

NGUNI

BREEDING VALUE REPORT

September 2026



ROOIKOPJES NGUNIS

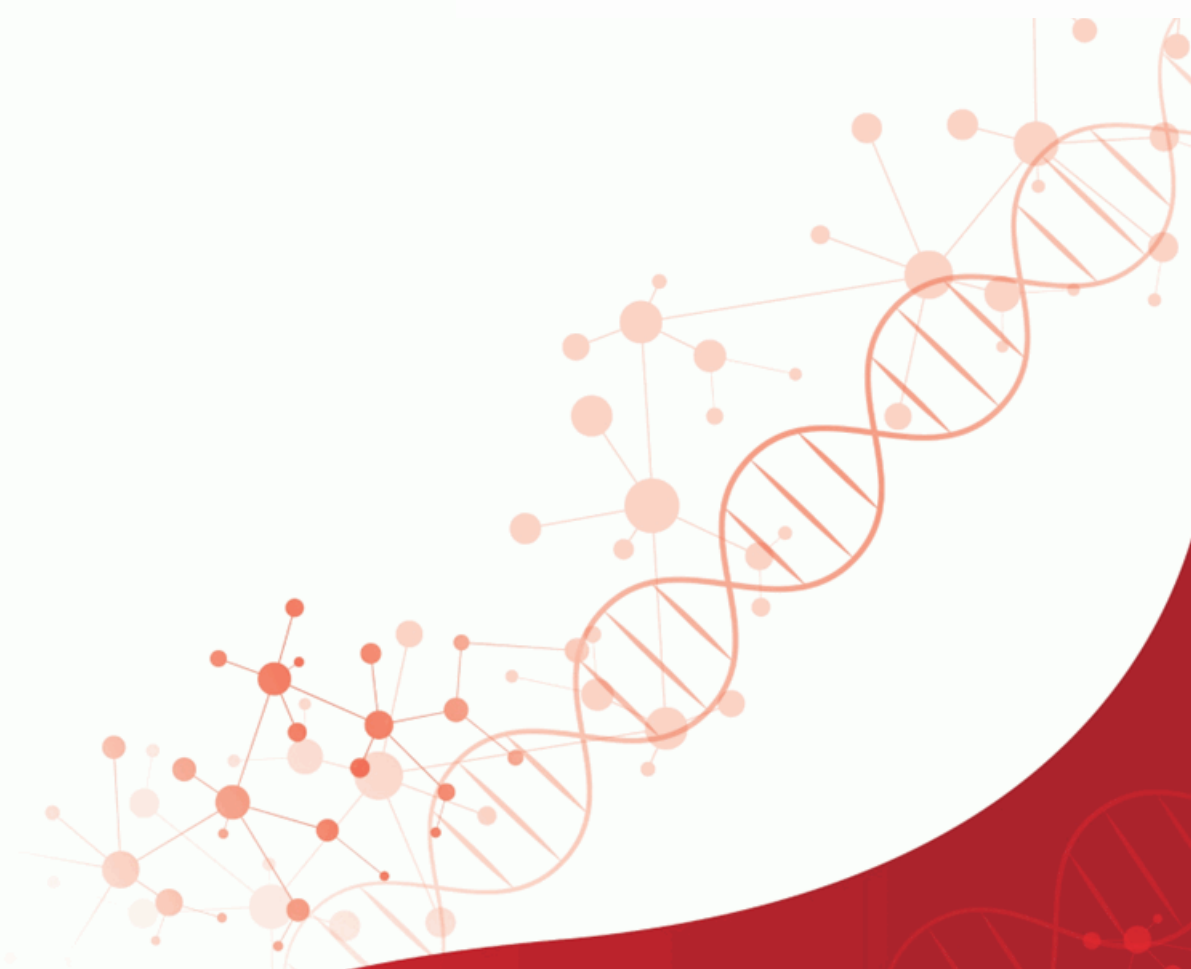
Herd Number: 700513

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NGUNI Cattle Breeders' Society
Beestelersgenootskap



LOGIX



EBVs, EBVi's and GEBVs

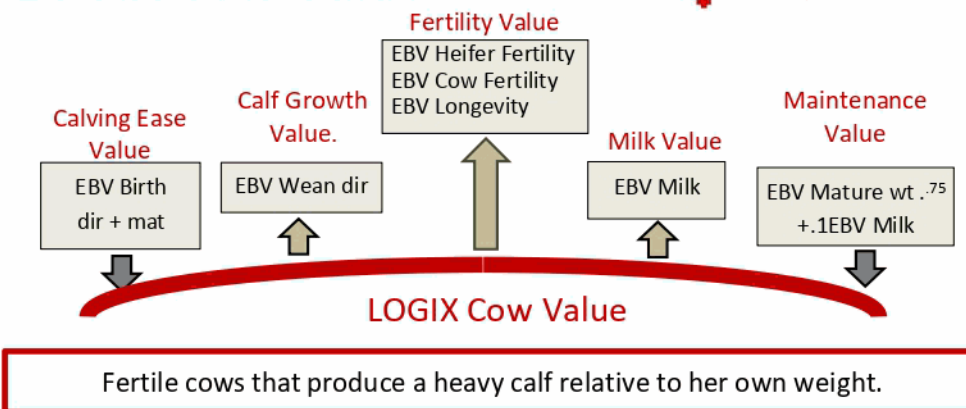
EBVi (Breeding Value Index): Genetic potential relative to the average (100) of the live (active) animals in the breed. Roughly 50% of the animals have values between 90 and 110. Values above 100, depending on the trait, tend to be in the more favourable direction.

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)

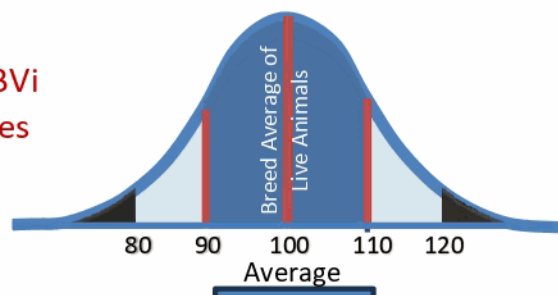
- WeanerCalf / Growth Value > 120
 - Cow Value and Fertility Value average to high
- Growers are usually heavier at birth (lower Calving Ease Value), and maturity (lower Maintenance Value).

