

TULI

GENOMIC BREEDING VALUE REPORT

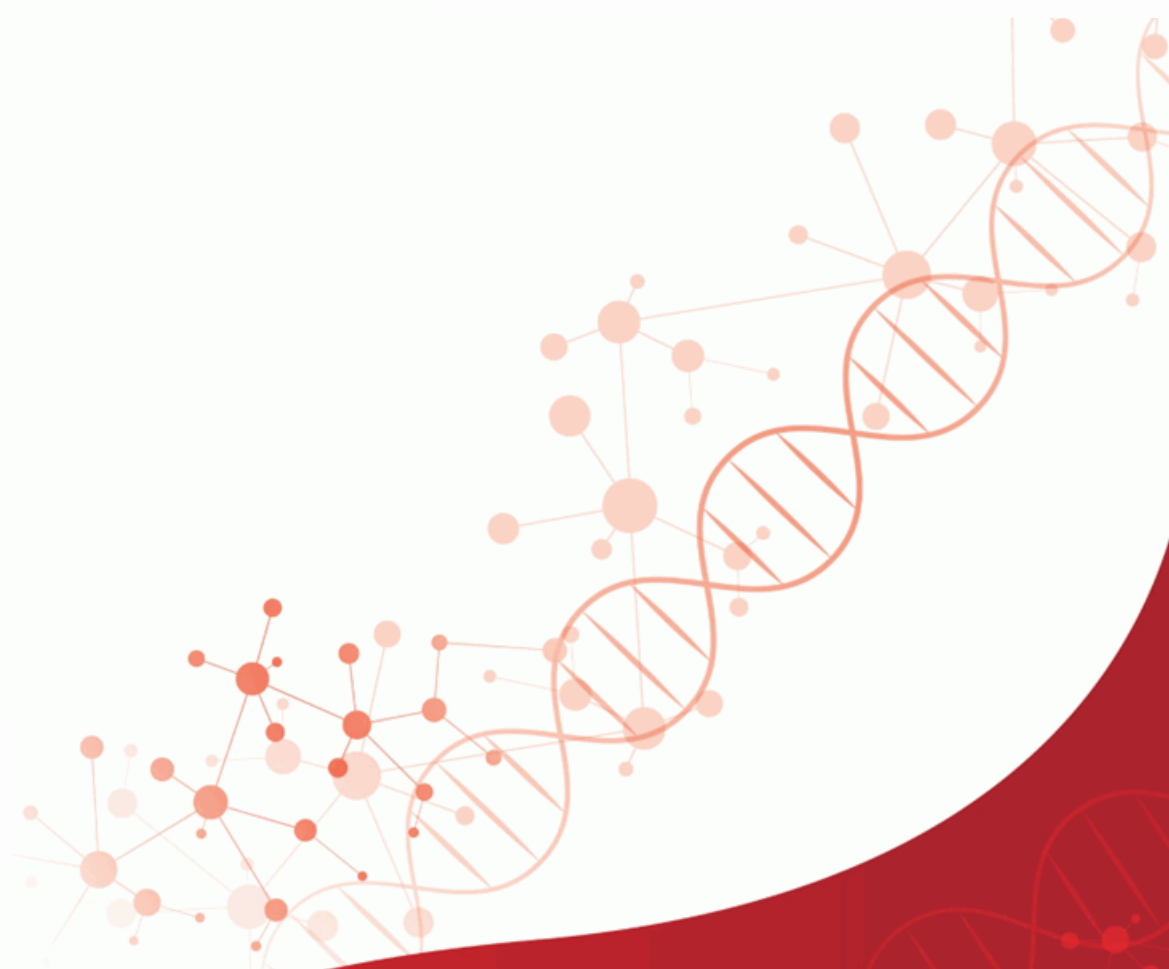
September 2026



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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

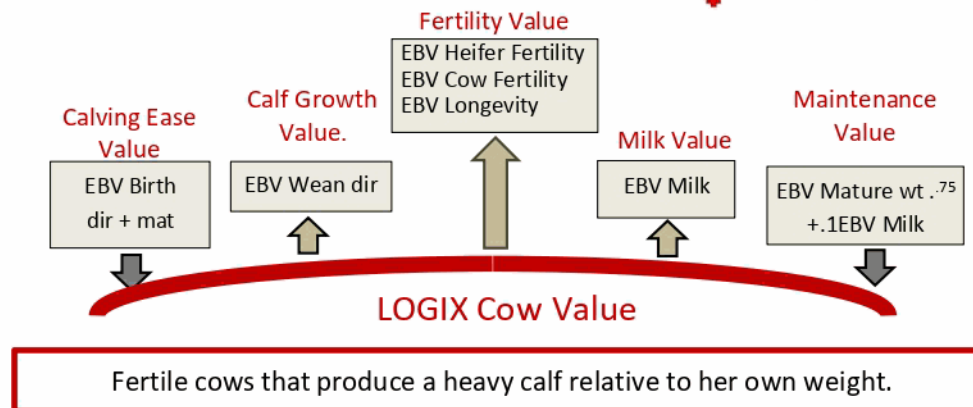
EBVi (Breeding Value Index): Genetic potential relative to the average (100) of the live animals in the breed. Roughly 50% of the animals have values between 90 and 110. Values above 100 tend to be in the more favourable direction.

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

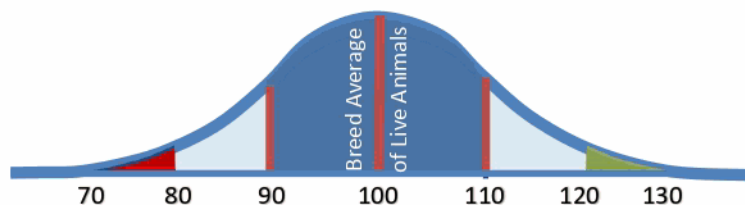
Growers are usually heavier at birth (lower Calving Ease Value), and maturity (lower Maintenance Value).

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

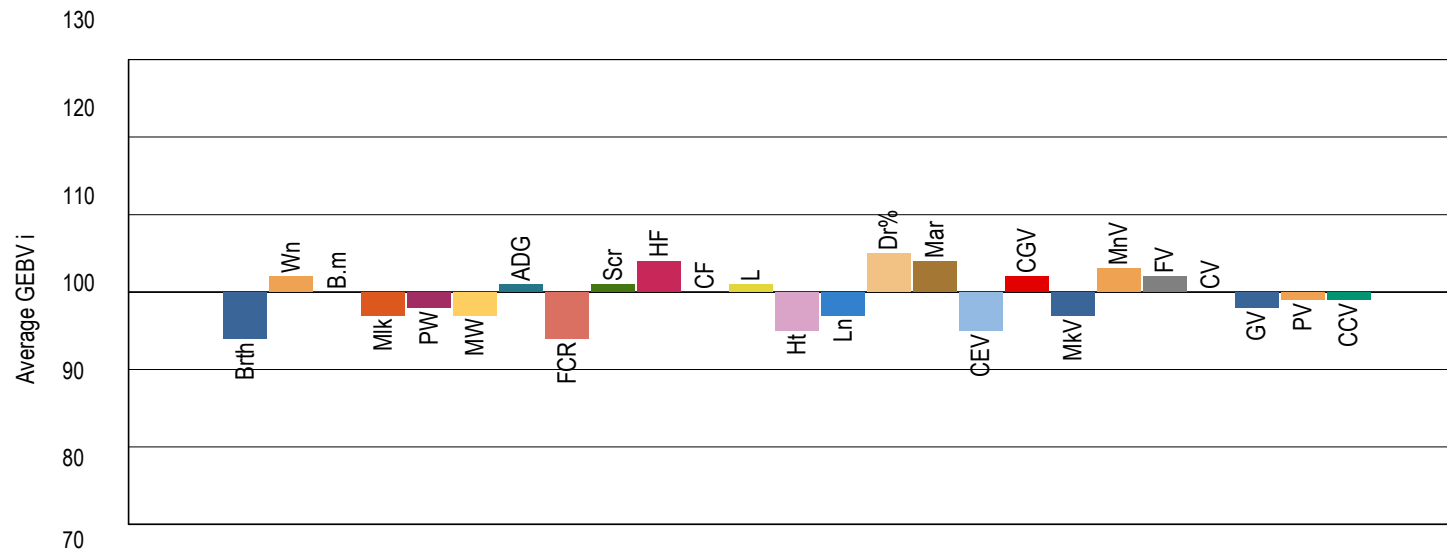


Examples

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	1.46	94	0.97
	Wean Weight	7.2	102	6.4
	Birth Mat.	0.05	100	0.05
	Milk (Wn.Mat.)	1.0	97	1.9
Postwean Growth	Postwean Wt	9.1	98	10.1
	Mature Weight	15	97	18
	ADG	89	101	87
	FCR	-12	94	-17
Fertility	Scrotal Circumf.	13.4	101	12.8
	Heifer Fertility	-7.8	104	-5.9
	Cow Fertility	-2.7	100	-2.6
	Longevity	19.2	101	18.6
Frame	Height	11	95	14
	Length	21	97	23
Carcass	Dressing%	0.10	105	0.04
	Marbling	0.32	104	-0.12

