

Droughtmaster

Genetic Evaluation

SA Stud Book

October 2024

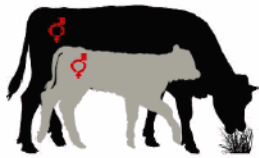
Herd Number: 712360

THORNTREE DROUGHTMASTERS
23 CULEMBORG CRESCENT
HURLINGHAM

2196



EBVs, EBVi's and Selection Values



Logix Cow Value

Selecting for:

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

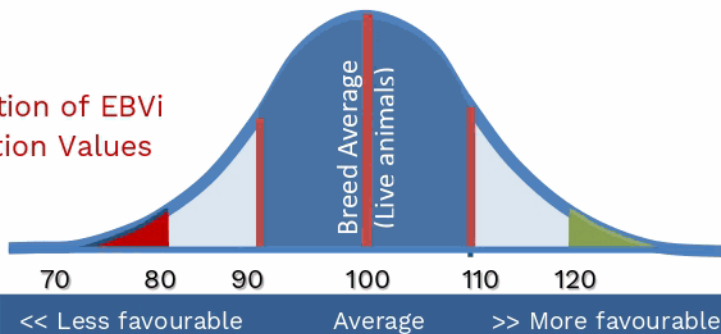
EBVi (EBVindex): The average EBVi of all the live animals in the breed is 100, and all EBVi values are expressed relative to this value. Values above 100 are always in a more desirable direction. Note that a very high index is not always desirable. For certain traits, such as birth weight, average values may 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 (2017).

Selection 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 Fertility Value 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.

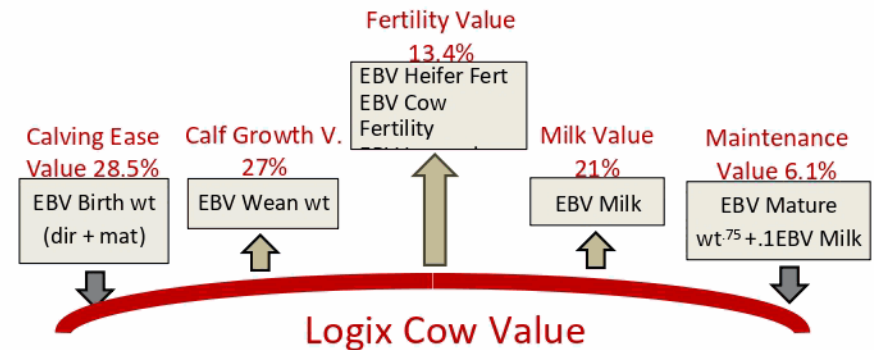
Cow Value combine relative selection values into a single value. This gives a quick and easy indication of the combined genetic value of an animal compared to the breed. It is advised to still look at the sub-values to see where the strengths and weaknesses lie.

Interpretation of EBVi and Selection Values



Logix Cow Value

	<< Less favourable	Average	>> More favourable
Calving Ease Value	• Heavier birth weight	90 – 110:	• Lower birth weight
Calf Growth Value	• Lower weaning wght	= 50% of	• Higher weaning wght
Milk Value	• Less milk	population	• More milk
Maintenance Value	• Higher maintenance (Heavier cow)	= Average	• Lower maintenance (Lighter cow)
Fertility Value	• Lower fertility	= Save choice	• Higher fertility
Cow Value	• Lower Cow Value		• Higher Cow Value



