

CHAROLAIS

GENOMIC BREEDING VALUE REPORT

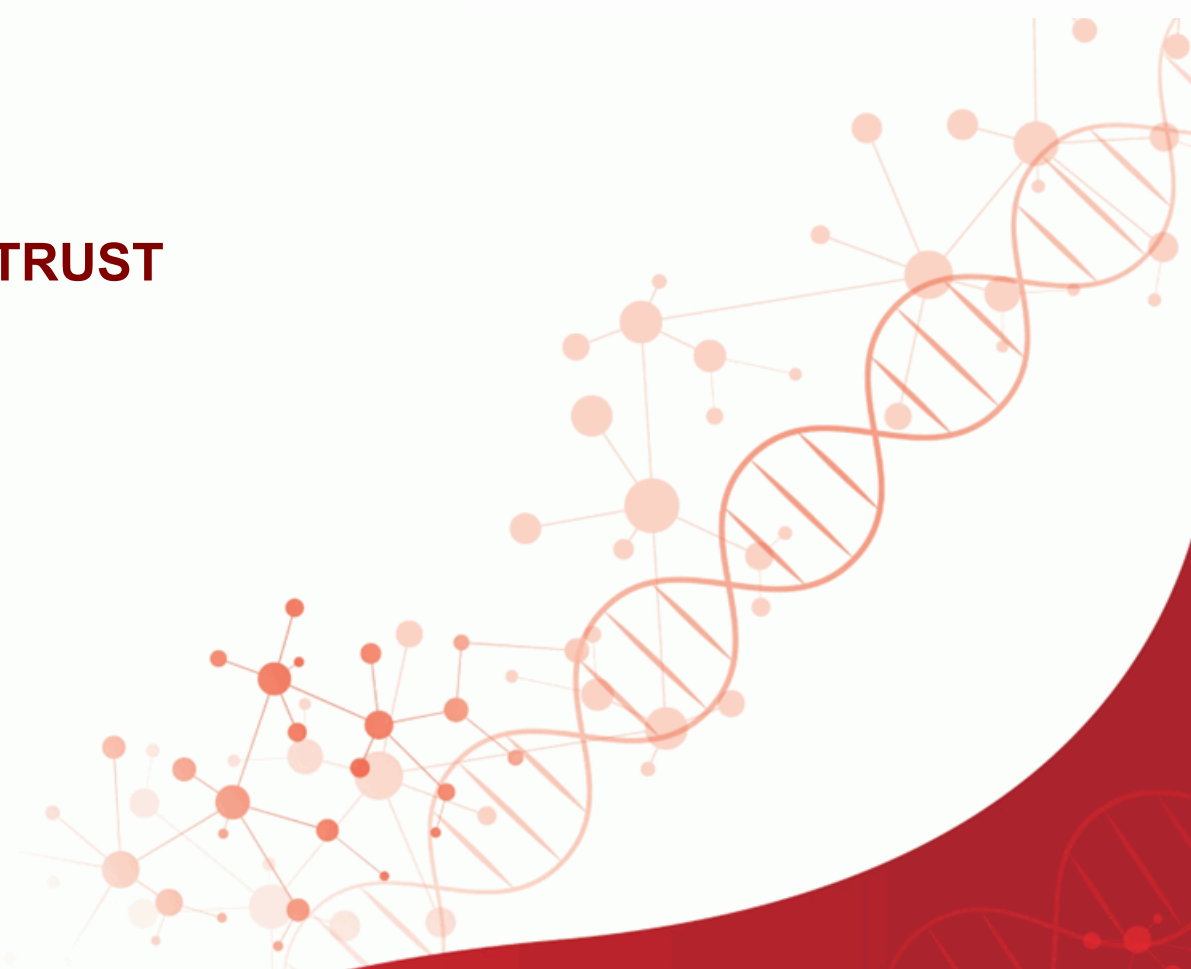
September 2026



ANDREW MASTERSON FAMILY TRUST

Herd Number: 552145

E-mail: colette@milagro.co.za



EBVs, EBVi's and GEBVs

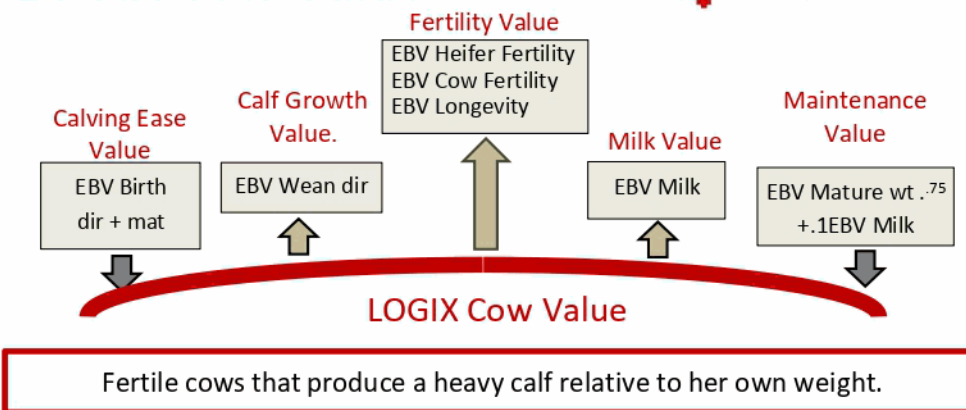
EBVi (Breeding Value Index): Genetic potential relative to the average (100) of the live (active) animals in the breed. Roughly 50% of the animals have values between 90 and 110. Values above 100, depending on the trait, tend to be in the more favourable direction.

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

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

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

LOGIX Cow Value



Selection Values

LOGIX Cow Value



Selecting for:

- fertile,
- low maintenance,
- easy calving cows
- with heavy weaners

LOGIX Growth Value



Select for efficient growers on veld and in feedlot, as measured in Phase C and D Growth Tests.

LOGIX Production Value



80% LOGIX Cow Value +
20% LOGIX Growth Value

LOGIX Carcass Value



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

How to use the Cow Value

Selection values should be compatible with your selection goal.

AVERAGE ANIMALS

(NO GROWTH EXTREMES)

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

GROWERS

(GOOD ENVIRONMENT)

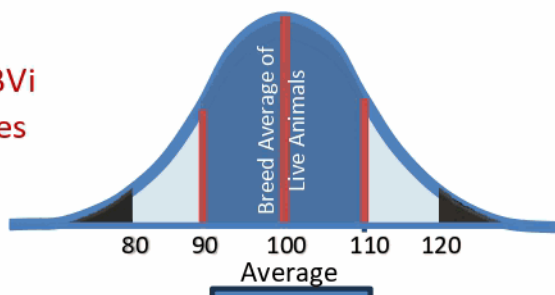
- WeanerCalf / Growth Value > 120
 - Cow Value and Fertility Value average to high
- Growers are usually heavier at birth (lower Calving Ease Value), and maturity (lower Maintenance Value).