LOW- MAINTENANCE ANIMALS

(HARSH ENVIRONMENT)

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

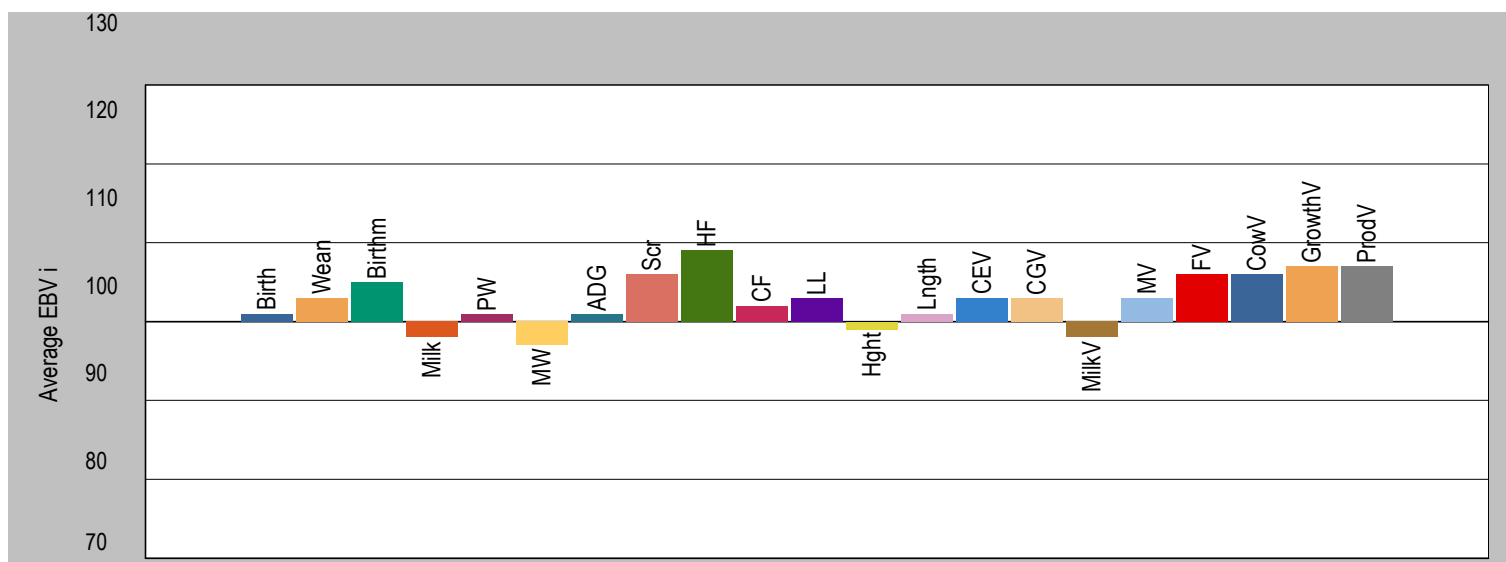
Interpretation of EBVi and Selection Values



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		

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	EBVIndex	EBV Breed
Prewean Growth	Birth Weight	0.08	101	0.12
	Wean Weight	3.6	103	2.6
	Birth Mat.	-0.08	105	0.05
	Milk (Wn.Mat.)	0.6	98	1.0
Postwean Growth	Postwean Wt	4.0	101	3.7
	Mature Weight	2	97	5
	ADG	14	101	12
Fertility	Scrotal Circumf.	5.9	106	3.8
	Heifer Fertility	-13.9	109	-6.2
	Cow Fertility	-3.4	102	-2.9
	Longevity	24.7	103	23.2
Frame	Height	1	99	2
	Length	6	101	5

Selection Value	Ave. Herd
Calving Ease	103
Calf Growth	103
Milk	98
Maintenance	103
Fertility	106
Cow Value	106
Growth Value	107
Production Value	107

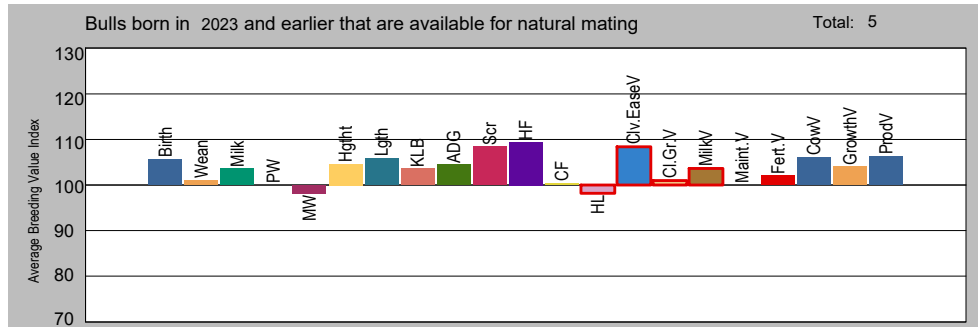
- Average of live animals in the breed: 100
- Above 100: **more favourable**,
- Below 100: **less favourable**

