

CHAROLAIS

GENOMIC BREEDING VALUE REPORT

September 2026



HUNT CHAROLAIS STUD CO PTY LTD

Herd Number: 315204

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EBVs, EBVi's and GEBVs

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

EBV (Breeding Value): Genetic potential relative to the average of the animals born in the base year (1990), expressed in the unit of measurement.

GEBV (Genomic Breeding Value) Interpreted like the EBVi. (GEBV = EBV + Genomic information)

LOGIX Selection values combine different breeding values in a logical way. For example, Heifer Fertility (how early a heifer starts calving), Cow Fertility (how regular she calves) and Longevity (retention within the family) are combined to form the Fertility Value.

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



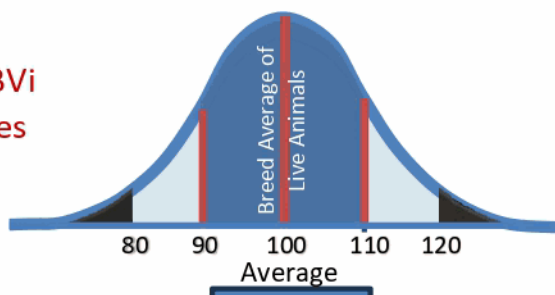
80% LOGIX Cow Value +
20% LOGIX Growth Value

LOGIX Carcass Value

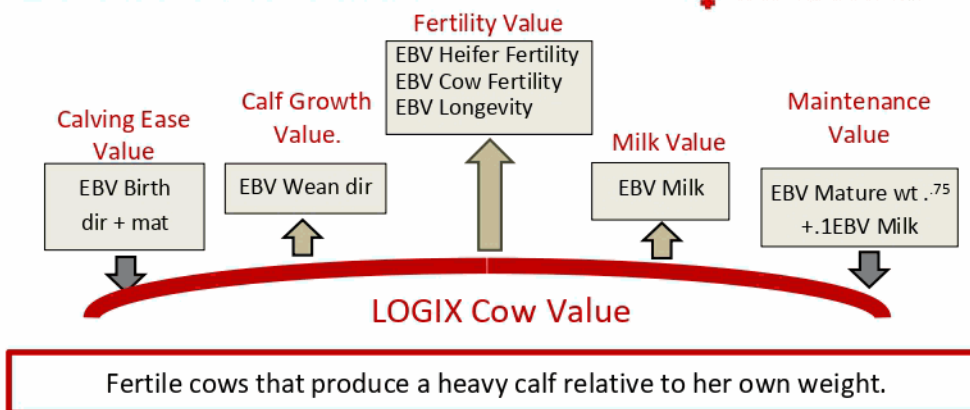


Select for more meat on the carcass as measured from end weight in Phase C and D Growth Tests and RTU scanning.

Interpretation of EBVi and Selection Values



LOGIX Cow Value



How to use the Cow Value

Selection values should be compatible with your selection goal.

AVERAGE ANIMALS

(NO GROWTH EXTREMES)

- Selection Values 90 to 110
 - Cow Value and Fertility Value average to high
- A safe choice, as animals are profitable in most environments.

GROWERS

(GOOD ENVIRONMENT)

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

LOW- MAINTENANCE ANIMALS

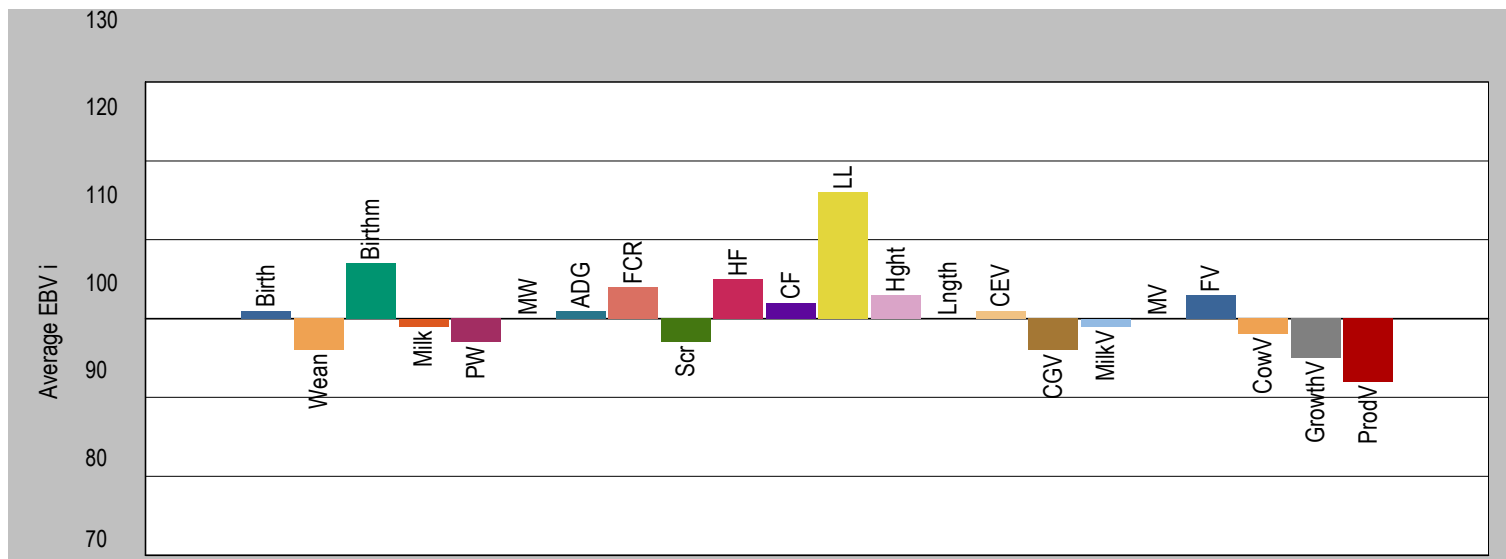
(HARSH ENVIRONMENT)

- Maintenance Value >110
 - Cow Value and Fertility Value average to high
- Lighter cows have a lower maintenance.

Examples

Type of Animal	Cow Value	Calving Ease V	Weaner Calf V	Milk Value	Maint. Value	Fertility Value
Average	Med-High	Avg	Avg	Avg	Avg	Med-High
Grower	Med-High		High			Med-High
Low Maintenance	Med-High				High	Med-High

Herd and Breed Averages



Breeding Values:

Birth:	Birth weight	Scr:	Scrotal circumf.
Wean:	Weaning weight	HF:	Heifer Fertility
Birthm:	Birth maternal	CF:	Cow Fertility
Milk:	Milk	LL:	Longevity
PW:	Post-wean weight	Hght:	Height
MW:	Mature weight	Lngth:	Length
ADG:	Average Daily Gain		
FCR:	Feed Conversion Ratio		

Selection Values:

CEV:	Calving Ease Value
CGV:	Calf Growth Value
MilkV:	Milk Value
MV:	Maintenance Value
FV:	Fertility Value
CowV:	Cow Value (CV)
GrowthV:	Growth Value (GV)
ProdV:	Production Value (PV)

	Trait	EBV Herd	EBV Index	EBV Breed
Prewean Growth	Birth Weight	0.49	101	0.55
	Wean Weight	9.2	96	10.9
	Birth Mat.	-0.48	107	-0.18
	Milk (Wn.Mat.)	0.7	99	0.9
Postwean Growth	Postwean Wt	16.5	97	18.2
	Mature Weight	12	100	13
	ADG	38	101	35
	FCR	-22	104	-19
Fertility	Scrotal Circumf.	4.5	97	6.1
	Heifer Fertility	-1.6	105	1.7
	Cow Fertility	-2.4	102	-2.1
	Longevity	21.8	116	14.4
Frame	Height	4	103	3
	Length	9	100	9

Selection Value	Ave. Herd
Calving Ease	101
Calf Growth	96
Milk	99
Maintenance	100
Fertility	103
Cow Value	98
Growth Value	95
Production Value	92

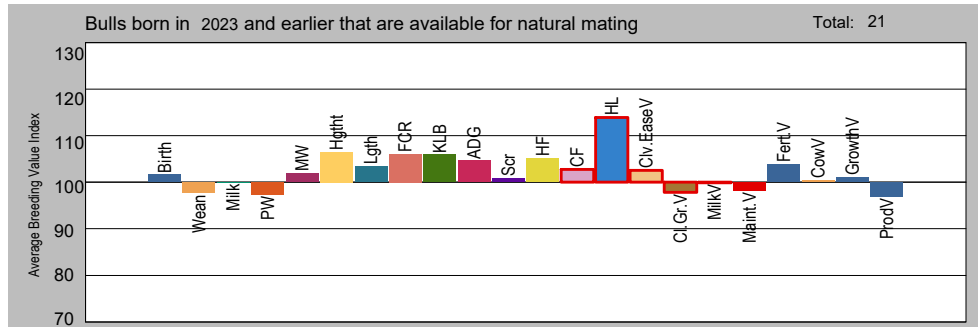
- Average of live animals in the breed: 100
- Above 100: **more favourable**,
- Below 100: **less favourable**