Selection Value	Ave. Herd
Calving Ease	95
Calf Growth	102
Milk	97
Maintenance	103
Fertility	102
Cow Value	100
Growth Value	98
Production Value	99
Carcass Value	99

- 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?:

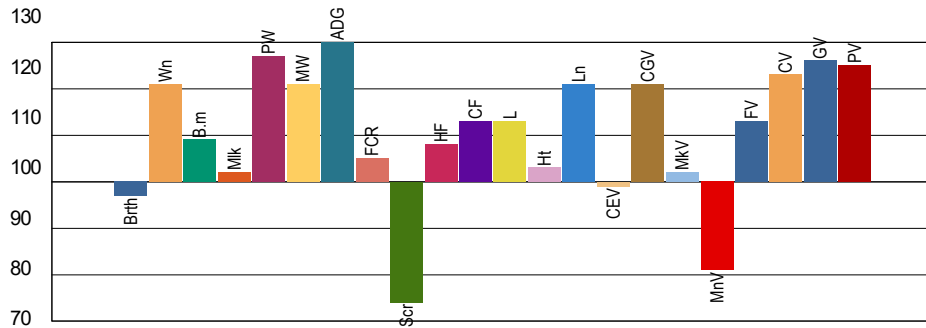
Calving ease:	Smaller calf at birth - easier calving
Calf growth:	Heavier calves at wean due to growth potential of the calf
Milk:	Cows with more milk and better mothering ability
Maintenance:	Animals with low maintenance requirements (lower mature weight).
Fertility:	Cows/daughters that calve earlier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

Genetic Windows

Bulls on the farm

Bulls born in 2023 and earlier

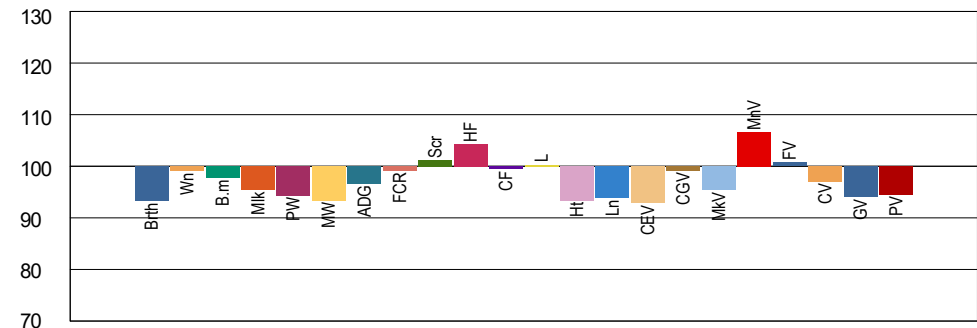
Total: 1



Cow Herd

Cows born in 2024 and earlier

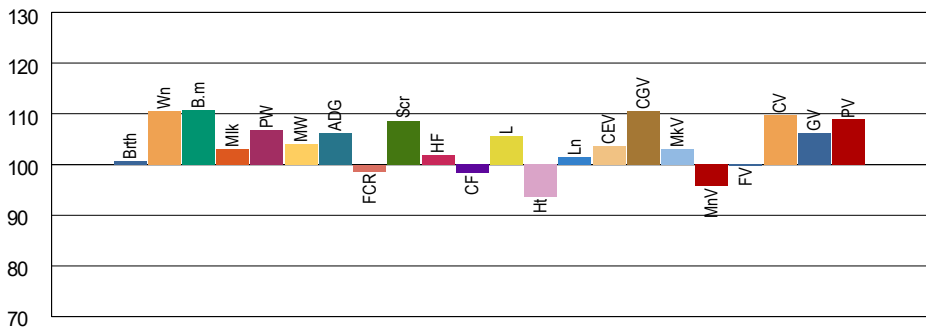
Total: 27



Sires of young animals

Sires of animals 3 years and younger

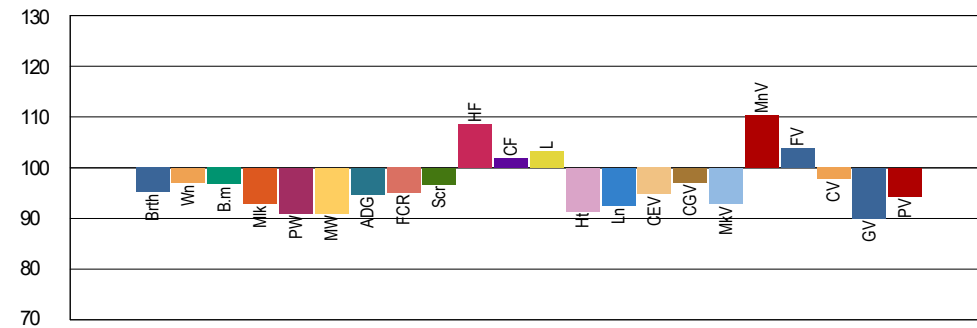
Total: 8



Cows older than 6 years

Cows born in 2020 and earlier

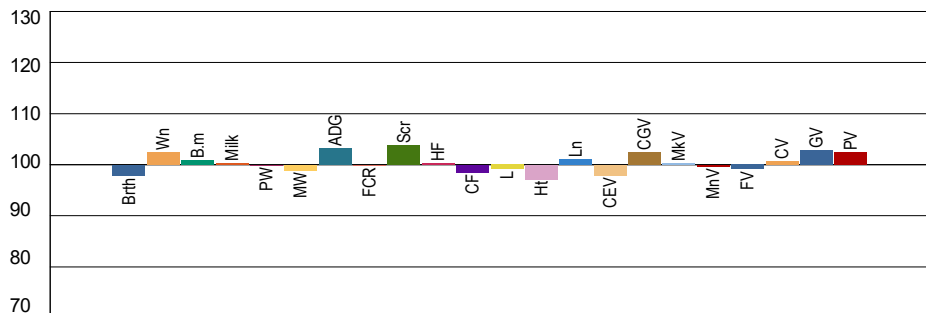
Total: 12



Bull calves

Bulls born in 2025

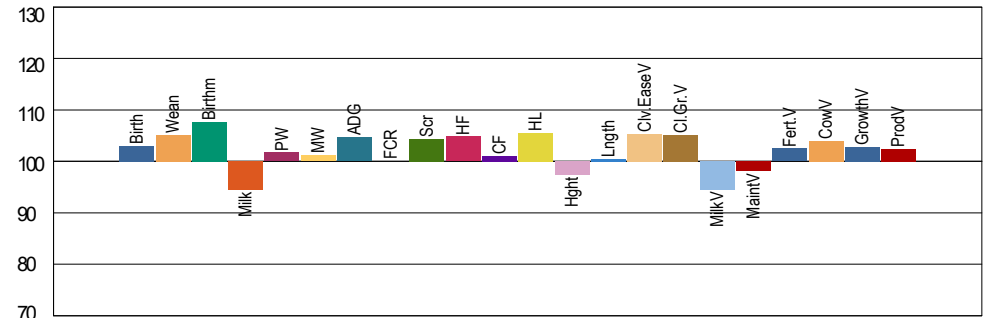
Total: 8



Heifer calves

Heifers born in 2025

Total: 6

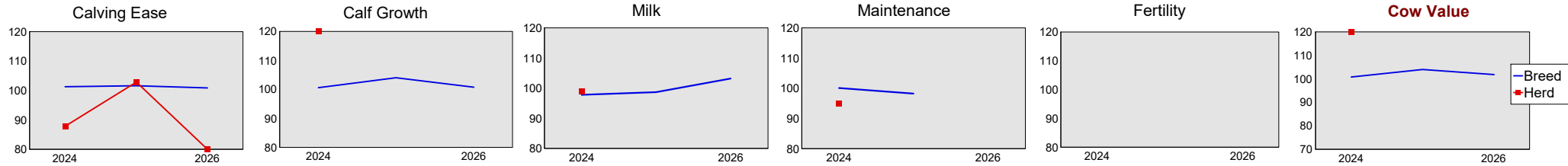


Summary of Cow Herd

			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	99
2016	3	★★★★	103	88	89	111	110	95	88	91	104	88	101	89	83	90	87	90	91	120	106	104	83	81	
2017	2	★★	73	97	91	118	81	77	85	74	78	97	76	91	92	85	97	102	90	90	80	97	100	98	
2018	1	★★★★★	97	109	94	134	101	113	93	109	95	109	108	94	95	72	100	91	101	117	95	123	95	101	
2019	4	★★★★☆	95	100	94	102	109	102	90	99	95	100	94	94	95	99	95	95	97	105	109	101	90	94	
2020	2	★★★★☆	102	99	100	106	110	107	97	104	101	99	112	100	92	93	103	98	109	113	107	104	96	97	
2021	4	★★★★	96	102	87	101	97	92	98	91	98	102	96	87	100	98	101	109	110	100	96	101	103	103	
2022	5	★★★★	90	100	93	107	104	98	92	95	90	100	99	93	95	93	94	102	109	106	102	97	92	88	
2023	1	★★★★☆	120	98	94	102	82	88	98	87	117	98	108	94	92	97	93	96	112	83	83	100	83	91	
2024	5	★★★★☆	83	101	111	102	98	100	102	99	84	101	98	111	97	95	101	99	96	100	97	97	93	96	
2025	6	★★★★☆	105	105	95	98	103	104	103	102	103	105	108	95	102	101	105	100	104	105	101	106	98	101	
Cows in Herd Average:			96	100	95	108	100	98	95	95	97	100	100	95	94	92	98	105	102	104	98	103	93	95	

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.