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

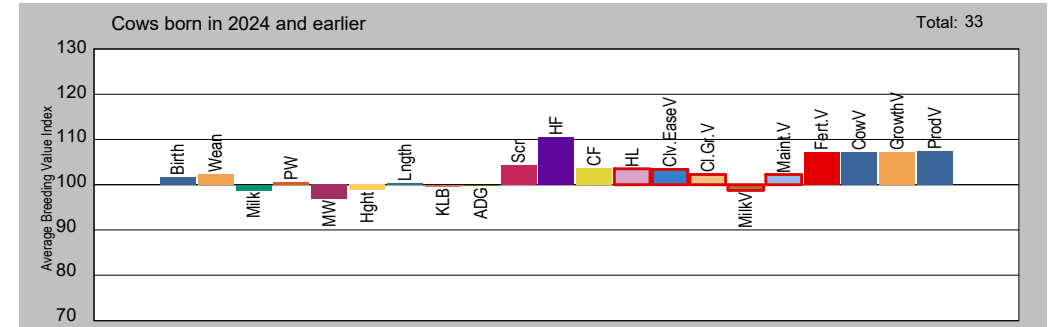
Genetic Windows

Bulls on the farm



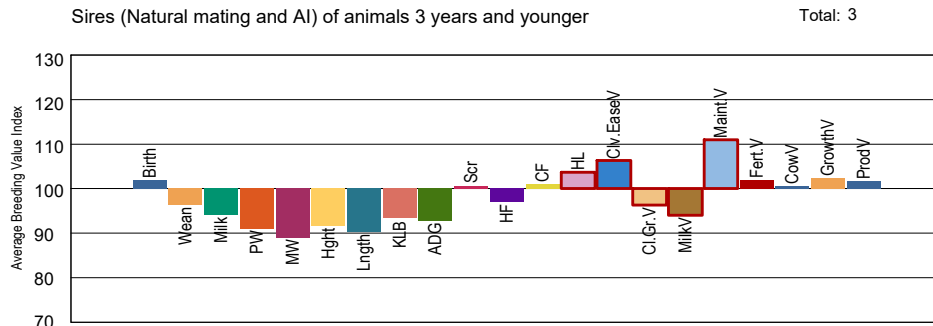
Animals available for breeding

Cow Herd

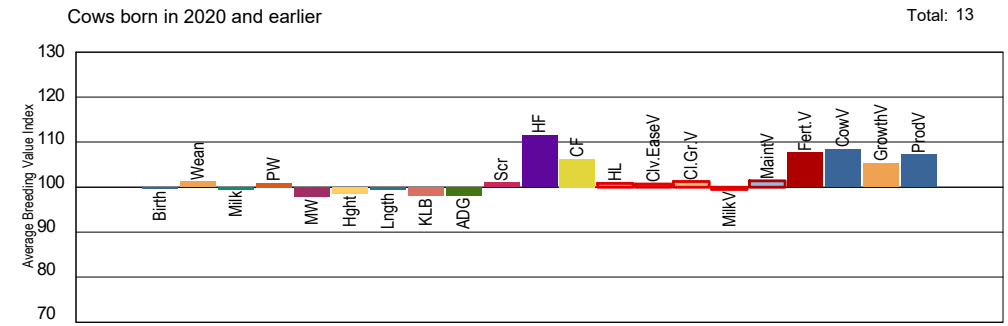


Results of previous selection decisions

Sires of young animals

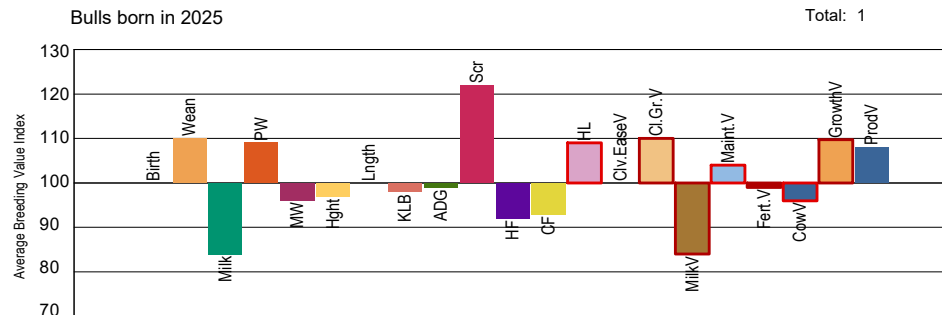


Cows older than 6 years

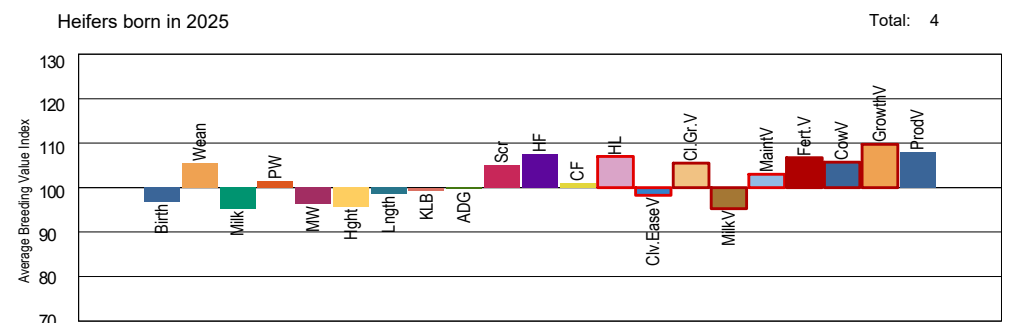


Selection possibilities

Bull calves



Heifer calves

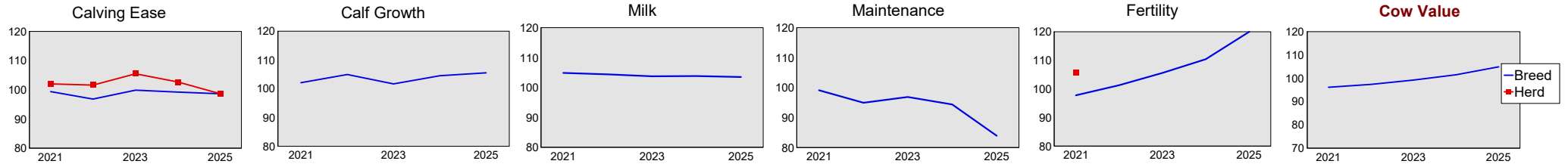


Summary of Cow Herd

			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	100	100	101	100	100	100	100	100	100	100	100	100	100	99	99	99	99	100	100	100	99
2018	13	★★★★☆	99	102	100	102	108	109	107	109	98	102	98	100	102	97	99	99	102	112	106	101	99	100
2019	1	★★★☆☆	99	92	98	98	88	81	82	80	99	92	94	98	90	100	86	85	85	99	85	95	87	90
2021	2	★★★★★	98	114	101	103	114	118	125	123	95	114	113	101	109	97	111	110	117	124	103	109	105	109
2022	6	★★★★☆	104	103	99	103	107	107	109	108	103	103	106	99	101	97	100	100	105	110	102	105	97	99
2023	4	★★★★☆	109	102	99	100	109	107	107	107	107	102	107	99	100	98	103	102	109	113	102	106	103	104
2024	8	★★★★☆	106	101	97	104	105	103	105	104	104	101	104	97	98	95	98	98	104	104	102	104	97	99
2025	4	★★★★☆	98	106	95	103	107	106	110	108	97	106	107	95	102	96	100	99	105	108	101	107	96	99
Cows in Herd Average:			102	103	98	102	105	104	106	106	100	103	104	98	100	97	100	99	104	110	100	104	98	100

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.



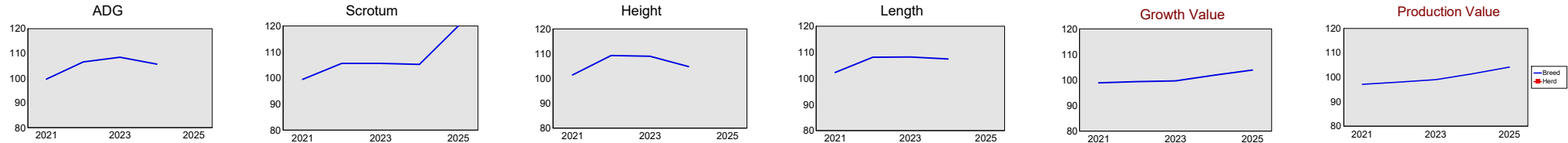
Herd

Birth Year	Calving Ease				Calf Growth			Milk		Maintenance				Fertility						Cow Value			
	Birth Weight		Dir	Mat	Calv. Ease	Weaning Weight		Calf Growth	Milk (Wn.Mat.)		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	
2021	11	0.09	-0.05	102											3	-19.2				8	21.9	106	
2022	8	0.12	-0.14	102																			
2023	6	-0.07	-0.06	106																			
2024	13	0.10	-0.15	103																			
2025	5	0.25	-0.11	99																			

Breed

Birth Year	Calving Ease				Calf Growth			Milk			Maintenance					Fertility							Cow Value
	Birth Weight		Calv. Ease	Weaning Weight	Calf Growth	Milk (Wn.Mat.)		Postwean Weight		Mature Weight		Maintenance	Heifer Fert.		Cow Fert.		Longevity		Ferti- lity				
	Number	Dir EBV				Mat EBV	Number	EBV	Number	EBV	Milk		Number	EBV	Number	EBV	Number	EBV		Number	EBV	Number	
2016	2062	0.06	-0.03	101	1340	2.9	101	1339	0.64	98	355	6.3	223	5	97	1339	-2.4	868	-1.9	10845	12.2	90	87
2017	1692	0.05	0.03	100	1223	3.5	102	1223	1.02	100	536	7.3	266	7	95	1431	-2.1	859	-1.9	8766	13.2	91	90
2018	1623	0.00	0.02	101	961	4.1	104	961	1.83	104	525	6.9	260	8	95	1317	-2.9	764	-2.0	7360	13.8	93	93
2019	1476	0.03	0.01	100	1204	3.3	102	1202	1.73	103	501	6.3	314	7	96	1273	-3.5	775	-2.6	6887	14.6	94	94
2020	1577	0.05	0.01	101	1147	3.7	103	1147	1.93	104	561	5.4	352	6	98	1269	-4.3	672	-2.5	6779	15.4	96	95
2021	1538	0.08	0.06	99	1397	3.4	102	1397	2.14	105	770	4.9	292	5	99	1218	-5.0	585	-2.9	6379	16.8	98	96
2022	1327	0.25	0.06	97	1681	4.4	105	1681	2.02	104	780	6.7	261	10	95	962	-4.7	240	-4.2	2616	17.4	101	97
2023	1221	0.08	0.12	100	1478	3.2	102	1478	1.87	104	509	6.2	62	12	97	379	-5.9	45	-5.3			106	99
2024	1380	0.08	0.12	99	1392	4.2	105	1392	1.90	104	510	7.3	1	-6	94	128	-6.5					110	102
2025	1033	0.14	0.10	99	1054	4.6	106	1052	1.82	103	173	12.0			84	7	-42.1					133	105
2026	191	0.05	0.02	102	23	7.6	114	23	3.11	109													109