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

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

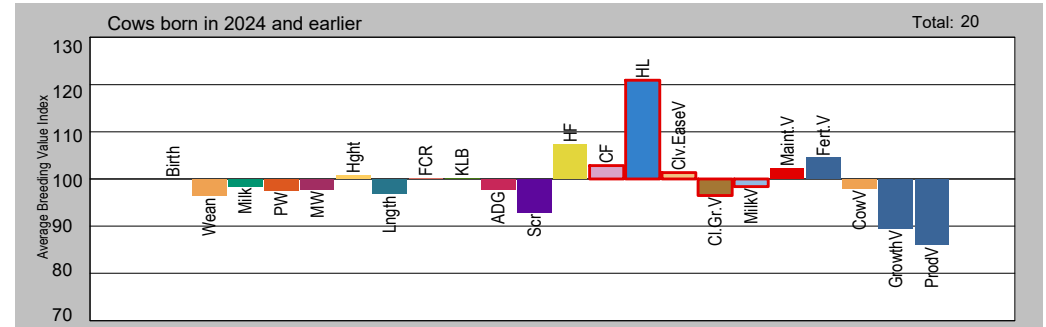
Genetic Windows

Bulls on the farm



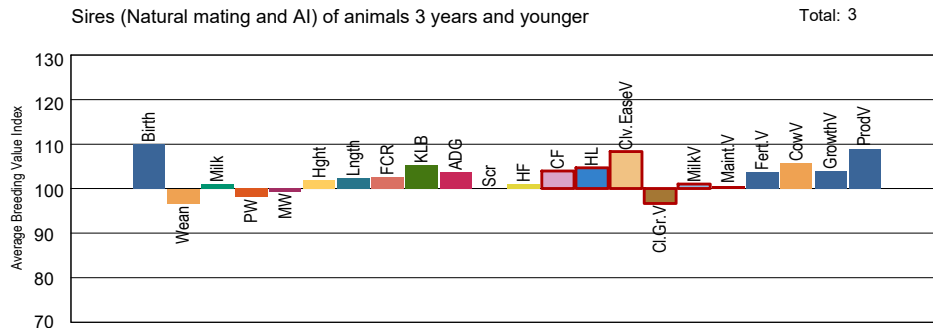
Animals available for breeding

Cow Herd

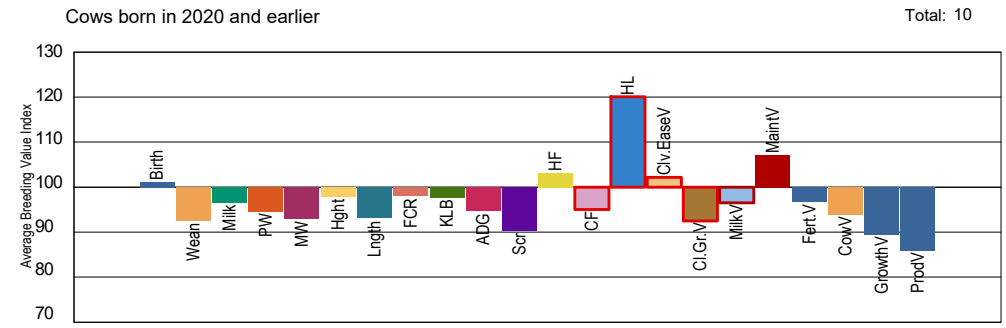


Results of previous selection decisions

Sires of young animals

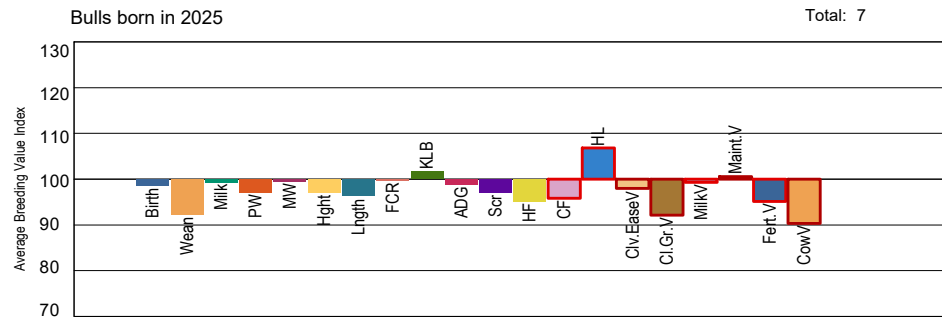


Cows older than 6 years

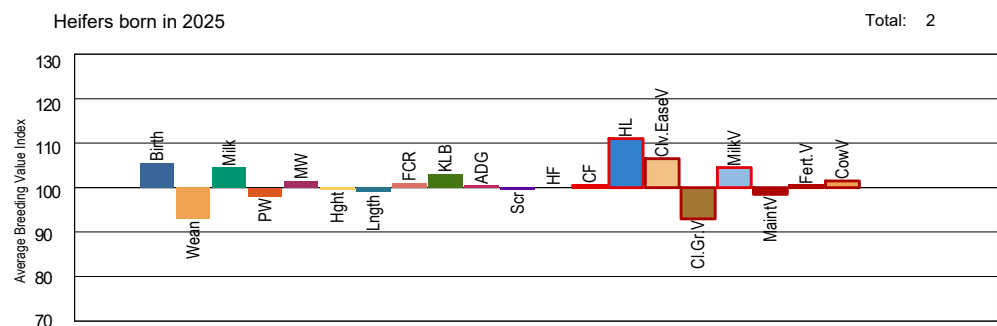


Selection possibilities

Bull calves



Heifer calves

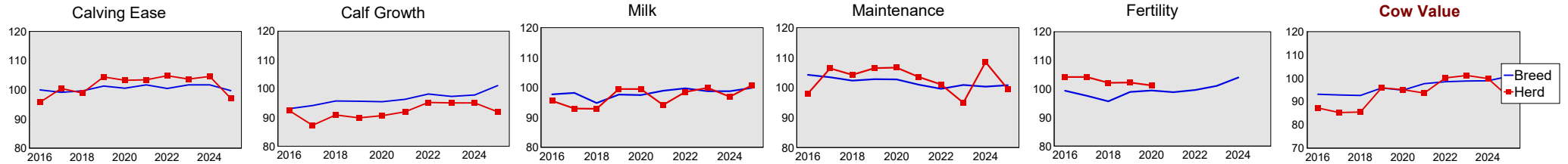


Summary of Cow Herd

			Selection Values (SV)							Calf Weight		Dam		Growth & Efficiency				Fertiity				Frame		
Birth Year	No. Cows	Average Cow Value	Calving Ease	Calf Grwth	Milk	Maint.	Fertility	Cow Value	Growth Value	Prod Value	Birth Weight	Wean Weight	Birth Mat.	Milk (Wn.Mat)	Postwn Weight	Mature Weight	ADG	Kleiber	Scrotal Circumf.	Heifer Fertility	Cow Fertility	Longevity	Height	Length
			Cows in Breed Average:									100	99	100	100	100	99	99	99	99	100	100	100	99
2015	1	★★★★	85	101	119	74	90	92			88	101	83	119	99	126	110	111	104	90	91	111	110	107
2017	3	★★★★☆	97	89	91	117	85	84	81	78	97	89	97	91	91	83	90	95	86	96	84	117	93	88
2019	1	★★★★	118	85	86	109	102	95			118	85	95	86	82	91	86	89	82	111	99	125	89	85
2020	5	★★★★☆	106	94	97	107	104	100	98	94	103	94	113	97	98	93	96	99	92	108	102	123	100	95
2022	5	★★★★☆	107	101	96	97	117	106			105	101	106	96	101	103	101	102	95	115	115	125	104	101
2023	5	★★★★	94	100	105	98	107	99			92	100	117	105	100	102	101	103	96	108	106	118	104	100
2025	2	★★★★☆	107	93	105	99	101	102			106	93	101	105	98	102	101	103	100	100	101	111	100	99
Cows in Herd Average:			102	95	100	100	101	97	90	86	101	95	102	100	96	100	98	100	94	104	100	119	100	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.



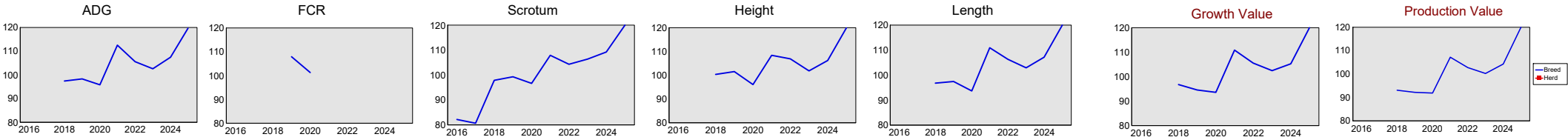
Herd

Birth Year	Calving Ease				Calf Growth			Milk			Maintenance					Fertility								Cow Value
	Birth Weight		Mat 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		
2016	22	0.84	0.51	96	15	7.4	92	15	-0.46	96	11	12.0	5	15	98	6	0.8	4	-2.8	22	16.2	104	87	
2017	38	0.42	0.12	100	33	5.0	87	33	-1.25	93	31	10.1	7	4	106	14	-3.8	11	-2.4	36	18.6	104	85	
2018	29	0.48	0.26	99	29	6.7	91	29	-1.29	93	29	12.0	10	7	104	18	-1.0	15	-2.4	32	17.5	102	86	
2019	37	0.10	-0.34	104	36	6.2	90	36	0.71	99	36	10.1	3	3	107	9	-0.5	1	-4.0	36	18.3	102	96	
2020	51	0.25	-0.37	103	48	6.6	91	48	0.75	99	48	11.1	6	7	107	8	-0.6	4	-2.4	46	19.3	101	95	
2021	54	0.37	-0.60	103	53	7.3	92	53	-0.90	94	52	13.6			104					49	21.4		94	
2022	18	-0.19	-0.66	105	17	8.7	95	17	0.42	99	16	15.9			101					1	21.3		100	
2023	30	0.36	-0.78	104	25	8.6	95	25	0.87	100	11	19.6			95								101	
2024	15	0.22	-0.65	105	14	8.6	95	14	-0.07	97	4	14.6			109								100	
2025	14	0.94	-0.27	97	8	7.2	92	8	1.16	101	8	16.4			100								92	

