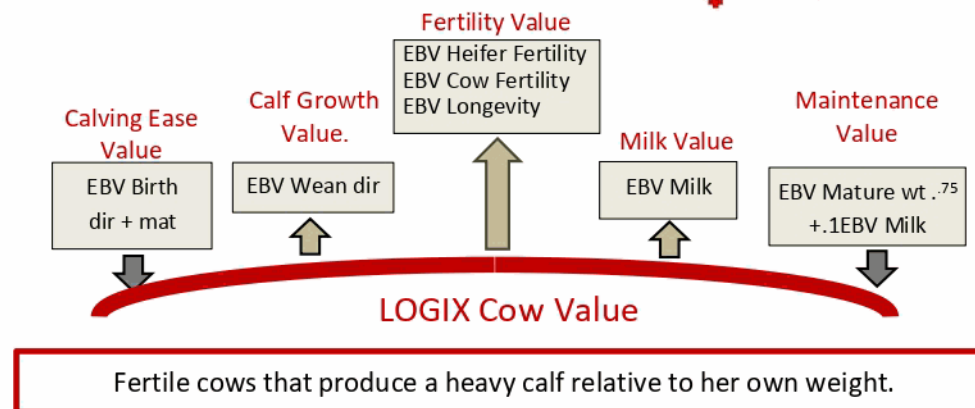
EBVi (Breeding Value Index): Genetic potential relative to the average (100) of the live animals in the breed. Roughly 50% of the animals have values between 90 and 110. Values above 100 tend to be in the more favourable direction.

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

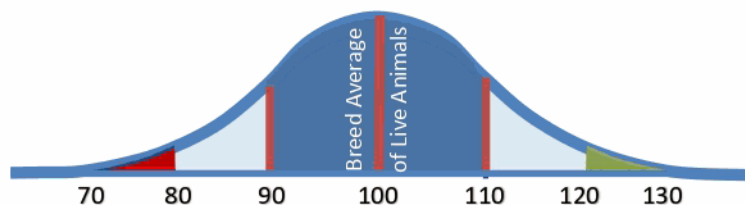
Growers are usually heavier at birth (lower Calving Ease Value), and maturity (lower Maintenance Value).

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

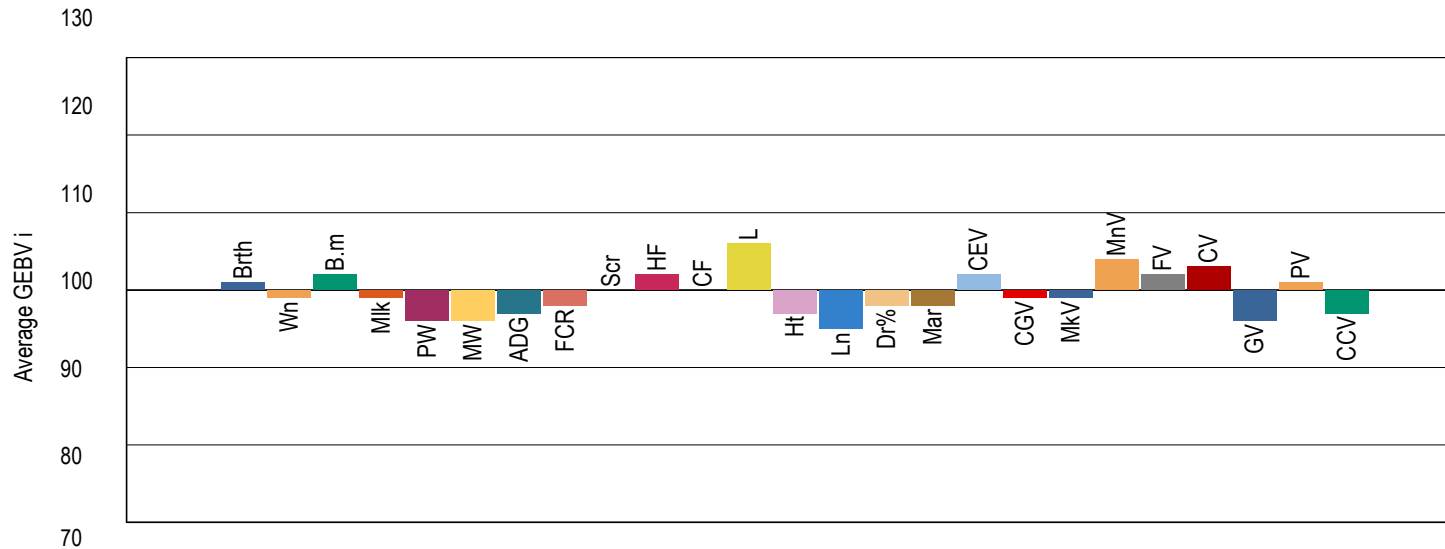


Examples

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
Milk:	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	0.30	101	0.35
	Wean Weight	0.9	99	1.3
	Birth Mat.	-0.27	102	-0.21
	Milk (Wn.Mat.)	0.3	99	0.5
Postwean Growth	Postwean Wt	2.1	96	4.0
	Mature Weight	3	96	7
	ADG	-8	97	-3
	FCR	5	98	0
Fertility	Scrotal Circumf.	2.0	100	2.0
	Heifer Fertility	-2.0	102	-1.0
	Cow Fertility	0.0	100	-0.1
	Longevity	35.6	106	30.6
Frame	Height	0	97	2
	Length	-2	95	1
Carcass	Dressing%	-0.03	98	0.00
	Marbling	-0.34	98	-0.23

Selection Value	Ave. Herd
Calving Ease	102
Calf Growth	99
Milk	99
Maintenance	104
Fertility	102
Cow Value	103
Growth Value	96
Production Value	101
Carcass Value	97