Genetic Trends for Growth Test Traits



Herd

Birth Year	Growth						Frame						Selection Values	
	ADG			Scrotal Circumf.			Height			Length			Growth Value	Prod Value
	Number	EBV	EBVi	Number	EBV	EBVi	Number	EBV	EBVi	Number	EBV	EBVi		
2021														
2022														
2023														
2024														
2025														

Breed

Birth Year	Growth						Frame						Selection Values	
	ADG			Scrotal Circumf.			Height			Length			Growth Value	Prod Value
	Number	EBV	EBVi	Number	EBV	EBVi	Number	EBV	EBVi	Number	EBV	EBVi		
2016	61	31	109	66	6.6	107	61	10	115	61	15	114	92	89
2017	53	27	107	52	7.3	109	52	7	110	52	15	113	94	92
2018	78	28	107	78	7.5	110	78	6	108	78	10	107	98	95
2019	66	30	108	66	4.7	103	66	7	111	66	12	109	96	95
2020	78	21	104	77	3.9	100	78	4	105	78	8	103	98	96
2021	84	11	100	83	3.6	99	84	3	101	84	7	102	99	97
2022	171	26	107	95	5.9	106	162	7	109	162	11	108	99	98
2023	65	30	108	64	5.9	106	65	6	109	65	11	108	100	99
2024	64	24	106	63	5.8	105	64	4	105	64	11	107	102	101
2025				21	13.2	125							104	104

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	Scrotal Circ.	Heifer Fertility	Cow Fertility	Long- evity	Height	Length	Birth wt	Wean wt	Dgt/Calvs.	Grwth Test		
																												Dam ID	
BN 160309		KVN 090020	121	81	116	108	114			98	127	81	99	116	88	92	91	98	108	111	109	93	94	1	68	20	29		
BN 160309			61	73	73	42	48			62	-1.19	-4.2	0.07	4.7	-2.2	-2	-8	3.0	-12.9	-5.5	28.1	-2	0						
			61	73	73	42	48			62	61	73	60	73	42	42	19	21	44	33	68	22	21						
CS 060600			107	89	100	113	92			92	105	89	103	100	89	89			97	104	82				23	7	27		
CS060600			26	79	70	32	49			62	-0.14	-1.3	-0.02	0.9	-1.7	-6			-3.5	-3.8	13.3								
			26	79	70	32	49			62	25	79	28	70	20	32			42	17	88								
CS 080378		NRF 980053	105	90	125	101	80			85	107	90	88	125	93	96	108	96	92	81	88	101	100		45	8	15		
CS080378		CS 040369	41	81	73	51	71			55	-0.23	-0.9	0.40	6.9	0.0	1	30	2.3	0.5	1.6	16.7	3	5						
			41	81	73	51	71			55	43	81	33	73	30	51	28	33	80	46	88	35	33						
CS 100153		CS 060045	83	114	114	93	115			119	87	114	83	114	114	104	114	108	116	109	108	107	115			11	33		
CS100153		CS 040146	49	76	79	44	72			54	0.77	7.5	0.53	4.2	10.6	8	43	6.7	-19.2	-5.1	27.7	5	16						
			49	76	79	44	72			54	49	76	50	79	32	44	21	24	78	51	88	25	23						
DPN 130030		KW 030033	95	97	108	112	93			99	94	97	102	108	96	90	100	105	116	95	83	105	101			1	2		
DPN130030		A 050019	44	51	51	34	60			41	0.42	1.7	-0.01	2.9	1.5	-5	11	5.6	-19.4	-1.8	14.0	4	6						
			44	51	51	34	60			41	46	51	33	51	36	34	31	35	64	40	77	35	34						
FF 110263		LEB 000115	91	139	88	85	109			111	94	139	86	88	143	116	123	152	111	99	112	129	138		97	36	51		
RUSTY FF 11-263		FF 040016	62	93	85	61	73			61	0.43	16.2	0.46	-1.7	25.2	20	64	23.6	-15.4	-2.6	29.7	17	34						
			62	93	85	61	73			61	62	93	62	85	72	61	63	72	79	55	86	74	70						
FF 120031		JLS 060251	104	107	106	89	92			91	107	107	85	106	112	109	119	119	104	106	76	127	122						
DOKTER FF 12-31		FF 040036	53	75	59	45	60			48	-0.20	5.1	0.49	2.5	9.7	13	53	11.1	-9.9	-4.2	10.2	15	21						
			53	75	59	45	60			48	53	75	52	59	40	45	47	52	61	39	81	52	51						
GMD 070220		CS 040023	115	77	89	118	80			73	114	77	145	89	86	84	82	96	114	85	71	68	79		85	18	33	55	
GMD 070220		GMD 030042	94	88	86	60	83			64	-0.56	-5.5	-1.23	-1.6	-3.4	-10	-28	2.2	-17.8	0.6	7.5	-14	-10						
			94	88	86	60	83			64	95	88	90	86	60	60	38	43	90	65	95	43	42						
LEB 050540		LEB 010407	118	90	110	85		68	61	62	118	90	92	110	89	114	109	98	91	84	64	112	105		3	1	3	6	2
LEB 05 540		LEB 010014	69	61	56	26	73			46	-0.78	-0.9	0.27	3.4	-1.9	18	31	2.9	1.3	0.9	3.7	8	9						
			69	61	56	26	73			46	70	61	62	56	50	26	66	75	84	43	92	76	73						
LEB 170603		T 100315	106	79	115	122	99			104	101	79	121	115	78	77	79	82	101	104	92	88	79		99	129	10	19	7
LEB 170603		LEB 130402	90	91	74	47	59			54	0.06	-4.9	-0.54	4.4	-7.4	-16	-34	-3.2	-7.1	-3.9	19.0	-4	-11						
			90	91	74	47	59			54	93	91	74	74	78	47	62	69	69	38	71	70	68						
SS 110034		CS 060021	105	94	99	100	106			100	105	94	98	99	95	98	89	92	114	117	84	79	85			2	5		
SS 110034		SS 090017	53	52	54	37	55			40	-0.10	0.5	0.10	0.8	1.2	3	-13	0.9	-17.9	-6.9	14.6	-9	-6						
			53	52	54	37	55			40	53	52	51	54	37	37	25	32	56	31	79	30	29						