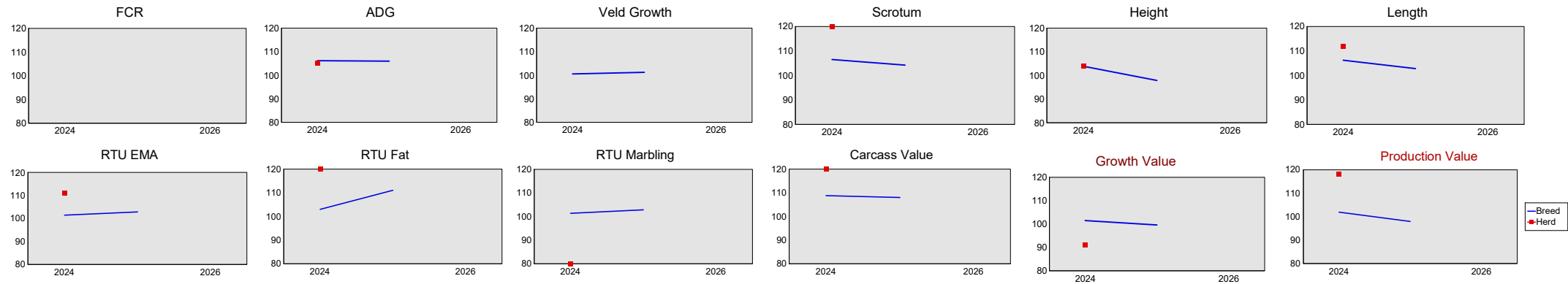
Herd

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		
2024	12	2.15	-0.09	88	1	15.4	122	1	1.74	99	1	16.8	95									123
2025	12	0.84	-0.08	103																		
2026	1	3.13	0.18	77																		

Breed

Birth Year	Calving Ease				Calf Growth			Milk			Maintenance				Fertility						Cow Value		
	Birth Weight		Mat EBV	Calv. Ease	Weaning Weight		Calf Growth	Milk (Wn.Mat.)		Milk	Postwean Weight		Mature Weight		Mainte- nance	Heifer Fert.		Cow Fert.		Longevity		Ferti- lity	
	Number	Dir EBV			Number	EBV		Number	EBV		Number	EBV	Number	EBV		Number	EBV	Number	EBV	Number			EBV
2016	2171	0.78	0.07	102	1651	4.0	94	1651	0.40	95	1062	6.0	383	12	108	427	-4.7	355	-1.8	2674	10.5	95	91
2017	2227	0.89	0.08	101	2114	4.6	96	2114	1.16	98	1376	7.6	385	14	105	484	-3.3	392	-2.2	2798	11.1	95	93
2018	2263	0.84	0.10	102	1983	4.9	96	1983	1.03	97	1247	8.3	468	16	104	513	-4.1	443	-1.9	2893	11.5	96	94
2019	2067	0.93	0.11	100	1915	5.2	97	1915	0.69	96	1206	8.5	497	15	103	538	-3.4	421	-2.1	2891	12.0	96	93
2020	2001	0.98	0.08	100	1997	5.9	99	1997	0.82	96	1278	9.6	447	18	101	515	-4.2	397	-2.4	2710	12.9	97	95
2021	2357	0.90	0.01	101	2345	5.9	99	2345	1.14	97	1597	9.1	446	19	101	497	-5.2	357	-2.8	2841	14.4	99	98
2022	2348	0.93	0.03	101	2331	5.8	99	2331	0.96	97	1400	9.1	413	17	102	468	-5.4	99	-2.3	800	13.4	100	97
2023	2371	0.90	0.06	101	2438	6.2	99	2438	1.25	98	1429	10.0	51	18	100	100	-4.0	3	-4.2			99	99
2024	2359	0.89	0.02	101	2094	6.7	101	2094	1.25	98	1225	10.8			100	2	-4.8					85	101
2025	2513	0.83	0.04	102	1670	8.1	104	1670	1.52	99	181	12.0			98								104
2026	332	0.87	0.14	101	74	6.7	101	74	2.95	103													102

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				1	97	105				1	23.5	123	1	16	104	1	30	112	1	1.07	111	1.25	124	-2.75	78	122	91	118
2025																												
2026																												