Breed

Birth Year	Calving Ease				Calf Growth			Milk			Maintenance					Fertility							Cow Value			
	Birth Weight		Calv. Ease	Dir EBV	Mat EBV	Weaning Weight		Calf Growth	Milk (Wn.Mat.)		Postwean Weight		Mature Weight		Maintenance	Heifer Fert.		Cow Fert.		Longevity		Ferti- lity				
	Number	EBV				Number	EBV		Number	EBV	Milk	Number	EBV	Number		EBV	Number	EBV	Number	EBV	Number			EBV	Number	EBV
2016	1099	0.56	-0.08	100		863	7.7	93		863	0.18	98	663	13.6	137	5	104	240	1.0	197	-2.1	1108	9.4	99		93
2017	1299	0.62	-0.11	99		1029	8.2	94		1029	0.34	98	796	13.9	155	8	103	257	1.9	224	-1.7	1213	9.5	98		93
2018	1392	0.55	-0.12	100		1050	9.0	96		1050	-0.70	95	857	15.6	182	10	102	287	2.1	251	-1.4	1378	10.2	96		93
2019	1431	0.42	-0.16	101		1078	8.9	96		1078	0.16	98	821	15.3	174	9	103	276	1.5	227	-2.1	1375	10.9	99		96
2020	1636	0.46	-0.16	101		1150	8.9	96		1150	0.10	97	894	15.0	189	8	103	260	1.7	225	-2.3	1544	10.3	99		95
2021	1590	0.35	-0.15	102		1209	9.2	96		1209	0.56	99	928	17.0	162	10	101	216	1.7	164	-2.3	1390	10.0	99		98
2022	1585	0.53	-0.24	100		1189	10.1	98		1189	0.80	100	898	18.0	147	11	100	236	2.4	80	-2.8	497	7.7	100		99
2023	1641	0.37	-0.24	102		1310	9.7	97		1310	0.50	99	969	17.0	36	6	101	152	1.8					101		99
2024	1541	0.33	-0.17	102		1239	9.9	98		1239	0.50	99	896	18.5			100	1	1.0					104		99
2025	1470	0.57	-0.18	100		971	11.5	101		971	0.87	100	141	17.5			101									101
2026	517	0.43	-0.13	101		25	10.3	99		25	1.46	102														103

Genetic Trends for Growth Test Traits



Herd

Birth Year	Growth									Frame						Selection Values	
	FCR			ADG			Scrotal Circumf.			Height			Length			Growth Value	Prod Value
	Number	EBV	EBVi	Number	EBV	EBVi	Number	EBV	EBVi	Number	EBV	EBVi	Number	EBV	EBVi		
2016																	
2017																	
2018																	
2019																	
2020																	
2021																	
2022																	
2023																	
2024																	
2025																	

Breed

Birth Year	Growth									Frame						Selection Values	
	FCR			ADG			Scrotal Circumf.			Height			Length			Growth Value	Prod Value
	Number	EBV	EBVi	Number	EBV	EBVi	Number	EBV	EBVi	Number	EBV	EBVi	Number	EBV	EBVi		
2016				21	-26	84	21	-3.0	82	21	-9	85	21	-12	80	82	79
2017							3	-3.8	81								
2018				60	26	97	58	5.0	98	58	3	100	58	6	97	97	93
2019	15	-26	108	40	29	98	40	5.7	99	40	4	102	40	7	97	95	92
2020	15	-20	101	79	19	96	83	4.4	97	83	0	96	83	3	94	94	92
2021				52	84	113	52	10.2	108	52	9	108	52	21	111	111	107
2022				64	57	106	70	8.3	104	70	8	107	70	16	106	106	103
2023				85	45	103	88	9.3	106	88	4	102	88	13	103	102	100
2024				78	64	107	77	10.8	109	78	7	106	78	17	107	105	104
2025				21	111	120	21	20.0	127	21	17	120	21	41	129	121	125

Percentile Table for Bulls (based on live animals)

%	Calf weight			Growth & efficiency				Fertility				Frame	
	Birth weight	Weaning weight	Milk (WW.Mat.)	Post wean	Mature weight	ADG	Kleiber	Scrotal circum.	Heifer Fertility	Cow Fertility	Longevity	Height	Length
Mean	0.54	11.4	0.9	18.9	15	43	34	7.2	2.3	-2.1	14.1	4	12
Top	-5.29	30.5	14.2	48.9	57	212	116	28.5	-28.1	-9.7	33.0	36	56
1	-3.36	27.5	10.7	43.3	45	187	94	28.5	-16.3	-7.2	30.1	27	51
2	-2.72	25.8	9.4	39.7	41	158	82	24.7	-14.2	-6.5	27.8	24	44
3	-2.37	24.1	8.3	37.2	39	146	78	22.7	-13.4	-6.0	26.1	23	42
4	-2.10	23.0	7.4	35.9	37	137	75	21.2	-12.0	-5.8	24.7	21	40
5	-1.94	22.3	6.9	34.7	36	132	71	19.5	-10.9	-5.5	23.8	20	38
6	-1.78	21.6	6.5	33.6	35	127	69	18.6	-10.1	-5.4	23.3	19	36
7	-1.66	21.0	6.1	32.7	33	120	67	17.8	-9.5	-5.2	22.8	19	35
8	-1.55	20.5	5.9	32.1	32	116	65	16.7	-8.7	-5.1	22.4	18	34
9	-1.45	20.1	5.7	31.4	31	113	63	16.4	-8.0	-5.0	21.7	17	32
10	-1.29	19.8	5.4	30.7	30	110	62	15.9	-7.4	-4.9	21.4	16	31
20	-0.67	16.6	3.5	26.4	25	84	51	12.0	-3.8	-3.8	18.7	12	23
30	-0.22	14.6	2.5	22.9	20	67	44	9.8	-1.5	-3.2	16.8	9	19
40	0.14	12.6	1.6	20.3	17	53	39	8.1	0.4	-2.6	15.3	6	15
50	0.45	10.9	0.8	18.2	14	39	33	6.5	2.4	-2.0	13.9	3	11
60	0.79	9.4	0.0	16.3	11	28	27	5.0	4.2	-1.5	12.6	1	7
70	1.21	7.9	-0.9	14.2	8	15	23	3.5	6.2	-1.0	10.9	-2	4
80	1.72	6.2	-1.9	11.6	4	3	17	1.9	8.5	-0.3	9.0	-4	0
90	2.60	3.8	-3.3	8.0	-1	-15	7	-0.3	12.2	0.6	6.6	-8	-5
91	2.74	3.5	-3.5	7.5	-1	-18	6	-0.5	12.5	0.7	6.3	-9	-6
92	2.90	3.2	-3.7	6.8	-2	-21	4	-0.7	13.1	0.8	6.1	-9	-7
93	3.01	2.9	-4.1	6.3	-3	-23	3	-1.3	13.8	1.0	5.8	-10	-8
94	3.18	2.4	-4.4	5.6	-4	-26	1	-1.8	14.5	1.1	5.6	-10	-8
95	3.44	1.7	-4.8	5.1	-6	-32	-1	-2.2	15.2	1.3	5.3	-11	-9
96	3.63	0.8	-5.1	4.1	-7	-36	-5	-2.8	16.2	1.5	4.8	-12	-10
97	3.92	0.3	-5.6	3.3	-8	-43	-9	-3.4	17.6	1.8	4.2	-13	-12
98	4.18	-0.9	-6.1	2.0	-10	-54	-13	-4.6	18.5	2.2	3.4	-14	-14
99	4.76	-2.1	-6.9	-0.7	-14	-69	-20	-6.5	20.0	2.7	1.8	-18	-18
Bottom	5.79	-12.6	-9.3	-10.1	-26	-226	-102	-15.8	26.0	5.6	-3.7	-35	-48

Percentile Table for Cows (based on live animals)