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

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

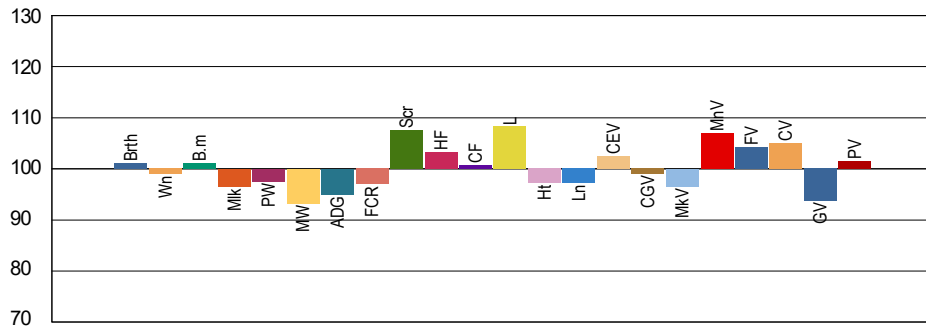
- Calving ease: Smaller calf at birth - easier calving
- Calf growth: Heavier calves at wean due to growth potential of the calf
- Milk: Cows with more milk and better mothering ability
- Maintenance: Animals with low maintenance requirements (lower mature weight).
- Fertility: Cows/daughters that calve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