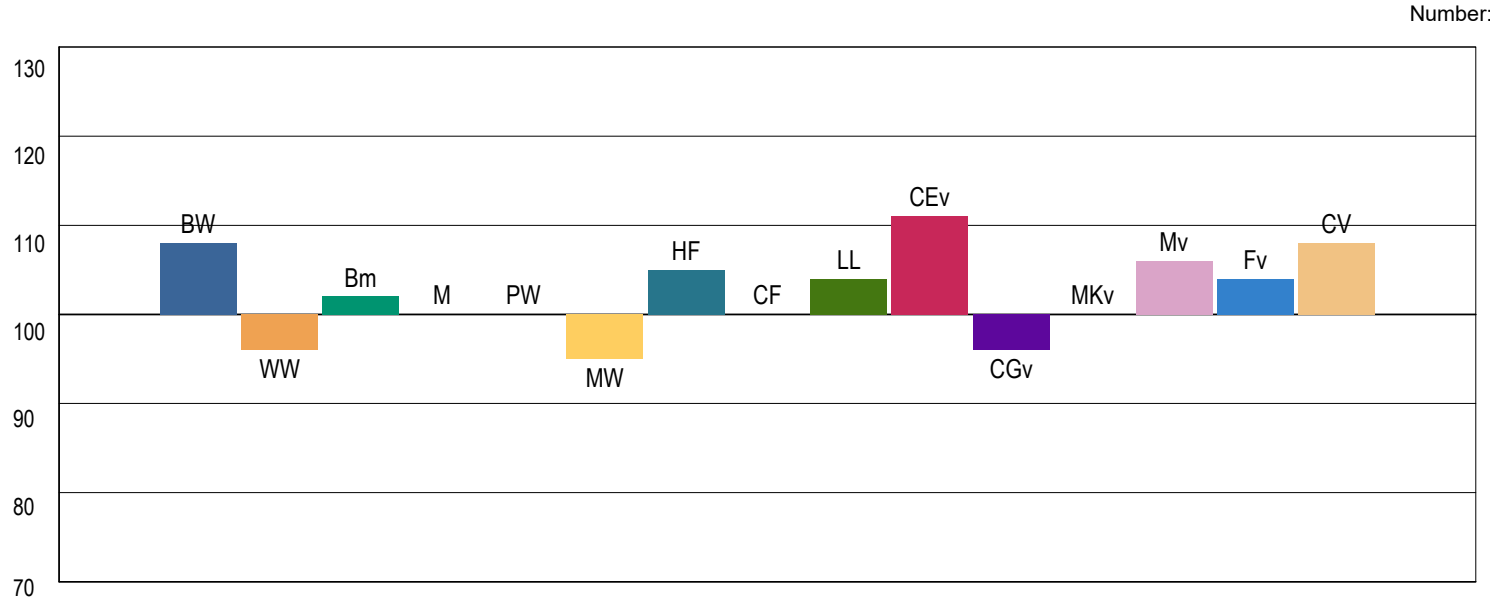
SABeefBulls.com
Profit through Genetics
- at your service

LOGIX



CERTIFICATE OF QUALITY
Valid up to
1 April 2024

Herd and Breed Averages



Abbreviations:

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

BW	Birth Weight
WW	Weaning Weight
Bm	Birth maternal
M	Milk
PW	Post-Wean Weight
MW	Mature Weight
HF	Heifer Fertility
CF	Cow Fertility
LL	Longevity

Selection Values

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

	Trait	EBV Herd	EBVi Herd	EBV Breed
Prewrite Growth	Birth Wt	-0.69	108	-0.06
	Weaning Wt	0.62	96	2.1
	Birth Mat.	-0.14	102	-0.09
	Milk(Wn.Mat.)	-1.5	100	-1.3
Postwean Growth	Post wean Wt	2.7	100	2.9
	Mature Wt	-5	95	-1
Fertility	Heifer Fertility	0	105	9
	Cow Fertility	-1	100	-1
	Longevity	12	104	9

Selection Value	Avg. Herd
Calving Ease	111
Calf Growth	96
Milk	100
Maintenance	106
Fertility	104
Cow Value	108

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

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

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

Genetic Windows

Bulls on Farm

Bulls born in and earlier

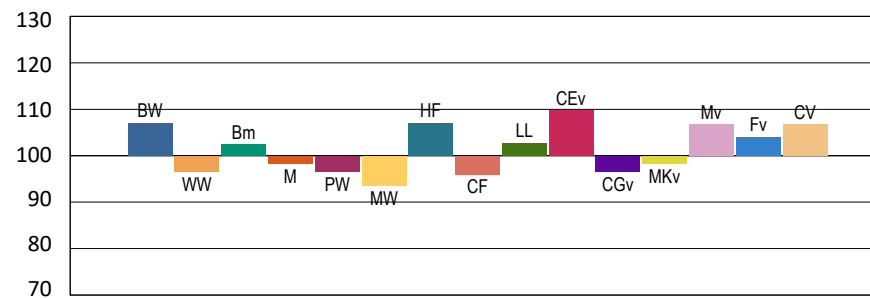
Number:



Cow Herd

Cows born in 2022 and earlier

Number: 3



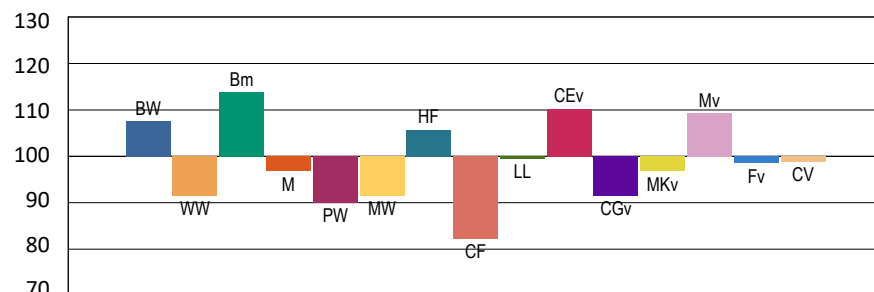
Abbreviations

BW	Birth weight
WW	Weaning weight
Bm	Birth mat
M	Milk
PW	Post-wean weight
MW	Mature weight
HF	Heifer Fertility
CF	Cow Fertility
LL	Longevity

Sires of Young Animals

Sires of animals 3 years and younger

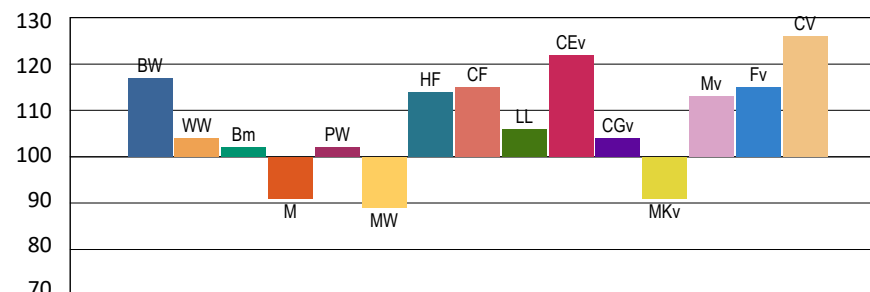
Number: 4



Cows older than 6 years

Cows born in 2018 and earlier

Number: 1



CEv	Calving Ease value
CGv	Calf Growth value
MKv	Milk value
Mv	Maintenance value
Fv	Fertility value
CV	Cow Value

Bull Calves

Bull calves born in

Number:



Heifer Calves

Heifers born in

Number:



Summary of Genetic Merits of Cows in the Herd

			Selection Values (SV)						Calf Weight		Mother		Growth		Fertility		
Birth Year	Nr of cows	Avg Cow Value Star grading	Calv. Ease	Calf Grwth	Milk	Maint.	Fert.	Cow Value	Birth Weight	Weaning Weight	Birth Mat.	Milk (Wn.Mat.)	Post-wn weight	Mature weight	Heifer Fertility	Cow Fertility	Longevity
Avg Cows in Breed			99	100	100	100	101	100	99	100	101	100	99	100	101	102	99
2014	1	★★★★★	91	109	115	95	103	110	91	109	101	115	127	103	92	125	112
2018	1	★★★★★☆	122	104	91	113	115	126	117	104	102	91	102	89	114	115	106
2021	1	★★★★☆	88	101	100	93	100	88	88	101	110	100	100	106	102	93	103
2022	1	★★★★☆	119	85	104	114	97	106	116	85	95	104	88	86	105	80	99
Avg Cows in Herd			105	100	103	104	104	108	103	100	102	103	104	96	103	103	105

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 (CV)
	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	EBV			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 (CV)		
	Birth Weight		Calv. Ease	Dir	Mat	Weaning Weight		Calf Growth	Milk (Wn.Mat.)		Postwean Weight		Mature Weight		Maine- nance	Heifer Fert.		Cow Fert.		Longevity		Ferti- lity	
	Number	EBV				Number	EBV		Number	EBV	Number	EBV	Number	EBV		Number	EBV	Number	EBV	Number			EBV
2015	590	0.24	-0.11	96	518	0.9	97	518	0.28	106	203	-0.1	64	0	91	149	0.4	89	-0.1	2221	-2.4	102	93
2016	703	0.12	-0.01	97	609	-0.1	95	609	-0.15	104	226	-2.5	89	1	96	205	2.4	118	-0.4	2301	-0.5	101	92
2017	825	0.00	0.00	98	650	0.0	95	650	0.00	105	313	0.0	137	0	95	257	0.0	174	0.0	2746	0.0	102	94
2018	945	0.02	0.03	98	718	1.2	98	718	-0.46	103	387	1.1	221	-3	98	255	-0.7	176	-1.0	2702	1.4	104	96
2019	986	-0.16	0.05	100	991	1.0	97	991	-0.87	102	605	0.4	212	-2	99	271	0.2	180	-0.6	2337	1.9	103	95
2020	1143	-0.14	-0.03	101	1179	1.4	98	1179	-0.92	102	822	1.9	205	-2	98	309	1.1	97	-1.9	1865	1.0	104	97
2021	1362	-0.20	0.05	101	1372	2.0	100	1372	-0.61	103	868	3.6	93	-5	98	261	0.0	26	-0.2			105	98
2022	1794	-0.12	-0.03	100	1370	1.9	100	1370	-1.15	101	771	3.4	3	3	99	36	3.1	2	-5.6			104	99
2023	2473	-0.14	0.01	100	1083	2.0	100	1083	-1.19	101	274	1.5			100								100
2024	804	-0.22	0.06	101	22	-0.5	93	22	-1.71	99													99