%	Calf weight			Growth & efficiency				Fertility				Frame	
	Birth weight	Weaning weight	Milk (WW.Mat.)	Post wean	Mature weight	ADG	Kleiber	Scrotal circum.	Heifer Fertility	Cow Fertility	Longevity	Height	Length
Mean	0.56	10.7	0.9	17.9	12	31	30	5.5	1.4	-2.1	14.5	2	8
Top	-4.87	30.5	17.0	48.7	58	212	108	28.5	-38.3	-11.5	33.0	36	56
1	-3.07	25.4	12.0	39.0	45	152	83	24.8	-23.1	-8.4	30.7	23	43
2	-2.54	23.3	10.4	36.3	41	141	77	21.7	-19.2	-7.6	28.6	21	39
3	-2.18	22.3	9.4	34.4	38	133	73	19.8	-17.6	-7.1	27.0	20	35
4	-1.95	21.5	8.6	32.9	36	124	70	18.3	-16.2	-6.7	26.0	18	34
5	-1.78	20.7	7.9	32.1	34	115	66	17.1	-14.8	-6.5	25.3	18	32
6	-1.64	20.0	7.4	31.3	32	109	64	16.3	-13.8	-6.1	24.5	17	30
7	-1.53	19.5	7.0	30.7	31	104	62	15.6	-12.9	-6.0	23.9	16	29
8	-1.38	18.9	6.6	30.0	30	101	61	15.0	-12.2	-5.7	23.5	15	28
9	-1.27	18.6	6.3	29.5	29	98	59	14.4	-11.5	-5.5	22.9	15	27
10	-1.19	18.2	6.0	29.0	28	95	58	13.9	-10.8	-5.3	22.5	14	27
20	-0.49	15.8	4.0	25.1	22	73	48	10.4	-6.1	-4.1	19.6	10	20
30	-0.10	13.8	2.7	22.2	18	55	41	8.2	-3.1	-3.3	17.6	7	15
40	0.24	12.1	1.7	19.8	15	42	35	6.6	-0.7	-2.7	15.8	4	11
50	0.54	10.4	0.8	17.5	12	29	29	5.2	1.5	-2.1	14.3	2	8
60	0.86	9.0	-0.1	15.6	9	18	24	3.6	3.9	-1.5	12.9	0	4
70	1.21	7.4	-1.2	13.2	6	5	18	2.1	6.1	-0.8	11.4	-3	1
80	1.64	5.7	-2.4	10.8	2	-8	12	0.3	9.0	0.0	9.5	-6	-3
90	2.32	3.4	-4.2	7.5	-5	-29	2	-2.2	13.4	1.1	6.8	-10	-9
91	2.42	3.2	-4.4	6.9	-6	-31	1	-2.5	14.0	1.3	6.5	-10	-10
92	2.53	2.7	-4.7	6.3	-7	-34	0	-3.0	14.7	1.4	6.2	-11	-10
93	2.67	2.3	-5.0	5.9	-8	-38	-2	-3.4	15.6	1.6	5.8	-12	-11
94	2.82	1.8	-5.4	5.2	-9	-42	-4	-3.9	16.2	1.8	5.4	-13	-12
95	2.96	1.3	-5.8	4.3	-11	-47	-6	-4.4	17.3	2.1	5.0	-13	-14
96	3.12	0.8	-6.2	3.3	-13	-53	-9	-5.0	18.4	2.4	4.3	-14	-15
97	3.37	-0.2	-6.8	2.2	-16	-60	-12	-5.8	19.7	2.7	3.6	-16	-17
98	3.60	-1.2	-7.6	0.9	-19	-69	-17	-6.6	21.8	3.3	2.4	-18	-19
99	4.22	-2.6	-9.2	-1.4	-22	-82	-28	-8.5	24.5	4.3	0.1	-21	-23
Bottom	5.79	-11.0	-16.4	-13.2	-41	-137	-69	-18.3	33.3	9.8	-24.3	-32	-36

Sires

Bull			Selection Values								Calf		Dam		Growth				Fertility				Frame		Measured Progeny				
ID	Index EBV Acc	Sire ID	Calv. Ease Value	Calf Grwth Value	Milk Value	Maint. Value	Fertility Value	Cow Value	Growth Value	Prod Value	Birth Dir	Wean Dir	Birth Mat.	Wean Mat.	Post wn wt	Mature weight	ADG	FCR	Scrotal	Heifer Fertility	Cow Fertility	Long-evi ty	Height	Length	Birth	Wean	Dgt/Calvs.		Grwth Test
																											Dam ID		
BL 160006		BL 120028 BL 130039	110	88	105	114	101	103	92	99	110	88	88	105	78	86	91	85	89	93	104	98	94	92	46	44	4	6	
BL16-006			91	91	66	47	44	61	20	53	-0.58	5.4	0.35	2.4	3.8	-1	0	-6	0.2	6.9	-2.8	13.5	-2	1					
											94	91	63	66	73	47	23	14	26	64	23	78	26	26					
CPB 220005		LEC 180077 CPB 160023	100	89	106	98	93	92			101	89	86	106	96	102	100	98	103	89	95	95	94	97	8	8			
22 005			81	79	56	32	35	50			0.39	5.6	0.43	2.8	15.9	15	36	-17	7.4	9.2	-1.2	12.1	-2	6					
											84	79	54	56	50	32	21	10	23	44	26	49	24	23					
DS 090440		4289101316 S 040989	81	108	86	103	91	83	106	86	82	108	141	86	107	97	112	116	102	83	95	98	121	112	189	174	43	213	
DS090440			99	98	96	88	88	92	84	90	2.59	14.8	-2.02	-3.5	22.7	10	83	-32	7.0	13.4	-1.2	13.3	18	22					
											99	98	95	96	91	88	86	80	88	90	85	95	88	87					
HCS 100028		HCS 060004 HCS 080008	125	77	88	118	109	98			121	77	116	88	82	82	82	86	80	120	104	128	89	83	18	17	7	21	
10 0028			88	87	77	47	54	65			-1.84	0.4	-0.88	-2.8	5.9	-5	-35	-8	-4.1	-12.1	-2.9	27.6	-5	-10					
											90	87	73	77	63	47	17	10	19	67	42	76	19	19					
HCS 180001		HCS 100028 HCS 140021	116	92	83	102	96	96			113	92	114	83	91	98	96	99	94	95	97	117	101	96	22	22			
HCS180001			86	87	58	30	36	53			-0.89	7.4	-0.81	-4.3	12.0	11	19	-18	3.0	4.9	-1.5	22.7	3	6					
											90	87	52	58	56	30	15	7	16	45	28	70	16	16					
LEC 180077		0332 WDC 090040	117	71	101	108	76	85	85	83	117	71	87	101	79	92	79	71	89	88	77	88	79	81	87	62	14	19	
LUNCHMONEY			96	95	89	86	85	89	82	88	-1.39	-2.8	0.39	1.1	4.1	4	-45	4	0.7	10.3	2.3	8.6	-12	-11					
											97	95	89	89	72	86	83	82	83	87	83	89	84	83					
MF 090067		WDC 060058 MF 060047	90	96	90	100	83	79	93	80	93	96	79	90	94	100	102	115	98	75	89	96	99	93	97	101	40	140	
0967			97	97	94	83	85	89	76	86	1.41	8.9	0.74	-2.3	14.2	13	42	-31	5.3	18.9	0.1	12.4	2	2					
											97	97	93	94	82	83	77	75	77	89	81	93	77	77					
SW 150087		DS 090440 SW 090015	102	92	100	106	106	97	101	96	102	92	142	100	95	94	100	102	95	114	103	111	103	98	140	123	6	11	
BULLY			95	96	82	53	54	70	32	62	0.36	7.3	-2.05	0.9	15.0	7	37	-21	3.6	-8.2	-2.6	19.7	5	7					
											98	96	72	82	76	53	40	19	45	66	43	83	46	44					
SW 190010		DS 160189 SW 140027	123	109	97	98	112	128	107	122	127	109	105	97	103	102	111	108	102	100	114	108	109	112	18	14			
ERLICH			86	84	61	37	38	54	24	48	-2.50	15.1	-0.39	0.0	20.3	15	77	-26	7.0	1.5	-4.7	18.0	9	22					
											89	84	57	61	60	37	26	21	29	47	30	64	29	28					