Genetic Windows

Bulls on the farm

Bulls born in 2023 and earlier

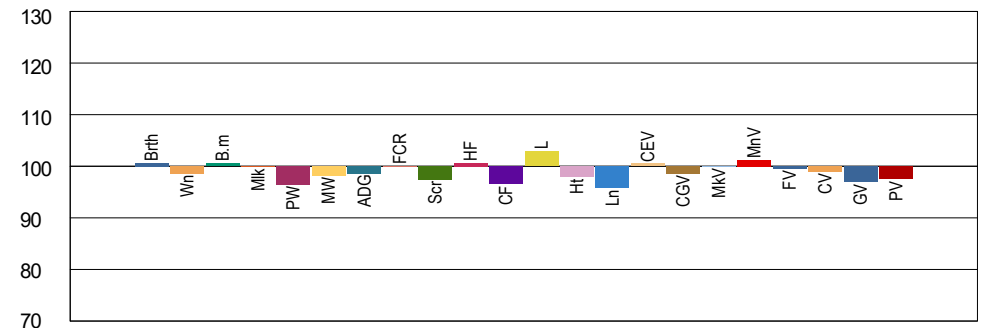
Total: 4



Cow Herd

Cows born in 2024 and earlier

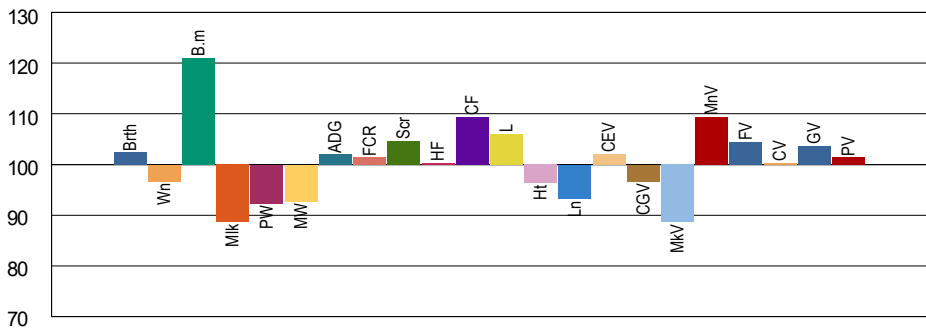
Total: 15



Sires of young animals

Sires of animals 3 years and younger

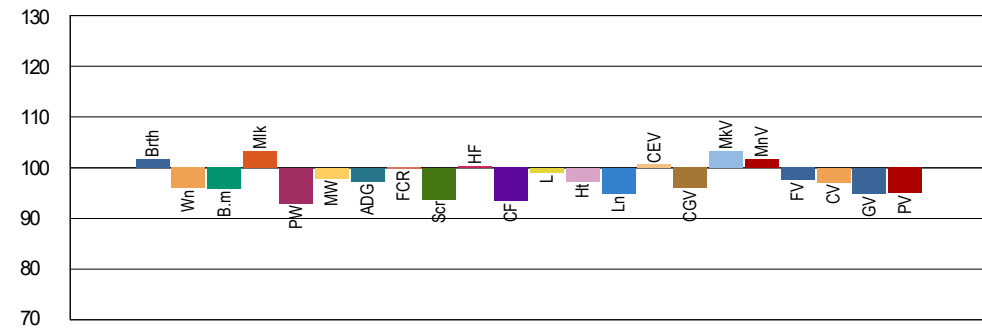
Total: 3



Cows older than 6 years

Cows born in 2020 and earlier

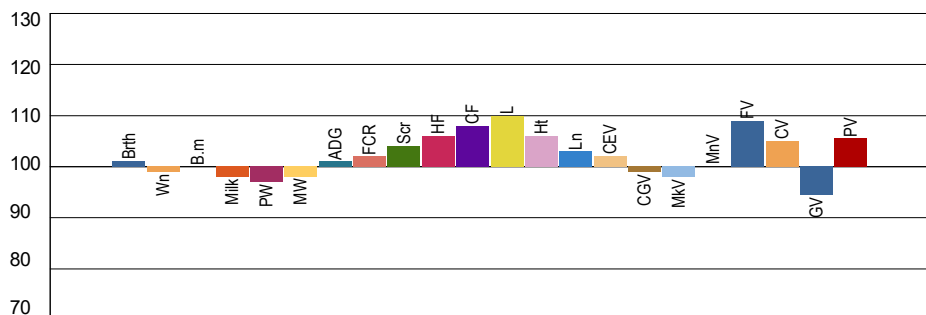
Total: 7



Bull calves

Bulls born in 2025

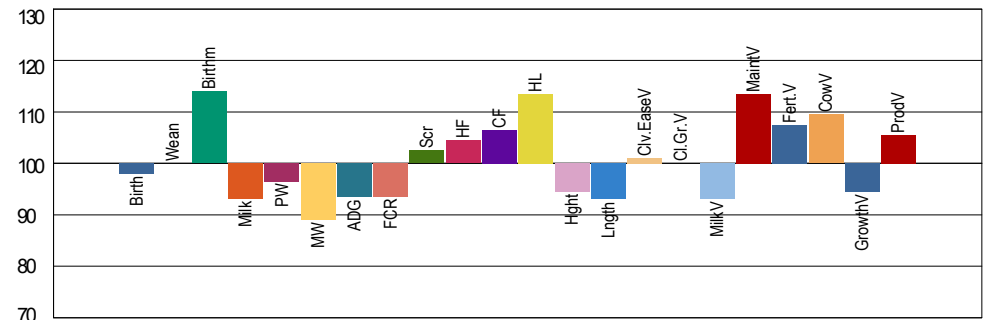
Total: 1



Heifer calves

Heifers born in 2025

Total: 2

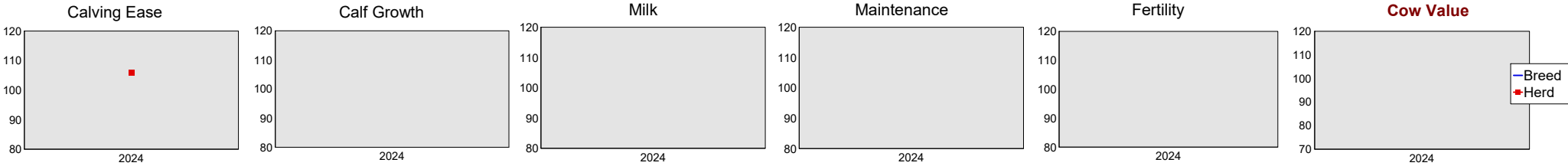


Summary of Cow Herd

			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	100	100	100	100	100	100	100	100	100	100	100	100	100
2018	4	★★★★☆	94	105	106	99	99	103	95	100	96	105	93	106	99	101	96	99	89	100	97	99	106	99
2019	1	★★★★	101	96	103	99	97	95	108	98	103	96	92	103	97	99	111	106	100	104	87	100	107	111
2020	2	★★★★☆	113	78	99	108	96	87	88	84	112	78	104	99	79	92	93	99	100	99	90	99	75	79
2021	1	★★★★	97	99	93	99	100	93	79	86	102	99	87	93	95	99	82	85	99	101	96	106	90	89
2022	2	★★★★☆	97	105	102	100	101	103	104	104	96	105	99	102	106	99	106	103	102	101	95	111	103	106
2023	1	★★★★	94	106	79	105	102	97	96	95	95	106	134	79	97	94	97	107	95	107	103	99	108	97
2024	4	★★★★☆	105	98	100	101	102	102	102	103	102	98	104	100	98	99	102	102	102	100	102	106	96	94
2025	2	★★★★★	101	100	93	114	108	110	95	106	98	100	114	93	97	89	94	94	103	105	107	114	95	93
2026	2	★★★★☆	108	97	105	101	104	106	105	107	105	97	106	105	99	100	103	96	103	100	103	108	97	99
Cows in Herd Average:			101	98	98	103	101	100	97	98	101	98	104	98	96	97	98	100	99	102	98	105	97	96

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.



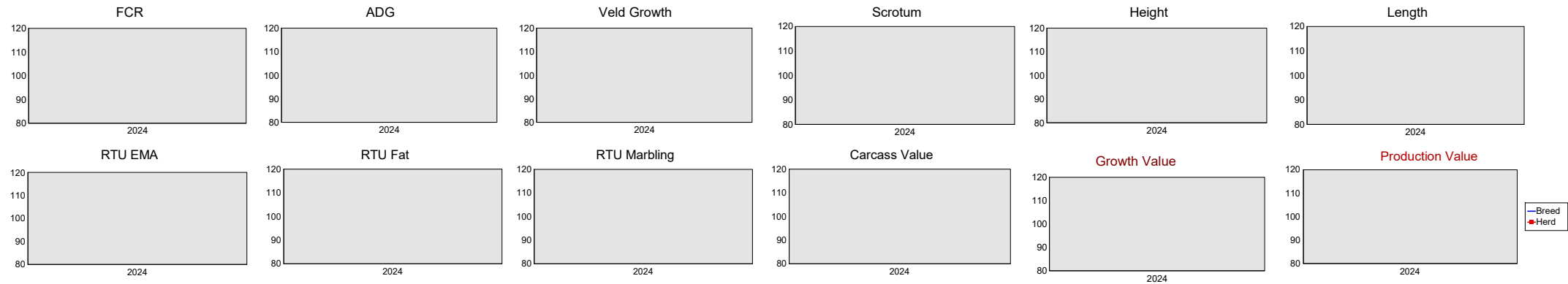
Herd

Birth Year	Calving Ease				Calf Growth			Milk		Maintenance					Fertility						Cow Value
	Birth Weight		Mat	Calv. Ease	Weaning Weight	Calf Growth	Milk (Wn.Mat.)	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	
2024	3	0.20	-0.41	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.)		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	5443	0.25	-0.17	101	1281	0.3	97	1281	0.23	99	592	1.5	529	4	104	2172	-0.3	1452	-0.1	9930	20.4	96	96	
2017	5493	0.27	-0.18	101	1761	0.5	98	1761	0.42	100	648	2.4	645	5	103	2363	0.4	1709	0.1	9984	21.7	96	96	
2018	5384	0.28	-0.21	101	1835	1.1	99	1835	0.52	100	828	3.5	705	5	103	2244	-0.6	1771	-0.3	10164	23.4	99	98	
2019	6007	0.27	-0.21	101	1830	1.1	100	1830	0.31	99	1030	3.8	813	4	103	2427	-0.7	1951	0.0	10086	24.2	98	98	
2020	6058	0.28	-0.21	101	2614	1.2	100	2614	0.41	100	1350	4.0	812	5	102	2473	-0.5	1903	-0.3	9714	25.5	99	100	
2021	6281	0.32	-0.24	101	2943	1.7	101	2943	0.38	99	1176	4.8	847	5	102	2722	-1.0	1752	-0.1	9450	26.3	100	101	
2022	7027	0.38	-0.21	100	3201	1.7	101	3201	0.30	99	1254	5.4	769	3	102	2616	-1.7	603	-0.4	4191	25.3	101	101	
2023	7776	0.34	-0.22	100	3889	1.5	100	3889	0.99	102	1553	4.8	92	4	100	1264	-1.9	7	1.3			102	101	
2024	8885	0.37	-0.21	100	3974	1.9	102	3974	0.92	102	1552	5.1			99	13	-1.1					102	102	
2025	9169	0.38	-0.20	100	3793	1.9	102	3793	1.13	103	219	5.6			98								103	
2026	4059	0.36	-0.18	100	96	2.1	102	96	0.67	101													100	

