

NGUNI

BREEDING VALUE REPORT

September 2026



QHINA NGUNIS

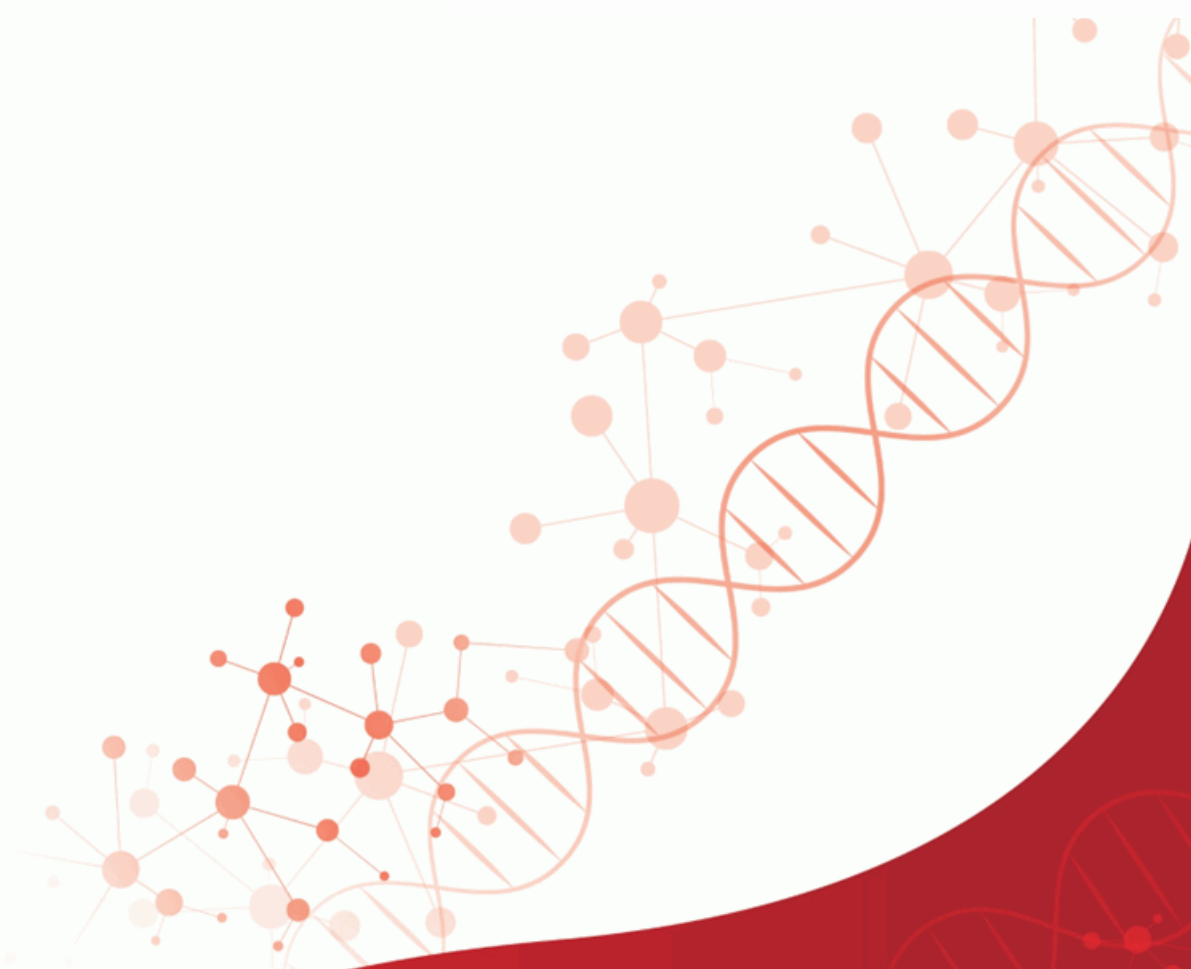
Herd Number: 561232

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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.

Selection Values

LOGIX Cow Value



Selecting for:

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

LOGIX Growth Value



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

LOGIX Production Value



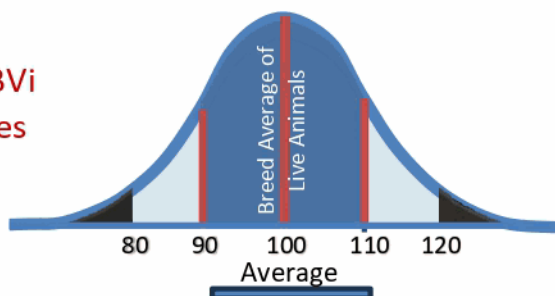
80% LOGIX Cow Value +
20% LOGIX Growth Value

LOGIX Carcass Value

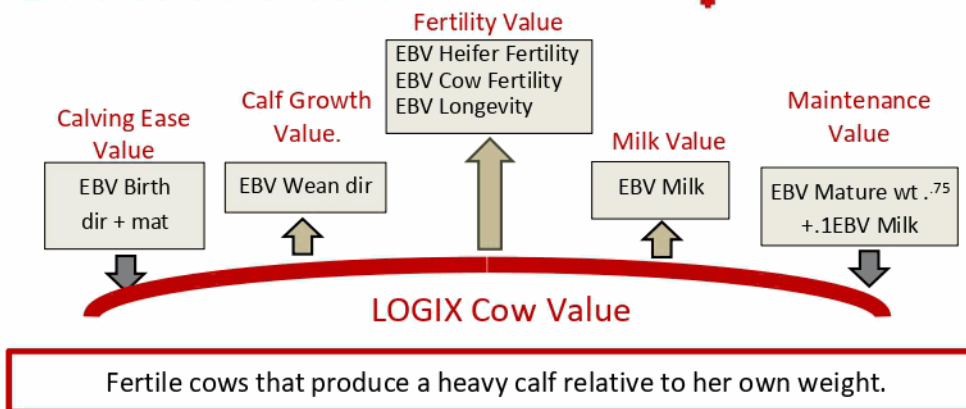


Select for more meat on the carcass as measured from end weight in Phase C and D Growth Tests and RTU scanning.