Breeding Values and Accuracies: Bulls

Inbreeding in red is high

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Animal		Selection Values									Birth		Wean				Growth			Fertility				Frame	
Index EBV Acc		Calv. Ease V	Calf Growth V	Milk V	Maint. V	Fertility V	Cow Value	Growth Value	Prod. Value		Birth wt dir	Birth mat	Mature wt	Wean wt	Wean mat	Cow-Calf Ratio (Wean)	Postwean wt	ADG	FCR	Scrotal Circ.	Heifer Fertility	Cow Fertility	Longevity	Height	Length
ID Number	Sire ID																								
Name	Dam ID																								
SW 150087	DS 090440	102	92	100	106	106	97	101	96		102	142	94	92	100	96	95	100	102	95	114	103	111	103	98
82914326	SW 090015	95	96	82	53	54	70	32	62		0.36	-2.05	7	7.3	0.9	21	15.0	37	-21	3.6	-8.2	-2.6	19.7	5	7
BULLY											98	72	53	96	82	77	76	40	19	45	66	43	83	46	44
HCS 200032	SW 150087	102	89	109	109	112	100	101	98		100	131	91	89	109	102	88	99	100	100	125	105	109	102	99
90886607	HCS 110029	85	84	80	77	77	80	76	79		0.60	-1.56	3	5.7	3.8	34	10.2	32	-19	5.9	-15.6	-3.1	18.9	4	8
HCS 200032											86	80	77	84	80	80	60	75	75	76	78	76	80	76	76
HCS 200037	BL 160006	117	84	82	106	103	90				131	91	94	84	82	76	77	90	92	94	97	105	105	95	90
90886656	HCS 130030	73	71	52	32	32	46				-2.98	0.25	6	3.6	-4.7	-21	2.7	-2	-13	2.8	4.1	-3.0	16.9	-1	-1
HCS 200037											76	50	32	71	52	52	52	18	13	20	44	21	53	21	20
HCS 200045	SW 150087	104	103	98	91	95	103				103	100	109	103	98	99	101	112	111	107	104	93	110	116	112
91094581	HCS 160005	73	71	53	35	36	48				0.19	-0.16	22	12.5	0.4	26	18.8	80	-28	9.9	-0.8	-0.8	19.2	15	23
HCS 200045											76	49	35	71	53	53	50	23	11	26	44	28	53	26	25
HCS 210009	SW 150087	113	86	94	112	98	96				109	122	88	86	94	88	86	93	97	88	111	94	120	95	90
92472893	HCS 130021	75	72	57	38	38	51				-0.47	-1.14	1	4.3	-1.1	4	8.9	7	-17	-0.2	-5.7	-1.0	24.1	-1	-1
HCS 210009											77	53	38	72	57	56	52	24	11	27	47	29	54	28	27
HCS 210013	SW 150087	97	100	104	90	105	99				96	112	110	100	104	100	99	110	114	105	94	107	116	111	108
92472935	HCS 160015	75	73	55	35	38	50				1.06	-0.71	23	11.0	2.0	30	17.3	76	-30	8.8	5.5	-3.5	22.0	11	18
HCS 210013											78	52	35	73	55	54	52	23	11	26	45	30	54	26	25
HCS 210028	HCS 180001	110	103	93	89	108	106				107	112	111	103	93	94	97	109	108	105	108	107	113	112	112
92602572	HCS 110019	72	72	51	30	30	45				-0.22	-0.73	24	12.3	-1.2	16	16.5	70	-26	8.6	-3.8	-3.4	20.7	12	23
HCS 210028											75	45	30	72	51	51	48	13	7	15	37	24	50	15	15
HCS 210042	SW 150087	97	105	91	98	103	97				95	108	102	105	91	96	106	106	108	101	99	104	109	108	104
92602713	HCS 180030	72	71	53	35	36	48				1.09	-0.54	14	13.2	-1.9	22	22.0	58	-25	6.5	2.6	-2.9	18.8	8	14
HCS 210042											75	49	35	71	53	53	52	23	11	26	45	28	53	26	26
HCS 210047	HCS 180001	104	98	100	95	89	99				102	105	105	98	100	97	92	106	108	102	84	92	118	109	106
92664630	HCS 150012	73	71	49	28	32	45				0.31	-0.42	18	10.1	0.9	24	12.9	58	-26	7.4	12.6	-0.6	22.8	9	16
21 0047											76	45	28	71	49	49	47	13	6	15	40	25	49	15	14
CPB 220005	LEC 180077	100	89	106	98	93	92				101	86	102	89	106	96	96	100	98	103	89	95	95	94	97
95598983	CPB 160023	81	79	56	32	35	50				0.39	0.43	15	5.6	2.8	21	15.9	36	-17	7.4	9.2	-1.2	12.1	-2	6
22 005											84	54	32	79	56	56	50	21	10	23	44	26	49	24	23
HCS 220003	SW 150087	104	89	100	120	83	95				102	111	80	89	100	98	93	98	103	94	95	82	117	99	93
94092608	HCS 150022	74	73	56	35	37	50				0.34	-0.67	-7	5.7	1.0	26	13.3	27	-21	2.9	5.1	1.2	22.6	2	2
22 0003											77	52	35	73	56	55	52	23	11	26	45	29	54	26	25
HCS 220004	SW 150087	101	93	107	96	105	98				98	117	104	93	107	99	96	101	104	96	118	100	118	103	99
94092616	HCS 180007	76	74	57	35	38	51				0.73	-0.92	16	7.7	2.9	27	15.6	39	-23	4.1	-10.8	-2.1	23.1	5	8
22 0004											78	53	35	74	57	55	52	23	11	26	46	29	54	26	25

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 Values							Birth		Wean				Growth			Fertility				Frame		
Index EBV Acc	% Inbreeding	Sire ID Dam ID		Calv. Ease V	Calf Growth V	Milk V	Maint. V	Fertility V	Cow Value	Growth Value	Prod. Value	Birth wt dir	Birth mat	Mature wt	Wean wt	Wean mat	Cow-Calf Ratio (Wean)	Postwean wt	ADG	FCR	Scrotal Circ.	Heifer Fertility	Cow Fertility	Longevity	Height	Length
HCS 220018 94697018 22 0018	1	SW 150087 HCS 160015		93 63	99 72	105 55	93 35	104 38	96 49			91 1.57 64	112 -0.72 52	107 20 35	99 10.6 72	105 2.6 55	102 33 54	98 16.7 52	107 64 23	112 -28 11	102 7.2 26	96 4.7 45	106 -3.3 30	117 22.5 54	108 9 26	104 14 25
HCS 230006 96962428 23 06	1	SW 150087 HCS 150012		88 74	106 72	110 55	96 36	94 38	100 50			86 2.10 77	116 -0.89 52	104 17 36	106 13.8 72	110 3.9 55	111 52 54	106 21.9 52	110 73 23	111 -28 11	104 8.4 26	93 6.6 46	96 -1.3 29	114 21.3 54	112 11 26	109 19 25
HCS 230007 97198212 23 07	1	SW 150087 HCS 180032		91 74	102 74	98 55	95 33	108 36	94 49			90 1.73 77	114 -0.80 51	105 18 33	102 11.9 74	98 0.2 55	99 26 54	90 11.6 52	110 73 23	112 -29 11	105 8.7 26	109 -4.3 44	106 -3.2 29	113 20.4 53	112 11 26	108 18 25
HCS 230008 96962436 23 08	1	SW 150087 HCS 140011		86 74	113 73	105 57	93 37	119 37	105 50			86 2.10 76	101 -0.24 53	107 20 37	113 16.8 73	105 2.4 57	111 52 56	114 27.8 51	112 81 23	110 -27 12	108 10.3 26	119 -11.6 45	116 -5.2 29	120 23.7 54	117 15 26	114 25 25
HCS 230013 96337530 HCS 230013	1	SW 150087 HCS 150015		111 76	85 74	99 58	92 38	126 36	96 51			109 -0.47 78	106 -0.45 54	108 21 38	85 3.7 74	99 0.7 58	86 0 57	97 15.9 52	91 1 23	92 -12 11	87 -0.8 26	130 -19.1 45	121 -6.0 28	122 24.9 54	95 -1 26	91 -1 25
HCS 230016 96337563 HCS 230016	1	SW 150087 HCS 180020		101 73	108 71	93 53	96 33	95 37	104 48			100 0.57 76	107 -0.47 50	104 17 33	108 14.8 71	93 -1.1 53	100 29 52	104 20.8 51	113 87 23	114 -31 11	109 10.7 26	99 2.4 45	95 -1.1 29	114 21.0 53	114 13 26	111 22 25
HCS 230020 96337605 HCS 230020	1	SW 190010 HCS 200025		122 73	112 68	102 44	90 27	112 28	131 42			121 -1.81 76	98 -0.07 44	110 22 27	112 16.4 68	102 1.6 44	107 45 46	107 22.6 46	115 93 15	111 -28 12	108 10.2 17	106 -2.3 37	112 -4.4 19	114 21.2 44	114 13 17	116 27 16
HCS 230021 96337613 HCS 230021	1	SW 150087 HCS 160008		113 76	98 74	95 58	97 36	115 36	108 50			109 -0.52 78	125 -1.31 54	103 16 36	98 10.2 74	95 -0.6 58	94 18 56	99 17.6 50	104 50 23	107 -25 11	99 5.8 26	109 -4.6 44	114 -4.8 29	119 23.2 54	106 7 26	102 11 25
HCS 230024 96337647 HCS 230024	1	SW 150087 HCS 160021		98 76	100 72	106 56	99 36	106 38	102 50			95 1.11 78	117 -0.95 54	101 14 36	100 10.8 72	106 2.9 56	105 39 55	102 19.5 51	110 72 23	112 -29 10	105 8.7 25	108 -3.9 45	104 -2.9 30	118 22.7 54	111 11 26	108 18 25
HCS 240001 97325351 HCS 240001	1	SW 150087 HCS 150037		93 75	97 61	92 54	116 34	110 36	92 46			92 1.48 78	111 -0.67 52	84 -3 34	97 9.6 61	92 -1.5 54	97 23 50	99 17.8 46	96 21 24	97 -16 11	89 0.5 26	122 -13.7 44	104 -2.9 27	117 22.4 54	102 4 27	97 6 26
HCS 250008 6020661705 HCS 250008	1	CPB 220005 HCS 200027		99 70	90 68	104 45	105 29	97 28	93 42			100 0.57 73	92 0.17 42	95 8 29	90 6.4 68	104 2.1 45	98 24 47	110 25.0 44	93 10 16	95 -15 8	92 2.1 18	99 2.2 36	97 -1.5 21	112 19.9 40	92 -3 18	91 -1 18
HCS 250009 6020661663 HCS 250009	1	CPB 220005 HCS 200018		101 70	84 67	99 45	103 28	98 28	85 42			101 0.49 73	97 -0.04 41	97 10 28	84 3.3 67	99 0.7 45	88 5 47	95 14.6 44	91 -1 16	93 -13 7	89 0.7 17	101 0.8 36	98 -1.7 21	108 18.4 40	89 -5 18	87 -5 17