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			
2024																												

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	-7	104	176	-5	99	447	-10	97	174	1.1	98	175	0	97	175	-1	98	118	-0.22	96	-0.31	98	-0.32	99	98	96	95
2018	48	7	97	375	-4	99	458	-3	102	379	1.1	98	375	2	100	375	1	100	240	0.07	101	0.05	101	-0.33	98	98	96	99
2019	37	7	97	455	-3	100	563	-6	100	432	1.4	99	456	3	101	462	1	101	348	-0.01	100	-0.29	98	-0.32	99	98	98	101
2020	28	-7	104	580	0	102	722	-5	101	525	2.6	101	584	3	101	590	2	102	448	0.05	100	-0.22	99	-0.26	100	101	101	102
2021	40	-6	103	557	-3	101	642	-5	101	537	1.7	99	557	2	101	560	1	101	331	0.16	102	-0.15	99	-0.24	100	102	99	100
2022	67	-2	101	476	-1	102	795	-5	100	491	2.3	101	494	3	102	494	2	103	316	0.23	103	0.34	104	-0.19	101	104	100	101
2023	29	3	99	476	2	104	1016	-5	101	510	3.7	103	508	3	103	510	3	105	195	0.59	109	0.08	102	-0.35	98	107	102	104
2024	10	-6	103	476	-1	102	927	-8	99	463	4.6	105	462	4	103	463	3	104	159	0.55	108	0.52	106	-0.11	102	110	100	106
2025	6	-2	101	12	4	105	188	-4	101	12	7.3	110	12	3	102	12	2	103	12	-0.11	98	0.23	103	0.07	105	104	104	102
2026																												

Sires

Bull			Selection Values								Birth			Wean				Grwth & Adaptation					Fertility				Raam		Carcass				Progeny			
Index EBV Acc	Genomic	Sire ID Dam ID	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 %	Nr measured		
ID Comp.nr																																		Birth	Wean	Grwth Test
B	060021	KPO1017	104	93	78	106	84	79	90	77	96	100	106	95	94	93	78	80	92	101	96	116	111	125	100	80	93	97	96	101	97	128	100	30	7	
	63039440	Z7F4501	90	77	76	75	68	70	56	66	38	7	-0.04	0.1	1	-0.9	-4.7	-56	-0.2	-2	-12	-31	0.71	14.4	-0.8	3.6	25.0	0	-1.7	0.07	-0.36	1.41	0.01	2	8	23
			61	91	85	75	77	76	76	76		75	77	76	76				48	54	26	30	64	62	69	44	91	59	52	36	40	36	38			
BH	180113	WZ 140056	105	102	108	85	95	96	123	104	120	119	101	111	115	102	108	101	104	118	95	108	97	111	88	101	102	96	96	123	126	95	125	10	13	
	87526257	EG 110033	92	93	91	91	91	83	90	85	90	22	0.31	-1.4	20	1.9	2.3	-12	6.3	23	-14	-15	0.10	7.8	6.8	-0.2	32.5	0	-2.1	1.51	2.45	-0.51	0.33			
			90	93	92	91	93	91	92	91	92	91	93	91	91	93	91	92	90	90	89	89	90	90	90	90	92	90	90	90	90	90	90			
BU	140085	CI 080030	114	85	95	105	95	90	106	93	98	97	113	104	94	85	95	88	85	108	85	99	101	97	106	81	101	96	106	109	100	98	108		8	
	80837222	FN 090390	66	74	69	73	62	62	52	59	46	4	-0.50	-0.8	2	-3.8	-0.7	-40	-4.1	9	-29	2	0.30	0.6	-4.8	3.4	31.1	0	4.3	0.61	-0.10	-0.34	0.11	5	7	
			63	64	69	73	74	69	72	69	72	63	64	69	73	74	69	72	57	52	37	26	55	54	65	44	78	53	51	44	47	44	46			
GF	100023	GF 060010	121	82	88	121	104	104	87	98	85	78	117	109	82	82	88	85	85	84	87	75	117	101	94	112	117	82	85	91	102	115	92	12	3	
	71828917	TLM 040022	89	80	75	78	70	71	50	65	46	-12	-0.76	-1.2	-9	-4.7	-2.4	-46	-4.1	-26	-26	51	0.94	2.5	2.6	-2.3	44.3	-9	-8.8	-0.55	0.12	0.68	-0.10	1	11	25
			69	90	85	78	80	85	78	80	75	78	80	75	78	78	75	78	48	49	17	41	56	54	76	45	89	47	47	43	49	44	46			
KF	200019	GF 100023	107	96	98	119	115	118	93	113	89	81	103	100	84	96	98	103	93	90	95	84	105	102	103	116	121	87	90	87	98	104	87	2		
	96551056	BH 150075	60	50	49	53	46	47	33	43	30	-9	0.17	-0.4	-7	-0.1	0.0	-7	0.4	-18	-14	33	0.44	2.9	-2.8	-3.0	47.3	-6	-5.7	-0.82	-0.30	0.01	-0.16			
			43	61	57	53	50	49	51	51		43	61	57	53	50	49	51	33	32	12	24	37	35	49	30	59	32	31	29	32	29	30			
LW	090022	TLM 020003	111	86	123	99	104	105	97	103	97	95	113	102	98	86	123	110	92	99	78	98	66	79	92	115	99	99	98	94	100	95	94	6		
	74543083	BA 050031	85	74	73	74	80	70	66	69	64	2	-0.47	-0.6	5	-3.2	6.0	9	-0.4	-5	-39	5	-1.20	-8.9	4.5	-2.9	30.1	1	-0.5	-0.40	-0.10	-0.53	-0.08	4	7	12
			66	85	82	74	74	73	74	74		66	85	82	74	74	73	74	58	66	26	23	73	64	84	62	94	70	64	61	67	62	64			
MHB	040010	K6K1711	106	100	114	84	100	100	129	110	134	127	107	107	117	100	114	104	114	125	106	107	134	93	92	107	92	115	126	101	112	120	104	9	8	
	61296125	KPO615	95	94	94	94	92	84	93	87	92	29	-0.10	-1.1	22	1.3	3.9	-5	11.6	34	4	-14	1.66	-1.3	4.3	-1.5	24.2	11	16.8	0.11	1.09	0.98	0.05	17	18	58
			93	95	95	94	94	94	94	94	94	94	95	95	94	94	94	94	92	93	89	89	94	94	91	90	95	94	92	92	92	92	92			
MHB	110055	K6K3534	94	92	60	124	103	87	95	87	84	69	103	134	79	92	60	70	80	98	105	112	98	101	110	111	95	106	94	64	96	106	66	128	4	
	75125757	KPO2493	94	68	65	71	74	68	46	61	46	-20	0.16	-3.6	-11	-1.3	-9.0	-80	-6.9	-7	1	-23	0.15	2.3	-7.2	-2.2	26.8	5	-2.8	-2.32	-0.46	0.12	-0.44	1	5	10
			58	96	86	71	68	86	68	61	46	58	96	86	71	68	65	68	45	46	7	20	53	51	80	51	92	49	44	43	48	44	46			
PRB	140024	B 040042	87	114	93	78	107	95	126	105	120	131	91	98	127	114	93	93	124	125	103	123	110	110	105	98	110	142	131	110	93	67	109			
	80096399	BA 090113	69	65	67	70	61	60	55	58	50	32	0.93	-0.2	31	5.9	-1.1	-28	17.0	35	-2	-46	0.67	7.2	-4.0	0.3	38.6	26	20.1	0.68	-0.80	-2.21	0.12	2	4	
			64	68	69	70	61					64	68	69	70	65	67	67	55	55	31	30	59	58	63	44	76	56	54	48	52	48	50			
PRB	170021	VST 120006	93	100	93	97	100	91	83	85	99	110	98	90	101	100	93	94	99	91	77	95	100	113	105	91	106	93	94	89	118	90	92			
	85200137	PRB 140021	72	55	58	54	53	53	46	51	42	15	0.49	0.6	8	1.3	-1.2	-26	3.6	-17	-41	10	0.22	8.5	-4.3	1.6	35.4	-2	-3.1	-0.73	1.64	-0.83	-0.10	2	2	
			54	73	65	54	53					54	73	65	54	55	58	56	46	45	25	23	49	48	54	33	72	47	44	41	44	41	42			
TLM	040578	K6K2738	114	70	95	121	80	75	93	75	60	78	110	103	81	70	95	82	78	106	94	127	92	115	87	85	96	57	65	126	58	85	117	11	3	
	62822010	K6K2748	97	95	95	95	94	86	94	88	94	-12	-0.29	-0.7	-10	-8.6	-0.7	-52	-8.5	6	-15	-52	-0.10	9.7	7.5	2.6	27.3	-23	-20.7	1.74	-4.18	-1.09	0.23	19	24	82
			95	97	96	95	97	96	95	95	95	95	97	96	95	95	95	95	93	94	91	91	95	95	94	92	97	95	94	93	94	93	94			
VST	120112	MHB 060030	92	134	102	122	93	135	114	135	126	107	87	91	80	134	102	137	122	124	79	119	90	84	98	87	112	129	128	122	96	125	121		1	
	76855055	MHB 060048	76	72	76	77	69	66	58	64	68	12	1.22	0.5	-10	12.6	1.0	69	16.2	32	-37	-38	-0.17	-6.0	0.3	2.4	40.0	19	18.0	1.49	-0.42	1.24	0.27	7	19	
			68	74	77	69						68	74	77	77	72	76	75	60	58	34	38	61	74	71	50	86	60	58	65	71	66	68			
VST	140034	MHB 060030	113	118	91	100	81	107	77	98	95	110	109	110	98	118	91	106	102	73	82	88	89	88	82	86	96	104	90	79	80	102	78	24	10	
	79453270	MHB 100005	85	81	72	74	64	69	60	66	61	15	-0.25	-1.3	5	7.1	-1.6	0	5.2	-43	-34	25	-0.25	-4.2	10.4	2.6	27.2	4	-5.8	-1.36	-2.00	-0.10	-0.29	1	5	11
			62	89	80	74	64					62	89	80	74	81	72	76	60	60	34	38	67	65	63	50	80	64	60	59	63	60	61			