LOW- MAINTENANCE ANIMALS

(HARSH ENVIRONMENT)

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

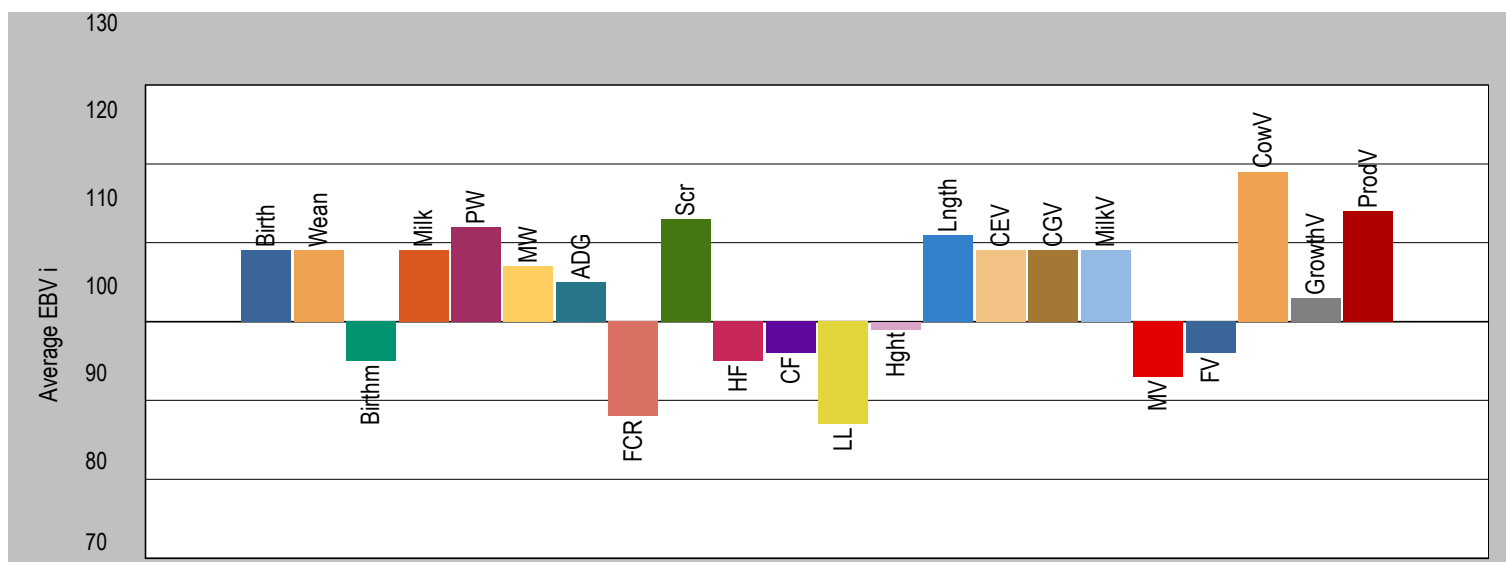
Interpretation of EBVi and Selection Values



Examples

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

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
Prewrite Growth	Birth Weight	-0.42	109	0.55
	Wean Weight	15.1	109	10.9
	Birth Mat.	0.04	95	-0.18
	Milk (Wn.Mat.)	3.8	109	0.9
Postwean Growth	Postwean Wt	26.2	112	18.2
	Mature Weight	20	107	13
	ADG	56	105	35
	FCR	-9	88	-19
Fertility	Scrotal Circumf.	12.8	113	6.1
	Heifer Fertility	5.3	95	1.7
	Cow Fertility	-1.3	96	-2.1
	Longevity	8.3	87	14.4
Frame	Height	2	99	3
	Length	22	111	9

Selection Value	Ave. Herd
Calving Ease	109
Calf Growth	109
Milk	109
Maintenance	93
Fertility	96
Cow Value	119
Growth Value	103
Production Value	114

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

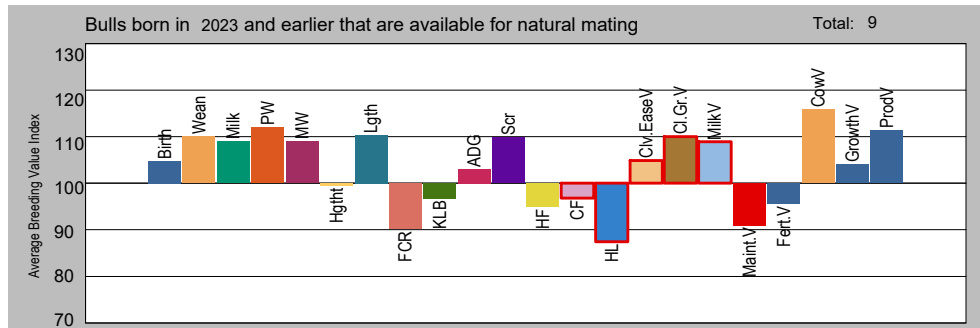
What does a sub-selection value above breed average (100) mean?:

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

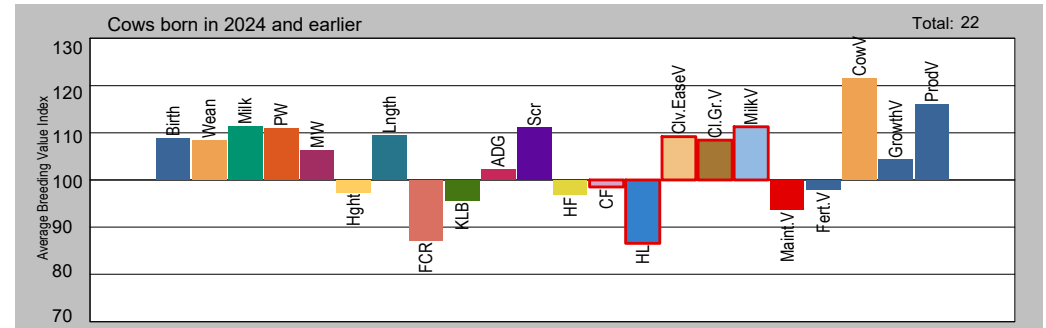
Genetic Windows

Animals available for breeding

Bulls on the farm

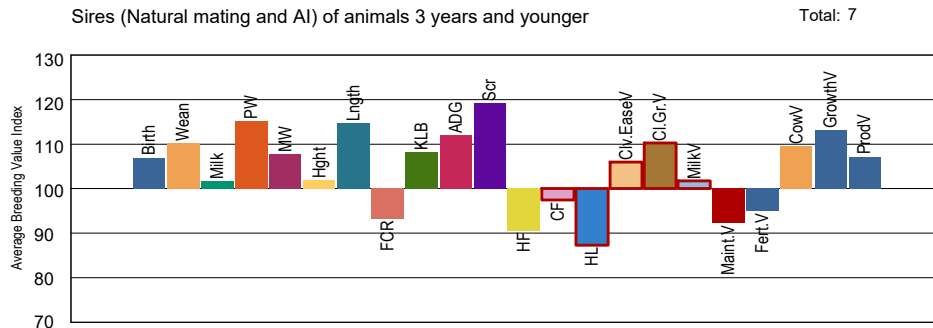


Cow Herd

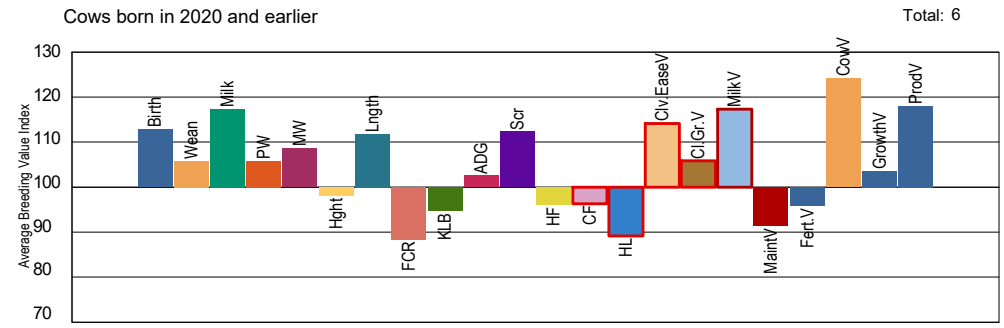


Results of previous selection decisions

Sires of young animals

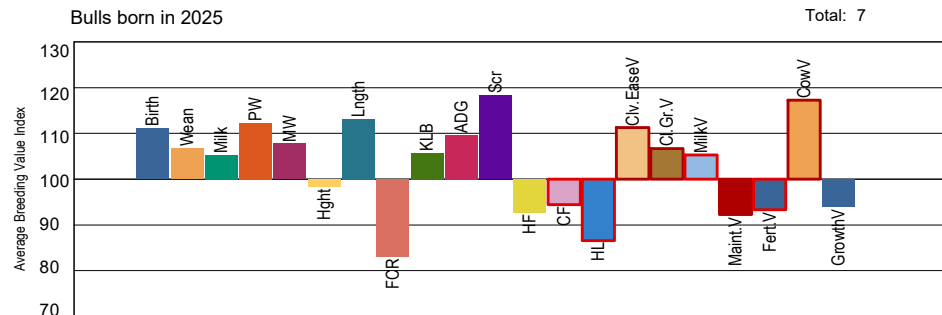


Cows older than 6 years

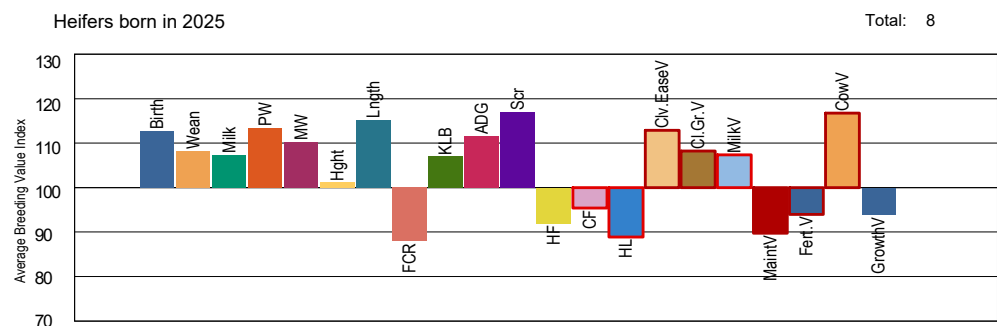


Selection possibilities

Bull calves



Heifer calves

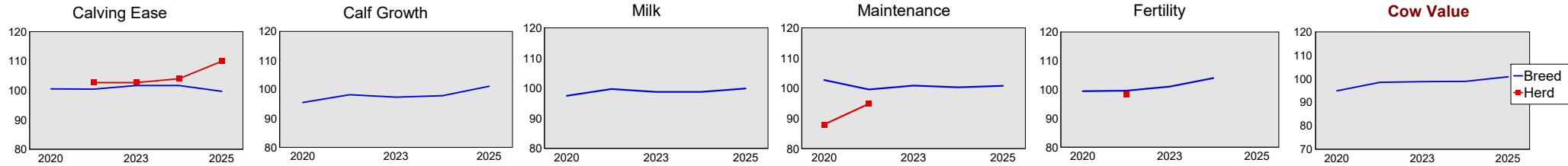


Summary of Cow Herd

			Selection Values (SV)								Calf Weight		Dam		Growth & Efficiency				Fertiity				Frame		
Birth Year	No. Cows	Average Cow Value	Calving Ease	Calf Grwth	Milk	Maint.	Fertility	Cow Value	Growth Value	Prod Value	Birth Weight	Wean Weight	Birth Mat.	Milk (Wn.Mat)	Postwn Weight	Mature Weight	ADG	Kleiber	Scrotal Circumf.	Heifer Fertility	Cow Fertility	Longevity	Height	Length	
Cows in Breed Average:			100	99	100	101	100	100	99	99	100	99	100	100	100	99	99	99	99	99	100	100	100	99	99
2020	6	★★★★☆	114	106	117	91	96	124	104	118	113	106	100	117	106	109	103	95	112	96	96	89	98	112	
2022	15	★★★★☆	107	110	108	95	99	120	105	115	107	110	93	108	114	105	102	96	111	97	100	86	97	109	
2024	1		114	96	118		94				113	96	98	118	97		97	92	104	100	93	86	95	104	
2025	8	★★★★	113	108	107	90	94	117	94		113	108	94	107	113	110	112	107	117	92	95	89	101	115	
Cows in Herd Average:			112	105	113	92	96	120	101	117	112	105	96	113	108	108	104	98	111	96	96	88	98	110	

Genetic Trends for On-Farm Traits

The graphs show the genetic gain of the herd relative to the breed. Only data of animals with measurements are included.