Sires

Bull			Selection Values								Calf		Dam		Growth			Fertility				Frame		Measured Progeny				
ID	Index EBV Acc	Sire ID Dam ID	Calv. Ease	Calf Grwth	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	Scrotal Circ.	Heifer Fertility	Cow Fertility	Long-evity	Height	Length	Birth wt	Wean wt	Dgt/Calvs.	Grwth Test	
			Value	Value																								
SW 150117		SW 040048 LEB 060122	109	88	101	104	59	57	69	61	109	88	98	101	84	95	82	82	64	66	82	79	88			3	3	
SW 150117			48	47	52	31	60	40	49	44	49	47	45	52	31	31	24	24	69	32	80	27	26					
T 100086		T 021201 T 040007	113	78	148	91	81	86	79	81	113	78	94	148	89	104	97	94	96	90	78	107	96	37	3	23	51	
T 100086			88	82	83	54	81	61	78	70	90	82	78	83	42	54	21	24	88	62	92	25	24					
T 120058		YZ 030009 T 040061	98	125	100	99	108	116	134	127	95	125	133	100	112	99	122	134	127	99	100	111	118	113	41	40	72	4
BIGGS T120058			93	92	87	59	81	64	83	74	95	92	86	87	70	59	46	54	92	59	92	56	53					
T 140012		T 090341 T 110005	104	102	82	116	59	61	85	72	103	102	103	82	97	87	91	96	59	75	75	99	94					
T 140012			38	41	40	21	54	33	41	37	38	41	39	40	22	21	18	21	55	29	77	21	20					
T 180100		T 120058 T 150122	112	105	98	103	111	111	113	113	107	105	118	98	99	96	108	112	114	101	111	105	108	22				
T 180100			62	49	44	30	46	35	45	40	66	49	43	44	36	30	23	27	48	31	59	28	27					
UCP 170071		UCP 100034 GJR 060036	101	105	69	108	96	87	94	90	98	105	109	69	96	94	91	108	76	98	108	82	84	10				
UCP170071			62	55	42	28	50	36	48	42	66	55	40	42	32	28	26	29	54	37	60	29	28					

Breeding Values and Accuracies: Bulls

Green: >120 High
White: 80-120 Average
Orange: <80 Low

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	Scrotal Circ.	Heifer Fertility	Cow Fertility	Longevity	Height	Length
	T 180100 87366910 T 180100		T 120058 T 150122	112 62	105 49	98 44	103 30	111 46	111 35	113 45	113 40	107 -0.24 66	118 -0.45 43	96 1 30	105 4.4 49	98 0.5 44	104 26 41	99 3.3 36	108 28 23	112 8.4 27	114 -17.8 48	101 -3.0 31	111 29.2 59	105 4 28	108 11 27
	RKN 210001 92195577 NANDO		T 180125	102 30	104 26	95 24	99 17	88 25		95 24		97 0.27 30	120 -0.50 30	99 4 17	104 3.9 26	95 -0.2 24	98 14 22	99 3.2 20	105 22 14	106 6.2 17	106 -11.0 28	100 -2.8 18	75 9.5 30	105 4 17	108 11 16
	RKN 210021 92786441 RKN 210021	1	T 100086 MII 180133	113 49	83 43	126 44	97 28	96 45	96 33	87 42	90 38	112 -0.48 50	98 0.12 44	100 5 28	83 -3.5 43	126 7.0 44	107 35 38	90 -1.5 22	93 -4 10	92 0.7 13	103 -8.8 49	100 -3.0 32	91 18.2 54	96 0 13	91 -2 12
	RKN 220020 94609294 ROGER		T 180100 BBC 180133	99 59	107 32	100 28	99 20	109 31	109 24	112 30	111 27	98 0.24 64	105 -0.10 37	99 4 20	107 5.1 32	100 1.1 28	106 31 27	104 6.0 20	108 29 16	108 6.7 19	113 -16.8 32	106 -4.3 20	103 24.7 40	108 6 19	109 12 18
	RKN 230006 95373031 EUGENE		T 180100 RVS 180244	116 58	106 43	99 35	102 25	106 33	108 28	113 37	111 32	114 -0.58 62	104 -0.05 37	97 2 25	106 4.8 43	99 0.8 35	105 30 34	108 7.9 30	108 28 19	124 12.9 22	111 -15.6 34	95 -1.6 23	111 29.1 41	109 6 23	113 14 22
	RKN 240008 97545263 WALLY	13	T 180100 RKN 210014	100 60	110 33	99 28	106 13	111 27	115 21	121 28	119 24	96 0.33 65	117 -0.43 33	95 0 13	110 6.2 33	99 0.7 28	109 38 25	105 6.0 7		119 -22.3 36	100 -2.8 7	110 28.6 38			
	RKN 240010 97755003 TANDO		UCP 170071 T 180125	98 59	111 38	83 32	100 21	99 35	95 27	105 34	100 30	94 0.43 64	118 -0.47 36	99 4 21	111 6.6 38	83 -3.1 32	94 5 30	103 5.1 24	104 20 19	114 9.2 21	94 -1.6 38	100 -2.9 25	102 24.1 43	97 0 22	101 6 21
	RKN 240013 97955751 SELLO		T 180100 MII 180133	115 57	95 29	100 27	103 19	111 30	108 22	104 28	106 25	112 -0.48 63	109 -0.19 30	96 1 19	95 1.0 29	100 1.0 27	98 14 25	94 0.6 20	98 8 13	101 4.1 15	112 -16.1 32	106 -4.2 19	107 27.2 40	95 -1 16	97 3 15
	TU 240008 97848527 TU 240008		TU 180024	93 64	99 37	95 33	115 17	88 23	91 22	101 30	96 26	88 0.70 70	120 -0.51 34	87 -7 17	99 2.3 37	95 -0.1 33	101 21 29	94 0.6 20	91 -7 5	91 0.2 5	103 -9.0 28	96 -1.8 15	79 12.1 27	94 -1 5	94 1 5
	RKN 250002 98152267 CAREL	1	UCP 170071 RVS 180244	100 58	110 45	84 34	104 23	99 34	96 28	107 38	102 33	100 0.14 63	101 0.02 36	96 1 23	110 6.1 45	84 -2.6 34	96 9 34	109 8.3 29	99 10 20	122 12.1 22	92 0.1 36	93 -1.4 25	109 28.2 42	97 1 23	100 5 22