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	Animal no	% Inbreeding	Genomic Parentage	Index EBV Acc	Sire ID	Dam 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 %
KF 200016	96551023	1	PRB 170021 BH 170469				103 49	99 39	95 41	104 44	99 37	100 38	99 42	91 28	96 35	104 25	104 10	103 0.15	97 -0.1	95 3	99 1.1	95 -0.7	98 -18	97 2.5	93 -14	96 -12	93 14	110 0.7	103 3.6	102 -2.2	93 1.2	102 32.0	99 2	99 0	89 -0.69	118 1.68	89 -0.91	93 -0.09
KF 200019	96551056		GF 100023 BH 150075				107 60	96 50	98 49	119 53	115 46	118 47	103 52	93 33	113 43	89 30	81 -9	103 0.17	100 -0.4	84 -7	96 -0.1	98 0.0	103 -7	93 0.4	90 -18	95 -14	84 33	105 0.4	102 2.9	103 -2.8	116 -3.0	121 47.3	87 -6	90 -6	87 -0.82	98 -0.30	104 0.01	87 -0.16
KF 210010	97892939	5	PRB 170021 KF 180016				100 45	101 38	96 38	109 37	96 36	101 35	103 39	87 31	95 34	100 30	102 8	99 0.41	95 0.1	92 0	101 1.8	96 -0.4	101 -10	100 4.2	90 -18	83 -31	96 9	104 0.4	107 5.6	102 -2.5	90 1.8	103 33.1	97 0	93 -4	89 -0.72	114 1.28	94 -0.59	91 -0.11
KF 210023	97891584		B 060021 PRB 160038				100 56	100 47	97 48	96 52	107 42	101 44	97 49	104 33	102 41	105 24	105 10	99 0.42	101 -0.5	102 9	100 1.3	97 -0.2	97 -20	100 4.1	107 7	105 2	115 -29	100 0.2	118 11.3	106 -4.9	104 -0.7	107 35.8	106 5	107 5	105 0.37	89 -1.17	118 0.85	104 0.05
PNB 240006	97497499		KF 200019 KF 210008				102 37	99 31	98 32	110 34	107 29	109 29	101 33	86 22	102 27	91 20	94 1	101 0.27	97 -0.1	92 0	99 0.8	98 0.0	101 -11	94 0.9	86 -25	89 -22	84 31	95 0.0	101 2.3	102 -2.2	106 -1.2	113 41.2	88 -5	89 -6	89 -0.68	101 0.03	100 -0.25	90 -0.13
PNB 250017	99929580	1	KF 200019 KF 180036				102 35	99 30	98 30	100 32	109 31	105 29	99 31	101 22	105 27	98 20	94 2	101 0.27	100 -0.3	98 5	99 1.0	99 0.1	99 -15	97 2.5	101 -3	100 -7	102 -4	106 0.5	104 3.9	106 -4.9	108 -1.5	110 38.4	106 5	103 3	93 -0.45	94 -0.62	94 -0.60	93 -0.09
PNB 260020	6020431877		KF 200019 KF 200020				108 41	93 35	97 36	121 38	109 32	114 33	101 37	96 27	110 31	81 26	81 -10	104 0.09	99 -0.3	81 -9	93 -1.0	97 -0.2	101 -10	86 -3.6	97 -8	94 -16	101 -2	101 0.3	105 4.4	107 -5.2	108 -1.5	116 43.1	74 -13	80 -11	104 0.29	88 -1.21	103 -0.04	102 0.02
PNB 260021	6020431885	1	KF 200019 KF 180015				102 39	100 31	100 32	112 33	102 31	109 30	105 33	86 22	102 28	92 23	89 -3	101 0.32	97 -0.1	90 -2	100 1.2	100 0.6	105 -2	93 0.2	89 -20	95 -13	86 29	94 0.0	93 -1.6	96 1.9	100 -0.1	108 36.7	95 -1	92 -4	93 -0.45	88 -1.23	97 -0.44	91 -0.11
PNB 260022	6020692007	1	KF 200019 KF 180017				100 43	102 35	99 34	102 35	107 33	107 33	102 36	95 24	104 30	97 24	98 5	98 0.46	99 -0.3	97 4	102 2.0	99 0.3	102 -8	103 5.8	93 -14	94 -16	93 14	103 0.4	96 -0.1	104 -3.3	106 -1.1	111 39.6	99 1	94 -3	94 -0.37	95 -0.55	102 -0.12	94 -0.08

