

Angus

Genetic Evaluation

SA Stud Book

October 2024

Data extraction date: 20241017

Herd Number: 716666

BROADLANDS FARM (PTY) LTD
PO BOX 162
HUMANSDORP
6300



EBVs, EBVi's and Selection Values



Logix Cow Value

Selecting for:

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



Logix Growth Value

Selecting for efficient growers
on veld and feedlot



Logix Production Value

80% Logix Cow Value +
20% Logix Growth Value



Logix Genomics

- Identification
- Parentage
- Genomic Breeding Values
- Single gene testing

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. Note that a very high index is not always desirable. For certain traits, such as birth weight, average values are 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).

Blending of foreign EBVs/EPDs:

1. Sires: If the accuracies of local EBVs of a foreign sire are < 70%, his EBVs are placed on the same local percentile level as the percentile level in his country of origin. If the SA accuracy is for example 30%, then 30% of the SA value will be *blended* with 70% of the calculated foreign value. Where SA accuracy > 70%, values are based solely on SA data. (70% is roughly equivalent to about 30 measured progeny for a direct trait such as wean or 12 months and about 10 progeny weaned out of daughters of an imported sire for wean maternal).
2. Calves of foreign sires: EBVs of local progeny of foreign sires are also blended if the accuracy of the calf is between 45% and 60%. Mid-parent EBVs are calculated

for accuracies < 45% and if the accuracy is >60%, the breeding value is based solely on South African data.

Sub-values combine similar breeding values in a scientific manner to simplify the selection of animals. For example, HF (Heifer Fertility), CF (Cow Fertility) and Longevity 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.



CV: Cow Value

(Combination of EBVs based on measurements of cows and calves on the farm)

Selection Values	Calving Ease	Calf growth	Milk	Maintenance	Fertility
	Birth Weight: Calf's genetic potential for weight at birth	Wean weight: Calf's genetic potential for growth	Milk (wean maternal): Milk and mothering ability of cow	Mature weight : Heavier cows have higher maintenance requirements	Heifer Fertility: Age at 1 st calving
	Birth Mat: Cow's genetic ability to limit calf 's birth weight			0.1 x Milk: Higher milk increases maintenance requirements	Cow Fertility: ICP (inter-calving period) Longevity: Retention of family
>120 (Green)		Heavier weaner calf	More milk	Lower maintenance (smaller cow)	More fertile and/or good retention
80 - 120 (Grey)	Average birth weight	Average weaner calf	Average milk	Average maintenance (average cow size)	Average
< 80 (Red)	Heavy Birth Weights (More difficult calving)	Lighter weaner calf	Less milk	Higher maintenance (Heavier cow)	Less fertile and/or culled early

Breeding Values (EBVs)	Birth weight	Mat. birth weight	Weaning weight	Milk	Cow weight	Longevity	Heifer Fertility	Cow Fertility
Higher EBV	Heavier weight	Heavier weight	Heavier weight	More milk	Heavier weight	Family remains longer	Later calving	Longer ICP
Lower EBV	Lighter weight	Lower weight	Lighter weight	Less milk	Lighter weight	Family culled earlier	Earlier calving	Shorter ICP
Optimum EBV	Lower intermediate	Lower intermediate	Higher	Higher	Higher intermediate	Higher	Lower	Lower
Optimum EBVindex*	Higher intermediate	Higher intermediate	Higher	Higher	Higher intermediate	Higher	Higher	Higher

*EBV index above 100 is in a more favourable direction and better than breed average (100).