Interpretation of EBVi and Selection Values



LOGIX Cow Value



How to use the Cow Value

Selection values should be compatible with your selection goal.

AVERAGE ANIMALS

(NO GROWTH EXTREMES)

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

GROWERS

(GOOD ENVIRONMENT)

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

LOW- MAINTENANCE ANIMALS

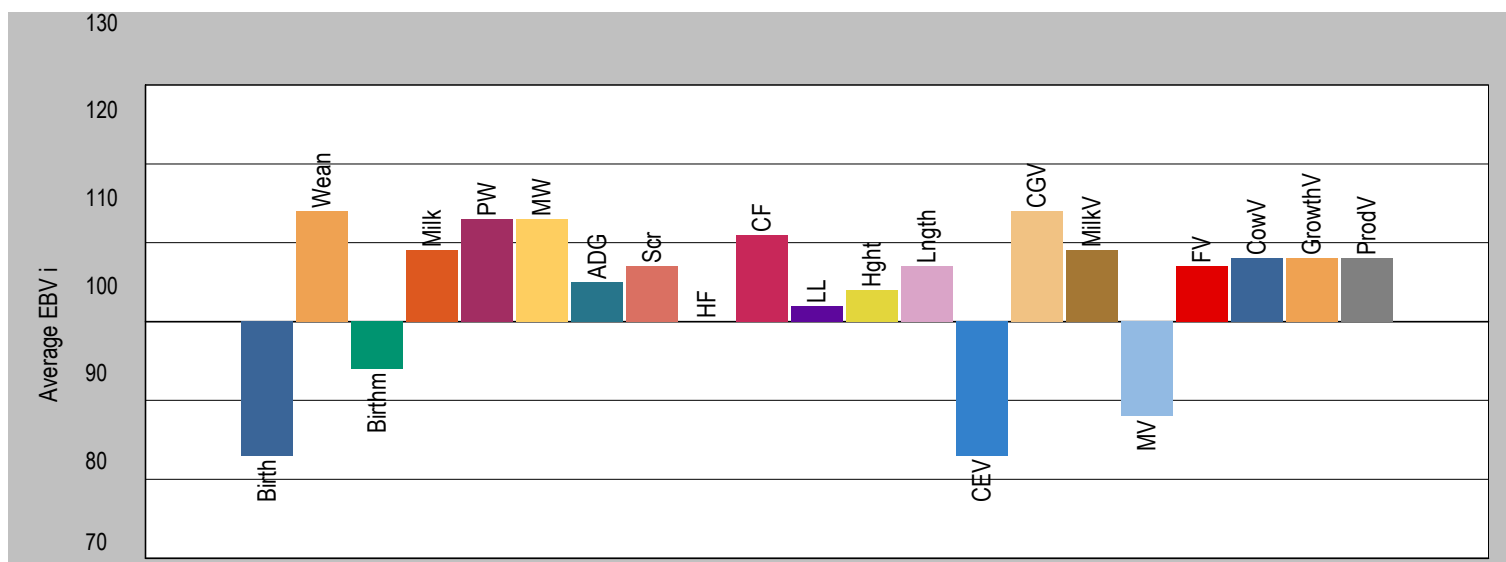
(HARSH ENVIRONMENT)

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

Examples

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

Herd and Breed Averages



Breeding Values:

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

Selection Values:

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

	Trait	EBV Herd	EBV Index	EBV Breed
Prewean Growth	Birth Weight	0.98	83	0.12
	Wean Weight	7.7	114	2.6
	Birth Mat.	0.21	94	0.05
	Milk (Wn.Mat.)	3.2	109	1.0
Postwean Growth	Postwean Wt	10.1	113	3.7
	Mature Weight	16	113	5
	ADG	23	105	12
Fertility	Scrotal Circumf.	6.3	107	3.8
	Heifer Fertility	-6.3	100	-6.2
	Cow Fertility	-5.4	111	-2.9
	Longevity	24.1	102	23.2
Frame	Height	4	104	2
	Length	10	107	5

Selection Value	Ave. Herd
Calving Ease	83
Calf Growth	114
Milk	109
Maintenance	88
Fertility	107
Cow Value	108
Growth Value	108
Production Value	108

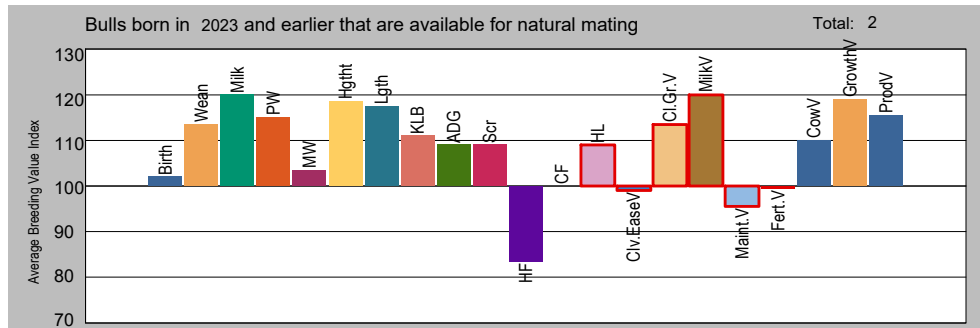
- Average of live animals in the breed: 100
- Above 100: **more favourable**,
- Below 100: **less favourable**