Breeding Values and Accuracies: Cows & Heifers

Animal				Selection Values										Birth			Wean				Growth & Adaptability					Fertility				Frame		Carcass				
ID Animal no	% Inbreeding	Genomic Parentage	Index EBV Acc	Sire ID Dam 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 -birth	Birth wt	Cow-Calf birth	Cow wt -wean	Wean dir	Wean mat	Cow-Calf wn	Post wn wt	ADG	Veld growth	FCR	Skin Thckn	Scrotum	Heifer Fert	Cow Fert.	Longevity	Height	Length	EMA	Fat	Marbling	Dress %
KF 180015		VST 120112		KF150024	96	109	112	102	89	105	116	80	96	95	98	96	95	96	109	112	112	93	88	96	88	82	84	88	85	94	103	95	98	78	89	95
96550728					50	38	41	39	42	38	41	29	35	34	4	0.60	0.1	3	4.3	3.3	14	-0.1	-22	-12	25	-0.5	-6.0	6.6	2.8	26.1	4	-2	-0.09	-2.17	-0.88	-0.06
															34	45	48	39	38	41	39	32	29	17	19	30	37	45	25	56	30	29	33	35	33	34
KF 180017	2	VST 140034		W 150996	87	120	99	90	100	105	114	97	103	104	115	87	94	109	120	99	108	113	95	93	103	101	90	104	96	102	111	99	101	93	100	100
96550736					61	50	46	47	47	46	51	37	43	36	19	1.17	0.2	15	7.9	0.2	5	11.2	-10	-17	-6	0.3	-3.1	-3.7	0.8	32.0	8	0	0.07	-0.80	-0.24	0.00
															40	61	57	47	50	46	48	39	36	21	23	40	39	49	34	59	39	36	35	37	35	36
KF 180035	4	LW 090022		BH 110026	101	83	111	117	103	101	94	94	98	94	85	104	88	85	83	111	105	90	91	84	84	80	76	99	107	101	85	85	92	110	105	94
96550959					55	47	47	48	50	45	48	40	44	37	-6	0.11	0.7	-6	-4.3	3.2	-3	-1.5	-16	-30	33	-0.6	-10.3	-0.5	-1.4	31.1	-7	-8	-0.49	0.93	0.07	-0.07
															43	54	53	48	47	47	47	36	39	18	17	43	39	52	37	61	41	38	35	39	35	37
KF 180036		PRB 140024		KF 130016	93	109	100	88	103	100	103	109	103	106	108	98	97	112	109	100	91	101	111	105	120	108	106	109	99	99	125	117	98	91	84	98
98437593					36	33	35	36	41	32	34	28	31	25	13	0.48	-0.1	17	4.3	0.5	-32	4.6	13	1	-39	0.6	5.0	-7.0	0.1	29.5	16	11	-0.08	-0.94	-1.21	-0.03
															32	36	36	36	33	35	35	28	27	16	15	30	29	43	24	56	28	27	24	26	24	25
KF 190041		BU 140085		DBC 150056	101	96	103	99	97	95	97	108	98	104	99	103	95	99	96	103	97	97	111	97	106	105	100	104	87	100	107	111	109	101	99	109
96551007					48	44	43	45	43	40	45	29	37	25	6	0.13	0.1	6	0.1	1.2	-20	2.2	13	-10	-11	0.5	1.9	-3.7	2.4	30.5	6	8	0.62	0.05	-0.32	0.12
															37	48	47	45	44	43	44	32	28	20	14	31	30	48	26	54	30	28	24	26	24	25
KF 200020		TLM 040578		KF 140027	121	69	88	123	104	93	74	99	93	72	80	115	114	79	69	88	77	79	104	92	119	97	108	110	99	110	62	71	121	79	103	116
98494966					57	49	53	54	45	46	52	42	45	41	-10	-0.65	-1.7	-11	-8.8	-2.4	-64	-7.6	2	-18	-37	0.1	6.0	-7.6	0.0	38.9	-20	-17	1.40	-2.13	-0.08	0.21
															44	53	57	54	49	53	52	38	42	19	18	45	44	49	28	59	44	41	40	42	40	41
KF 200025		BU 140085		KF170055	105	86	110	93	87	81	88	77	74	83	95	109	102	105	86	110	95	78	81	96	78	88	92	88	81	87	88	86	94	80	76	91
96551130					33	37	35	36	33	31	36	26	30	22	2	-0.20	-0.6	11	-3.4	3.0	-23	-8.0	-31	-12	45	-0.3	-2.3	6.4	3.5	20.0	-5	-8	-0.39	-2.02	-1.66	-0.11
															32	32	34	36	37	35	36	28	26	18	13	27	27	33	22	44	27	26	22	23	22	22
KF 210008	4	PRB 170021		KF 180020	97	99	93	99	100	93	94	79	86	94	107	102	91	99	99	93	92	95	82	84	85	86	99	101	96	106	90	89	91	104	95	92
96551163					45	38	39	42	35	36	40	28	34	27	12	0.24	0.5	6	0.9	-1.1	-30	1.4	-31	-30	30	-0.4	1.7	-1.6	0.6	35.1	-4	-6	-0.55	0.34	-0.51	-0.09
															33	46	43	42	38	39	40	30	28	16	15	31	30	33	23	50	30	28	26	28	26	27
KF 220005	6	PRB 170021		W 150960	91	103	96	104	100	97	99	95	95	105	103	91	91	95	103	96	99	103	98	85	99	112	110	106	90	113	96	96	95	123	88	99
97892947					49	42	44	46	42	40	44	36	39	35	9	0.96	0.5	2	2.1	-0.5	-16	5.8	-6	-28	3	0.7	7.0	-4.8	1.9	40.9	0	-2	-0.31	2.15	-0.93	-0.01
															40	49	48	46	42	44	44	36	36	21	24	38	38	41	30	54	37	36	34	36	34	35
KF 220037		MHB 040010		KF 160043	102	107	108	96	101	109	111	112	112	120	111	101	102	102	107	108	110	109	114	97	106	110	93	95	100	108	110	116	106	100	114	106
98705098					49	48	48	48	42	42	48	44	43	44	16	0.28	-0.5	9	3.6	2.4	9	9.2	18	-11	-11	0.7	-1.6	2.3	0.0	36.8	8	11	0.43	-0.04	0.60	0.09
															45	49	49	48	48	48	48	40	43	12	15	47	47	41	26	58	45	43	42	45	42	44
PNB 230001		MHB 110055		KF 180017	94	106	79	105	102	97	96	96	95	94	92	95	122	94	106	79	90	97	97	99	107	100	95	107	103	99	108	97	83	94	103	83
97042675					56	42	40	43	44	41	44	30	38	29	0	0.66	-2.4	2	3.3	-4.4	-35	2.1	-8	-8	-14	0.2	-0.4	-5.5	-0.7	29.5	7	-1	-1.12	-0.63	-0.06	-0.22
															35	57	52	43	42	40	42	30	29	11	15	33	32	47	30	55	31	29	28	30	28	29
PNB 240007	1	BH 180113		KF 180036	101	102	100	87	99	94	97	116	101	113	114	101	104	113	102	100	96	103	115	100	114	102	109	99	100	101	111	106	111	109	89	111
98826993					39	43	32	32	32	33	39	26	31	24	18	0.26	-0.8	19	2.0	0.6	-22	5.5	18	-7	-27	0.3	6.4	-0.1	-0.1	31.2	8	4	0.71	0.76	-0.86	0.15
															29	42	36	32	32	36	32	28	26	12	17	28	27	31	20	44	27	25	23	25	23	24