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 Values								Birth		Wean				Growth			Fertility				Frame	
Index EBV Acc	Inbreeding	Sire ID Dam ID	Calv. Ease V	Calf Growth V	Milk V	Maint. V	Fertility V	Cow Value	Growth Value	Prod. Value	Birth wt dir	Birth mat	Mature wt	Wean wt	Wean mat	Cow-Calf Ratio (Wean)	Postwean wt	ADG	FCR	Scrotal Circ.	Heifer Fertility	Cow Fertility	Longevity	Height	Length
ID Number Name																									
HCS 250010 6020661655 HCS 250010	1	CPB 220005 HCS 170029	86 71	101 68	96 48	100 30	93 30	86 44			86 2.10 74	98 -0.11 46	100 13 30	101 11.4 68	96 -0.2 48	98 26 49	100 18.3 45	103 45 17	103 -21 8	101 6.5 19	88 10.2 38	95 -1.2 23	102 15.5 42	100 3 19	101 10 19
HCS 250011 6020661689 HCS 250011	1	CPB 220005 HCS 200005	106 70	101 68	92 45	90 29	104 28	100 42			104 0.06 73	108 -0.51 42	110 23 29	101 11.4 68	92 -1.4 45	92 13 47	98 17.1 44	109 68 16	105 -23 8	107 9.4 18	99 2.5 36	105 -3.0 21	107 17.5 40	108 8 18	109 19 18
HCS 250012 6020661671 HCS 250012	1	CPB 220005 HCS 150006	90 70	95 69	113 49	86 30	91 31	91 44			92 1.48 73	86 0.43 47	114 27 30	95 8.8 69	113 4.8 49	102 34 49	97 16.2 46	106 58 15	107 -25 7	104 8.3 17	90 8.9 38	93 -0.8 24	103 16.0 43	103 5 17	103 13 17
HCS 250013 6020661697 HCS 250013	1	CPB 220005 HCS 170013	99 70	79 68	93 48	115 27	80 31	76 43			101 0.47 73	86 0.45 45	85 -2 27	79 1.2 68	93 -1.3 48	83 -6 48	82 6.5 46	89 -7 15	95 -15 7	89 0.5 17	87 11.1 38	81 1.4 24	106 17.5 42	87 -7 17	83 -9 17
HCS 250016 6020660459 HCS 250016	1	CPB 220005 HCS 220008	105 50	95 49	98 37	105 23	103 23	101 33			106 -0.13 52	89 0.30 36	95 8 23	95 8.7 49	98 0.3 37	97 23 36	98 17.1 32	101 39 14	99 -18 8	97 4.8 15	102 0.2 29	102 -2.6 17	110 19.2 36	100 2 15	100 10 15

Breeding Values and Accuracies: Cows

Inbreeding in red is high

Value <80 Value >120

Breeding values with an accuracy < 5% are not printed

Animal			Selection Values								Birth		Wean				Growth			Fertility				Frame	
Index EBV Acc	% Inbreeding	Sire ID Dam ID	Calv. Ease V	Calf Growth V	Milk V	Maint. V	Fertility V	Cow Value	Growth Value	Prod. Value	Birth wt dir	Birth mat	Mature wt	Wean wt	Wean mat	Cow-Calf Ratio (Wean)	Postwean wt	ADG	FCR	Scrotal Circ.	Heifer Fertility	Cow Fertility	Longevity	Height	Length
ID Number Name																									
HCS 150006 82369539 HCS1506	1	MF 090067 HCS 120033	85 77	101 78	119 79	74 47	90 51	92 62			88 1.97 77	83 0.57 76	126 39 47	101 11.3 78	119 6.6 79	107 43 68	99 17.7 60	110 72 22	114 -31 10	104 8.2 25	90 8.8 62	91 -0.5 40	111 19.5 65	110 10 25	107 17 24
HCS 170013 85070555 HCS170013	26	MF 090067 HCS 120045	94 79	91 77	74 76	120 40	70 51	72 60			96 1.00 80	82 0.63 71	80 -7 40	91 6.9 77	74 -7.0 76	79 -15 64	93 13.4 58	94 11 22	106 -24 10	91 1.3 25	78 17.2 61	72 3.1 41	117 22.7 65	93 -2 25	87 -5 24
HCS 170029 86227527 170029	1	MF 090067 HCS 070001	97 80	82 76	92 76	120 47	89 50	78 61	81 22	78 53	96 0.96 81	102 -0.25 74	80 -7 47	82 2.7 76	92 -1.7 76	86 0 66	84 7.5 57	84 -25 27	91 -12 13	79 -4.4 30	94 5.9 62	89 -0.1 38	108 18.1 65	87 -7 31	82 -10 30
HCS 170030 86227535 170030	5	HCS 100028 HCS 140023	100 77	94 74	107 72	112 39	97 46	101 57			99 0.69 78	107 -0.49 66	88 1 39	94 8.0 74	107 3.1 72	105 40 62	97 16.2 49	92 5 16	93 -14 9	88 0.2 18	116 -9.6 57	91 -0.4 36	126 26.6 58	100 2 18	94 3 18
HCS 190009 89331177 HCS 190009	2	BL 160006 HCS 130021	118 77	85 75	86 68	109 47	102 40	95 56			118 -1.44 79	95 0.07 62	91 3 47	85 3.8 75	86 -3.5 68	80 -12 63	82 6.0 53	86 -20 18	86 -8 10	82 -3.0 20	111 -6.3 58	99 -1.9 23	125 26.5 57	89 -6 20	85 -7 20
HCS 200005 90784125 HCS 200005	1	SW 150087 HCS 140016	103 77	96 75	91 69	98 44	112 45	95 57	98 20	94 50	100 0.53 79	115 -0.85 63	102 15 44	96 9.1 75	91 -2.0 69	90 8 63	99 17.8 54	97 25 24	96 -16 12	92 1.9 27	116 -9.2 57	109 -3.7 33	119 23.2 58	103 5 27	99 8 27
HCS 200017 90932799 HCS 200017	2	BL 160006 HCS 120004	113 76	92 74	107 62	134 42	104 40	116 53			112 -0.82 78	100 -0.19 58	66 -21 42	92 7.1 74	107 3.2 62	112 55 59	93 13.5 52	93 9 14	91 -12 9	91 1.3 16	107 -3.3 56	102 -2.4 23	124 25.7 56	98 1 16	95 4 16
HCS 200018 90932807 HCS 200018	1	SW 150087 HCS 120040	105 77	88 75	86 69	102 41	105 44	85 56			102 0.32 79	116 -0.90 63	98 11 41	88 5.2 75	86 -3.4 69	81 -11 62	92 12.6 53	89 -7 23	95 -15 11	84 -2.2 26	110 -4.9 56	103 -2.7 32	122 24.9 58	92 -3 26	86 -6 25
HCS 200026 90932880 HCS 200026	1	SW 150087 HCS 120022	99 77	102 75	110 69	95 40	95 44	106 56			97 0.84 79	112 -0.71 62	105 17 40	102 11.7 75	110 4.1 69	108 46 61	106 22.5 56	109 69 23	111 -28 11	103 7.7 26	103 -0.4 56	93 -0.7 33	120 23.7 58	111 10 26	107 17 25
HCS 200027 90932898 HCS 200027	1	SW 150087 HCS 130021	108 78	94 75	93 69	107 44	103 46	99 57			104 0.10 79	120 -1.08 64	93 5 44	94 8.2 75	93 -1.4 69	92 13 63	101 18.9 54	93 7 24	97 -17 11	88 -0.2 27	106 -2.6 58	101 -2.3 33	129 28.1 58	95 -1 28	90 -1 27
HCS 220001 94092582 22 0001	1	SW 190010 HCS 190009	125 71	98 68	89 46	103 30	107 28	114 43			125 -2.33 74	102 -0.27 42	97 10 30	98 10.1 68	89 -2.4 46	91 11 48	91 12.1 46	98 29 16	98 -17 12	92 2.0 17	105 -1.8 37	107 -3.4 19	120 23.9 44	99 2 18	99 8 17
HCS 220005 94092624 22 0005	1	SW 150087 HCS 150015	102 75	98 74	95 58	85 38	128 36	98 51			100 0.58 77	115 -0.86 54	115 28 38	98 9.8 74	95 -0.5 58	91 10 57	99 17.6 52	99 33 23	99 -18 11	94 3.3 26	125 -15.9 45	125 -6.7 28	125 26.3 54	103 5 26	99 9 25