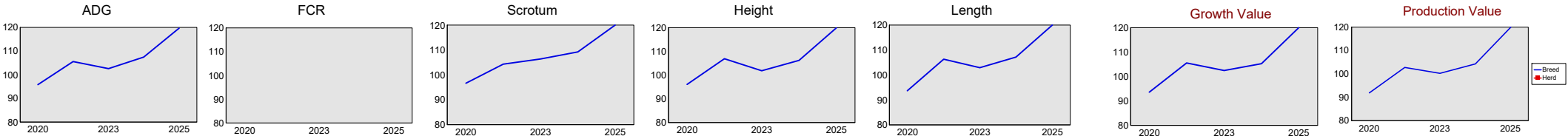
Herd

Birth Year	Calving Ease				Calf Growth			Milk		Maintenance					Fertility						Cow Value	
	Birth Weight		Mat	Calv. Ease	Weaning Weight		Calf Growth	Milk (Wn.Mat.)		Postwean Weight		Mature Weight		Maintenance	Heifer Fert.		Cow Fert.		Longevity			Fertility
	Number	Dir EBV			Number	EBV		Number	EBV	Number	EBV	Number	EBV		Number	EBV	Number	EBV	Number	EBV		
2020										10	25.7			88					8	11.0		
2022	3	0.33	-0.23	103						21	23.9			95	9	3.6			2	1.1	98	
2023	3	0.34	-0.28	103																		
2024	2	0.20	-0.30	104																		
2025	12	-0.54	0.13	110																		

Breed

Birth Year	Calving Ease				Calf Growth			Milk			Maintenance					Fertility						Cow Value	
	Birth Weight		Mat EBV	Calv. Ease	Weaning Weight		Calf Growth	Milk (Wn.Mat.)		Postwean Weight		Mature Weight		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			Number
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		
2020																	
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	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
	EBV Acc																										Dam ID	6	11	
241K	7328	484P	118	122	100		97			135	119	122	87	100	133		146		144	85	101	90	126	142	38	10				4
SVY HISTORIC 241K			84	71	28		14			30	-1.55	21.1	0.40	0.8	40.2		212		28.5	12.2	-2.2	9.8	22	56						
			91	71							91	71	25	28	31		52		61	20	8	38	62	59						
417PCHL	M760665	1528PCHL	111	117	122	84	92	135	118	129	111	117	92	122	127	116	119		115	93	93	91	98	125	12	10	6	11		5
CCC WC RESOURCE 417P			84	77	62	6	39	47	36	45	-0.68	19.0	0.17	7.6	36.1	29	109		13.6	6.7	-0.7	10.1	1	37						
			86	77				86	77		86	77	68	62	50	6	63		70	54	24	58	72	69						
7328	417PCHL	4035P	122	110	108	96	85	131	109	124	122	110	90	108	116	104	113		116	89	86	92	99	115				2	2	
WC UNCHARTED 7328P			72	67	48	8	28	38	29	36	-1.92	15.6	0.27	3.4	28.7	17	87		14.1	9.4	0.5	10.7	2	26						
			74	67				74	67		74	67	50	48	38	8	52		57	40	16	46	58	57						
939G	E108	3517PLD	111	100	113		99				109	100	104	113	102		104		106	93	101	83	102	105	1					
NGC YELLOWSTONE 939G ET			37	22	20		10				-0.47	11.2	-0.34	5.0	19.7		52		9.1	6.4	-2.2	6.2	4	15						
			39	22				39	22		39	22	16	20	20		7		8	13	6	40	9	8						
ACM 200003	E108	GCC 2A	81	139	108	74	99	121	126	120	80	139	111	108	134	126	129	120	133	81	105	91	123	133	28	20				
TANK 2003E			92	90	82	81	82	84	81	83	2.77	29.1	-0.66	3.5	40.9	39	147	-35	23.2	15.2	-3.0	10.3	19	45						
			93	90				93	90		93	90	82	82	78	81	81	81	81	82	81	84	81	81						
ACM 200008	417PCHL	SVY 409B	108	116	112	85	96	126	112	121	107	116	95	112	120	115	112	100	117	87	99	101	106	120	2					
THEO 2008E			86	83	82	80	81	82	81	82	-0.28	18.5	0.06	4.5	31.8	28	80	-19	15.0	10.7	-1.9	14.9	7	31						
			86	83				86	83		86	83	83	82	50	80	82	80	82	82	80	83	82	82						
ACM 220019	APC 180016	ACM 200005	113	93	97	94	84	100	92	96	113	93	93	97	97	106	87	74	93	91	85	85	89	99	2					
VERSTAPPEN 2219			84	81	80	78	78	79	78	79	-0.89	7.8	0.16	0.0	15.9	19	-15	2	2.8	8.1	0.7	7.4	-5	8						
			84	81				84	81		84	81	80	80	60	78	78	78	79	79	78	81	79	79						
ACM 220028	ACM 200008	ACM 200002	103	113	113	86	94	119	117	116	102	113	105	113	112	114	114	100	121	79	100	98	107	121	4					
VETTEL 2228			84	78	78	77	78	78	77	78	0.36	16.8	-0.41	4.9	26.4	27	91	-19	17.0	16.1	-2.1	13.3	8	32						
			85	78				85	78		85	78	78	78	48	77	77	77	77	78	77	79	77	77						
APC 180016	0332	WDC 120005	110	91	71	93	86	79	89	80	111	91	82	71	94	107	89	81	90	84	88	71	92	94	48	34	2	3		
APC 180016			91	91	67	42	39	59	28	53	-0.69	6.9	0.61	-8.0	14.1	20	-8	-3	1.1	12.6	0.1	0.6	-3	3						
			94	91				94	91		94	91	64	67	76	42	35	20	37	48	30	69	38	37						
E108	B65P	C1587CHL	106	111	113		98				104	111	109	113	112		115		117	86	103	79	110	116			1	2		
DC/CRJ TANK E108 P			51	44	31		20				0.08	15.8	-0.56	5.0	26.1		92		15.0	11.8	-2.6	4.5	10	27						
			53	44				53	44		53	44	33	31	40		14		17	26	13	44	17	16						
LEC 190119	EM704588	ACA 100027	96	120	89	93	111	109	114	108	99	120	73	89	123	107	100	82	111	106	111	86	88	101	111	71	3	3		2
HAYMAKER			97	96	92	89	90	92	89	91	0.63	20.1	1.02	-2.5	33.7	20	35	-4	11.5	-2.3	-4.1	7.9	-6	11						
			98	96				98	96		98	96	92	92	70	89	89	88	90	91	88	92	90	90						

Sires

Bull				Selection Values								Calf		Dam		Growth				Fertility				Frame		Measured Progeny				
ID	Index EBV Acc	Sire ID	Dam ID	Calv.	Calf	Milk	Maint.	Fertility	Cow	Growth	Prod	Birth	Wean	Birth	Wean	Post wn	Mature	ADG	FCR	Scrotal	Heifer	Cow	Long-evi	Height	Length	Birth	Wean	Dgt/Calvs.	Grwth	
				Ease	Grwth	Value	Value	Value	Value	Value	Value	Value	Dir	Dir	Mat.	Mat.	wt	weight				Fertility	Fertility	ty						
LEO 7G				115		113		114				114		98	113	100					118		74			1				
53D												-0.99		-0.10	5.0	18.4					-10.6		1.9							
CEDARLEA GALVESTON 7G				32		20		12				33		18	20	32					22		39							
M880381				120	85	92	114	81	99	95	96	127	85	85	92	106	86	104	90	126	99	79	78	78	102	76	53	6	14	7
M760665												-2.56	4.0	0.49	-1.5	22.3	-1	52	-10	19.4	2.7	1.9	3.8	-13	12					
F1140204				95	94	86	81	82	86	83	85	96	94	86	86	82	81	85	80	86	82	81	88	87	86					
LT AFFINITY 6221 PLD																														