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

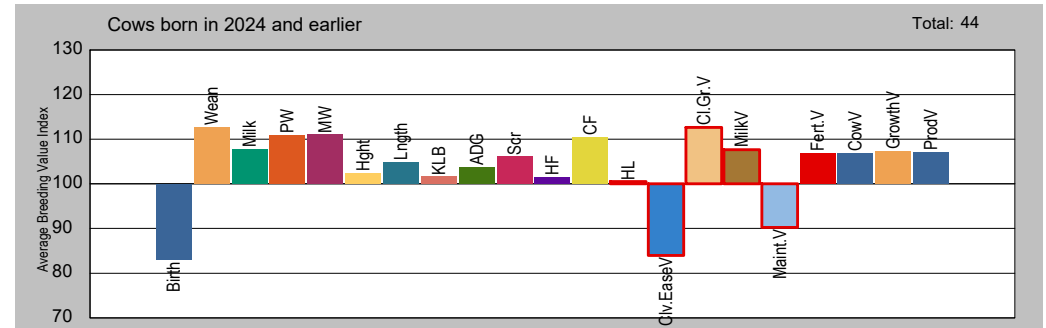
Genetic Windows

Bulls on the farm



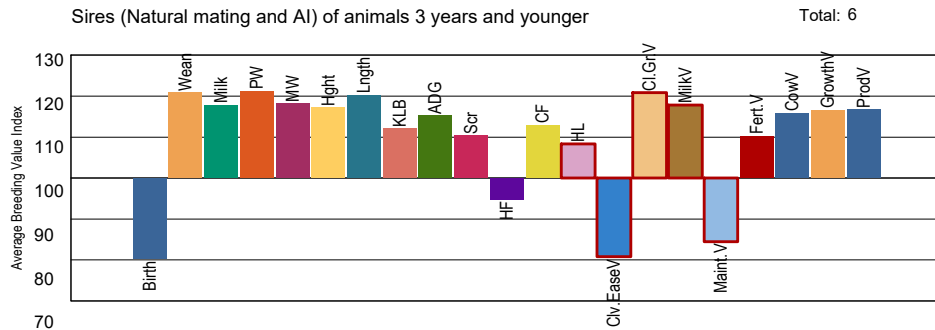
Animals available for breeding

Cow Herd

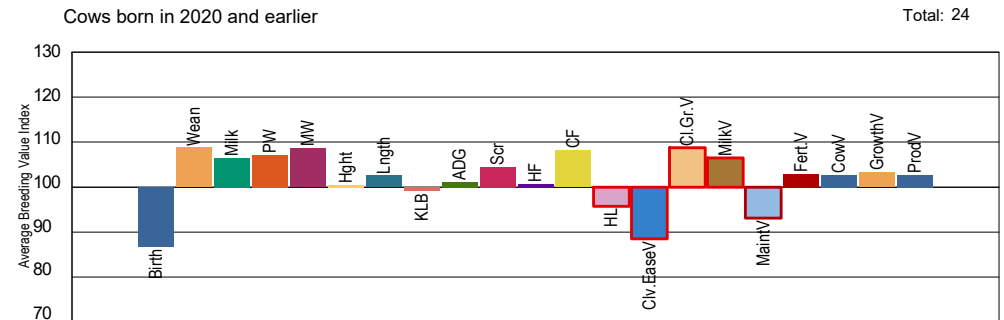


Results of previous selection decisions

Sires of young animals

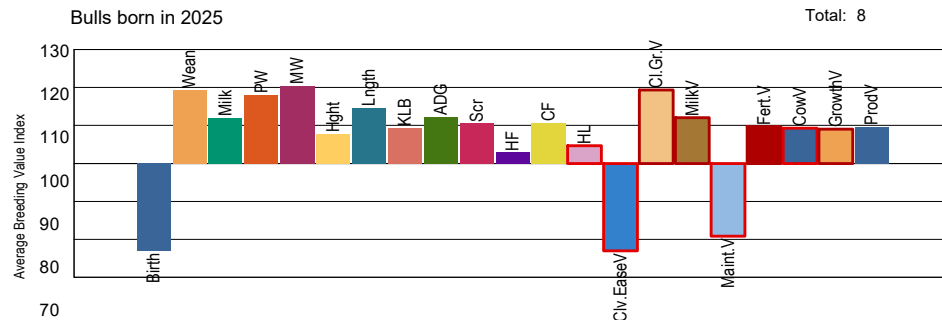


Cows older than 6 years

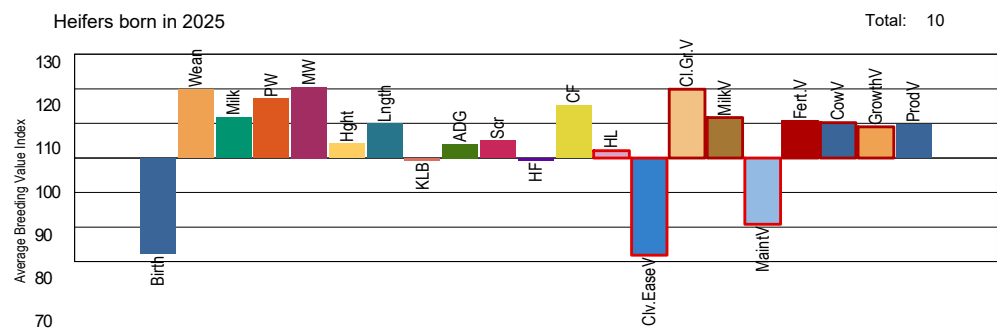


Selection possibilities

Bull calves



Heifer calves

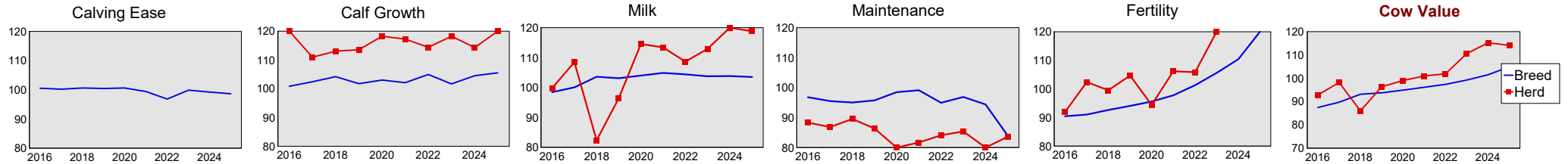


Summary of Cow Herd

			Selection Values (SV)							Calf Weight		Dam		Growth & Efficiency				Fertility				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	99	99	99	99	99	99
2008	4	★★★★☆	90	105	111	89	107	105	100	102	87	105	112	111	107	112	103	102	93	115	107	97	107	106
2009	7	★★★★☆	93	108	113	93	97	101	105	102	93	108	83	113	107	107	103	101	110	99	101	94	101	102
2010	2	★★★★☆	102	103	92	117	104	107	114	111	99	103	107	92	101	86	97	101	101	93	113	96	96	91
2011	4	★★★★☆	81	110	106	88	112	108	100	104	79	110	109	106	108	117	103	100	100	110	121	92	107	108
2012	2	★★★★	103	106	119	98	82	91	104	98	106	106	82	119	110	101	105	103	105	82	85	94	96	104
2013	1	★★★☆☆	82	113	74	88	104	89	90	88	84	113	96	74	107	113	74	66	106	104	110	93	75	83
2014	1	★★★★★	66	117	119	75	118	116	105	110	54	117	98	119	113	128	116	111	112	105	133	95	120	123
2016	1	★★★★☆	106	101	81	124	106	107	116	112	102	101	115	81	94	78	93	98	130	113	99	104	76	83
2019	1	★★★★★	65	115	106	86	113	110	108	109	60	115	94	106	108	114	91	85	101	90	121	108	93	100
2020	1	★★★★	66	128	93	72	102	93	92	92	56	128	98	93	117	136				64	117	105		