Breeding Values and Accuracies: Cows

Inbreeding in red is high

Value <80 Value >120

Breeding values with an accuracy < 5% are not printed

Animal			Selection Values								Birth		Wean				Growth			Fertility				Frame	
Index EBV Acc	% Inbreeding	Sire ID Dam ID	Calv. Ease V	Calf Growth V	Milk V	Maint. V	Fertility V	Cow Value	Growth Value	Prod. Value	Birth wt dir	Birth mat	Mature wt	Wean wt	Wean mat	Cow-Calf Ratio (Wean)	Postwean wt	ADG	FCR	Scrotal Circ.	Heifer Fertility	Cow Fertility	Longevity	Height	Length
ID Number Name																									
HCS 220008 94092657 22 0008		SW 190010 HCS 150037	111 60	102 57	90 48	112 29	113 30	109 40			111 -0.65 61	92 0.17 47	88 1 29	102 11.9 57	90 -2.1 48	98 25 45	100 18.2 40	101 41 18	100 -19 13	92 2.2 20	115 -8.9 37	110 -3.9 23	126 26.6 50	105 6 20	103 13 19
HCS 220011 94092681 22 0011	1	SW 150087 HCS 170019	97 77	106 73	101 62	95 34	121 36	106 50			95 1.14 79	116 -0.88 58	105 17 34	106 13.9 73	101 1.1 62	104 37 56	106 22.6 51	104 51 21	105 -23 10	100 6.3 24	119 -11.3 44	119 -5.6 28	135 31.0 54	109 9 24	105 15 23
HCS 220019 94697000 22 0019	1	SW 150087 HCS 180021	98 62	101 74	103 56	91 35	117 36	101 49			96 0.98 63	107 -0.50 51	109 22 35	101 11.3 74	103 1.9 56	101 30 55	111 25.6 52	101 40 23	105 -23 11	97 4.4 26	110 -5.6 45	116 -5.0 28	121 24.2 53	103 5 26	99 8 25
HCS 230005 96962402 23 05	1	SW 150087 HCS 130023	74 75	114 73	106 57	84 37	104 37	92 50			73 3.64 77	117 -0.93 53	116 28 37	114 17.3 73	106 2.6 57	109 49 56	109 24.2 52	110 74 24	112 -29 11	104 8.4 27	97 3.7 45	106 -3.1 29	117 22.3 54	112 11 28	109 19 27
HCS 230012 96337522 HCS 230012	1	SW 150087 HCS 130019	93 74	101 72	101 55	102 32	90 36	94 48			90 1.67 76	118 -0.98 51	98 10 32	101 11.3 72	101 1.1 55	102 34 53	98 16.7 50	101 38 23	106 -24 11	96 4.1 26	86 11.7 45	93 -0.7 27	109 18.5 54	104 6 26	99 8 25
HCS 230018 96337589 HCS 230018	1	SW 150087 HCS 180007	108 76	92 74	106 57	100 35	104 38	103 51			105 -0.06 78	114 -0.80 53	100 12 35	92 7.0 74	106 2.6 57	98 26 55	97 16.5 52	96 21 23	101 -19 11	92 1.8 26	119 -11.3 46	99 -1.9 29	118 23.1 54	99 2 26	94 3 25
HCS 230030 96337704 HCS 230030	1	SW 150087 HCS 190008	108 74	92 71	104 52	103 36	118 34	105 48			105 -0.02 77	128 -1.42 50	97 10 36	92 7.3 71	104 2.1 52	99 26 53	92 12.6 47	97 25 22	96 -15 10	93 2.4 24	118 -10.9 44	115 -4.9 24	120 23.8 52	99 2 25	97 7 24
HCS 230034 97325344 HCS 230034	1	SW 150087 HCS 170019	89 74	101 61	108 54	99 34	120 36	99 46			88 1.90 77	107 -0.47 52	101 14 34	101 11.4 61	108 3.3 54	107 43 50	104 20.9 46	100 34 21	101 -20 10	96 4.2 24	121 -12.9 44	117 -5.3 28	127 27.0 52	105 6 24	100 10 23
HCS 250007 6020661713 HCS 250007	1	CPB 220005 HCS 200026	102 70	97 68	107 45	96 27	94 28	102 42			101 0.41 73	98 -0.08 41	104 17 27	97 9.7 68	107 3.1 45	103 35 47	105 21.4 44	105 55 16	105 -23 7	103 7.9 17	95 5.1 36	95 -1.1 21	107 17.9 38	103 5 18	103 13 17
HCS 250014 6020661721 HCS 250014	1	CPB 220005 HCS 220011	111 70	89 67	102 43	101 24	107 25	101 40			110 -0.54 73	103 -0.32 40	99 12 24	89 5.7 67	102 1.5 43	94 17 45	91 12.1 43	96 22 15	97 -16 7	96 4.1 17	105 -2.0 31	106 -3.2 19	115 21.6 36	96 0 17	95 4 16

Selection List on Cow Value

Bulls 2 years and older

ID Sorted on ID		Name	Sire ID	Dam ID	% Inbreeding	Horned / Polled	Myostatin				Calving Ease Value Acc	Calf Growth Value Acc	Milk Value Acc	Maint. Value Acc	Fertility Value Acc	Cow Value Acc	Growth Value Acc	Prod Value Acc	
									★★★★★										
1	HCS 230020	HCS 230020	SW 190010	HCS 200025	0.7						12273	11268	10244	9027	11228	13142			
									★★★★										
1	HCS 200032	HCS 200032	SW 150087	HCS 110029	1.3	HH	0	0	0		10285	8984	10980	10977	11277	10080	10176	9879	
2	HCS 200045	HCS 200045	SW 150087	HCS 160005	1.2						10473	10371	9853	9135	9536	10348			
3	HCS 210028	HCS 210028	HCS 180001	HCS 110019	12.8						11072	10372	9351	8930	10830	10645			
4	HCS 230006	23 06	SW 150087	HCS 150012	1.1						8874	10672	11055	9636	9438	10050			
5	HCS 230008	23 08	SW 150087	HCS 140011	1.2						8674	11373	10557	9337	11937	10550			
6	HCS 230016	HCS 230016	SW 150087	HCS 180020	1.1						10173	10871	9353	9633	9537	10448			
7	HCS 230021	HCS 230021	SW 150087	HCS 160008	1.5						11376	9874	9558	9736	11536	10850			
8	HCS 230024	HCS 230024	SW 150087	HCS 160021	1.4						9876	10072	10656	9936	10638	10250			
									★★★★										
1	CPB 220005	22 005	LEC 180077	CPB 160023	0.5						10081	8979	10656	9832	9335	9250			
2	HCS 200037	HCS 200037	BL 160006	HCS 130030	0.5						11773	8471	8252	10632	10332	9046			
3	HCS 210009	HCS 210009	SW 150087	HCS 130021	1.1						11375	8672	9457	11238	9838	9651			
4	HCS 210013	HCS 210013	SW 150087	HCS 160015	1.3						9775	10073	10455	9035	10538	9950			
5	HCS 210042	HCS 210042	SW 150087	HCS 180030	1.2						9772	10571	9153	9835	10336	9748			
6	HCS 210047	21 0047	HCS 180001	HCS 150012	13.0						10473	9871	10049	9528	8932	9945			
7	HCS 220003	22 0003	SW 150087	HCS 150022	1.6						10474	8973	10056	12035	8337	9550			
8	HCS 220004	22 0004	SW 150087	HCS 180007	1.1						10176	9374	10757	9635	10538	9851			
9	HCS 220018	22 0018	SW 150087	HCS 160015	1.3						9363	9972	10555	9335	10438	9649			
10	HCS 230007	23 07	SW 150087	HCS 180032	1.4						9174	10274	9855	9533	10836	9449			
11	HCS 230013	HCS 230013	SW 150087	HCS 150015	0.9						11176	8574	9958	9238	12636	9651			
12	HCS 240001	HCS 240001	SW 150087	HCS 150037	0.9						9375	9761	9254	11634	11036	9246			
13	SW 150087	BULLY	DS 090440	SW 090015	0.2						10295	9296	10082	10653	10654	9770	10132	9662	

Selection List on Cow Value

Cows 2 years and older

ID Sorted on ID		Name	Sire ID	Dam ID	% Inbreeding	Horned / Polled	Myostatin		Genomic tested	Calving Ease Value Acc	Calf Growth Value Acc	Milk Value Acc	Maint. Value Acc	Fertility Value Acc	Cow Value Acc	Growth Value Acc	Prod Value Acc								
										★★★★☆															
1	HCS 200017	HCS 200017	BL 160006	HCS 120004	2.4					113	76	92	74	107	62	134	42	104	40	116	53				
2	HCS 220001	22 0001	SW 190010	HCS 190009	0.7					125	71	98	68	89	46	103	30	107	28	114	43				
										★★★★															
1	HCS 170030	170030	HCS 100028	HCS 140023	4.7					100	77	94	74	107	72	112	39	97	46	101	57				
2	HCS 200026	HCS 200026	SW 150087	HCS 120022	1.3					99	77	102	75	110	69	95	40	95	44	106	56				
3	HCS 220008	22 0008	SW 190010	HCS 150037	0.4					111	60	102	57	90	48	112	29	113	30	109	40				
4	HCS 220011	22 0011	SW 150087	HCS 170019	1.2					97	77	106	73	101	62	95	34	121	36	106	50				
5	HCS 220019	22 0019	SW 150087	HCS 180021	1.2					98	62	101	74	103	56	91	35	117	36	101	49				
6	HCS 230018	HCS 230018	SW 150087	HCS 180007	1.1					108	76	92	74	106	57	100	35	104	38	103	51				
7	HCS 230030	HCS 230030	SW 150087	HCS 190008	0.8					108	74	92	71	104	52	103	36	118	34	105	48				
										★★★☆☆															
1	HCS 150006	HCS1506	MF 090067	HCS 120033	0.8					85	77	101	78	119	79	74	47	90	51	92	62				
2	HCS 190009	HCS 190009	BL 160006	HCS 130021	1.8					118	77	85	75	86	68	109	47	102	40	95	56				
3	HCS 200005	HCS 200005	SW 150087	HCS 140016	0.7					103	77	96	75	91	69	98	44	112	45	95	57	98	20	94	50
4	HCS 200027	HCS 200027	SW 150087	HCS 130021	1.1					108	78	94	75	93	69	107	44	103	46	99	57				
5	HCS 220005	22 0005	SW 150087	HCS 150015	0.9					102	75	98	74	95	58	85	38	128	36	98	51				
6	HCS 230005	23 05	SW 150087	HCS 130023	1.1					74	75	114	73	106	57	84	37	104	37	92	50				
7	HCS 230012	HCS 230012	SW 150087	HCS 130019	1.3					93	74	101	72	101	55	102	32	90	36	94	48				
8	HCS 230034	HCS 230034	SW 150087	HCS 170019	1.2					89	74	101	61	108	54	99	34	120	36	99	46				
										★★★															
1	HCS 200018	HCS 200018	SW 150087	HCS 120040	1.1					105	77	88	75	86	69	102	41	105	44	85	56				
										★★★☆☆															
1	HCS 170013	HCS170013	MF 090067	HCS 120045	25.6					94	79	91	77	74	76	120	40	70	51	72	60				