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	104	151	89	101	1148	22	98	151	13.0	100	151	14	100	151	22	100	97	0.24	100	-0.05	107	0.32	104	104	97	97	
2018	4	-20	103	147	78	95	1070	21	98	147	14.2	103	147	13	98	147	20	96	114	0.09	98	-0.36	102	-0.07	100	96	94	93	
2019				155	85	99	987	21	98	155	13.5	101	155	14	99	155	22	99	87	0.31	101	-0.55	100	0.30	103	102	96	93	
2020				242	92	102	966	22	98	259	13.7	102	260	16	103	260	24	103	185	0.40	102	-0.52	100	0.39	104	105	99	98	
2021				213	95	104	1303	23	99	212	14.5	104	213	15	102	213	25	103	192	0.52	104	-0.27	104	0.62	106	107	101	101	
2022				233	98	105	1090	25	99	233	16.1	107	233	16	104	233	25	104	199	0.40	102	-0.26	104	0.31	104	106	101	100	
2023				205	91	102	1157	25	100	216	15.0	105	209	15	102	209	25	103	216	0.45	103	-0.16	105	0.06	101	104	99	100	
2024				187	99	106	947	27	101	179	15.8	106	198	16	104	198	27	106	172	0.50	103	-0.31	103	0.05	101	109	101	102	
2025				8	99	106	152	29	101	8	14.9	104	17	13	98	17	24	103	13	0.25	100	0.27	111	0.21	103	108	100	98	
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 Thckn	Scrotum	Heifer Fert	Cow Fert.	Longevity	Height	Length	EMA	Fat	Marbling	Dress %	Nr measured		
Birth																																			Wean		
ID																																				Grwth Test	Dght&clv (Weaned)
ADM 170001 86072121		TT 130024 ADM 140003		125	115	53	105	102	99	92	96	109	96	120	123	97	115	53	68	99	105	81	92	140	99	91	105	100	99	106	102	150	114	108	93	70	
				95	95	89	90	75	84	88	85	89	16	-0.67	-2.8	12	12.6	-12.7	-40	9.8	97	-21	-10	1.71	12.2	-1.1	-3.5	18.6	14	26.6	0.42	3.11	1.55	0.14	13	15	29
ADM 230042 95690376		GH 190009 ADM 210009		93	112	97	105	92	102	109	103	113	93	93	94	93	112	97	110	105	105	95	98	101	110	105	88	105	98	94	78	132	104	82	7		
				87	85	81	80	71	77	81	78	83	13	1.59	0.5	9	11.5	0.9	60	12.7	97	14	-16	0.13	17.6	-8.5	-0.6	21.8	13	18.7	-1.38	1.81	0.35	-0.21			
DKH 170407 86539392		HBH 060999 AM 110003		108	120	94	85	130	133	103	130	120	115	109	110	117	120	94	103	116	101	103	80	102	66	112	131	104	91	107	105	126	131	108	85	80	
				96	96	91	91	79	86	88	86	92	34	0.26	-1.4	34	14.7	0.2	43	18.6	88	33	0	0.20	-2.9	-11.8	-8.0	20.9	9	27.3	0.64	1.36	3.58	0.15	22	8	20
GH 120013 75880682		HBH 090203 GH 090026		108	81	100	128	96	89	85	85	82	83	112	82	78	81	100	94	74	77	92	98	113	91	115	90	91	93	78	81	133	121	84	21	15	
				89	89	84	84	72	79	78	79	78	3	-0.06	1.9	-8	-1.6	1.9	22	-3.5	42	6	-15	0.62	8.8	-13.3	-0.9	12.8	10	8.3	-1.15	1.86	2.46	-0.18	4	18	
GH 130038 78793304		XY 100049 ADM 070005		85	106	60	78	123	92	103	92	94	124	86	102	130	106	60	59	112	94	123	87	88	92	87	133	104	105	93	99	89	95	98	116	107	
				95	96	91	91	58	80	33	71	50	43	2.14	-0.4	48	8.7	-10.8	-62	16.4	75	82	-6	-0.38	8.9	0.5	-8.3	21.3	17	18.2	0.19	-1.32	-0.71	0.01	40	12	
GH 140001 78888641		ASE 060103 GH 080001		77	131	50	98	73	77	141	86	119	105	78	86	105	131	50	74	128	149	114	147	96	145	65	80	88	150	133	111	82	100	110	163	137	
				97	97	93	93	80	87	90	88	92	24	2.82	1.4	21	19.3	-14.0	-24	24.9	184	60	-59	-0.07	33.6	11.8	0.9	11.0	43	43.9	1.08	-1.86	-0.08	0.17	41	23	48
GH 140006 80422959		XY 100005 GH 110022		99	97	89	102	110	99	106	99	85	95	95	108	97	97	89	88	93	100	106	90	78	99	99	111	110	99	86	94	72	55	91	73	58	
				95	95	92	92	80	86	90	87	92	15	1.43	-1.1	13	5.3	-1.6	8	6.4	86	41	-8	-0.79	12.2	-5.5	-4.5	24.7	14	13.7	-0.17	-2.58	-5.54	-0.09	18	13	23
GH 150004 82505389		XY 120065 XY 120042		120	90	59	142	71	67	103	69	97	69	116	119	66	90	59	61	82	101	105	83	112	84	106	63	96	83	78	95	140	129	99	223	195	
				95	97	86	90	54	78	44	71	76	-11	-0.33	-2.4	-21	2.4	-10.9	-55	0.6	90	37	-3	0.59	5.2	-8.7	3.9	15.8	4	8.7	-0.13	2.38	3.36	0.02	17	40	45
GH 190009 89773113		AVR 150076 GH 160063		92	99	102	116	84	91	82	86	84	85	92	88	84	99	102	109	87	81	87	87	115	111	94	83	82	81	79	74	87	75	73	105	79	
				96	96	91	90	80	86	90	87	92	5	1.66	1.2	-1	6.2	2.5	58	3.4	48	-7	-6	0.70	17.8	-2.9	0.4	7.0	3	9.3	-1.66	-1.46	-3.09	-0.34	24	1	1
GH 190057 89773576		AM 130234 GH 150067		83	110	126	95	107	120	128	123	126	101	76	100	102	110	126	132	106	118	111	102	90	98	99	108	94	98	104	134	110	105	135	105	71	
				95	95	90	89	78	85	87	85	88	21	2.96	-0.2	18	10.6	10.0	111	13.4	124	54	-19	-0.31	11.9	-5.4	-4.0	15.1	13	25.3	2.74	0.23	0.47	0.51	8	6	9
GH 220096 94572575		A 180005 GH 170011		102	123	94	87	117	126	98	122	113	115	98	115	115	123	94	106	120	101	97	95	94	116	124	111	110	98	105	118	100	115	118	16		
				78	68	54	55	32	52	24	46	41	34	1.15	-1.9	32	16.0	0.2	51	20.6	88	18	-13	-0.12	20.1	-18.0	-4.6	25.1	13	26.0	1.58	-0.55	1.71	0.28			
H 050089 62490305		H 990022 H 980036		84	124	97	80	120	124	108	122	123	120	85	99	123	124	97	106	127	113	109	95	67	90	109	121	96	77	109	124	100	133	124	532	419	
				99	99	98	98	92	93	96	94	97	39	2.19	-0.1	41	16.4	1.0	49	24.1	112	47	-13	-1.19	8.1	-10.3	-6.3	15.8	1	28.5	2.00	-0.54	3.86	0.36	91	134	470
HBH 140043 80248537		H 050089 HBH 061011		108	121	109	99	135	147	101	141	127	101	102	114	99	121	109	126	111	112	86	98	89	111	141	128	130	100	115	124	144	103	129	46	44	
				93	93	90	89	64	80	44	73	68	21	0.77	-1.8	15	15.0	4.7	97	16.0	110	-8	-16	-0.35	18.1	-26.3	-7.4	37.2	14	32.1	2.03	2.67	0.20	0.43	23	10	
HBH 200074 91286195		V 130187 HBH 120052		137	96	95	108	80	90	82	86	87	94	131	133	91	96	95	96	85	79	80	91	75	128	95	76	106	57	80	117	85	111	114	33	31	
				94	94	89	89	79	85	88	86	90	14	-1.60	-3.9	6	4.7	0.3	27	2.0	46	-24	-10	-0.88	25.9	-3.6	1.5	22.0	-10	10.0	1.47	-1.60	1.17	0.23	3		

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
HBH 210006		DKH 170407	99	121	102	81	113	123	126	125	131	120	97	112	121	121	102	109	127	135	114	105	89	74	108	113	113	103	121	118	130	137	121	3		
92712256		HBH 100237	88	87	85	84	74	79	82	80	86	39	1.25	-1.6	39	14.9	2.7	57	24.5	156	61	-22	-0.33	0.7	-9.9	-4.8	26.6	16	36.3	1.58	1.68	4.32	0.33			
			88	87	85	84	74	79	82	80	86	39	1.25	-1.6	39	14.9	2.7	57	24.5	156	61	-22	-0.33	0.7	-9.9	-4.8	26.6	16	36.3	1.58	1.68	4.32	0.33			
TT 150053		AM 100079	93	106	108	99	122	121	84	115	102	97	96	90	99	106	108	112	107	92	126	111	110	125	116	121	92	82	91	101	150	110	107	94	65	
82375395		XY 100030	96	95	91	91	79	86	88	86	90	17	1.34	1.0	15	8.7	4.3	65	13.9	72	91	-27	0.50	24.5	-14.0	-6.2	13.5	4	16.6	0.35	3.11	1.11	0.13	17	13	
			96	95	91	91	79	86	88	86	90	17	1.34	1.0	15	8.7	4.3	65	13.9	72	91	-27	0.50	24.5	-14.0	-6.2	13.5	4	16.6	0.35	3.11	1.11	0.13	17	13	
TT 210035		GH 140006	96	103	122	89	107	114	120	115	110	106	95	104	109	103	122	119	106	109	134	103	90	98	101	107	125	104	99	98	78	65	96	54	50	
92304393		TT 170034	92	93	83	82	72	80	81	80	84	26	1.41	-0.6	26	7.5	8.8	80	13.2	105	109	-20	-0.27	12.0	-6.3	-3.9	34.4	16	22.0	0.11	-2.14	-4.32	-0.02			
			92	93	83	82	72	80	81	80	84	26	1.41	-0.6	26	7.5	8.8	80	13.2	105	109	-20	-0.27	12.0	-6.3	-3.9	34.4	16	22.0	0.11	-2.14	-4.32	-0.02			
TT 210047		ADM 170001	127	120	87	85	98	112	105	111	135	117	123	127	117	120	87	97	118	122	108	108	139	134	89	100	110	110	129	151	133	146	151	42	13	
92461656		TT 180062	92	90	85	85	74	81	84	82	86	36	-0.98	-3.2	35	14.9	-2.0	29	19.3	131	46	-25	1.66	28.6	-0.3	-2.7	25.1	20	41.4	3.99	1.84	5.44	0.74	5		
			92	90	85	85	74	81	84	82	86	36	-0.98	-3.2	35	14.9	-2.0	29	19.3	131	46	-25	1.66	28.6	-0.3	-2.7	25.1	20	41.4	3.99	1.84	5.44	0.74	5		
W 050018		JM 960055	82	102	101	116	71	81	64	74	81	84	86	72	84	102	101	111	89	68	88	72	90	99	89	68	77	81	90	78	73	87	76	83	31	
61914313		W 960071	92	90	84	81	58	75	41	68	46	5	2.16	3.0	-1	7.4	2.3	62	4.4	24	-4	7	-0.29	12.2	-0.4	2.9	4.0	3	16.2	-1.35	-2.48	-1.65	-0.30	10	11	
			92	90	84	81	58	75	41	68	46	5	2.16	3.0	-1	7.4	2.3	62	4.4	24	-4	7	-0.29	12.2	-0.4	2.9	4.0	3	16.2	-1.35	-2.48	-1.65	-0.30	10	11	
W 070014		JM 960055	98	103	84	117	63	72	82	69	89	86	96	94	84	103	84	94	93	91	93	83	103	99	66	67	86	84	93	100	74	96	97	69	62	
64791593		W 040018	93	94	87	87	58	78	34	69	46	6	1.31	0.5	-1	7.6	-3.0	21	6.4	69	10	-2	0.22	12.6	11.4	3.1	9.8	5	17.8	0.25	-2.38	-0.59	0.00			
			93	94	87	87	58	78	34	69	46	6	1.31	0.5	-1	7.6	-3.0	21	6.4	69	10	-2	0.22	12.6	11.4	3.1	9.8	5	17.8	0.25	-2.38	-0.59	0.00			
W 140043		ASE 090026	118	87	94	108	88	84	72	78	67	87	119	101	91	87	94	88	83	67	100	113	70	145	103	83	92	95	85	75	50	127	68	122	109	
80831340		W 110054	96	97	94	94	81	88	90	88	92	7	-0.65	-0.3	6	1.2	0.1	8	1.4	21	26	-29	-1.10	33.6	-7.3	0.3	13.8	11	13.0	-1.55	-4.12	3.17	-0.40	29	28	
			96	97	94	94	81	88	90	88	92	7	-0.65	-0.3	6	1.2	0.1	8	1.4	21	26	-29	-1.10	33.6	-7.3	0.3	13.8	11	13.0	-1.55	-4.12	3.17	-0.40	29	28	
XY 120035		XY 100077	123	84	88	138	108	100	80	95	66	70	122	139	68	84	88	88	64	80	80	85	79	89	114	105	90	68	69	91	78	85	88	20	13	
76698653		XY 090038	85	84	76	73	42	66	34	60	52	-10	-0.91	-4.6	-18	-0.3	-1.7	9	-9.0	47	-23	-4	-0.71	7.7	-13.0	-3.5	12.4	-4	2.7	-0.38	-2.11	-1.94	-0.12	1	5	
			85	84	76	73	42	66	34	60	52	-10	-0.91	-4.6	-18	-0.3	-1.7	9	-9.0	47	-23	-4	-0.71	7.7	-13.0	-3.5	12.4	-4	2.7	-0.38	-2.11	-1.94	-0.12	1	5	