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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	Scrotal Circ.	Heifer Fertility	Cow Fertility	Longevity	Height	Length
ID Number Name																								
ANS 180054		GMD 070220	67	114	99	114	98	107	122	115	52	103	88	114	99	116	114	90	97	110	96	95	86	89
87606521		ANS 110067	77	48	50	31	51	38	47	42	2.50	-0.03	-6	7.5	0.7	54	10.6	-10	2.5	-14.4	-1.9	20.4	-5	-3
ANS 180054											78	70	31	48	50	43	32	21	24	55	37	60	24	23
BBC 180133		FF 120031	105	103	103	95	107	105	104	104	106	89	102	103	103	103	105	108	103	112	112	94	111	110
87382057		WT 140098	56	40	33	24	42	29	38	34	-0.20	0.37	7	3.6	1.7	25	6.3	29	5.0	-15.9	-5.6	20.1	8	12
BBC 180133											55	60	24	40	33	32	22	24	26	42	26	57	27	26
BBC 180258		T 140012	106	97	92	110	78		88		105	105	92	97	92	94	94	92	93	77	81	91	102	98
87925061		BBC 150142	54	20	20	11	31		23		-0.10	-0.08	-2	1.4	-0.8	4	0.9	-5	1.2	12.5	1.5	18.5	3	4
BBC 180258											53	57	11	20	20	17	11	9	10	27	14	52	10	10
CS 180018		CS 080378	98	103	103	99	119	118	114	116	99	96	99	103	103	105	102	105	100	145	110	100	96	100
86999398		CS 100172	56	54	54	36	52	40	51	46	0.18	0.18	4	3.7	1.8	30	4.6	24	3.9	-43.6	-5.1	23.1	0	5
RAKA CS180018											56	58	36	54	54	48	25	17	20	62	33	61	21	20
CS 180081		CS 080060	78	106	100	111	88	93	107	101	79	98	91	106	100	109	103	95	96	101	85	93	92	97
87298535			56	38	34	27	36	28	36	32	1.17	0.12	-4	4.8	1.1	39	5.0	2	2.2	-6.9	0.5	19.4	-2	3
ROXETTE CS180081											55	59	27	38	34	33	23	14	16	34	26	48	16	15
CS 180155		CS 060600	97	98	96	108	119	117	110	113	97	97	93	98	96	98	98	90	97	112	119	108	89	91
87383345		CS 140034	54	55	51	30	42	35	47	41	0.27	0.14	-1	1.9	0.2	14	2.9	-11	2.5	-16.4	-7.3	27.4	-4	-1
ANITA CS180155											53	57	30	55	51	45	24	9	12	39	27	60	12	11
CS 180176		CS 100153	109	95	103	108	137	136	118	127	110	93	93	95	103	101	96	98	94	124	139	113	98	99
87383535		CS 120065	56	52	50	30	53	38	49	44	-0.36	0.25	-2	0.7	1.7	20	1.9	8	1.3	-26.3	-12.0	29.9	1	5
ESCOURT CS180176											55	59	30	52	50	44	24	14	16	58	38	62	16	16
CS 180241	13	CS 100153	95	106	101	97	126	123	118	121	98	86	101	106	101	105	106			110	122	117		
87480091		CS 120659	58	50	52	19	50	36	46	41	0.23	0.46	6	4.8	1.3	30	6.8		-14.7	-8.1	32.6			
AMELIA CS180241											57	61	19	50	52	40	10		58	30	61			
DPN 180023		DPN 130030	99	98	106	100	130	127	116	121	99	99	98	98	106	104	97	101	101	141	122	107	105	103
86897352		DPN 150100	26	30	29	19	47	27	32	30	0.16	0.08	3	2.1	2.4	28	2.4	14	4.0	-40.2	-8.0	27.1	5	7
DPN180023											27	20	19	30	29	26	20	16	18	57	29	54	18	17
MII 180133		SS 110034	113	88	103	104	111	106	96	100	112	101	95	88	103	94	90	89	90	110	111	104	85	87
88194402		MII 150052	42	30	31	20	40	26	32	29	-0.45	0.03	0	-1.6	1.6	5	-1.3	-13	-0.1	-14.3	-5.4	25.1	-6	-5
MII 180133											41	44	20	30	31	27	20	13	17	42	23	55	16	15
MII 180214		LEB 050540	107	99	104	95	85	82	88	84	108	92	103	99	104	100	96	102	101	88	89	91	108	99
88194220		MII 110209	55	38	35	21	48	31	38	34	-0.26	0.28	8	2.2	1.9	19	1.5	15	4.0	4.0	-0.3	18.2	6	4
MII 180214											55	57	21	38	35	31	31	37	41	52	30	61	42	40
RVS 180231	1	FF 110263	108	110	89	95	99	95	102	98	109	90	104	110	89	96	117	100	131	109	93	100	103	108
87552907		RVS 130018	60	70	54	34	48	41	56	48	-0.35	0.34	8	6.2	-1.6	11	12.4	12	15.8	-13.7	-1.4	23.1	4	11
HELP SW											60	62	34	70	54	53	47	32	36	50	37	58	37	35

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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	Scrotal Circ.	Heifer Fertility	Cow Fertility	Longevity	Height	Length
T 180125 87370631 T 180125		T 120058 T 150270	106 61	113 52	96 47	95 33	103 50	103 37	111 48	107 42	101 0.07 61	126 -0.67 60	103 8 33	113 7.2 52	96 0.2 47	105 30 44	107 7.0 38	117 49 28	120 11.4 33	113 -17.0 56	102 -3.3 35	96 21.0 60	112 8 34	118 18 32
SW 190039 90638057 SW190039		SW 150117 SW 100039	99 56	92 33	98 35	98 22	88 47	81 30	82 36	80 33	99 0.15 55	94 0.22 59	100 5 22	92 -0.2 33	98 0.6 35	91 -1 30	90 -1.2 22	86 -20 16	85 -2.0 17	99 -5.7 57	85 0.6 25	95 20.2 58	87 -4 18	90 -3 18
RKN 210014 92785047 RKN 210014		T 120058 ANS 180054	85 74	116 52	99 50	108 34	112 51	119 39	129 49	125 44	82 1.03 76	117 -0.43 61	93 -1 34	116 8.3 52	99 0.9 50	116 52 45	111 9.1 38	106 25 25	115 9.6 30	125 -26.7 60	99 -2.7 35	109 28.0 58	98 1 30	103 8 29
RKN 210015 92785054 RKN 210015		T 120058 BBC 180133	111 70	111 50	102 46	97 33	115 49	117 37	120 47	120 42	108 -0.29 73	108 -0.18 58	101 5 33	111 6.5 50	102 1.5 46	110 40 43	107 7.3 36	115 45 26	118 10.8 30	123 -25.1 57	106 -4.3 32	109 27.9 57	111 8 31	114 16 29
BN 220731 93453538 BN 220731		BN 160309 CSN090137N	110 33	94 61	119 48	98 21	110 41	112 34	106 46	109 40	111 -0.44 33	89 0.37 32	99 4 21	94 0.5 61	119 5.4 48	111 43 43	100 3.7 22	102 15 13	107 6.5 15	113 -16.7 50	107 -4.6 22	104 25.1 50	100 2 15	103 8 14
RKN 220013 94609302 RINA		T 180100 ANS 180054	83 63	109 34	98 33	110 22	104 34	109 26	117 33	114 30	81 1.04 67	110 -0.23 41	92 -3 22	109 5.7 34	98 0.6 33	109 39 30	106 6.7 24	99 9 15	104 5.5 18	112 -16.1 36	98 -2.5 24	103 24.8 42	95 0 18	98 4 17
RKN 220018 94609278 TESS	13	T 180100 T 180125	125 59	103 33	97 27	98 13	107 27	105 21	106 28	106 24	120 -0.87 64	118 -0.46 33	100 4 13	103 3.7 33	97 0.3 27	100 18 24	99 3.1 7		113 -17.4 34	101 -3.2 8	104 25.1 39			
RKN 220019 94609286 SPIKKELS		UCP 170071 BBC 180258	105 59	100 29	81 23	109 15	87 30	82 21	90 27	85 24	103 -0.05 64	106 -0.12 35	93 -1 15	100 2.7 29	81 -3.5 23	86 -13 22	94 1.0 16	92 -7 14	101 4.1 15	77 13.1 30	90 -0.5 20	99 22.9 39	92 -2 15	91 -2 15
RKN 220021 95216040 SIMONE		T 180100 CS 180018	95 58	108 37	101 35	101 24	116 34	116 27	118 35	118 31	93 0.45 63	109 -0.20 36	97 2 24	108 5.3 37	101 1.1 35	107 34 32	103 5.2 22	106 26 14	106 6.1 17	133 -33.6 39	105 -4.1 22	106 26.1 42	100 2 17	104 8 16
RKN 220022 95216057 NATALIA		T 180100 CS 180241	108 59	104 35	100 34	100 18	118 34	116 26	114 33	116 30	107 -0.22 64	101 0.03 37	98 3 18	104 4.0 35	100 0.9 34	103 25 29	102 4.5 16		112 -16.3 38	111 -5.5 21	114 30.9 42			
RKN 230001 95215968 ELLA		T 180100 MII 180133	112 38	96 29	100 27	103 19	111 30	109 22	105 28	106 25	109 -0.34 40	109 -0.21 30	96 1 19	96 1.4 29	100 1.0 27	99 16 25	95 1.0 20	98 8 13	101 4.1 15	112 -16.1 32	106 -4.2 19	107 27.2 40	95 -1 16	97 3 15
RKN 230007 95373015 HELENE		T 180100 RVS 180231	110 58	108 43	93 35	98 23	105 33	103 27	108 37	105 32	108 -0.26 62	104 -0.06 38	100 5 23	108 5.4 43	93 -0.5 35	100 19 34	108 7.9 30	104 20 19	122 12.1 22	111 -15.7 35	97 -2.2 24	105 26.1 41	104 4 23	108 11 22