Sires

Sire		Selection Values (SV)						Calf Weight		Mother		Growth		Fertility			Measured Progeny Number of Herds		
ID	Sire ID	Calving Ease	Calf Growth	Milk	Maintenance	Fertility	Cow Value	Birth Weight	Weaning Weight	Birth Mat.	Milk (Wn.Mat.)	Post-wean Weight	Mature Weight	Heifer Fertility	Cow Fertility	Longevity	Birth	Wean	Dght/Calves.
Reg. Nr	Dam ID	SV Acc	SV Acc	SV Acc	SV Acc	SV Acc	SV Acc	EBV Acc	EBVi	EBV Acc	EBVi	EBV Acc	EBVi	EBV Acc	EBVi	EBV Acc	EBVi	EBV Acc	EBVi
Breed Average:								-0.06	100	2.1	100	-0.09	100	-1.3	100	2.9	100	-1	100
WINGFIELD BLARNEY (P) D5	+SERSEMA REBECCA 4TH	96 81	105 81	104 82	112 59	100 70	105 73	0.47 82	3.9 81	-0.62 79	-0.2 82	24.2 59	-10 59	26.4 79	-9.1 44	11.5 86	18 5	39	
	CSA 150029	121 88	120 77	67 77	110 66	111 71	120 72	-1.92 90	10.0 124	-0.45 81	-10.1 77	10.5 60	-6 66	-8.8 79	-6.4 54	7.6 81	15 4	22	
CSA 180201	C 110154	77 82	106 77	107 58	96 40	95 55	86 64	1.70 86	4.5 77	-1.08 67	0.6 58	4.9 56	1 40	15.4 71	1.4 30	10.4 64	33 3	16 1	3 2
CSA 190062	C 090032	117 83	97 76	89 53	111 44	97 46	103 62	-0.89 88	1.0 76	-0.62 62	-4.3 53	-1.0 48	-8 44	-4.6 50	5.4 30	1.5 59	48 3	15 1	
CSA 190065	CTM 150023	123 83	84 74	98 56	115 47	102 48	107 62	-1.64 88	-4.1 74	-0.10 64	-2.0 56	-6.6 48	-13 47	-5.0 53	4.2 30	14.9 60	47 2	12 1	
CSA 190082	C 110507	124 77	79 74	93 53	115 44	100 46	99 60	-1.74 82	-6.1 74	-0.47 58	-3.2 53	-7.8 46	-12 44	-8.5 50	6.2 30	7.3 58	24 2	13 1	

Bulls

Bull			Selection Values (SV)						Calf Weight				Mother				Growth				Fertility					
ID	% Inbreeding	Sire ID	Calving Ease	Calf Growth	Milk	Mainte- nance	Fertility	Cow Value	Birth Weight	Weaning Weight	Birth Mat.	Milk (WnMat.)	Post-wn Weight	Mature Weight	Heifer Fertility	Cow Fertility	Longevity									
Bull Name		Dam ID	SV Acc	SV Acc	SV Acc	SV Acc	SV Acc	SV Acc	EBV Acc	EBVi	EBV Acc	EBVi	EBV Acc	EBVi	EBV Acc	EBVi	EBV Acc	EBVi								
Inbreeding >6% is high			Breed Average:						-0.06	100	2.1	100	-0.09	100	-1.3	100	2.9	100	-1	100	9.3	100	-1.3	100	8.9	100
			Shaded EBVi:						90-110	>100	>100	>100	>100	90-110	>100	>100	>100									
CSA 220142		CSA 190082	114 62	92 49	103 45	107 31	101 36	108 44	-0.83	-1.0	-0.24	-0.4	3.9	-5	7.4	-1.5	12.5									
CONSIDERATA SA 22-0142CSA		CSA 140026						★★★★☆	65 110	49 92	49 104	45 103	32 102	31 95	42 101	22 100	44 105									
CSA 220147	3	CSA 190062	122 62	99 47	90 40	112 34	106 36	115 43	-1.30	1.9	-0.35	-4.1	1.1	-9	-10.2	-0.3	7.4									
CONSIDERATA SA 22-0147CSA		CSA 180130						★★★★★	66 116	47 99	46 108	40 90	32 97	34 90	41 111	25 97	42 98									
CSA 220244	1	CSA 190065	120 61	83 46	94 43	105 35	104 32	100 43	-1.44	-4.6	0.19	-2.9	-6.7	-3	-5.9	2.6	13.5									
CONSIDERATA SA 22-0244CSA		CSA 170101						★★★★☆	64 118	46 83	47 92	43 94	31 82	35 97	36 109	18 88	42 106									