2021	2	★★★★★☆☆	64	132	116	79	128	129	127	129	59	132	88	116	130	124	124	115	113	118	129	110	123	135
2022	7	★★★★☆	92	109	107	92	107	107	108	108	94	109	92	107	108	107	106	108	109	97	108	107	103	103
2023	3	★★★★★☆☆	80	115	104	99	119	122	125	124	81	115	91	104	114	101	100	98	106	113	115	111	103	102
2024	8	★★★★☆	69	122	111	79	109	108	107	107	69	122	92	111	119	124	110	105	108	99	114	103	105	114
2025	10	★★★★★	72	120	112	81	111	110	109	110	72	120	91	112	117	121	104	99	105	99	115	102	104	110
2026	6	★★★★☆	92	113	111	89	107	108	109	109	91	113	96	111	112	112	108	107	109	94	110	105	109	107
Cows in Herd Average:			83	114	105	91	108	107	107	107	80	114	97	105	111	111	102	100	107	100	112	101	101	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.



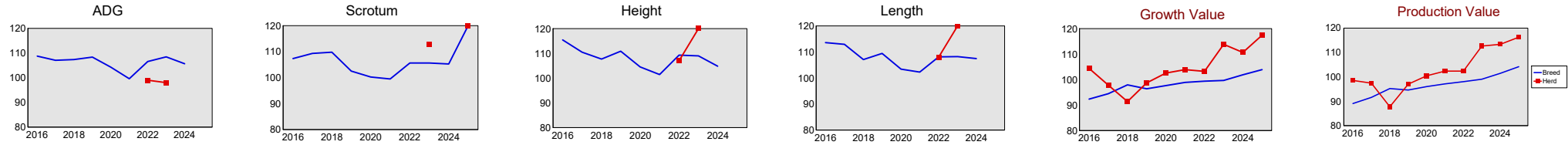
Herd

Birth Year	Calving Ease				Calf Growth			Milk			Maintenance				Fertility								Cow Value
	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		
2016					108	10.8	123	108	0.95	100			17	15	88	35	4.3	14	-2.6	107	18.1	92	93
2017					99	6.5	111	99	2.98	108	49	8.4	20	12	87	27	-3.2	26	-5.9	93	18.1	102	98
2018					52	7.2	113	52	-3.09	82	38	6.9	17	13	90	20	-3.0	18	-2.9	48	21.4	100	86
2019					113	7.4	114	113	0.20	97	77	9.6	27	13	86	40	-6.2	32	-5.3	106	20.3	105	96
2020					90	9.1	118	90	4.39	115	47	13.7	13	26	80	26	7.8	15	-2.8	82	21.2	94	99
2021					109	8.7	117	109	4.13	113	72	12.2	7	31	82	29	-1.2	20	-5.6	88	22.1	106	101
2022					126	7.7	114	126	3.00	109	93	11.0	19	20	84	37	-2.4	18	-5.1	63	23.1	106	102
2023					64	9.0	118	64	4.01	113	19	16.1	4	33	85	11	-21.8	3	-8.6			125	111
2024					3	7.7	114	3	7.18	127	2	15.8			79								115
2025					13	9.8	120	13	5.38	119	12	13.6			84								114