Breeding Values and Accuracies: Bulls

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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	
ACM 220003	LEO 7G	118	94	108		101					117	97		94	108	103		103	92		101	106	100	81	93	98
94878808	ACM 200001	32	22	18		14					-1.36	-0.03		8.1	3.5	35		20.1	6		6.8	-2.3	-2.0	5.3	-2	7
VETTEL 2203E											33	26		22	18	14		26	16		18	20	7	32	19	18
ACM 220004	LEO 7G	106	117	97	103	101	122	93	114		106	95		97	117	97	112	122	93	90	99	108	99	78	93	97
94878840	ACM 200001	78	77	77	76	76	76	76	76		-0.16	0.04		10	19.0	0.0	54	32.9	7	-10	5.6	-3.7	-1.9	3.7	-2	6
VEGAS 2204E											78	77		76	77	77	77	44	76	76	76	76	76	78	76	76
ACM 220016	APC 180016	109	95	108	94	84	105	93	101		110	85		106	95	108	101	98	92	83	98	91	84	73	91	101
94878881	ACM 200005	83	82	80	79	79	80	78	80		-0.62	0.50		19	8.7	3.3	31	16.7	3	-5	5.3	8.0	0.8	1.5	-4	10
VALENCIA 2216E											83	81		79	82	80	80	61	79	78	79	80	78	81	79	79
ACM 220019	APC 180016	113	93	97	94	84	100	92	96		113	93		106	93	97	91	97	87	74	93	91	85	85	89	99
94878980	ACM 200005	84	81	80	78	78	79	78	79		-0.89	0.16		19	7.8	0.0	11	15.9	-15	2	2.8	8.1	0.7	7.4	-5	8
VERSTAPPEN 2219											84	80		78	81	80	80	60	78	78	79	79	78	81	79	79
ACM 220021	LEC 190119	109	109	104	91	109	118	112	115		109	87		109	109	104	107	111	104	90	114	106	109	89	96	110
94878766	ACM 200006	57	53	39	12	26	33	20	30		-0.50	0.40		22	15.1	2.2	44	25.5	52	-11	13.1	-2.5	-3.8	9.3	0	20
VERSAILLES 2221E											58	46		12	53	39	35	46	31	6	36	39	14	42	36	35
ACM 220027	ACM 200003	98	125	123	78	90	131	117	126		98	103		122	125	123	128	125	117	104	120	86	93	86	108	124
94883592	ACM 200007	84	82	79	78	78	79	78	79		0.83	-0.31		35	22.7	7.8	87	34.7	100	-22	16.3	11.2	-0.8	7.7	8	36
VIRTUE 2227											85	80		78	82	79	80	58	78	78	79	79	78	80	79	79
ACM 220028	ACM 200008	103	113	113	86	94	119	117	116		102	105		114	113	113	115	112	114	100	121	79	100	98	107	121
94883600	ACM 200002	84	78	78	77	78	78	77	78		0.36	-0.41		27	16.8	4.9	60	26.4	91	-19	17.0	16.1	-2.1	13.3	8	32
VETTEL 2228											85	78		77	78	78	78	48	77	77	77	78	77	79	77	77
ACM 230001	ACM 200003	94	118	116		94					94	102			118	116	121	116	109		118	93	95	98	105	118
95208088	ACM 200005	65	47	26		16					1.27	-0.27			19.5	5.9	73	28.7	71		15.4	6.4	-1.2	13.3	6	29
WAR HORSE 2301											69	33			47	26	25	42	19		22	24	9	34	22	21
ACM 230002	ACM 200003	94	126	114		103					94	105			126	114	123	124	119		125	94	106	99	113	125
95208096	ACM 200006	65	47	25		16					1.27	-0.39			22.9	5.1	77	34.5	108		18.9	6.2	-3.2	14.0	12	37
WOLVERINE 2302											69	31			47	25	25	42	19		22	23	8	33	22	22
ACM 240001	939G	113	104	121		95					111	100			104	121	114	108	101		106	94	96	85	96	106
97058192	ACM 200007	37	27	22		17					-0.75	-0.18			13.0	7.3	60	23.7	39		9.3	6.2	-1.4	7.4	0	17
ARIZONA 2401											38	32			27	22	17	25	19		22	25	9	31	22	21
ACM 240005	ACM 200003	99	123	113		103					98	105			123	113	121	122	119		125	94	106	92	113	125
99606915	ACM 200006	63	47	25		16					0.78	-0.38			21.7	5.0	73	33.0	108		18.9	6.2	-3.2	10.8	12	37
ADVENTURE 2405											67	31			47	25	25	42	19		22	23	8	32	22	22
ACM 240006	LEC 190119	99	116	101	90	104	113				99	93		110	116	101	109	115	109	95	117	91	107	85	99	111
99606923	ACM 200002	53	50	35	12	25	31				0.64	0.13		23	18.3	1.1	48	28.4	69	-15	14.8	8.1	-3.4	7.1	2	22
ASIA 2406											54	42		12	50	35	32	38	25	6	29	37	13	40	30	29