Cows

Cow			<75	75 - 125	>125	Breeding Values with an accuracy <5% are not printed.																			
			Selection Values (SV)					Calf Weight				Mother				Growth				Fertility					
ID Name	% Inbreeding	Sire ID Dam ID	Calving Ease	Calf Growth	Milk	Mainte- nance	Fertility	Cow Value	Birth Weight	Weaning Weight	Birth Mat.	Milk (WnMat.)	Post-wn Weight	Mature Weight	Heifer Fertility	Cow Fertility	Longevity								
			SV Acc	SV Acc	SV Acc	SV Acc	SV Acc	SV Acc	EBV Acc	EBVi	EBV Acc	EBVi	EBV Acc	EBVi	EBV Acc	EBVi	EBV Acc	EBVi	EBV Acc	EBVi					
Inbreeding >6% is high			Breed Average:					-0.06	100	2.1	100	-0.09	100	-1.3	100	2.9	100	-1	100	9.3	100	-1.3	100	8.9	100
			Shaded EBVi					90-110	>100	>100	>100	>100	90-110	>100	>100	>100									
CSA 140026 CONSIDERATSA 14-0026CSA			DO 060196	91 72	109 64	115 73	95 44	103 56	110 60	0.62	5.7	-0.11	2.7	17.4	2	23.3	-9.2	17.7							
								★★★★	71 91	64 109	74 101	73 115	43 127	44 103	68 92	33 125	66 112								
CSA 180130 CONSIDERATA SA 18-0130CSA			8 CSA 150029 CSA 170032	122 69	104 54	91 60	113 51	115 54	126 54	-1.43	3.5	-0.14	-3.8	4.2	-10	-15.9	-6.1	13.4							
								★★★★☆	70 117	54 104	64 102	60 91	42 102	51 89	64 114	41 115	58 106								
CSA 210166 CONSIDERATA SA 21-0166CSA			5 CSA 180201 CSA 170101	88 61	101 60	100 44	93 33	100 35	88 48	0.93	2.5	-0.42	-1.5	2.7	4	5.0	1.0	11.2							
								★★★☆	64 88	60 101	48 110	44 100	40 100	33 106	43 102	18 93	45 103								
CSA 220181 CONSIDERATA SA 22-0181CSA			3 CSA 190082 CSA 160116	119 62	85 50	104 45	114 36	97 38	106 46	-1.35	-3.6	0.09	-0.3	-3.9	-12	-0.3	5.2	8.2							
								★★★★☆	65 116	50 85	48 95	45 104	35 88	36 86	41 105	29 80	45 99								

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	CSA 220147	22-0147CSA	CSA 190062	CSA 180130	3.2	12262	9947	9040	11234	10636	11543			
						★★★★☆								
1	CSA 220142	22-0142CSA	CSA 190082	CSA 140026	0.3	11462	9249	10345	10731	10136	10844			
2	CSA 220244	22-0244CSA	CSA 190065	CSA 170101	0.8	12061	8346	9443	10535	10432	10043			

Selection List on Cow Values

Cows 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	CSA 180130	18-0130CSA	CSA 150029	CSA 170032	8.0	12269	10454	9160	11351	11554	12654			
						★★★★★☆☆								
1	CSA 140026	CONSIDERATSA 14-0026CSA		DO 060196	0.0	9172	10964	11573	9544	10356	11060			
						★★★★★☆☆								
1	CSA 220181	22-0181CSA	CSA 190082	CSA 160116	3.5	11962	8550	10445	11436	9738	10646			
						★★★★☆☆								
1	CSA 210166	21-0166CSA	CSA 180201	CSA 170101	5.1	8861	10160	10044	9333	10035	8848			