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.)		Milk	Postwean Weight		Mature Weight		Maintenance	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	EBV	
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		
2016													104	99
2017													98	97
2018													91	88
2019													99	97
2020													103	100
2021													104	102
2022	1	9	99				1	5	107	1	11	108	103	102
2023	1	7	98	1	8.9	113	1	19	134	1	33	136	114	113
2024													111	113
2025				1	12.3	122							117	116

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 Dam ID	Calv.	Calf	Milk	Maint.	Fertility	Cow	Growth	Prod	Birth	Wean	Birth	Wean	Post wn	Mature	ADG	Scrotal	Heifer	Cow	Long-	Height	Length	Birth	Wean	Dgt/Calvs.	Grwth	
			Ease	Grwth	Value	Value	Value	Value	Value	Value	Dir	Dir	Mat.	Mat.	wt	weight		Circ.	Fertility	Fertility	evity			wt	wt		Test	
AZ 110054		CS 020092 AZ 040053	81	106	105	109	98	104	113	109	87	106	73	105	96	92	107	70	107	105	88	94	88	19	110	20	76	6
AZ 11.54 K			74	93	86	74	76	65	84	74	0.75	4.7	0.83	2.2	1.6	-2	27	-7.8	-12.3	-4.0	16.5	-1	-4					
											75	93	67	86	76	74	63	66	83	55	90	71	69					
EX 090200		CS 020092 EX 050051	96	99	125	103	91	101	107	104	101	99	77	125	103	95	99	89	72	96	104	93	87	1	82	22	104	1
EX 9.200			58	93	87	75	76	64	84	74	0.09	2.3	0.70	6.8	5.0	0	10	-0.2	17.4	-2.0	25.4	-2	-5					
											59	93	56	87	76	75	47	60	83	56	89	55	53					
EX 170210		EX 120209 EX 080421	79	141	68	68	138	128	113	121	80	141	94	68	143	144	144	137	145	128	127	150	146	5	263	59	135	48
WIT PENS			69	95	87	73	75	65	84	74	1.09	17.2	0.21	-6.5	25.2	45	109	18.0	-43.6	-9.5	37.9	27	40					
											72	95	54	87	85	73	76	79	87	56	83	82	81					
EX 170244		EX 120209 EX 070508	113	93	122	88	116	113	98	105	118	93	73	122	109	109	96	110	105	118	106	94	97	2	45	7	13	1
PLATINUM DONKIE			63	86	74	59	63	55	73	64	-0.75	0.1	0.83	6.2	8.5	13	3	7.6	-10.3	-7.2	26.5	-1	3					
											64	86	60	74	74	59	44	43	69	45	76	50	48					
EX 180207		EX 120209 EX 100101	60	142	109	66	138	138	125	132	50	142	74	109	143	144	139	137	129	141	111	149	146	2	37	9	12	2
EX 180207			58	85	73	58	59	53	71	62	2.61	17.4	0.79	3.0	25.2	45	97	17.9	-30.6	-12.4	29.2	27	40					
											60	85	49	73	67	58	62	70	66	41	71	73	69					
FF 040055		FF 990028 FF 930002	87	104	98	98	83	81	93	87	93	104	74	98	93	100	67	132	85	95	82	57	75	143	163	27	155	9
VUNDIZA FF 04 55			93	96	92	81	83	70	90	80	0.47	4.1	0.78	0.6	0.2	5	-62	15.8	6.2	-1.8	13.2	-19	-14					
											95	96	83	92	88	81	68	74	87	68	94	75	73					
FF 050023		FF 970037 FF 970004	84	134	78	77	99	92	101	96	85	134	97	78	135	128	123	123	115	111	78	115	111		173	44	131	40
MFELANE FF 05 23			76	97	92	83	86	71	90	80	0.87	14.7	0.12	-4.1	21.2	31	63	12.5	-18.4	-5.5	11.1	10	14					
											76	97	76	92	74	83	84	88	91	72	95	89	87					
GMD 030248		CS 930055	114	87	110	119	92	99	102	100	113	87	99	110	84	81	77	91	110	101	79	91	89	45	55	5	19	
GMD 03 248			88	91	73	51	76	59	78	68	-0.53	-1.9	0.08	3.4	-4.2	-12	-38	0.2	-14.4	-3.2	11.7	-2	-4					
											91	91	75	73	71	51	34	37	82	55	92	37	36					
JSN020224		JS 940214 JSN890039	95	113	99	90	98	96	103	99	95	113	99	99	112	109	105	95	102	114	80	105	106	1	76	18	44	
ZULANA JS 020224			68	86	79	62	76	60	78	69	0.35	7.2	0.07	0.8	9.6	13	22	2.0	-7.9	-6.1	12.5	5	10					
											69	86	62	79	62	62	17	20	82	56	91	20	19					
LP 030094		JS 940214 T 880081	70	142	70	68	117	102	98	99	50	142	129	70	143	144	136	122	113	142	78	134	139	214	156	44	152	
LP 03 94			94	95	92	77	82	69	88	78	2.61	17.4	-0.77	-6.1	25.2	45	91	12.3	-16.9	-12.7	11.2	19	35					
											96	95	87	92	88	77	27	29	86	65	94	30	29					
MVN 040017		KMF 990018 MVN 970012	113	106	137	90	88	101	110	105	118	106	67	137	116	107	134	125	115	82	89	117	109	1	147	28	125	17
MVN040017 - GALILEO			73	95	91	76	79	67	86	76	-0.79	4.6	0.98	9.6	11.7	11	87	13.4	-18.5	1.3	17.3	11	12					
											74	95	68	91	77	76	71	77	85	60	92	78	76					