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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	
ACM 250001 99592875 BULLET 2501		939G ACM 200005	108 62	96 27	118 22		94 16				107 -0.23 65	98 -0.10 31		96 9.1 27	118 6.5 22	108 46 17		98 16.7 24	97 24 19		104 8.3 22	100 2.0 24	93 -0.8 9	86 7.9 31	95 -1 22	104 14 21
ACM 250002 99592883 BAXTER 2502	3	M880381 ACM 200001	125 54	94 51	98 38		85 20		94 20		124 -2.15 55	90 0.27 41		94 8.2 51	98 0.2 38	96 21 30		106 22.0 46	97 22 35		115 14.0 40	96 4.3 26	83 1.0 14	82 6.0 41	84 -9 41	101 11 39
ACM 250005 99592933 BENJAMIN 2505	3	M880381 ACM 220025	114 69	93 53	91 39	106 10	84 24	99 33	94 22	97 31	114 -1.08 72	84 0.52 42	94 7 10	93 7.8 53	91 -1.7 39	90 9 34		104 20.8 48	97 23 34	83 -5 5	113 12.6 38	103 -0.6 33	81 1.5 16	76 3.0 41	84 -9 39	101 11 37
ACM 250008 99592958 BISMARCK 2508	4	241K ACM 220015	113 67	121 44	99 25	86 6	105 18	128 25			113 -0.96 71	86 0.43 30	114 27 6	121 20.8 44	99 0.4 25	106 42 25		126 35.9 28	129 147 30		131 22.2 35	98 2.8 29	106 -3.3 8	87 8.3 29	112 12 36	127 39 34
ACM 250009 99592941 BONGI 2509	4	ACM 220028 ACM 220024	104 64	112 30	114 23	88 6	97 20	121 22			104 0.08 68	93 0.14 32	112 25 6	112 16.5 30	114 5.3 23	116 62 20		114 27.9 28	108 65 18		117 15.0 21	90 8.7 30	99 -2.0 9	91 10.3 28	99 2 21	115 25 20
ACM 250013 99592503 BENEDICT	4	ACM 220028 ACM 220018	102 64	116 30	111 23	89 6	96 20	121 22			103 0.26 68	95 0.07 32	111 24 6	116 18.2 30	111 4.2 23	116 63 20		118 30.2 28	106 60 18		115 13.7 21	87 10.8 30	100 -2.0 9	93 10.9 28	98 1 21	113 24 20
ACM 250015 99640401 BECKHAM 2515	4	241K ACM 220005	113 47	115 38	106 18		92 16				113 -0.88 50	96 0.00 20		115 17.9 38	106 2.8 18	108 45 19		120 31.5 26	134 169 28		133 22.8 32	75 18.9 26	99 -1.8 6	91 10.2 26	117 15 33	131 44 31

Breeding Values and Accuracies: Cows

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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																										
ACM 200001 90934779 STARSTRUCK 2001E		7328 SVY 601D	121 84	103 82	103 81	97 80	88 80	121 81	93 80	114 81	120 -1.73 84	95 0.04 83	103 16 80	103 12.4 82	103 1.9 81	104 38 81	105 21.7 48	89 -7 81	78 -1 80	105 8.5 81	94 6.0 81	88 0.1 80	87 8.3 82	90 -5 81	100 10 81	
ACM 200002 90934787 EVETTA 2002E		E108 GCC 2A	101 81	112 78	113 77	86 76	96 77	117 77	117 76	115 77	99 0.64 81	113 -0.75 78	114 26 76	112 16.5 78	113 4.8 77	114 59 77	107 23.1 54	118 104 76	107 -25 76	124 18.1 76	76 18.4 78	103 -2.7 76	83 6.4 79	111 10 76	121 32 76	
ACM 200004 90999095 STARSTRUCK 2004E		417PCHL SVY 409B	116 64	111 47	117 38		103 23				114 -1.04 64	103 -0.32 61		111 16.1 47	117 5.9 38	113 56 29	105 21.4 39	112 82 38		118 15.2 42	100 1.5 32	103 -2.6 14	94 11.7 45	106 7 43	120 31 42	
ACM 200005 90999103 STARSTRUCK 2005E		417PCHL SVY 601D	118 86	92 84	123 83	96 81	89 82	119 83	97 82	112 83	117 -1.40 86	93 0.15 85	104 17 81	92 7.1 84	123 7.9 83	110 51 83	92 13.0 50	90 -4 82	75 2 81	103 7.5 83	106 -2.5 83	86 0.6 81	90 9.6 84	88 -6 83	104 13 83	
ACM 200006 90999111 STARSTRUCK 2006E		417PCHL SVY 409B	114 85	109 83	119 81	89 79	108 81	130 81	110 80	124 81	113 -0.91 85	98 -0.11 84	111 24 79	109 15.2 83	119 6.6 81	117 66 81	112 26.1 50	109 70 81	97 -17 79	117 14.6 82	106 -2.8 82	107 -3.4 80	93 11.2 82	104 5 82	118 29 82	
ACM 200007 90999129 STARSTRUCK 2007E		417PCHL SVY 601D	115 87	108 85	129 84	89 82	91 84	134 84	101 83	125 84	114 -1.02 87	97 -0.02 86	111 24 82	108 14.8 85	129 9.6 84	124 80 84	114 27.6 52	97 25 84	85 -6 82	107 9.6 84	94 5.9 85	91 -0.5 83	88 8.7 85	89 -5 84	108 18 84	
ACM 220001 94878865 STARSTRUCK 2201E		LEO 7G ACM 200001	118 32	94 22	108 18		101 14				117 -1.36 33	95 0.04 26		94 8.1 22	108 3.5 18	107 45 14	111 25.6 35	92 6 16		101 6.8 18	106 -2.3 20	100 -2.0 7	81 5.3 32	93 -2 19	98 7 18	
ACM 220005 94878832 EVETTA 2205E		ACM 200008 ACM 200002	108 39	108 28	113 22		88 28				107 -0.21 40	105 -0.41 31		108 14.8 28	113 4.8 22	111 53 17	107 22.8 40	115 92 19		121 16.6 22	66 25.7 48	96 -1.4 8	92 10.7 35	108 9 22	120 32 22	
ACM 220006 94878873 EVETTA 2206E		ACM 200008 ACM 200002	109 39	107 28	113 22		96 18				107 -0.27 40	105 -0.42 31		107 14.4 28	113 4.8 22	111 52 17	106 22.1 40	115 92 19		121 16.6 22	82 14.6 27	101 -2.3 8	92 10.5 33	108 9 22	120 32 22	
ACM 220007 94878972 STARSTRUCK 2207E		LEO 7G ACM 200001	112 78	116 77	103 76	101 76	105 76	128 76	99 76	120 76	111 -0.68 78	98 -0.08 77	99 11 76	116 18.2 77	103 1.8 76	114 60 76	119 30.8 44	99 31 76	93 -13 76	108 10.2 76	105 -2.1 76	104 -2.8 76	81 5.4 78	98 1 76	105 15 76	
ACM 220008 94878824 STARSTRUCK 2208E		LEO 7G ACM 200005	116 45	88 24	118 21		108 28				115 -1.20 45	96 -0.01 44		88 5.4 24	118 6.5 21	103 36 15	91 12.2 36	93 8 19		100 6.3 21	123 -14.0 47	102 -2.4 8	84 6.7 35	92 -3 22	100 9 21	
ACM 220011 94878899 STARSTRUCK 2211E		LEC 190119 ACM 200007	104 85	115 83	109 81	96 79	89 81	121 81	107 80	116 81	105 -0.01 85	86 0.45 83	104 17 79	115 18.0 83	109 3.6 81	117 65 81	120 31.4 56	98 27 80	85 -7 79	106 9.3 81	93 6.3 83	90 -0.2 79	83 6.2 82	88 -6 81	103 13 81	