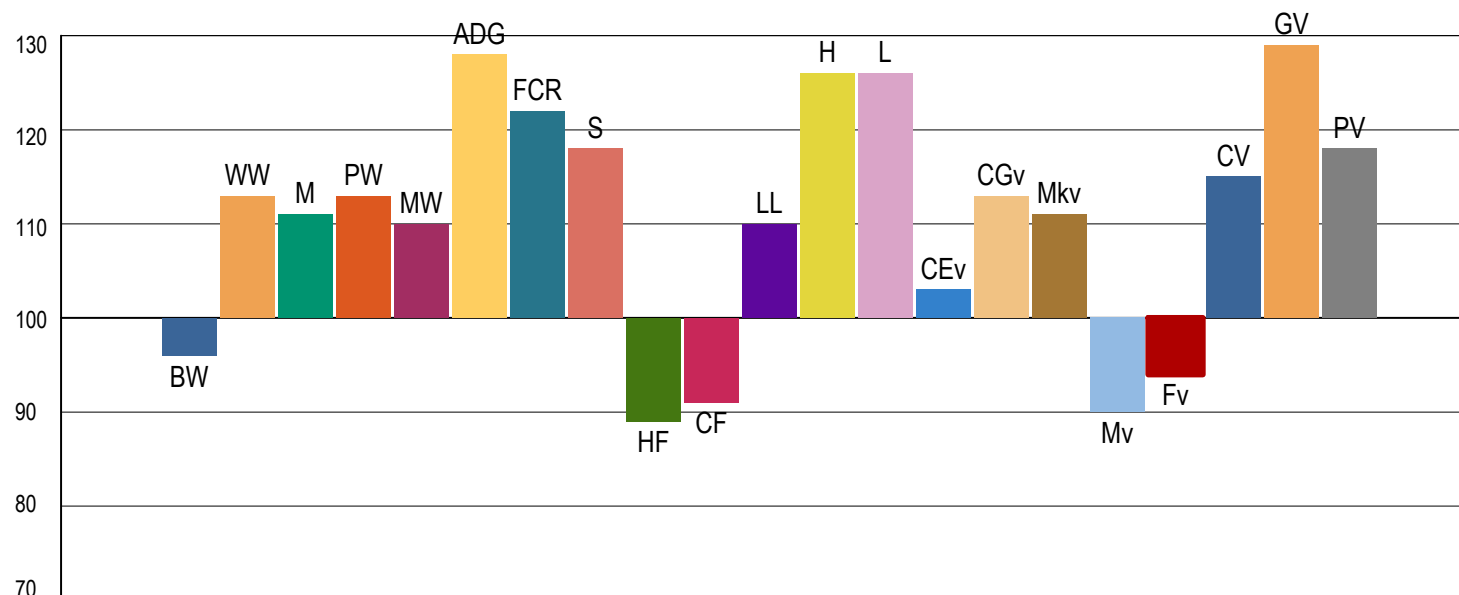
GV: Growth Value

(Combination of EBVs based on bulls measured in growth tests)

Breeding Values (EBVs)	ADG	Kleiber ratio	Feed conversion ratio	Scrotal circumference	Height	Length	Carcass
	Average daily gain	Growth efficiency	Feed conversion ratio	Bull fertility	Shoulder/Hip heigh	Body length	Dressing%, Red Meat Yield and Marbling
Higher EBV	More growth	More efficient on veld	Higher intake per kg gain	Larger scrotum	Taller animal	Longer animal	More
Lower EBV	Less growth	Less efficient on veld	Lower intake per kg gain	Smaller scrotum	Shorter animal	Shorter length	Less
Optimum EBV	Higher	Higher	Lower	Higher	Intermediate	Intermediate/high	Higher
Optimum EBV index	Higher	Higher	High	Higher	Higher intermediate	Higher intermediate	Higher

PV: Production Value is a combination of CV and GV)

Herd and Breed Averages



Breeding Value (EBV) and Breeding Value Index (EBVi):

BW	Birth Weight
WW	Weaning Weight
M	Milk
PW	Post-Wean Weight
MW	Mature Weight
ADG	Average Daily Gain
FCR	Feed Conversion Ratio
S	Scrotal Circumference
HF	Heifer Fertility
CF	Cow Fertility
LL	Longevity
H	Frame Score
L	Length

Selection Values

CEv	Calving Ease Value
CGv	Calf Growth Value
Mkv	Milk Value
Mv	Maintenance Value
Fv	Fertility Value
CV	Cow Value
GV	Growth Value
PV	Production Value