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	Scrotal	Heifer	Cow	Long-	Height	Length	Birth	Wean	Dgt/Calvs.	Grwth	
			Ease	Grwth	Value	Value	Value	Value	Value	Value	Dir	Dir	Mat.	Mat.	wt	weight		Circ.	Fertility	Fertility	evity			wt	wt		Test	
MVN		JS 930257	111	107	87	98	74	71	87	78	108	107	109	87	96	101	110	97	65	95	77	101	89		58	7	30	10
050093		FF 960002	67	90	80	56	69	58	77	68	-0.29	5.0	-0.20	-1.9	1.8	5	35	2.6	22.9	-1.6	11.0	2	-3					
05 0093											67	90	66	80	62	56	66	73	72	50	85	74	72					
MVN		MVN 030102	104	108	84	110	89	90	104	97	101	108	110	84	104	93	113	152	110	95	80	67	91		82	16	65	2
100160		MVN 050133	67	92	85	73	73	63	82	72	0.07	5.6	-0.24	-2.7	5.8	-2	40	23.6	-14.2	-1.7	12.2	-14	-2					
MVN100160											68	92	62	85	70	73	67	75	80	50	89	77	74					
PH 030005		H 970365	107	95	81	114	97	91	92	91	102	95	121	81	85	89	83	87	98	118	76	90	85		4	26	5	19
		X 960025	64	88	75	56	71	58	76	67	0.02	0.7	-0.53	-3.5	-3.8	-5	-26	-1.1	-4.6	-7.0	10.1	-3	-6					
SIBONGILE											66	88	55	75	68	56	19	20	76	50	87	21	20					
Q 070062		LP 030094	69	121	95	68	108	94	81	86	50	121	131	95	110	142	109	95	100	124	88	115	121		164	23	73	
		Q 010056	81	93	88	63	76	63	83	73	2.61	9.9	-0.83	0.0	8.5	43	32	1.7	-6.0	-8.4	16.7	9	21					
Q 070062											82	93	74	88	86	63	25	29	82	55	91	29	28					
Q 080036		RV 050035	110	103	121	82	94	94	90	91	110	103	94	121	116	118	115	113	92	100	94	115	119		12	10	2	19
		RV 060010	77	79	70	45	57	50	67	58	-0.37	3.6	0.21	6.0	11.5	22	45	8.7	0.6	-3.0	19.8	9	19					
Q 080036											83	79	49	70	64	45	21	23	58	39	75	23	22					
Q 150104		Q 120039	92	120	123	75	80	86	95	89	95	120	87	123	123	127	121	114	70	89	92	129	128		12	124	15	29
		MVN 090116	74	92	78	56	66	57	77	67	0.38	9.7	0.43	6.3	15.2	30	58	9.2	18.7	-0.4	19.0	17	26					
Q 150104											78	92	56	78	80	56	34	35	77	43	78	41	39					
Q 160029		Q 070062	63	132	117	65	117	116	106	111	56	132	86	117	129	144	114	111	100	126	103	108	126		52	141	12	19
		Q 090037	88	93	77	54	65	57	77	67	2.30	13.9	0.44	5.0	18.1	45	44	7.8	-6.3	-9.0	24.8	6	25					
Q 160029											91	93	73	77	81	54	37	45	73	44	79	43	41					
Q 180035		DH 100041	66	123	100	76	100	93	95	93	63	123	99	100	116	129	118	119	90	100	104	117	121		2	63	7	11
		Q 130074	64	85	68	51	52	49	68	58	1.98	10.7	0.07	0.9	11.5	31	53	10.9	2.1	-3.0	25.5	11	21					
Q 180035											68	85	46	68	70	51	9	10	62	29	66	10	10					
Q 190141		Q 150104	76	124	126	85	111	122	129	127	79	124	88	126	124	113		109	93	102	123	129	130		14			
		Q 160121	47	75	56	39	43	41	57	49	1.15	11.0	0.40	7.2	15.6	17		7.2	-0.8	-3.4	35.4	16	28					
Q 190141											49	75	39	56	62	39		32	50	21	59	14	11					
Q 210013		Q 160029	68	125	116	82	116	120	123	122	71	125	88	116	122	119	115	107	101	114	114	116	127		1	10		
		Q 120101	59	79	58	42	46	44	61	52	1.54	11.5	0.40	4.8	14.9	22	46	6.4	-7.5	-6.1	30.5	10	25					
Q 210013											62	79	44	58	68	42	23	27	49	30	58	26	25					
SK 060038		SK 980010	63	95	131	96	108	111	105	108	65	95	84	131	98	100	89	94	96	128	86	98	99		50	110	29	121
		SK 020004	88	93	90	71	76	65	84	74	1.87	0.8	0.49	8.1	2.7	5	-13	1.6	-3.3	-9.4	15.9	1	4					
SK 060038											91	93	70	90	84	71	14	16	83	55	90	17	16					