Breeding Values and Accuracies: Cows & Heifers

Animal				Selection Values											Birth			Wean				Growth & Adaptability					Fertility				Frame		Carcass			
ID Animal no	% Inbreeding	Genomic Parentage	Index EBV Acc	Sire ID Dam 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 -birth	Birth wt	Cow-Calf birth	Cow wt -wean	Wean dir	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 %
PNB 240008 6020241771	2	BH KF	180113 200020		120 56	81 46	97 38	101 38	99 33	92 39	83 45	111 30	97 36	96 29	100 6	115 -0.60	116 -1.9	97 4	81 -5.0	97 -0.3	86 -45	87 -3.2	111 13	93 -16	113 -26	97 0.1	110 6.9	99 -0.4	100 -0.1	106 35.7	79 -10	83 -10	122 1.46	102 0.16	99 -0.30	121 0.27
PNB 240009 98827322	1	KF KF	200019 180015		105 52	102 31	105 32	112 33	102 32	114 33	111 35	86 22	107 30	92 23	89 -3	102 0.21	101 -0.5	90 -2	102 2.1	105 1.7	104 -5	91 -0.8	89 -20	95 -13	86 29	94 0.0	93 -1.6	96 1.9	100 -0.1	107 36.5	95 -1	92 -4	93 -0.45	88 -1.23	97 -0.44	91 -0.11
PNB 240010 98827330	1	KF KF	200019 180017		93 54	108 35	98 34	102 35	107 33	108 35	107 38	95 24	105 32	97 24	98 5	90 0.99	95 0.1	97 4	108 3.9	98 0.1	109 6	110 9.3	93 -14	94 -16	93 14	103 0.4	96 -0.1	104 -3.3	106 -1.1	111 39.6	99 1	94 -3	94 -0.37	95 -0.55	102 -0.12	94 -0.08
PNB 250015 99839532	1	KF KF	200019 220005		100 38	99 33	97 33	113 35	107 31	109 31	102 34	94 24	105 29	97 23	92 0	97 0.56	98 -0.2	89 -2	99 1.0	97 -0.3	98 -17	98 3.1	94 -12	90 -21	91 18	108 0.6	106 4.9	104 -3.8	103 -0.6	117 43.8	91 -3	93 -4	91 -0.56	110 0.93	96 -0.46	93 -0.09
PNB 250016 99839540	1	KF PNB	200019 230001		102 41	101 33	89 32	114 34	108 32	110 31	101 34	95 22	106 28	91 21	87 -5	99 0.42	114 -1.7	89 -3	101 1.6	99 -2.2	94 -26	95 1.3	93 -13	97 -11	96 9	102 0.3	99 1.3	105 -4.1	110 -1.9	110 38.7	98 0	93 -3	85 -0.97	96 -0.46	103 -0.03	85 -0.19
PNB 260018 6020286107	1	BH KF	180113 220037		103 43	104 46	108 36	90 36	98 32	102 36	106 43	118 31	108 34	120 30	115 19	101 0.29	107 -1.0	109 14	104 2.7	108 2.3	105 -2	107 7.8	116 21	96 -12	107 -13	103 0.4	102 3.1	91 4.5	100 -0.1	105 34.7	103 4	106 4	114 0.97	113 1.21	105 0.04	116 0.21
PNB 260019 6020737307	1	KF KF	200019 180024		112 41	90 34	102 34	111 35	109 33	110 32	98 35	91 21	105 29	93 19	88 -3	108 -0.16	106 -1.0	90 -2	90 -2.0	102 1.1	97 -19	90 -1.5	90 -18	98 -10	85 30	109 0.6	104 3.8	109 -6.7	105 -1.0	110 38.7	90 -4	91 -5	95 -0.32	106 0.48	104 -0.02	96 -0.05