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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	Scrotal Circ.	Heifer Fertility	Cow Fertility	Longevity	Height	Length
ID Number Name																									
RKN 230008 95373049 GENEVEVE		T 180100 MII 180214		109 58	102 31	101 28	98 19	98 33	96 24	101 30	98 27	107 -0.21 62	105 -0.09 36	100 4 19	102 3.4 31	101 1.2 28	102 23 26	98 2.5 24	105 22 22	106 6.2 25	101 -6.9 35	95 -1.7 22	101 23.7 42	106 5 25	103 8 24
RKN 230012 96998414 CHRISTELLE		T 180100 DPN 180023		106 34	102 29	102 27	101 18	120 33	119 22	115 28	117 25	103 -0.04 36	108 -0.19 24	97 2 18	102 3.2 29	102 1.5 27	104 27 25	98 2.8 20	104 21 14	106 6.2 16	127 -29.0 37	111 -5.5 21	109 28.2 40	105 5 17	106 9 16
BN 240880 98402597 BN 240880		LEB 170603 BN 220731		108 48	86 55	117 44	113 26	104 36	109 32	103 43	106 38	106 -0.19 50	105 -0.09 40	88 -6 26	86 -2.2 55	117 4.9 44	109 38 42	89 -1.9 40	90 -9 32	94 1.7 35	107 -11.9 43	106 -4.2 22	98 22.0 43	94 -1 36	91 -2 34
RKN 240004 97271043 RKN 240004		T 180100 CS 180176		111 53	100 36	100 33	106 22	124 35	124 26	116 34	120 30	109 -0.31 57	105 -0.10 36	94 0 22	100 2.5 36	100 1.1 33	102 23 30	98 2.6 22	103 18 13	103 4.9 16	119 -22.1 38	120 -7.5 24	112 29.6 42	101 3 16	104 8 15
RKN 240005 97398325 VLEKKIE		T 180100 BBC 180258		114 58	99 26	95 24	107 16	94 28	94 20	99 26	96 23	110 -0.39 62	110 -0.24 36	94 -1 16	99 2.3 26	95 -0.1 24	97 12 22	96 1.5 19	100 12 12	103 4.8 15	96 -2.6 27	91 -0.8 17	101 23.8 39	103 4 15	103 7 14
RKN 240006 97545172 SUZIE		UCP 170071 SW 190039		99 59	99 32	83 27	102 17	92 34	83 24	88 30	85 27	99 0.19 64	101 0.01 36	97 2 17	99 2.1 32	83 -2.8 27	85 -14 25	93 0.2 19	88 -14 15	97 2.5 16	88 4.0 39	92 -1.0 22	101 23.8 42	84 -6 17	87 -5 16
RKN 240007 97545180 DEIRDRE		T 180100 CS 180081		91 58	107 31	99 28	108 21	99 29	103 23	112 29	108 26	89 0.66 62	109 -0.19 37	93 -1 21	107 5.1 31	99 0.8 28	108 35 27	102 4.7 20	101 15 13	104 5.3 16	107 -12.4 29	93 -1.2 20	102 24.3 38	98 1 16	103 7 15
RKN 240011 97955769 SOPHY		T 180100 CS 180241		108 59	104 35	100 34	100 18	118 34	116 26	114 33	115 30	107 -0.23 64	101 0.03 37	98 3 18	104 4.0 35	100 0.9 34	103 25 29	101 4.5 16			112 -16.3 38	111 -5.5 21	114 30.9 42		
RKN 240012 97955777 ADRI		T 180100 BBC 180133		108 59	104 32	100 28	99 20	109 31	108 24	109 30	109 27	106 -0.19 64	103 -0.05 37	99 4 20	104 4.0 32	100 1.1 28	103 26 27	102 4.9 20	108 29 16	108 6.7 19	113 -16.8 32	106 -4.3 20	103 24.7 40	108 6 19	109 12 18
RKN 240014 98152259 NELLIE	1	UCP 170071 RVS 180231		106 59	107 45	79 34	100 21	97 35	90 28	98 37	93 32	105 -0.15 64	99 0.08 37	99 4 21	107 5.1 45	79 -3.9 34	87 -9 33	106 6.8 28	96 2 20	120 11.3 23	92 0.1 37	96 -1.9 26	104 25.2 42	92 -2 23	96 2 22
RKN 250001 98152275 KARIEN		UCP 170071 RKN 210015		104 60	109 37	85 31	102 21	106 35	102 26	108 34	105 30	102 0.03 65	109 -0.20 35	97 2 21	109 5.6 37	85 -2.4 31	95 7 30	102 4.6 24	103 18 18	113 8.9 20	99 -5.6 39	102 -3.4 24	108 27.6 42	96 0 21	99 4 20
RKN 250006 99742066 ELISABETH		T 180100 ANS 180054		87 58	107 34	98 33	110 22	104 34	108 26	116 33	112 30	86 0.83 62	109 -0.20 41	92 -3 22	107 5.1 34	98 0.6 33	108 36 30	105 6.1 24	99 9 15	104 5.5 18	112 -16.1 36	98 -2.5 24	103 24.8 42	95 0 18	98 4 17

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Index EBV Acc	ID Number Name	% Inbreeding Sire ID Dam ID	Calv. Ease V	Calv 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	Scrotal Circ.	Heifer Fertility	Cow Fertility	Longevity	Height	Length	
RKN 250007	T 180100		103	99	98	100	99	96	98	97	101	106	98	99	98	98	95	97	98	107	93	103	96	99	
6020317662	SW 190039		53	29	28	19	32	23	29	26	0.05	-0.13	3	2.3	0.6	14	1.3	4	3.2	-11.7	-1.2	24.7	0	4	
CHRISU											57	36	19	29	28	25	20	14	16	37	19	40	17	16	
RKN 250008	T 180100		99	107	100	100	118	117	117	118	98	103	98	107	100	106	104			112	111	114			
6020317670	CS 180241		55	35	34	18	34	25	32	28	0.21	-0.02	3	5.1	0.9	31	5.6		-16.3	-5.5	30.9				
AMALIA											59	37	18	35	34	29	16			38	21	42			