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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																										
ACM 220012		ACM 200008	103	116	112		96				102	103		116	112	116		116	115		121	82	101	92	108	120
94878907		ACM 200002	39	28	22		18				0.33	-0.33		18.6	4.6	64		29.3	92		16.6	14.6	-2.3	10.5	9	32
EVETTA 2212E											40	31		28	22	17		40	19		22	27	8	33	22	22
ACM 220013		ACM 200008	104	117	111		93				103	105		117	111	116		117	115		121	75	99	92	108	120
94878915		ACM 200002	48	28	22		28				0.26	-0.42		18.9	4.4	64		29.8	92		16.6	19.0	-2.0	10.7	9	32
EVETTA 2213E											48	44		28	22	17		40	19		22	48	8	35	22	22
ACM 220014		LEO 7G	106	112	114	104	109	127	96	118	106	93	96	112	114	121		115	94	88	103	110	107	77	91	100
94878923		ACM 200007	77	76	76	75	76	76	76	76	-0.16	0.13	9	16.4	5.0	73		28.0	14	-9	7.7	-5.0	-3.5	3.3	-4	10
STARSTRUCK 2214E											77	77	75	76	76	76		44	75	75	76	76	75	77	76	76
ACM 220015		LEC 190119	103	121	97	91	114	121	113	117	105	86	109	121	97	110		122	103	85	118	112	112	84	98	112
94878931	3	ACM 200006	84	83	81	79	80	81	80	81	0.04	0.45	22	20.5	0.1	51		32.8	49	-7	15.3	-6.7	-4.3	6.9	1	22
STARSTRUCK 2215E											84	83	79	83	81	81		55	80	79	80	82	79	82	80	80
ACM 220018		LEC 190119	103	118	108	91	98	123	107	118	104	84	109	118	108	117		124	99	83	109	95	100	88	89	105
94878964		ACM 200007	61	53	40	12	35	37	20	34	0.09	0.55	22	19.4	3.5	65		34.0	30	-5	10.5	5.5	-2.0	8.6	-5	15
STARSTRUCK 2218E											62	55	12	53	40	35		46	31	6	36	55	15	45	36	35
ACM 220024		LEC 190119	102	113	116	89	99	121	110	117	104	81	111	113	116	118		118	101	85	114	101	99	85	90	108
94878790		ACM 200007	84	83	81	79	81	81	80	81	0.14	0.69	23	17.1	5.7	68		30.5	40	-7	13.1	1.3	-1.9	7.3	-5	18
STARSTRUCK 2224E											84	83	79	83	81	81		56	80	79	80	83	79	82	81	80
ACM 220025		APC 180016	111	96	89	98	87	97	93	94	112	83	102	96	89	88		96	89	76	99	108	83	74	90	101
94878774	1	ACM 200005	84	82	80	79	80	80	78	80	-0.77	0.58	15	8.9	-2.4	5		15.6	-5	1	5.7	-3.8	1.1	2.3	-5	10
STARSTRUCK 2225E											84	82	79	82	80	80		61	79	78	79	81	79	81	79	79
ACM 220026		LEC 190119	97	125	106	90	108	125	114	121	99	83	110	125	106	120		133	107	92	114	104	108	86	98	111
94878782	3	ACM 200006	84	82	80	78	80	80	79	80	0.63	0.59	22	22.7	2.8	71		40.2	61	-12	13.3	-1.2	-3.6	7.8	1	21
STARSTRUCK 2226E											84	82	78	82	80	80		54	79	78	80	82	78	81	80	80
ACM 220029		ACM 200008	107	109	109	94	94	118	103	113	107	95	106	109	109	112		112	102	92	109	92	95	93	100	111
94883618	8	ACM 200001	84	78	78	76	76	77	77	77	-0.18	0.04	19	15.3	3.6	54		26.0	43	-13	10.6	7.0	-1.2	11.2	3	21
STARSTRUCK 2229											84	80	76	78	78	77		44	77	76	78	77	76	79	78	78
ACM 240003		939G	114	96	118		94				113	98		96	118	108		97	97		104	100	93	86	95	104
97058218		ACM 200005	37	27	22		16				-0.94	-0.09		9.1	6.5	45		16.4	24		8.3	2.0	-0.8	7.9	-1	14
STARSTRUCK 2403											38	31		27	22	17		24	19		22	24	9	31	22	21
ACM 250003	3	M880381	125	94	98		85		94		124	90		94	98	96		106	97		115	96	83	82	84	101
99592891		ACM 200001	54	51	38		20		20		-2.15	0.27		8.2	0.2	21		22.0	22		14.0	4.3	1.0	6.0	-9	11
STARSTRUCK 2503											55	41		51	38	30		46	35		40	26	14	41	41	39
ACM 250004	4	241K	117	105	109		102				117	92		105	109	104		112	124		123	104	101	87	109	121
99592909		ACM 220008	65	38	17		16				-1.35	0.20		13.3	3.6	37		26.3	127		17.7	-0.9	-2.3	8.3	9	32
STARSTRUCK 2504											69	26		38	17	19		24	28		32	26	5	26	33	31

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	ID Number Name	% Inbreeding	Sire ID Dam ID	Calv. Ease V	Calf Growth V	Milk V	Maint. V	Fertility V	Cow Value	Growth Value	Prod. Value	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	
ACM 250006 99592917 STARSTRUCK 2506	241K ACM 220029	10		115 67	116 39	104 19		95 12				115 -1.09 72	91 0.23 26		116 18.2 39	104 2.2 19	107 43 20		121 32.4 22	128 144 29		127 19.8 33	89 9.6 17	98 -1.7 6	92 10.5 27	113 12 34	127 38 33
ACM 250007 99592925 STARSTRUCK 2507	241K ACM 200007	7		119 68	115 43	114 25		94 18				119 -1.57 72	92 0.19 33		115 18.0 43	114 5.2 25	113 56 24		122 33.0 27	126 135 32		126 19.3 37	89 9.1 26	96 -1.4 9	89 9.2 31	108 8 38	125 37 36
ACM 250010 99640377 STARSTRUCK 2510	ACM 220019 ACM 200004	7		112 65	100 35	109 27	90 10	94 17	113 24			111 -0.68 68	98 -0.09 38	110 23 10	100 11.1 35	109 3.5 27	104 37 24		103 19.9 31	100 33 23	87 -9 5	106 9.0 25	96 4.8 23	94 -1.0 11	90 9.6 32	97 1 26	110 20 25
ACM 250011 99592487 STARSTRUCK 2511	ACM 220028 ACM 220026	7		98 64	120 30	110 23	88 6	101 20	122 22			99 0.71 68	94 0.08 31	112 25 6	120 20.3 30	110 3.9 23	118 68 20		123 33.9 28	110 76 18		118 15.1 21	92 7.5 30	104 -2.8 9	92 10.6 28	102 4 21	116 27 21
ACM 250012 99592495 STARSTRUCK 2512	ACM 220028 ACM 220011	4		105 64	113 30	111 23	91 6	92 20	120 22			105 0.03 68	96 0.02 32	109 22 6	113 17.1 30	111 4.2 23	115 61 20		115 28.4 28	106 59 18		114 13.1 21	86 11.2 30	95 -1.1 9	90 9.7 28	97 1 21	112 23 20
ACM 250014 99592511 EVETTA 2514	ACM 220019 ACM 220013	4		112 62	103 29	104 23	90 10	89 20	112 23			111 -0.65 66	99 -0.12 31	110 23 10	103 12.6 29	104 2.1 23	103 35 21		105 21.8 31	101 38 16	89 -10 5	107 9.7 18	83 13.6 29	92 -0.6 10	89 9.1 29	99 2 18	110 20 18