Selection List on Cow Value

Bulls 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	KF 200019	PABLO	GF 100023	BH 150075	0.0												
1	KF 200016	6915 KF20-16	PRB 170021	BH 170469	1.2												
2	KF 210010	KF210010	PRB 170021	KF 180016	5.0												
3	KF 210023	KF210023	B 060021	PRB 160038	0.0												
4	PNB 240006	LEONARDO	KF 200019	KF 210008	0.4												

Selection List on Cow Value

Cows 2 years and older

ID Sorted on ID	Name	Sire ID	Dam ID	% Inbreeding	Horned / Polled	Myostatin nt821 F94L Q204X	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	PNB 240009	DA VINCI	KF 200019	KF 180015	0.6			105	52	102	31	105	32	112	33	102	32	114	33	111	35	86	22	107	30	92	23
								★★★★☆																			
1	KF 180015	PAULA	VST 120112	KF150024	0.0			96	50	109	38	112	41	102	39	89	42	105	38	116	41	80	29	96	35	95	34
2	KF 180017	NAOMI	VST 140034	W 150996	2.4			87	61	120	50	99	46	90	47	100	47	105	46	114	51	97	37	103	43	104	36
3	KF 180035	5733 KF18-35	LW 090022	BH 110026	3.5			101	55	83	47	111	47	117	48	103	50	101	45	94	48	94	40	98	44	94	37
4	KF 180036	LOLA	PRB 140024	KF 130016	0.0			93	36	109	33	100	35	88	36	103	41	100	32	103	34	109	28	103	31	106	25
5	KF 220037	KF220037	MHB 040010	KF 160043	0.1			102	49	107	48	108	48	96	48	101	42	109	42	111	48	112	44	112	43	120	44
6	PNB 240010	PNB240010	KF 200019	KF 180017	1.1			93	54	108	35	98	34	102	35	107	33	108	35	107	38	95	24	105	32	97	24
								★★★★																			
1	KF 190041	ELLIE	BU 140085	DBC 150056	0.5			101	48	96	44	103	43	99	45	97	43	95	40	97	45	108	29	98	37	104	25
2	KF 200020	MARTINA	TLM 040578	KF 140027	0.0			121	57	69	49	88	53	123	54	104	45	93	46	74	52	99	42	93	45	72	41
3	KF 210008	CHANTELLE	PRB 170021	KF 180020	3.5			97	45	99	38	93	39	99	42	100	35	93	36	94	40	79	28	86	34	94	27
4	KF 220005	KHALESİ	PRB 170021	W 150960	6.4			91	49	103	42	96	44	104	46	100	42	97	40	99	44	95	36	95	39	105	35
5	PNB 230001	XAVIER	MHB 110055	KF 180017	0.0			94	56	106	42	79	40	105	43	102	44	97	41	96	44	96	30	95	38	94	29
6	PNB 240007	EVA	BH 180113	KF 180036	1.4			101	39	102	43	100	32	87	32	99	32	94	33	97	39	116	26	101	31	113	24
7	PNB 240008	PNB240008	BH 180113	KF 200020	1.6			120	56	81	46	97	38	101	38	99	33	92	39	83	45	111	30	97	36	96	29
								★★★★☆																			
1	KF 200025	6836 KF20-25	BU 140085	KF170055	0.0			105	33	86	37	110	35	93	36	87	33	81	31	88	36	77	26	74	30	83	22

Selection List on Cow Value
Bull calves younger than 2 years

ID Sorted on ID		Name	Sire ID	Dam ID	Visual Score % Inbreeding	Horned / Polled	Myostatin nt821 F94L Q204X		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	PNB 260020	NICO	KF 200019	KF 200020	0.0					10841	9335	9736	12138	10932	11433	10137	9627	11031	8126
										★★★★☆									
1	PNB 250017	KOJAK	KF 200019	KF 180036	0.9					10235	9930	9830	10032	10931	10529	9931	10122	10527	9820
2	PNB 260021	OLIVER	KF 200019	KF 180015	0.6					10239	10031	10032	11233	10231	10930	10533	8622	10228	9223
3	PNB 260022	BRUNO	KF 200019	KF 180017	1.1					10043	10235	9934	10235	10733	10733	10236	9524	10430	9724

Selection List on Cow Value

Heifers younger than 2 years

ID			Name	Sire ID	Dam ID	Visual Score	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						% Inbreeding		nt821	F94L	Q204X		Acc	Acc	Acc	Acc	Acc	Acc	Acc	Acc										
											★★★★																		
1	PNB 250016	PNB250016	KF 200019	PNB 230001	0.5					102	41	101	33	89	32	114	34	108	32	110	31	101	34	95	22	106	28	91	21
2	PNB 260019	PNB260019	KF 200019	KF 180024	1.3					112	41	90	34	102	34	111	35	109	33	110	32	98	35	91	21	105	29	93	19
											★★★★☆																		
1	PNB 250015	ATHENA	KF 200019	KF 220005	0.6					100	38	99	33	97	33	113	35	107	31	109	31	102	34	94	24	105	29	97	23
2	PNB 260018	PNB260018	BH 180113	KF 220037	1.0					103	43	104	46	108	36	90	36	98	32	102	36	106	43	118	31	108	34	120	30