	Trait	EBV Herd	EBV Index	EBV Breed
Prewean Growth	Birth Weight	1.88	96	1.52
	Wean Weight	33.8	113	27.0
	Birth Mat.	0.06	107	0.37
	Milk (Wn.Mat.)	8.9	111	5.8
Postwean Growth	Postwean Wt	62.9	113	51.0
	Mature Weight	49	110	38
	ADG	333	128	207
	FCR	-127	122	-81
Fertility	Scrotal Circumf.	30.5	118	21.8
	Heifer Fertility	7.4	89	-1.2
	Cow Fertility	-0.7	91	-2.5
	Longevity	28.2	110	22.8
Frame	Frame Score	2	126	0
	Length	70	126	44
Carcass	Dressing%	1.11	125	0.60
	RedMeatYield	12.7	127	6.0
	Marbling	0.52	103	0.27

Selection Value	Ave. Herd
Calving Ease	103
Calf Growth	113
Milk	111
Maintenance	90
Fertility	94
Cow Value	115
Growth Value	129
Production Value	118

- 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?:

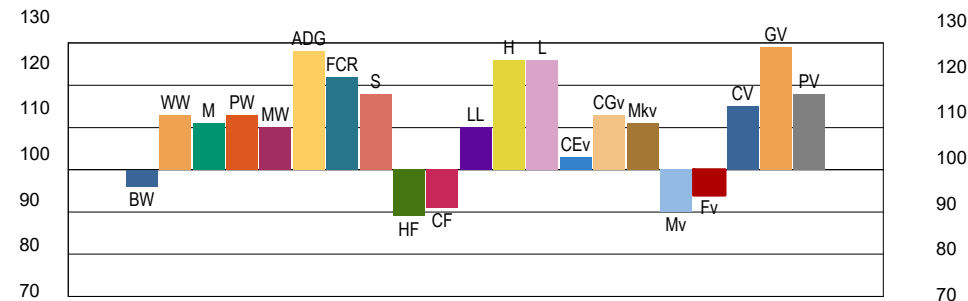
Calving ease:	Smaller calf at birth - easier calving
Calf growth:	Heavier calves at wean due to growth potential of the calf
Milk:	Cows with more milk and better mothering ability
Maintenance:	Animals with low maintenance requirements (lower mature weight).
Fertility:	Cows/daughters that calve

Genetic Window

Bulls on Farm

Bulls born in 2021 and earlier

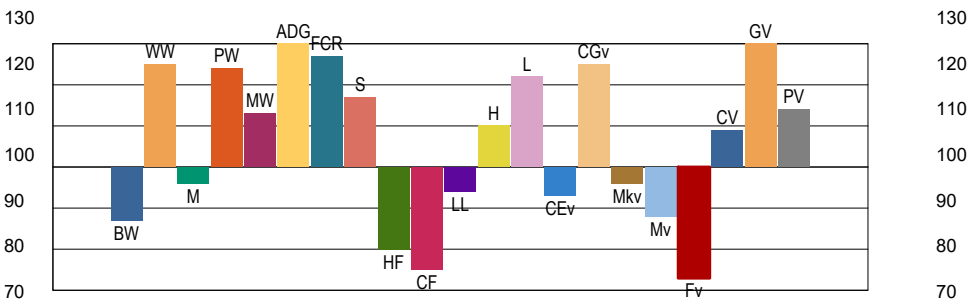
Number: 1



Sires of young animals

Sires of animals 3 years and younger

Number: 1



Bull Calves

Bull calves born in

Number:



Cow Herd

Cows born in and earlier

Number:

Cows older than 6 years

Cows born in and earlier

Number:

Abbreviations

BW Birth Weight
WW Weaning Weight
M Milk
PW Post-wean Weight
MW Mature Weight

FCR Feed Conv. Ratio
S Scrotal Circumf.
HF Heifer Fertility
CF Cow Fertility
LL Longevity
H Frame Score
L Length