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	Scrotal	Heifer	Cow	Long-	Height	Length	Birth	Wean	Dgt/Calvs.	Grwth
			Ease	Grwth	Value	Value	Value	Value	Value	Value	Dir	Dir	Mat.	Mat.	wt	weight		Circ.	Fertility	Fertility	evity			wt	wt		Test
T 030203		U 980033	69	132	110	85	66	75	108	92	76	132	71	110	132	114	109	97	88	69	77	97	109	3	26	12	54
03 203		T 000169																									
T 090143		YZ 030009	121	83	126	110	76	84	87	85	117	83	112	126	87	90	85	100	82	85	81	96	88		13	1	4
T 090143		T 040007																									
T 180165		T 090143	122	103	114	106	88	98	109	104	125	103	98	114	106	94	109	109	74	98	95	108	105	6	50	3	3
T 180165		T 090281																									
TC 990038		LEB 930499	68	134	113	69	81	85	96	90	50	134	107	113	133	138	129	99	102	93	72	128	127	40	24	8	46
TC9938		SW 880001																									
WJ 040076		WJ 000027	83	116	78	113	97	98	114	106	82	116	106	78	108	90			64	124	88			17	39	6	18
WJ 04 76		WJ 010016																									
			76	88	65	35	65	51	70	60	82	88	48	65	78	35			71	41	84						

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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 180165 87402376 T 180165			T 090143 T 090281	122 63	103 85	114 53	106 40	88 57	98 47	109 65	104 56	125 -1.14 69	98 0.11 36	94 -1 40	103 3.8 85	114 4.2 53	117 55 59	106 7.0 60	109 31 20	109 7.1 28	74 15.4 63	98 -2.5 37	95 20.3 70	108 6 23	105 9 22	
Q 190141 89769673 Q 190141	6		Q 150104 Q 160121	76 47	124 75	126 56	85 39	111 43	122 41	129 57	127 49	79 1.15 49	88 0.40 39	113 17 39	124 11.0 75	126 7.2 56	133 90 57	124 15.6 62		109 7.2 32	93 -0.8 50	102 -3.4 21	123 35.4 59	129 16 14	130 28 11	
Q 250036 99043028 Q 250036	2		Q 160029 FF 100132	84 54	114 63	108 58	83 41	111 45	108 40	106 54	107 47	84 0.91 55	99 0.09 48	117 20 41	114 7.6 63	108 2.8 58	109 37 54	113 10.2 48	106 25 29	106 6.0 33	104 -9.4 49	117 -6.9 33	100 23.0 54	102 3 33	109 12 32	
Q 250038 99416232 Q 250038			Q 160029 EX 160511	79 48	116 61	99 55	88 43	111 43	108 39	111 52	110 46	79 1.16 50	101 0.03 40	111 15 43	116 8.4 61	99 0.8 55	107 32 53	111 9.3 47	104 21 29	120 11.6 33	106 -11.5 48	112 -5.8 29	104 25.2 52	92 -2 34	105 8 33	
Q 250040 99416257 Q 250040	32		Q 160029 Q 210030	65 43	127 56	113 34						62 2.01 48	93 0.25 19		127 12.2 56	113 4.0 34		123 15.1 42		107 -12.4 28		104 25.6 33				
Q 250042 99416273 Q 250042	17		Q 160029 Q 190013	64 51	123 60	112 50	75 22	115 35	113 33	107 46	110 40	58 2.20 53	90 0.33 41	129 31 22	123 10.9 60	112 3.7 50	113 47 44	118 12.9 52		95 -2.1 44	123 -8.3 13	105 26.1 49				
Q 250045 99416299 Q 250045			Q 190141 EX 220260	84 31	122 48	100 41	86 31	122 32	121 29	122 39	122 34	85 0.85 32	96 0.16 25	114 18 31	122 10.5 48	100 1.1 41	110 41 40	122 14.8 39	124 65 20	121 11.9 26	118 -21.1 36	108 -4.7 19	122 35.3 41	123 13 24	122 22 23	
Q 250046 99416281 Q 250046			Q 160029 Q 120020	75 54	122 62	121 56	81 35	93 43	99 38	109 52	104 45	80 1.13 57	82 0.55 41	119 22 35	122 10.3 62	121 5.8 56	124 70 51	121 14.5 50	116 46 22	106 6.2 26	93 -0.5 47	95 -1.8 29	95 20.6 52	104 4 25	117 18 24	
Q 250050 99858391 Q 250050			Q 160029 Q 080007	80 58	115 63	126 58	68 37	98 42	96 39	86 53	90 46	81 1.08 60	98 0.12 50	139 40 37	115 7.8 63	126 7.0 58	113 47 53	116 11.9 54	115 45 20	105 5.6 24	94 -1.7 45	107 -4.6 28	91 18.5 53	112 8 23	121 21 23	
Q 250051 99858409 Q 250051			Q 190141 Q 220022	85 31	116 51	117 39	85 28	118 31	120 29	119 40	120 34	87 0.75 32	88 0.39 28	114 18 28	116 8.4 51	117 4.9 39	119 60 39	119 13.3 43	108 30 11	105 5.8 18	106 -11.5 36	112 -5.6 18	116 32.0 40	113 8 15	114 16 14	
Q 260001 6020167836 Q 260001	1		Q 160029 RT 110022	83 49	108 61	108 58	87 36	107 42	104 38	102 51	102 44	83 0.96 51	101 0.02 42	112 16 36	108 5.6 61	108 2.8 58	107 33 52	107 7.4 50	97 4 20	100 3.7 24	104 -9.6 46	115 -6.4 28	94 20.1 52	98 1 23	106 10 22	
Q 260009 6020827512 Q 260009			T 180165 Q 210049	85 42	125 56	119 38	88 28	110 37	120 32	130 43	127 38	88 0.73 44	87 0.42 29	109 13 28	125 11.4 56	119 5.3 38	130 83 41	125 16.4 44	117 48 15	111 8.0 19	97 -3.6 42	115 -6.4 24	104 25.5 44	116 10 17	120 20 17	