Selection List on Cow Value

Cows 2 years and older

ID Sorted on ID		Name	Sire ID	Dam ID	% Inbreeding	Horned / Polled	Myostatin			Genomic tested	Calving Ease Value Acc	Calf Growth Value Acc	Milk Value Acc	Maint. Value Acc	Fertility Value Acc	Cow Value Acc	Growth Value Acc	Prod Value Acc	
										★★★									
2	HCS 170029	170029	MF 090067	HCS 070001	1.0						9780	8276	9276	12047	8950	7861	8122	7853	

Selection List on Cow Value

Bull Calves younger than 2 years

ID Sorted on ID			Name	Sire ID	Dam ID	% Inbreeding	Horned / Polled	Myostatin				Genomic tested	Calving Ease Value Acc	Calf Growth Value Acc	Milk Value Acc	Maint. Value Acc	Fertility Value Acc	Cow Value Acc	Growth Value Acc	Prod Value Acc						
													★★★★													
1	HCS 250011	HCS 250011	CPB 220005	HCS 200005	0.8							106	70	101	68	92	45	90	29	104	28	100	42			
2	HCS 250016	HCS 250016	CPB 220005	HCS 220008	0.6							105	50	95	49	98	37	105	23	103	23	101	33			
													★★★★☆													
1	HCS 250008	HCS 250008	CPB 220005	HCS 200027	0.8							99	70	90	68	104	45	105	29	97	28	93	42			
2	HCS 250012	HCS 250012	CPB 220005	HCS 150006	0.8							90	70	95	69	113	49	86	30	91	31	91	44			
													★★★★													
1	HCS 250009	HCS 250009	CPB 220005	HCS 200018	0.8							101	70	84	67	99	45	103	28	98	28	85	42			
2	HCS 250010	HCS 250010	CPB 220005	HCS 170029	0.7							86	71	101	68	96	48	100	30	93	30	86	44			
													★★★☆☆													
1	HCS 250013	HCS 250013	CPB 220005	HCS 170013	0.8							99	70	79	68	93	48	115	27	80	31	76	43			

Selection List on Cow Value

Heifers younger than 2 years

ID Name Sorted on ID		Sire ID	Dam ID	% Inbreeding	Horned / Polled	Myostatin			Genomic tested	Calving Ease Value Acc	Calf Growth Value Acc	Milk Value Acc	Maint. Value Acc	Fertility Value Acc	Cow Value Acc	Growth Value Acc	Prod Value Acc	
										★★★★								
1	HCS 250007	HCS 250007	CPB 220005	HCS 200026	0.8					10270	9768	10745	9627	9428	10242			
2	HCS 250014	HCS 250014	CPB 220005	HCS 220011	0.8					11170	8967	10243	10124	10725	10140			

	EBVi	Description / Measurement	Goal	Low Value	High Value
Selection Values	Calving Ease Value	Difficult calving due to high birth weight	Average birth weight	High	Low
	Calf Growth Value	Calf's genetic ability for prewean growth	Heavy weaner	Light	Heavy
	Milk Value	Cow's genetic mothering and milking ability	Enough milk for calf	Less	More
	Maintenance Value	Maintenance requirement of cow (weight and milk)	Low cow maintenance	High	Low
	Fertility Value	Fertility and retention of cows and heifers	Fertile cows	Low	High
	Cow Value	Combination of calving ease, calf growth, milk, maintenance and fertility values (Rand-value per Ha)	Profitable cows	Loss	Profit
	Weaner Calf Value	Heavier weaners and more milk, with lower birth and cow weights	Heavy weaner	Light	Heavy
	Growth Value	Efficient growth on veld and in feedlot (Rand-value per animal)	Profitable growth	Loss	Profit
	Production Value	Combination of Cow- and Growth Values (Rand-value)	Profitable animals	Loss	Profit
	Carcass Value	Meat on carcass (Weight and RTU EBVs)	Meat on carcass	Less	More
Birth	Cow weight - birth	Cow weight at birth of calves	Mature cow weight	Light	Heavy
	Birth weight direct	Birth weight (Calf's genetic ability)	Average birth weight	Heavy	Light
	Cow-Calf birth	EBV Birth dir / EBV Mature cow weight	Average	Low	High
Wean	Cow Weight wean	Cow weight at weaning of calves	Mature cow weight	Light	Heavy
	Weaning weight direct	Weaning weight (Calf's genetic ability)	Heavy weaners	Light	Heavy
	Weaning weight mat	Weaning weight (Dam's genetic ability)	Good mothers	Poor	Good
	Cow-Calf Wean	EBV Wean dir / EBV Mature cow weight	High cow-calf ratio	Low	High
Growth & Adaptation	Post-Wean weight	12- and 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	Thin	Thick
Fertility	Scrotal Circumference	Scrotal circumference in growth test	Fertile bulls	Less	More
	Heifer Fertility	Age at first calving	Fertile heifers	Less	More
	Cow Fertility	First 3 inter-calving periods (ICPs)	Fertile cows	Less	More
	Longevity	Retention of progeny	Acceptable progeny	Poor	Good
Frame	Height	Shoulder / Hip height in growth test	Average height	Short	Tall
	Length	Length in growth test	Longer (more meat)	Short	Long
	Length:Height	EBV Length / EBV Height	Longer, not higher	Less desirable	More desirable
Carcass	Eye Muscle Area	RTU Eye muscle area	Muscle in carcass	Small	Big
	Fat	RTU P8 Backfat Thickness	Carcass quality & adaptability	Thin	Thick
	Marbling	RTU % Marbling	Juicy meat	Low	High
	Dressing%	Carcass weight / Live weight	High dressing %	Low	High

Notes on the interpretation of EBVs, EBVi's, sub-values and selection values

EBVi (EBVindex) is the breeding value index and is easier to interpret than the breeding value, especially for commercial farmers buying from stud farmers. The base of a breeding value index is 100, which is the average of all the live animals in the breed, and all values are expressed relative to this value. Values above 100 are always in a more desirable direction: an index of 105 for AFC indicates a genetic potential to calve earlier. Note that a very high index is not always desirable. For certain traits, such as birth weight, average values can be better.

EBV: (Estimated Breeding Value) indicates the genetic potential of the animal for a specific trait. It is presented in the unit of measurement and relative to the average of animals born in the base year (1990 for most breeds and traits). Higher values for certain traits are better while lower values for other traits are better, for example, an EBV of -2 for AFC (age at first calving) indicates that the animal has the genetic potential to calve 2 days earlier than the average heifer in 1990 (the base year). Earlier calving is better and therefore low breeding values (high breeding value indices) are better. For weaning weight, higher values are better.

Sub-values combine similar breeding values in a scientific manner to simplify the selection of animals. For example, AFC (age at first calving) and ICP (inter-calving period) are combined to form the sub-value Fertility by taking the heritability and economic importance in consideration. The sub-value is expressed in an index format, thus an animal with a sub-value of 110 for Fertility will genetically be above average compared to the live animals in the breed.

Selection Values (Cow Value and Growth Value) combine the sub-values into a single value. This gives a quick and easy indication of the combined genetic value of an animal compared to the breed. It is advised to still look at the sub-values to see where the strengths and weaknesses lie.

How to use breeding values to select animals

Selecting animals on breeding values is easy if you know how. There is a common saying that “good nutrition can mask poor breeding”. This is very true. If an animal that is genetically inferior is fed well, it can appear as a great animal. This great performance will not be passed over to future generations. An animal that is genetically superior can appear to be inferior if its environment did not allow it to reach its true potential. It is best to select animals that are most adapted to the environment and can reach their full potential. To continuously adapt the environment to the animal can be expensive.

The reason why the use of breeding values is such a valuable tool is because it “removes” the environmental effect that contributes to the performance.

Scientific methods are used to determine how much of the performance is due to genetics and to identify genetically superior animals. This involves the measurement of animals under controlled environments, complete record keeping and pedigree information. *If performance recording and pedigree information are not done correctly, breeding values of these animals will not be useful.* Keep in mind that breeding is a long-term option: the effect of a bull selected/bought today will only show much later. If it is a good decision, his daughters will become part of the breeding herd and contribute to overall profitability in future.

Even if a bull is not perfect in all aspects, knowing the shortcomings will allow strategic selection with suitable cows. Traits are genetically correlated, meaning that a change in one trait can lead to a change in another. This change can be favourable or unfavourable. An increase in weaning weight can lead to an increase in birth weight, which can lead to calving difficulty. It is therefore advisable to not only select on a single trait. Take other traits in consideration to avoid negative effects.

How to improve the herd genetically

The first and most important aspect is to know what type of animal will improve the herd genetically. This can be determined through the following factors:

What happens to the calves? For example: used as replacement heifers, sold as stud animals or sold to commercial breeders who sell weaner calves.

How much feed is available? The availability of feed (or the hardness of the environment) determines the optimal frame size. If feed is abundant and the environment is less harsh, larger animals would be ideal. If not, medium framed animals would be ideal.

What is the genetics of the cow herd? Are they the wrong frame type, grow too slowly, do not have enough milk, etc.? Always aim to breed a calf that is superior to its dam.

Conclusion

Different types of bulls are suitable for different types of cows, environments and breeding objectives. Inbreeding should be avoided or limited as much as possible. Mating programs are available to aid in the pairing of bulls and cows.

The data used for this evaluation is pedigree information and performance data found on LOGIX as provided by breeders. All attempts are made to present accurate information. SA Stud Book takes no responsibility for the use and interpretation of information presented in this report.