CEv Calving Ease Value
CGv Calf Growth Value
Mkv Milk Value
Mv Maintenance Value
Fv Fertility Value

CV Cow Value
GV Growth Value
PV Production Value

Heifers

Heifers born in

Number:

Genetic Trends for On-Farm Traits

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

Herd

Birth Year	Calving Ease				Calf Growth			Milk			Maintenance					Fertility						Cow Value
	Birth Weight		Dir	Mat	Calv. Ease	Weaning Weight		Calf Growth	Milk (Wn.Mat.)		12m weight	Mature Weight		Maintenance	Heifer Fert.		Cow Fert.		Longevity		Fertility	
	Number	EBV				Number	EBV		Number	EBV		Number	EBV		Number	EBV	Number	EBV	Number	EBV		

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.)		12m weight		Mature Weight		Maintenance	Heifer Fert.		Cow Fert.		Longevity		Fertility		
	Number	Dir EBV			Number	EBV		Number	EBV	Number	EBV	Number	EBV		Number	EBV	Number	EBV	Number	EBV		Number	
2015	6591	1.35	0.36	102	4645	23.4	93	4645	4.85	97	1819	39.3	635	33	102	1332	-1.6	1055	-2.1	6750	15.8	97	90
2016	6110	1.44	0.38	101	4059	23.7	94	4059	5.06	97	1541	39.8	539	34	101	1011	-0.3	748	-2.2	6379	16.3	97	91
2017	6170	1.43	0.40	100	4082	24.1	94	4082	5.29	98	1576	40.2	632	35	101	1073	-1.6	870	-2.3	6322	16.2	99	93
2018	6109	1.44	0.36	101	4255	24.9	96	4255	5.06	97	1525	41.0	617	35	101	1043	-1.9	843	-2.3	6190	17.4	100	94
2019	5839	1.45	0.35	101	4094	25.6	97	4094	5.43	99	1522	42.1	749	37	101	1119	-1.6	845	-2.5	5541	17.9	100	96
2020	5706	1.45	0.39	100	4114	25.8	98	4114	5.78	100	1528	42.9	682	37	101	1108	-1.6	488	-2.3	3574	17.9	101	97
2021	5948	1.47	0.39	100	4389	26.5	99	4389	5.73	100	1661	44.5	229	37	100	723	-1.9	93	-2.7			102	99
2022	5859	1.55	0.34	100	4354	27.1	100	4354	5.60	99	1697	44.2	1	30	102	181	-1.4					103	101
2023	6207	1.48	0.39	100	4185	27.2	101	4185	5.90	100	749	48.1			97								102
2024	3912	1.53	0.34	100	137	29.5	105	137	7.70	107													108

Genetic Trends for Growth Test Traits

Herd

Birth Year	Growth									Frame						Carcass Traits								Selection Values	
	FCR			ADG			Scrotal Circumf.			Frame Score			Length				Dressing%		RMeat Yield		Marbling		Growth Value	Prod Value	
	Number	EBV	EBVi	Number	EBV	EBVi	Number	EBV	EBVi	Number	EBV	EBVi	Number	EBV	EBVi	Number	EBV	EBVi	EBV	EBVi	EBV	EBVi			