Selection List on Cow Value

Bulls 2 years and older

ID Sorted on ID	Name	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	RKN 240008	WALLY	T 180100	RKN 210014	12.6	100 60	110 33	99 28	106 13	111 27	115 21	121 28	119 24
2	T 180100	T 180100	T 120058	T 150122	0.0	112 62	105 49	98 44	103 30	111 46	111 35	113 45	113 40
					★★★★								
1	RKN 220020	ROGER	T 180100	BBC 180133	0.1	99 59	107 32	100 28	99 20	109 31	109 24	112 30	111 27
2	RKN 230006	EUGENE	T 180100	RVS 180244	0.3	116 58	106 43	99 35	102 25	106 33	108 28	113 37	111 32
3	RKN 240013	SELLO	T 180100	MII 180133	0.1	115 57	95 29	100 27	103 19	111 30	108 22	104 28	106 25
					★★★★☆								
1	RKN 210021	RKN 210021	T 100086	MII 180133	1.0	113 49	83 43	126 44	97 28	96 45	96 33	87 42	90 38
2	RKN 240010	TANDO	UCP 170071	T 180125	0.2	98 59	111 38	83 32	100 21	99 35	95 27	105 34	100 30
3	TU 240008	TU 240008		TU 180024	0.0	93 64	99 37	95 33	115 17	88 23	91 22	101 30	96 26

Selection List on Cow Value

Cows 2 years and older

ID Sorted on ID	Name	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	CS 180176	ESCOURT CS180176	CS 100153	CS 120065	0.3	109 56	95 52	103 50	108 30	137 53	136 38	118 49	127 44
					★★★★★								
1	CS 180241	AMELIA CS180241	CS 100153	CS 120659	13.4	95 58	106 50	101 52	97 19	126 50	123 36	118 46	121 41
2	DPN 180023	DPN180023	DPN 130030	DPN 150100	0.0	99 26	98 30	106 29	100 19	130 47	127 27	116 32	121 30
3	RKN 240004	RKN 240004	T 180100	CS 180176	0.1	111 53	100 36	100 33	106 22	124 35	124 26	116 34	120 30
					★★★★★								
1	BN 220731	BN 220731	BN 160309	CSN090137N	0.0	110 33	94 61	119 48	98 21	110 41	112 34	106 46	109 40
2	CS 180018	RAKA CS180018	CS 080378	CS 100172	0.0	98 56	103 54	103 54	99 36	119 52	118 40	114 51	116 46
3	CS 180155	ANITA CS180155	CS 060600	CS 140034	0.0	97 54	98 55	96 51	108 30	119 42	117 35	110 47	113 41
4	RKN 210014	RKN 210014	T 120058	ANS 180054	0.0	85 74	116 52	99 50	108 34	112 51	119 39	129 49	125 44
5	RKN 210015	RKN 210015	T 120058	BBC 180133	0.0	111 70	111 50	102 46	97 33	115 49	117 37	120 47	120 42
6	RKN 220021	SIMONE	T 180100	CS 180018	0.0	95 58	108 37	101 35	101 24	116 34	116 27	118 35	118 31
7	RKN 220022	NATALIA	T 180100	CS 180241	0.1	108 59	104 35	100 34	100 18	118 34	116 26	114 33	116 30
8	RKN 230012	CHRISTELLE	T 180100	DPN 180023	0.0	106 34	102 29	102 27	101 18	120 33	119 22	115 28	117 25
9	RKN 240011	SOPHY	T 180100	CS 180241	0.1	108 59	104 35	100 34	100 18	118 34	116 26	114 33	115 30
					★★★★								
1	ANS 180054	ANS 180054	GMD 070220	ANS 110067	0.0	67 77	114 48	99 50	114 31	98 51	107 38	122 47	115 42
2	BBC 180133	BBC 180133	FF 120031	WT 140098	0.0	105 56	103 40	103 33	95 24	107 42	105 29	104 38	104 34
3	BN 240880	BN 240880	LEB 170603	BN 220731	0.0	108 48	86 55	117 44	113 26	104 36	109 32	103 43	106 38
4	MII 180133	MII 180133	SS 110034	MII 150052	0.1	113 42	88 30	103 31	104 20	111 40	106 26	96 32	100 29
5	RKN 220013	RINA	T 180100	ANS 180054	0.2	83 63	109 34	98 33	110 22	104 34	109 26	117 33	114 30
6	RKN 220018	TESS	T 180100	T 180125	12.6	125 59	103 33	97 27	98 13	107 27	105 21	106 28	106 24
7	RKN 230001	ELLA	T 180100	MII 180133	0.1	112 38	96 29	100 27	103 19	111 30	109 22	105 28	106 25
8	RKN 230007	HELENE	T 180100	RVS 180231	0.3	110 58	108 43	93 35	98 23	105 33	103 27	108 37	105 32

Selection List on Cow Value

Cows 2 years and older

ID Sorted on ID	Name	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	
					★★★★								
9	RKN 240007 DEIRDRE	T 180100	CS 180081	0.0	91 58	107 31	99 28	108 21	99 29	103 23	112 29	108 26	
10	RKN 240012 ADRI	T 180100	BBC 180133	0.1	108 59	104 32	100 28	99 20	109 31	108 24	109 30	109 27	
11	T 180125 T 180125	T 120058	T 150270	0.0	106 61	113 52	96 47	95 33	103 50	103 37	111 48	107 42	
					★★★★☆								
1	CS 180081 ROXETTE CS180081		CS 080060	0.0	78 56	106 38	100 34	111 27	88 36	93 28	107 36	101 32	
2	RKN 230008 GENEVEVE	T 180100	MII 180214	0.0	109 58	102 31	101 28	98 19	98 33	96 24	101 30	98 27	
3	RKN 240005 VLEKKIE	T 180100	BBC 180258	0.0	114 58	99 26	95 24	107 16	94 28	94 20	99 26	96 23	
4	RKN 240014 NELLIE	UCP 170071	RVS 180231	0.7	106 59	107 45	79 34	100 21	97 35	90 28	98 37	93 32	
5	RVS 180231 HELP SW	FF 110263	RVS 130018	0.6	108 60	110 70	89 54	95 34	99 48	95 41	102 56	98 48	
					★★★								
1	MII 180214 MII 180214	LEB 050540	MII 110209	0.0	107 55	99 38	104 35	95 21	85 48	82 31	88 38	84 34	
2	RKN 220019 SPIKKELS	UCP 170071	BBC 180258	0.1	105 59	100 29	81 23	109 15	87 30	82 21	90 27	85 24	
3	RKN 240006 SUZIE	UCP 170071	SW 190039	0.1	99 59	99 32	83 27	102 17	92 34	83 24	88 30	85 27	
4	SW 190039 SW190039	SW 150117	SW 100039	0.0	99 56	92 33	98 35	98 22	88 47	81 30	82 36	80 33	

Selection List on Cow Value

Bull Calves younger than 2 years

ID Name 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	RKN 250002	CAREL	UCP 170071	RVS 180244	0.6	10058	11045	8434	10423	9934	9628	10738	10233	

Selection List on Cow Value

Heifers younger than 2 years

ID Sorted on ID	Name	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	RKN 250008	AMALIA	T 180100 CS 180241	0.1	99 55	107 35	100 34	100 18	118 34	117 25	117 32	118 28
					★★★★							
1	RKN 250001	KARIEN	UCP 170071 RKN 210015	0.3	104 60	109 37	85 31	102 21	106 35	102 26	108 34	105 30
2	RKN 250006	ELISABETH	T 180100 ANS 180054	0.2	87 58	107 34	98 33	110 22	104 34	108 26	116 33	112 30
					★★★★☆							
1	RKN 250007	CHRISU	T 180100 SW 190039	0.0	103 53	99 29	98 28	100 19	99 32	96 23	98 29	97 26

	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.