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		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 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 %
				EBV	Acc																																		
HBH 210006	92712256	11	DKH 170407 HBH 100237	99	121	102	81	113	123	121	126	125	131	120	97	112	121	121	102	109	127	135	114	105	89	74	108	113	113	103	121	118	130	137	121				
				88	87	85	84	74	79	86	82	80	86	39	1.25	-1.6	39	14.9	2.7	57	24.5	156	61	-22	-0.3	0.7	-9.9	-4.8	26.6	16	36	1.58	1.68	4.32	0.33				
														83	89	86	84	87	85	85	86	85	81	79	88	87	82	66	84	87	85	85	86	85	86				
PX 240090	98865801	6	GH 190057 TT 190016	79	113	110	95	107	114	113	109	113	107	103	70	85	104	113	110	119	107	109	102	99	95	102	104	106	95	96	103	117	99	96	116				
				68	59	51	49	28	46	58	24	42	36	23	3.49	1.6	20	11.9	5.2	80	13.9	105	31	-17	-0.1	13.5	-8.1	-3.7	15.4	12	25	1.50	-0.62	-0.65	0.26				
														27	73	57	49	59	51	53	56	38	28	5	46	44	37	19	47	43	38	34	39	34	36				
PX 240091	98865819	7	GH 190057 TT 160063	83	108	109	97	112	115	109	117	116	108	100	81	96	101	108	109	115	104	118	104	106	100	103	107	112	97	100	104	122	109	96	123				
				68	59	51	50	27	46	58	24	42	38	20	2.55	0.3	17	9.8	4.7	71	12.1	122	37	-23	0.1	14.4	-9.2	-4.7	16.9	14	25	1.89	0.14	-0.54	0.35				
														27	73	57	50	59	51	53	58	37	28	6	46	44	36	18	47	42	37	35	40	36	38				
PX 250001	98865363	5	GH 190057 ADM 200033	104	99	105	102	101	103	104	118	105	114	97	99	114	96	99	105	106	95	116	111	101	99	100	107	97	96	99	101	117	124	113	119				
				68	59	47	45	28	45	56	24	41	38	16	1.09	-1.8	11	5.9	3.6	51	7.3	118	52	-18	0.1	12.8	-9.5	-2.2	16.4	14	23	1.47	1.20	1.51	0.30				
														31	73	55	45	59	47	50	57	37	27	6	44	43	38	18	46	41	37	35	40	36	38				
PX 250004	98865884	4	GH 190057 GH 170079	78	102	111	102	94	98	102	104	98	101	95	79	83	95	102	111	115	98	108	119	104	99	93	94	95	96	100	102	108	93	100	107				
				59	59	50	50	28	45	56	22	40	36	15	2.76	1.8	11	7.3	5.5	72	9.2	103	73	-21	0.1	9.5	-2.7	-1.8	16.2	14	24	0.85	-1.00	-0.10	0.14				
														37	62	53	50	59	50	53	58	36	28	5	44	42	38	18	47	40	36	33	38	33	36				
PX 250005	99324758	5	TT 210047 GH 190037	104	107	81	89	109	101	93	101	100	110	112	105	104	113	107	81	83	107	105	115	103	120	110	93	113	107	103	106	123	114	127	124				
				66	55	44	46	24	42	54	29	39	40	31	0.53	-0.6	29	9.4	-4.0	-4	13.6	98	62	-20	0.9	17.4	-2.2	-4.8	22.6	16	26	1.98	0.48	3.16	0.37				
														27	72	54	46	55	44	48	54	38	28	16	47	45	30	18	42	43	38	37	42	37	40				
PX 250006	99270225	6	GH 190057 ADM 190051	81	108	119	96	101	111	115	103	109	113	100	80	93	101	108	119	125	103	105	101	95	96	102	96	102	97	91	99	122	125	104	124				
				68	59	49	49	28	46	57	26	42	40	20	2.63	0.7	17	9.8	8.0	95	11.6	97	28	-13	-0.1	13.6	-4.0	-2.9	17.0	9	22	1.85	1.32	0.39	0.37				
														30	73	57	49	59	49	52	57	40	27	8	47	46	36	19	46	43	39	38	43	38	40				
PX 250009	6020591654		HBH 190079	114	91	100	112	93	93	95			96	84	113	103	87	91	100	98	96	88	105	95	99	89	106	89	78	89	92	114	101	71	114				
				59	35	38	38	25	34	39			28	5	-0.11	-0.5	2	2.5	1.8	31	8.2	63	37	-13	0.1	7.5	-8.8	-0.7	4.8	8	17	1.29	-0.43	-3.57	0.23				
														38	64	46	38	35	38	37	32	29	27	8	31	31	29	21	34	30	29	27	29	27	28				
PX 250010	6020591696	3	TT 210047 ADM 160015	112	96	96	93	99	94	92	91	92	108	106	114	105	106	96	96	90	95	96	103	102	111	110	108	96	109	97	102	118	121	137	120				
				67	52	47	46	22	41	53	29	39	40	26	-0.19	-0.8	23	4.7	0.7	13	7.7	79	33	-20	0.5	17.3	-10.0	-1.9	24.3	13	24	1.59	0.99	4.35	0.31				
														25	72	55	46	52	47	48	48	38	26	16	47	45	27	16	41	43	38	37	42	37	40				
PX 250012	6020603160	6	ADM 230042 ADM 200003	89	109	105	103	108	114	111	98	111	108	93	90	90	94	109	105	115	101	99	92	96	105	113	108	107	107	94	95	90	136	99	94				
				64	50	42	41	21	39	50	24	36	39	13	1.84	1.0	10	10.2	3.5	72	10.5	84	6	-14	0.3	18.9	-9.7	-3.9	22.8	11	19	-0.49	2.08	-0.24	-0.05				
														28	70	51	41	50	42	44	46	37	17	7	38	44	26	16	37	36	33	37	41	37	39				
PX 250014	6020591688	6	TT 210047 GH 170091	101	108	86	100	88	92	100	96	90	109	99	103	95	99	108	86	93	104	109	108	103	128	113	90	89	103	104	112	120	111	122	121				
				67	53	46	46	24	42	53	28	39	37	19	0.76	0.3	15	9.7	-2.6	19	12.1	105	45	-20	1.2	18.8	-1.0	-0.7	20.1	17	30	1.72	0.28	2.53	0.32				
														24	72	54	46	53	46	48	50	37	28	16	44	43	30	17	42	41	37	35	39	35	37				
PX 260001	6020583792	7	HBH 210006 TT 190016	77	121	99	88	110	116	113	108	115	110	112	74	89	113	121	99	110	121	117	103	101	95	89	109	109	104	99	112	109	109	112	110				
				65	51	46	45	26	42	51	24	38	38	32	3.13	1.1	30	15.2	1.7	59	20.9	121	34	-19	-0.1	7.9	-10.3	-4.1	21.2	14	30	0.92	0.11	1.27	0.17				
														30	70	53	45	51	46	47	48	39	22	5	48	45	32	20	41	44	39	36	41	36	38				