Breed

Birth Year	Growth									Frame						Carcass Traits								Selection Values	
	FCR			ADG			Scrotal Circumf.			Frame Score			Length				Dressing%		RMeat Yield		Marbling		Growth Value	Prod Value	
	Number	EBV	EBVi	Number	EBV	EBVi	Number	EBV	EBVi	Number	EBV	EBVi	Number	EBV	EBVi	Number	EBV	EBVi	EBV	EBVi	EBV	EBVi			
2015	38	-82	101	464	207	100	474	20.6	97	467	0	99	467	44	99	250	0.66	103	7.03	104	0.579	104	99	92	
2016	56	-79	99	600	211	101	606	21.3	99	600	0	102	600	46	102	357	0.65	103	6.62	102	0.364	101	101	94	
2017	11	-99	108	370	201	99	401	22.0	100	377	0	102	372	46	101	201	0.58	99	5.11	96	0.345	101	98	95	
2018	18	-80	99	401	207	100	406	21.7	100	402	0	102	402	47	103	158	0.59	99	5.94	100	0.234	100	99	97	
2019	11	-92	105	439	218	102	455	23.3	103	439	0	104	439	49	104	308	0.62	101	6.33	101	0.318	101	102	100	
2020	8	-107	112	566	224	104	486	23.6	104	562	0	105	562	49	105	445	0.69	105	7.06	104	0.377	101	103	100	
2021				612	231	105	543	25.1	107	612	0	106	612	51	107	383	0.73	106	7.45	106	0.446	102	105	103	
2022	7	-106	112	552	230	105	509	24.8	106	552	0	105	552	50	106	391	0.75	107	7.64	107	0.228	100	104	104	
2023	12	-113	115	290	248	109	235	26.1	109	293	1	107	292	53	109	266	0.80	110	8.12	109	0.722	106	106	108	

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	Frame Score	Length
Mean	1.51	27.5	5.9	52.0	39	216	113	22.9	-0.2	-2.2	22.6	0	46
Top	-5.65	54.4	19.8	114.1	103	571	271	62.8	-30.3	-10.2	39.2	5	127
1	-1.85	44.4	13.7	83.0	75	381	203	39.7	-20.5	-7.0	33.9	3	81
2	-1.37	42.2	12.7	79.2	71	357	191	37.1	-18.4	-6.5	33.1	2	76
3	-0.95	40.7	12.2	76.2	67	338	182	35.2	-16.8	-6.2	32.5	2	73
4	-0.71	39.5	11.7	74.6	65	327	175	34.1	-15.4	-5.9	31.9	2	70
5	-0.51	38.7	11.3	73.2	63	316	170	33.3	-14.5	-5.7	31.5	2	69
6	-0.38	38.1	11.0	71.8	62	309	166	32.6	-13.8	-5.4	31.0	2	67
7	-0.25	37.3	10.7	70.5	61	304	163	32.0	-13.1	-5.3	30.7	2	66
8	-0.15	36.9	10.6	69.4	60	299	160	31.4	-12.4	-5.1	30.4	2	65
9	-0.03	36.5	10.3	68.7	59	294	156	31.0	-11.9	-5.0	30.0	1	64
10	0.04	36.0	10.2	67.7	58	290	154	30.6	-11.3	-4.9	29.8	1	63
20	0.62	32.8	8.7	62.3	51	261	138	27.7	-7.5	-3.9	27.9	1	56
30	0.97	30.8	7.6	58.3	46	242	129	25.8	-4.9	-3.3	26.5	1	52
40	1.27	29.0	6.7	55.3	43	227	120	24.2	-2.7	-2.8	25.3	0	48
50	1.53	27.4	5.9	52.0	39	213	112	22.7	-0.5	-2.2	24.0	0	45
60	1.78	25.7	5.1	48.8	35	199	104	21.2	1.6	-1.8	22.7	0	42
70	2.07	23.9	4.2	45.2	32	184	95	19.7	4.2	-1.2	21.1	0	39
80	2.44	22.0	3.2	41.2	28	166	85	17.8	7.2	-0.5	19.2	-1	36
90	3.01	19.0	1.6	36.2	21	145	73	15.6	11.5	0.5	14.3	-1	31
91	3.09	18.7	1.3	35.6	20	142	72	15.3	12.1	0.6	12.9	-1	31
92	3.17	18.2	1.1	35.0	19	139	70	14.8	12.6	0.8	10.9	-1	30
93	3.27	17.7	0.9	34.1	18	136	69	14.5	13.4	0.9	6.9	-1	29
94	3.39	17.1	0.7	33.3	17	132	67	14.0	14.0	1.0	4.4	-1	28
95	3.51	16.6	0.4	32.3	16	127	65	13.3	15.0	1.3	3.4	-2	27
96	3.66	15.9	-0.1	31.1	14	123	62	12.6	15.8	1.5	2.4	-2	26
97	3.81	15.1	-0.6	29.6	12	117	59	11.9	17.1	1.9	1.7	-2	24
98	4.10	14.1	-1.3	27.7	10	109	54	10.8	18.7	2.3	0.8	-2	22
99	4.55	12.0	-2.3	25.0	6	95	48	8.7	20.8	2.8	-0.2	-2	18
Bottom	7.47	2.4	-8.6	2.5	-15	-35	-23	-1.9	35.0	7.2	-10.7	-4	-4