Selection List on Cow Value

Bulls 2 years and older

ID	Name	Sire ID	Dam ID	% Inbreeding	Horned / Polled	Myostatin				Calving Ease Value	Calf Growth Value	Milk Value	Maint. Value	Fertility Value	Cow Value	Growth Value	Prod Value										
Sorted on ID						Q204X	nt821	F94L	Genomic tested	Acc	Acc	Acc	Acc	Acc	Acc	Acc	Acc										
1	ACM 220027	VIRTUE 2227	ACM 200003	ACM 200007	0.0	PcH	0	0	0		98	84	125	82	123	79	78	78	90	78	131	79	117	78	126	79	
1	ACM 220004	VEGAS 2204E	LEO 7G	ACM 200001	0.0	PcH	0	0	0		106	78	117	77	97	77	103	76	101	76	122	76	93	76	114	76	
1	ACM 220021	VERSAILLES 2221E	LEC 190119	ACM 200006	3.3						109	57	109	53	104	39	91	12	109	26	118	33	112	20	115	30	
2	ACM 220028	VETTEL 2228	ACM 200008	ACM 200002	0.0	HH	0	0	0		103	84	113	78	113	78	86	77	94	78	119	78	117	77	116	78	
3	ACM 240006	ASIA 2406	LEC 190119	ACM 200002	0.0						99	53	116	50	101	35	90	12	104	25	113	31					
1	ACM 220016	VALENCIA 2216E	APC 180016	ACM 200005	0.8	HH	0	0	0		109	83	95	82	108	80	94	79	84	79	105	80	93	78	101	80	
2	ACM 220019	VERSTAPPEN 2219	APC 180016	ACM 200005	0.8	PcPc	0	0	0		113	84	93	81	97	80	94	78	84	78	100	79	92	78	96	79	

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	ACM 200006	STARSTRUCK 2006E	417PCHL	SVY 409B	0.0	PcH	0	0	0		114 85	109 83	119 81	89 79	108 81	130 81	110 80	124 81
2	ACM 200007	STARSTRUCK 2007E	417PCHL	SVY 601D	0.0	HH	0	0	0		115 87	108 85	129 84	89 82	91 84	134 84	101 83	125 84
1	ACM 200001	STARSTRUCK 2001E	7328	SVY 601D	0.0	HH	0	0	0		121 84	103 82	103 81	97 80	88 80	121 81	93 80	114 81
2	ACM 220007	STARSTRUCK 2207E	LEO 7G	ACM 200001	0.0		0	0	0		112 78	116 77	103 76	101 76	105 76	128 76	99 76	120 76
3	ACM 220011	STARSTRUCK 2211E	LEC 190119	ACM 200007	0.0	HH	0	0	0		104 85	115 83	109 81	96 79	89 81	121 81	107 80	116 81
4	ACM 220014	STARSTRUCK 2214E	LEO 7G	ACM 200007	0.0	PcH	0	0	0		106 77	112 76	114 76	104 75	109 76	127 76	96 76	118 76
5	ACM 220015	STARSTRUCK 2215E	LEC 190119	ACM 200006	3.3	PcH	0	0	0		103 84	121 83	97 81	91 79	114 80	121 81	113 80	117 81
6	ACM 220018	STARSTRUCK 2218E	LEC 190119	ACM 200007	0.0						103 61	118 53	108 40	91 12	98 35	123 37	107 20	118 34
7	ACM 220024	STARSTRUCK 2224E	LEC 190119	ACM 200007	0.0	HH	0	0	0		102 84	113 83	116 81	89 79	99 81	121 81	110 80	117 81
8	ACM 220026	STARSTRUCK 2226E	LEC 190119	ACM 200006	3.3	HH	0	0	0		97 84	125 82	106 80	90 78	108 80	125 80	114 79	121 80
1	ACM 200002	EVETTA 2002E	E108	GCC 2A	0.0	HH	0	0	0		101 81	112 78	113 77	86 76	96 77	117 77	117 76	115 77
2	ACM 200005	STARSTRUCK 2005E	417PCHL	SVY 601D	0.0	PcH	0	0	0		118 86	92 84	123 83	96 81	89 82	119 83	97 82	112 83
3	ACM 220029	STARSTRUCK 2229	ACM 200008	ACM 200001	7.9	HH	0	0	0		107 84	109 78	109 78	94 76	94 76	118 77	103 77	113 77
1	ACM 220025	STARSTRUCK 2225E	APC 180016	ACM 200005	0.8	PcH	0	0	0		111 84	96 82	89 80	98 79	87 80	97 80	93 78	94 80

Selection List on Cow Value

Bull Calves 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	ACM 250008	BISMARCK 2508	241K	ACM 220015	3.9							113	67	121	44	99	25	86	6	105	18	128	25				
2	ACM 250009	BONGI 2509	ACM 220028	ACM 220024	4.3							104	64	112	30	114	23	88	6	97	20	121	22				
3	ACM 250013	BENEDICT	ACM 220028	ACM 220018	4.3							102	64	116	30	111	23	89	6	96	20	121	22				
												★★★☆☆															
1	ACM 250005	BENJAMIN 2505	M880381	ACM 220025	3.2							114	69	93	53	91	39	106	10	84	24	99	33	94	22	97	31

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	ACM 250011	STARSTRUCK 2511	ACM 220028	ACM 220026	7.1						9864	12030	11023	886	10120	12222			
2	ACM 250012	STARSTRUCK 2512	ACM 220028	ACM 220011	4.3						10564	11330	11123	916	9220	12022			
											★★★★☆								
1	ACM 250010	STARSTRUCK 2510	ACM 220019	ACM 200004	7.4						11265	10035	10927	9010	9417	11324			
2	ACM 250014	EVETTA 2514	ACM 220019	ACM 220013	3.7						11262	10329	10423	9010	8920	11223			

	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.