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	% Inbreeding	Genomic	Index	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 Thickn	Scrotum	Heifer Fert	Cow Fert.	Longevity	Height	Length	EMA	Fat	Marbling	Dress %
Animal no		Parentage	EBV Acc																																
ADM 160015		GH 120013		96	72	105	103	99	77	65	77	73	80	96	103	80	95	72	105	84	74	70	98	96	83	85	128	91	108	84	75	83	109	127	84
88517982		ADM 100012		77	64	75	73	32	56	69	24	50	39	15	0.71	2.1	11	-5.2	3.4	-2	-3.6	27	21	-14	-0.6	5.9	-19.7	-1.1	23.5	5	6	-1.00	0.14	3.18	-0.19
														40	78	75	73	64	75	71	53	37	19	6	50	47	40	24	59	45	38	36	42	36	39
TT 160047	5	XY 120035		123	89	70	131	114	99	85	79	93	62	77	118	123	76	89	70	69	76	74	90	64	80	79	117	112	104	63	65	97	93	83	95
84291384		TT 120011		80	75	76	74	38	62	76	32	56	44	-2	-0.54	-2.7	-10	1.8	-7.5	-37	-2.6	36	3	14	-0.7	3.2	-14.5	-4.6	21.3	-7	0	0.04	-1.00	-2.22	-0.03
														29	81	77	74	75	76	75	72	44	31	16	57	54	48	27	62	52	45	41	48	42	44
TT 160063	6	XY 120035		91	104	92	100	117	109	96	107	108	90	100	91	95	99	104	92	96	99	117	97	111	110	109	114	116	100	103	104	111	108	88	111
84385889		TT 140012		78	73	74	74	34	60	74	28	54	44	19	1.73	0.4	15	8.1	-0.7	25	9.5	121	19	-27	0.5	17.0	-12.9	-5.4	18.8	16	25	1.03	0.05	-1.56	0.18
														32	79	75	74	73	74	74	74	43	21	7	56	53	47	22	62	51	44	40	47	41	44
GH 170079	2	W 070014		75	94	97	111	82	77	84	81	73	76	89	81	65	88	94	97	97	90	98	127	107	109	88	88	82	98	102	101	82	76	95	80
86397585		GH 070017		76	73	70	73	38	60	73	24	53	34	9	2.56	3.9	3	3.9	0.9	30	5.0	82	91	-23	0.5	7.2	0.0	0.5	17.3	15	23	-1.05	-2.24	-0.67	-0.24
														60	78	74	73	73	70	72	74	38	20	5	48	45	51	25	63	44	38	32	37	32	34
GH 170091	5	W 070014		71	99	84	125	79	76	86	88	74	83	82	75	51	81	99	84	92	93	95	107	97	117	92	92	77	95	98	95	86	90	97	85
86397692		GH 120040		78	68	73	74	36	58	71	20	50	28	2	3.05	5.4	-5	5.9	-3.0	17	6.5	78	43	-15	0.8	8.9	-1.7	1.3	15.2	13	19	-0.75	-1.27	-0.47	-0.17
														37	79	75	74	68	73	72	62	33	28	5	38	37	45	26	63	36	33	27	30	27	28
GH 180008	6	HBH 140043		97	109	94	134	101	113	118	93	109	104	76	95	88	72	109	94	117	95	100	82	91	100	101	117	95	123	95	101	106	113	94	107
87681771		GH 150083		75	73	72	74	42	61	73	25	54	38	-4	1.43	1.2	-14	10.2	0.2	76	7.7	88	-18	-10	0.1	13.3	-14.6	-1.7	32.9	11	23	0.68	0.43	-0.89	0.13
														37	77	73	74	73	72	73	74	38	32	9	45	43	53	32	59	42	39	36	40	37	38
ADM 190051	6	TT 150053		87	104	113	98	94	102	107	79	96	101	99	89	88	99	104	113	116	97	92	90	89	101	105	94	95	100	84	93	109	140	104	113
89420418		XY 110060		76	74	68	72	36	59	73	34	54	52	19	1.87	1.2	15	8.1	6.0	74	8.6	71	3	-8	0.2	15.3	-2.7	-1.8	18.9	5	18	0.95	2.40	0.31	0.22
														41	78	73	72	74	68	71	72	51	19	12	58	60	47	26	58	54	49	49	54	49	52
GH 190037	4	GH 130038		95	87	74	94	119	87	61	98	86	85	107	102	88	108	87	74	62	88	88	121	97	101	86	97	125	103	95	82	93	95	108	93
89773378		GH 120014*		76	73	68	73	38	59	73	25	52	38	26	0.82	1.2	24	1.0	-6.4	-53	4.0	64	78	-15	0.2	6.1	-4.2	-6.9	20.1	11	11	-0.24	-0.87	0.79	-0.07
														46	78	74	73	73	68	71	73	38	29	7	50	47	47	30	61	45	39	35	41	36	38
HBH 190079	5	H 050089		125	96	92	122	115	114	105	94	110	106	80	119	122	82	96	92	97	90	99	98	95	89	92	120	111	105	87	99	105	120	108	107
89958086		HBH 061011		78	71	76	77	50	64	74	38	59	56	1	-0.62	-2.7	-3	4.6	-0.5	29	4.8	85	22	-13	-0.3	9.3	-15.8	-4.5	21.9	7	22	0.66	0.96	0.81	0.14
														76	79	77	77	71	76	75	66	58	55	17	62	61	57	42	68	61	59	54	57	55	56
TT 190016	7	W 050018		74	114	95	95	107	106	102	90	102	88	105	68	72	105	114	95	104	106	99	92	97	101	105	110	105	96	95	102	100	87	86	98
89175079		TT 160063		77	73	72	72	38	60	73	27	53	39	24	3.63	3.0	21	12.3	0.2	45	13.2	86	7	-15	0.1	15.2	-10.7	-3.5	15.8	11	24	0.25	-1.47	-1.77	0.01
														32	79	74	72	73	72	72	70	45	22	5	56	53	50	27	61	52	46	36	42	36	39
ADM 200003	10	TT 150053		91	103	113	102	125	124	109	87	118	103	93	92	89	96	103	113	118	94	92	88	95	110	116	110	126	108	91	96	102	140	94	106
90105024		ADM 150024		76	73	71	72	34	59	73	32	54	48	13	1.64	1.1	11	7.8	5.9	78	6.8	72	-3	-13	0.5	20.3	-10.9	-7.2	23.8	9	20	0.41	2.35	-0.83	0.12
														42	78	73	72	73	71	72	70	48	21	13	57	55	40	27	58	53	48	46	51	46	48
ADM 200033	6	GH 150004		113	94	86	110	94	89	90	107	90	102	92	109	123	90	94	86	85	89	113	110	101	108	102	116	87	99	100	97	99	137	122	103
90762089		E 110003		75	71	59	59	38	56	68	26	50	43	12	0.25	-2.8	5	3.7	-2.4	2	4.3	113	51	-18	0.4	13.8	-13.6	-0.3	17.6	14	21	0.21	2.17	2.55	0.08
														45	77	67	59	71	59	63	71	43	18	7	50	49	52	24	59	47	43	41	45	41	43