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	Frame Score	Length
Mean	1.52	26.8	5.7	50.6	37	204	108	21.4	-1.6	-2.6	22.9	0	44
Top	-4.81	53.0	22.4	108.3	121	539	259	49.8	-50.7	-14.5	39.7	5	128
1	-1.87	42.3	15.0	79.2	77	353	190	35.9	-26.2	-11.2	34.8	2	76
2	-1.34	40.4	13.7	75.7	71	329	178	33.9	-22.9	-9.8	33.5	2	71
3	-1.03	39.1	13.0	73.7	68	316	170	32.7	-21.5	-9.0	32.7	2	69
4	-0.82	38.2	12.4	71.9	65	307	165	31.9	-20.0	-8.3	32.1	2	67
5	-0.60	37.4	12.0	70.5	63	299	161	31.2	-18.8	-7.6	31.6	2	65
6	-0.44	36.8	11.6	69.3	61	292	158	30.7	-17.8	-7.1	31.2	2	64
7	-0.29	36.3	11.3	68.4	60	287	155	30.2	-17.0	-6.8	30.9	1	63
8	-0.17	35.8	11.0	67.5	59	283	152	29.7	-16.2	-6.5	30.5	1	62
9	-0.08	35.4	10.7	66.7	58	279	150	29.3	-15.5	-6.3	30.1	1	61
10	0.02	35.0	10.5	65.9	57	275	148	28.9	-14.8	-6.1	29.9	1	60
20	0.63	32.1	8.8	60.5	50	249	133	26.5	-10.0	-4.7	27.7	1	54
30	1.01	30.2	7.6	56.9	45	232	123	24.6	-6.7	-3.8	26.1	0	50
40	1.32	28.5	6.7	53.6	41	216	114	23.0	-4.0	-3.1	24.9	0	47
50	1.59	26.9	5.8	50.7	37	203	107	21.5	-1.5	-2.5	23.6	0	44
60	1.85	25.3	4.9	47.6	33	189	99	20.0	0.9	-1.9	22.4	0	40
70	2.14	23.5	3.9	44.5	29	175	91	18.4	3.5	-1.2	21.0	-1	37
80	2.47	21.4	2.7	40.5	25	157	82	16.4	6.8	-0.4	19.2	-1	33
90	2.93	18.3	0.9	35.1	18	133	69	13.6	11.6	0.7	16.0	-1	28
91	3.00	17.8	0.7	34.3	17	130	68	13.2	12.3	0.8	15.3	-1	27
92	3.08	17.3	0.4	33.4	16	126	66	12.8	13.0	1.0	14.6	-1	26
93	3.17	16.9	0.1	32.5	15	122	64	12.3	13.7	1.2	13.6	-1	25
94	3.27	16.3	-0.2	31.8	13	117	62	11.8	14.6	1.4	12.1	-2	24
95	3.39	15.7	-0.6	30.6	12	112	59	11.0	15.5	1.6	9.9	-2	23
96	3.52	15.1	-1.0	29.3	10	106	56	10.1	16.7	1.9	6.1	-2	21
97	3.69	14.2	-1.6	27.5	8	99	52	9.2	18.2	2.3	3.4	-2	20
98	3.90	13.0	-2.2	25.2	5	89	47	7.9	20.3	2.8	1.9	-2	17
99	4.27	10.9	-3.5	21.6	0	74	38	5.7	23.7	3.6	0.0	-2	14
Bottom	7.47	-1.8	-12.9	-2.5	-39	-44	-30	-5.2	46.5	10.5	-8.7	-4	-17

Sires

Sire			Selection Values (SV / Acc)								Calf Weight		Mother		Growth & Efficiency				Fertility				Frame		Carcass			Measured Progeny	
ID Name	Colour	Sire ID Dam ID	Calf Ease	Calf Grwth	Milk Value	Maint. Value	Fertility Value	Cow Value	Grwth Value	Prod. Value	Birth Weight	Wean Weight	Milk Wn.Mat.	Comb Mat	12m wt	Mature Weight	ADG	FCR	Scrotal Circumf.	Heifer Fert.	Cow Fert.	Longevity	Frame Score	Length	Dress %	RMeat Yield	Marb-ling		
			<75	75 - 125		>125	Breed average:				1.52	27.0	5.8	12.8	43	38	207	-81	21.8	-1.2	-2.5	22.8	0	44	0.60	6.0	0.27	Birth Grwth test	Wean Dght/Calv.
54D OMM INTERNATIONAL 54D	B	2020 105A	93 78	125 81	96 64	88 54	73 53	109 61	134 48	114 58	2.71 88	39.6 81	4.6 64	16.2 106	64 70	53 127	353 56	-137 37	30.0 60	14.2 57	2.6 27	19.7 74	1 61	66 110	1.24 52	14.3 132	0.18 49	36 2	22 8

Bulls

Inbreeding in red is high

EBV
Acc Index

Breeding values with an accuracy < 5% are not printed

Bull			Selection Values (SV / Acc)									Calf Weight		Mother		Growth & Efficiency				Fertility				Frame		Carcass																	
ID	Colour	% Inbr.	Sire ID	Dam ID	Calf Ease	Calf Grwth	Milk Value	Maint. Value	Fertility Value	Cow Value	Grwth Value	Prod. Value	Birth Weight	Wean Weight	Milk Wn.Mat.	Comb Mat.	12m weight	Mature Weight	ADG	FCR	Scrotal Circumf.	Heifer Fert.	Cow Fert.	Longevity	Frame Score	Length	Dress%	RMeat Yield	Marb-ling														
Name			Breed average:												1.52	27.0	5.8	12.8	43.2	38	207	-81	21.8	-1.2	-2.5	22.8	0	44	0.60	6.0	0.27												
			<75	75 - 125	>125	Shaded EBVi									90-110	>100	>100	>100	>100	90-110	>100	>100	>100	>100	>100	>100	90-110	90-110	>100	>100	>100												
ACM 210023	B	2 54D	103	113	111	90	94	115	129	118	1.88	33.8	8.9	17.2	52.5	49	333	-127	30.5	7.4	-0.7	28.2	2	70	1.1	12.7	0.52																
UNIT 2123		ACM 130019	66	66	50	40	41	49	32	46	77	96	66	113	50	111	112	48	112	40	110	38	128	23	122	41	118	43	89	24	91	55	110	41	126	41	126	35	125	35	127	34	103

Cows

Inbreeding in red is high

EBV
Acc Index

Breeding values with an accuracy < 5% are not printed

Cow			Selection Values (SV / Acc)								Calf Weight		Mother		Growth & Efficiency				Fertility				Frame		Carcass																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
ID Name	Sire ID	Dam ID	Calf Ease	Calf Grwth	Milk Value	Maint. Value	Fertility Value	Cow Value	Grwth Value	Prod. Value	Birth Weight	Wean Weight	Milk Wn.Mat.	Comb Mat.	12m weight	Mature Weight	ADG	FCR	Scrotal Circumf.	Heifer Fert.	Cow Fert.	Longevity	Frame Score	Length	Dress%	RMeat Yield	Marb-ling																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
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Selection List on Cow Values

Bulls 2 years and older

IDName Sorted on ID			Sire ID	Dam ID	% Inbreeding	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 210023	UNIT 2123	54D	ACM 130019	2.1	10366	11366	11150	9040	9441	11549	12932	11846	