Breeding Values and Accuracies: Cows & Heifers

Animal				Selection Values										Birth			Wean				Growth & Adaptability					Fertility				Frame		Carcass				
ID	% 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 -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 %	
Animal no			Sire ID Dam ID																																	
ADM 210054	4	GH 140001	140001	84	96	79	105	86	74	76	108	77	96	95	91	75	95	96	79	79	97	108	106	126	89	122	97	85	102	118	103	94	95	114	94	
93136612		ADM 160015	160015	71	68	57	56	30	51	65	27	46	47	15	1.74	2.7	10	4.8	-4.5	-14	8.6	104	42	-40	-0.3	22.9	-4.2	-0.1	19.8	24	24	-0.17	-0.85	1.53	-0.05	
														42	74	63	56	68	57	60	58	46	40	5	53	52	39	22	54	51	47	45	49	45	47	
ADM 210055	5	ADM 170001	170001	101	109	65	104	104	95	90	89	91	92	96	100	100	96	109	65	74	98	100	88	94	132	100	100	104	101	95	101	96	121	100	98	
93296515		TT 190016	190016	72	71	61	54	32	53	67	38	50	43	16	0.93	-0.2	12	10.2	-9.2	-25	9.1	86	-4	-12	1.4	13.0	-5.7	-3.4	19.0	11	23	-0.03	1.03	-0.14	0.01	
														29	75	63	54	71	61	62	62	43	17	29	52	50	45	18	50	49	44	41	45	41	43	
HBH 210147	6	W 140043	140043	108	104	97	94	87	93	103	93	91	94	106	104	114	105	104	97	98	99	97	93	113	85	134	91	87	101	109	104	104	67	123	101	
92724384		HBH 170115	170115	72	72	60	58	35	55	68	29	50	50	26	0.60	-1.8	22	8.2	0.9	31	9.4	81	9	-29	-0.5	28.4	-1.4	-0.3	18.9	19	25	0.57	-2.92	2.61	0.05	
														58	75	65	58	72	60	63	72	49	22	6	55	54	45	25	57	53	50	48	52	49	50	
HBH 210155		H 050089	050089	92	98	106	102	109	106	98	101	104	110	93	95	86	95	98	106	107	107	100	108	104	73	83	113	107	98	91	102	107	92	114	106	
92950328		HBH 091843	091843	72	60	64	60	42	54	63	33	50	46	13	1.41	1.4	11	5.5	3.9	52	13.7	88	46	-21	-1.0	4.9	-12.3	-3.9	17.6	9	24	0.79	-1.14	1.56	0.13	
														59	74	66	60	60	64	61	52	49	44	16	52	51	47	36	61	51	49	45	47	45	46	
ADM 220017	5	GH 140001	140001	79	113	71	98	89	83	88	113	86	100	104	81	86	103	113	71	81	112	121	117	130	90	128	91	91	92	123	109	99	95	102	98	
93677029		ADM 180042	180042	70	70	58	57	33	53	66	30	48	49	23	2.61	1.4	19	11.6	-7.2	-9	16.5	129	68	-43	-0.3	25.9	-1.2	-1.0	13.6	27	29	0.18	-0.92	0.08	0.02	
														52	73	62	57	70	58	62	62	50	46	8	55	54	42	24	54	53	50	48	50	48	49	
ADM 220034	8	GH 190009	190009	77	108	109	104	104	109	108	86	104	94	93	79	78	94	108	109	119	98	89	86	91	113	115	101	104	96	88	90	88	113	85	89	
94549888		ADM 200003	200003	69	70	48	44	24	47	63	28	43	46	13	2.70	2.3	9	9.8	4.7	80	9.3	64	-8	-10	0.6	19.6	-6.6	-3.4	16.1	7	16	-0.62	0.45	-1.96	-0.11	
														27	74	56	44	70	48	54	61	45	25	7	52	50	31	18	47	49	45	44	48	44	46	
ADM 220049	2	GH 190009	190009	88	88	104	108	92	85	85	78	80	79	91	90	83	90	88	104	99	83	74	93	99	97	111	87	96	82	76	76	98	101	76		
94796372		ADM 160015	160015	70	67	49	45	24	47	61	25	43	44	11	1.78	1.8	5	1.5	3.1	33	1.1	36	8	0.1	11.6	-11.4	-0.3	16.0	4	7	-1.51	-0.65	0.03	-0.29		
														26	74	57	45	67	49	54	50	42	25	50	48	31	16	48	47	42	42	46	42	44		
ADM 220063	6	TT 150053	150053	111	90	91	123	119	108	92	78	101	74	81	109	102	82	90	91	91	85	79	111	87	94	99	119	116	99	68	71	93	126	96	95	
94829132		TT 160047	160047	70	71	56	55	30	52	66	30	48	45	1	0.25	-0.4	-4	2.2	-0.9	14	2.4	45	53	-6	-0.1	12.5	-15.2	-5.4	17.7	-4	4	-0.24	1.35	-0.59	-0.03	
														34	74	61	55	71	56	61	56	44	22	14	52	50	38	22	52	49	45	43	47	44	45	
TT 220001	6	GH 140006	140006	94	102	90	101	114	104	94	107	104	87	97	91	101	98	102	90	93	97	108	102	101	94	104	107	114	100	101	95	102	90	62	101	
92964493		TT 160063	160063	71	59	54	54	28	48	59	26	44	44	17	1.71	-0.3	14	7.0	-1.2	19	8.3	103	30	-18	-0.1	14.6	-9.2	-5.0	18.3	15	19	0.43	-1.26	-4.68	0.05	
														32	74	62	54	59	54	56	58	42	23	6	50	49	37	19	53	47	42	41	46	41	44	
HBH 230046	7	HBH 200074	200074	120	98	94	102	82	88	100	98	87	95	97	117	114	97	98	94	94	92	93	88	96	88	112	83	83	100	83	91	114	106	111	114	
96286018		HBH 190081	190081	85	85	81	81	70	76	84	79	77	80	17	-0.43	-1.8	12	5.7	0.0	22	6.1	72	-5	-14	-0.4	18.3	2.6	0.4	18.7	5	17	1.31	-0.12	1.22	0.23	
														80	86	83	81	85	81	82	84	80	78	78	81	81	79	62	81	80	80	80	80	80	80	
ADM 240080	5	GH 190009	190009	86	95	99	113	83	83	92	81	79	80	87	89	78	86	95	99	102	87	89	107	112	99	91	82	94	91	90	78	82	85	76		
97041172		GH 170079	170079	68	59	47	45	26	45	56	24	41	43	7	1.86	2.3	1	4.5	1.7	40	3.5	65	42	0.6	12.5	-1.5	0.4	14.7	9	16	-1.36	-1.85	-1.88	-0.29		
														34	74	55	45	59	47	50	56	43	25	49	48	35	17	49	46	42	41	45	41	43		
PX 240083	6	GH 190057	190057	80	109	120	96	101	112	115	103	110	113	100	78	92	101	109	120	126	104	105	101	95	96	102	96	102	97	91	99	122	125	104	124	
97507883		ADM 190051	190051	67	59	49	49	28	46	57	26	42	40	20	2.78	0.8	17	10.2	8.1	97	12.1	97	28	-13	-0.1	13.6	-4.0	-2.9	17.0	9	22	1.85	1.32	0.39	0.37	
														30	72	56	49	59	49	52	57	40	27	8	47	46	36	19	46	43	39	38	43	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	Inbreeding	Genomic	Index	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 %
Animal no	%	Parentage	EBV Acc																																
PX 240087	5	GH 190057		77	104	105	106	93	96	101	108	97	104	91	78	78	91	104	105	112	99	107	109	99	103	95	95	93	95	98	100	110	100	101	110
98865751		GH 170091		68	58	51	50	28	46	57	22	41	34	11	2.85	2.3	7	7.9	3.4	64	9.5	101	49	-17	0.2	10.4	-3.5	-1.3	15.1	13	22	0.99	-0.52	0.00	0.17
														28	73	57	50	58	51	53	54	34	29	5	41	40	36	19	47	39	34	32	36	32	34
PX 240088	8	GH 190057		82	106	116	98	108	113	110	114	114	118	97	82	91	99	106	116	121	108	109	110	103	81	90	106	108	96	94	103	121	101	109	121
98872930		HBH 210155		68	55	48	45	29	44	54	26	40	38	17	2.51	0.8	15	8.8	7.0	86	14.5	106	50	-20	-0.6	8.4	-8.9	-3.9	16.3	11	25	1.76	-0.45	1.01	0.32
														36	73	55	45	55	48	49	52	39	34	9	45	43	36	22	47	42	39	37	40	37	38
PX 240089	2	GH 190057		90	90	115	99	103	98	92	102	97	103	98	92	91	99	90	115	107	89	94	105	99	86	92	113	100	101	91	90	108	110	116	109
98865777		ADM 160015		68	56	52	49	26	45	56	22	40	36	18	1.68	0.8	15	2.3	6.6	53	4.4	75	38	-16	-0.4	8.9	-12.6	-2.6	19.3	9	16	0.87	0.19	1.82	0.16
														29	73	57	49	56	52	52	52	35	27	6	44	42	34	18	46	41	36	34	39	35	36
PX 250002	5	GH 190009		93	100	96	107	99	97	98	94	95	86	91	91	95	91	100	96	101	92	94	94		104	107	100	98	91	91	87	88	88	69	87
99216806		TT 220001		57	55	41	37	22	39	50	26	36	45	11	1.69	0.4	6	6.6	0.7	38	5.9	76	12		0.3	16.2	-6.0	-2.3	12.7	9	14	-0.62	-1.36	-3.88	-0.14
														23	61	46	37	55	41	44	52	44	26		50	49	30	14	44	47	43	43	47	43	45
PX 250007	8	GH 220096		120	106	94	90	102	106	107			104	111	116	122	110	106	94	96	102	99	95		90	125	108	99	105	103	105	111	83	119	109
6020603152		HBH 210147		64	50	40	40	24	39	49			32	30	-0.37	-2.7	27	9.1	0.2	25	11.1	85	13		-0.3	24.3	-9.7	-2.4	22.0	16	25	1.07	-1.74	2.16	0.16
														32	70	50	40	50	40	43	48	32	14		37	36	30	17	39	35	32	31	34	31	32
PX 250008	10	TT 210035		102	103	108	107	104	111	111	107	110	107	91	100	100	91	103	108	115	98	104	108	97	95	100	109	101	124	99	100	102	95	79	102
6020588007		GH 180008		66	58	47	46	26	44	56	24	40	38	11	0.99	-0.2	6	7.8	4.4	72	9.1	96	45	-15	-0.1	12.6	-10.4	-2.8	33.7	14	23	0.39	-0.86	-2.60	0.06
														25	72	54	46	58	47	50	54	35	31	9	45	42	33	20	42	41	37	35	40	36	38
PX 250011	4	HBH 210006		98	102	103	93	103	103	101	102	101	105	105	98	101	106	102	103	102	103	105	104	99	94	86	110	100	104	92	99	97	114	119	99
6020591662		ADM 220049		63	49	38	36	21	37	47	23	34	40	25	1.17	-0.3	22	7.4	2.8	41	11.8	96	35	-16	-0.1	6.1	-10.7	-2.6	21.3	10	22	0.04	0.51	2.17	0.02
														29	69	48	36	49	38	41	40	38	23	5	46	44	26	16	37	43	38	38	42	38	40
PX 250013	5	TT 210047		130	103	79	103	106	104	101	92	101	99	97	124	126	97	103	79	83	95	98	99	87	109	107	103	106	107	87	97	125	113	115	126
6020591670		TT 160047		67	55	48	46	24	43	54	31	41	40	17	-1.01	-3.2	13	7.7	-4.8	-4	7.6	84	24	-6	0.5	15.9	-7.4	-3.7	23.2	7	21	2.12	0.42	1.65	0.39
														21	72	55	46	55	48	50	54	39	28	18	49	47	31	17	43	45	40	38	43	39	40
PX 250305	5	HBH 210006		89	117	87	89	101	103	104	119	105	116	112	89	100	112	117	87	95	120	128	116	117	90	101	99	102	102	113	115	109	113	119	110
6020751571		ADM 220017		51	50	41	40	24	38	47	24	35	41	31	1.93	-0.2	29	13.3	-2.2	25	20.5	143	65	-32	-0.3	13.3	-5.5	-2.9	20.1	21	32	0.88	0.38	2.20	0.17
														36	54	45	40	50	41	44	45	40	29	6	47	46	29	18	39	44	41	39	43	40	41

Selection List on Cow Value

Bulls 2 years and older

ID Sorted on ID		Name	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	HBH 210006	HBH210006	DKH 170407	HBH 100237	11.5	PcPc	0	0	0		9988	12187	10285	8184	11374	12379	12186	12682	12580	13186
										★★★★★										
1	PX 240090	PX 240090	GH 190057	TT 190016	5.8						7968	11359	11051	9549	10728	11446	11358	10924	11342	10736
2	PX 240091	PX 240091	GH 190057	TT 160063	6.7						8368	10859	10951	9750	11227	11546	10958	11724	11642	10838

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		Acc	Acc	Acc	Acc	Acc	Acc	Acc	Acc
1	ADM 200003	ADM 200003	TT 150053	ADM 150024	9.6												
1	GH 180008	GH180008	HBH 140043	GH 150083	6.1												
2	HBH 190079	HBH190079	H 050089	HBH 061011	5.1												
3	PX 240083	PX 240083	GH 190057	ADM 190051	5.8												
4	PX 240088	PX 240088	GH 190057	HBH 210155	8.1												
1	ADM 190051	ADM 190051	TT 150053	XY 110060	5.9												
2	ADM 220034	ADM 220034	GH 190009	ADM 200003	7.8												
3	ADM 220063	ADM 220063	TT 150053	TT 160047	5.8												
4	HBH 210155	HBH210155	H 050089	HBH 091843	0.0												
5	TT 160063	TT 160063	XY 120035	TT 140012	5.6												
6	TT 190016	TT 190016	W 050018	TT 160063	6.6												
7	TT 220001	TT 220001	GH 140006	TT 160063	5.6												
1	ADM 210055	ADM 210055	ADM 170001	TT 190016	5.4												
2	HBH 210147	HBH210147	W 140043	HBH 170115	5.9												
3	PX 240087	PX 240087	GH 190057	GH 170091	4.5												
4	PX 240089	PX 240089	GH 190057	ADM 160015	2.0												
5	TT 160047	TT 160047	XY 120035	TT 120011	5.1												
1	ADM 200033	ADM 200033	GH 150004	E 110003	6.4												
2	ADM 220017	ADM 220017	GH 140001	ADM 180042	5.1												

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		Acc	Acc	Acc	Acc	Acc	Acc	Acc	Acc	Acc	Acc	Acc										
3	ADM 220049	ADM 220049	GH 190009	ADM 160015	2.1					88	70	88	67	104	49	108	45	92	24	85	47	85	61	78	25	80	43	79	44	
4	ADM 240080	ADM 240080	GH 190009	GH 170079	4.7					86	68	95	59	99	47	113	45	83	26	83	45	92	56	81	24	79	41	80	43	
5	GH 190037	GH190037	GH 130038	GH 120014*	4.1					95	76	87	73	74	68	94	73	119	38	87	59	61	73	98	25	86	52	85	38	
6	HBH 230046	HBH230046	HBH 200074	HBH 190081	7.4	PcPc	0	0	0		120	85	98	85	94	81	102	81	82	70	88	76	100	84	98	79	87	77	95	80
1	ADM 160015	ADM 160015	GH 120013	ADM 100012	0.0					96	77	72	64	105	75	103	73	99	32	77	56	65	69	77	24	73	50	80	39	
2	ADM 210054	ADM 210054	GH 140001	ADM 160015	3.8					84	71	96	68	79	57	105	56	86	30	74	51	76	65	108	27	77	46	96	47	
3	GH 170079	GH170079	W 070014	GH 070017	2.4					75	76	94	73	97	70	111	73	82	38	77	60	84	73	81	24	73	53	76	34	
4	GH 170091	GH170091	W 070014	GH 120040	4.7					71	78	99	68	84	73	125	74	79	36	76	58	86	71	88	20	74	50	83	28	

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 PX 250006	PX 250006	GH 190057	ADM 190051	5.8				8168	10859	11949	9649	10128	11146	11557	10326	10942	11340
2 PX 250012	PX 250012	ADM 230042	ADM 200003	6.2				8964	10950	10542	10341	10821	11439	11150	9824	11136	10839
3 PX 260001	PX 260001	HBH 210006	TT 190016	7.2				7765	12151	9946	8845	11026	11642	11351	10824	11538	11038
								★★★★☆									
1 PX 250001	PX 250001	GH 190057	ADM 200033	5.0				10468	9959	10547	10245	10128	10345	10456	11824	10541	11438
2 PX 250005	PX 250005	TT 210047	GH 190037	4.8				10466	10755	8144	8946	10924	10142	9354	10129	10039	11040
								★★★★									
1 PX 250004	PX 250004	GH 190057	GH 170079	3.8				7859	10259	11150	10250	9428	9845	10256	10422	9840	10136
2 PX 250009	PX 250009		HBH 190079	0.0				11459	9135	10038	11238	9325	9334	9539			9628
3 PX 250010	PX 250010	TT 210047	ADM 160015	2.9				11267	9652	9647	9346	9922	9441	9253	9129	9239	10840
4 PX 250014	PX 250014	TT 210047	GH 170091	6.2				10167	10853	8646	10046	8824	9242	10053	9628	9039	10937

Selection List on Cow Value

Heifers 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	PX	250008	PX 250008	TT 210035	GH 180008	10.3				10266	10358	10847	10746	10426	11144	11156	10724	11040	10738
										★★★★☆									
1	PX	250007	PX 250007	GH 220096	HBH 210147	8.3				12064	10650	9440	9040	10224	10639	10749			10432
2	PX	250011	PX 250011	HBH 210006	ADM 220049	4.1				9863	10249	10338	9336	10321	10337	10147	10223	10134	10540
3	PX	250013	PX 250013	TT 210047	TT 160047	5.3				13067	10355	7948	10346	10624	10443	10154	9231	10141	9940
4	PX	250305	250305	HBH 210006	ADM 220017	5.5				8951	11750	8741	8940	10124	10338	10447	11924	10535	11641
										★★★									
1	PX	250002	PX 250002	GH 190009	TT 220001	4.9				9357	10055	9641	10737	9922	9739	9850	9426	9536	8645