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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
Q 260012			T 180165	121	100	106	109	97	103	107	105	119	104	92	100	106	108	102	103	105	91	103	96	102	98
6020827546	1		FF 100132	44	60	51	37	42	37	50	44	-0.82	-0.07	-2	2.5	2.4	36	4.6	19	5.6	1.4	-3.7	20.8	3	4
Q 260012												46	36	37	60	51	49	40	25	29	46	31	50	28	27

Breeding Values and Accuracies: Cows

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ID Number Name																								
Q 080007 65940660 Q 080007		TC 990038 Q 980001	108 75	97 83	134 88	71 49	79 53	77 52	66 70	69 61	105 -0.15 77	109 -0.20 68	133 36 49	97 1.6 83	134 9.0 88	109 38 73	104 5.8 70	116 46 17	99 3.4 19	89 3.0 53	89 -0.3 35	79 12.1 70	116 10 20	115 16 19
Q 080031 66406570 Q 080031		TC 990038 Q 940082	70 76	101 84	104 89	83 63	96 55	85 56	81 73	82 64	65 1.85 77	118 -0.45 69	117 20 63	101 3.1 84	104 1.9 89	96 10 79	101 4.2 75	98 6 17	85 -2.0 19	107 -11.8 59	91 -0.8 38	98 22.2 68	102 3 20	99 4 19
Q 080040 67003434 Q 080040		LP 030094 Q 020029	80 79	122 86	84 90	91 62	125 60	118 58	120 76	120 67	77 1.26 80	119 -0.48 75	109 13 62	122 10.3 86	84 -2.8 90	99 16 79	119 13.1 78	95 1 13	91 0.5 15	137 -36.9 66	127 -9.1 43	96 20.8 72	104 4 15	103 8 15
SK 080025 67153163 SK 080025		JSN020224 SK 050003	101 56	100 84	122 89	112 66	129 62	138 58	133 75	137 66	99 0.15 56	103 -0.03 57	89 -6 66	100 2.8 84	122 6.1 89	125 74 80	102 4.6 65	101 15 11	95 1.9 15	128 -29.2 68	121 -7.8 45	115 31.1 72	105 4 13	107 10 12
ED 090019 68690387 LISA		GMD 030248 LP 050294	104 69	94 80	97 87	117 46	119 56	120 52	114 69	117 60	103 -0.02 70	102 0.00 66	85 -9 46	94 0.6 80	97 0.3 87	99 17 71	93 0.4 61	82 -29 13	86 -1.5 15	122 -24.3 58	115 -6.4 38	106 26.2 71	91 -3 16	89 -3 15
MVN 090087 69454494 MVN090087		MVN 040017 MVN 990038	101 63	104 86	106 89	96 68	113 62	112 58	110 76	111 67	104 -0.09 63	80 0.63 62	102 6 68	104 3.9 86	106 2.5 89	107 34 81	108 7.6 66	109 31 42	110 7.6 47	130 -31.3 68	110 -5.2 46	95 20.5 72	108 6 47	99 4 46
MVN 090116 69563062 MVN090116		MVN 040017 MVN 040064	112 59	101 85	133 87	90 66	88 63	96 58	102 76	99 67	115 -0.62 60	82 0.56 56	107 11 66	101 3.0 85	133 8.8 87	125 73 79	107 7.3 68	115 44 40	113 8.8 43	101 -7.0 69	84 0.8 47	94 19.9 73	115 9 45	107 11 44
MVN 090124 69563146 MVN090124		MVN 050093 MVN 060025	93 52	114 84	115 87	88 59	94 59	99 55	108 73	103 64	96 0.33 52	86 0.46 53	110 14 59	114 7.6 84	115 4.6 87	118 58 77	107 7.3 52	113 40 39	103 4.9 43	86 5.5 63	102 -3.3 42	95 20.4 71	95 -1 44	96 2 43
Q 090022 68369560 Q 090022		FF 040055 Q 050057	71 73	111 83	123 88	82 64	70 52	74 55	87 72	79 64	75 1.34 75	81 0.59 62	118 21 64	111 6.6 83	123 6.3 88	118 57 78	105 6.4 62	94 -2 34	124 12.7 37	66 22.2 52	83 1.1 36	82 13.7 69	92 -2 38	102 7 37
Q 090038 69385573 Q 090038		FF 040055 LT 000027	109 76	93 86	93 89	116 69	96 61	96 59	99 77	97 68	111 -0.40 78	87 0.41 68	86 -8 69	93 0.3 86	93 -0.7 89	94 5 81	89 -1.6 74	64 -68 35	98 3.1 38	91 0.9 64	102 -3.4 45	94 19.9 73	64 -16 38	74 -15 37
WRA 090014 70037338 WRA 090014		LP 030094 WRA 990126	59 74	142 80	125 87	65 61	101 54	109 54	113 71	111 62	50 2.61 75	65 1.03 66	144 45 61	142 17.4 80	125 6.8 87	128 80 76	143 25.2 64	144 109 13	133 16.3 15	94 -1.5 56	113 -5.9 35	92 18.7 70	141 23 15	146 40 15
FF 100132 72213796 HLOMOHLOMO FF10132	2	FF 050023 FF 070044	116 60	96 84	98 87	112 64	105 63	107 57	106 75	106 66	112 -0.49 60	111 -0.26 61	90 -4 64	96 1.2 84	98 0.6 87	99 17 78	97 2.3 52	97 6 48	101 4.2 51	108 -12.5 67	108 -4.8 50	96 21.2 72	96 0 52	91 -2 51

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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																										
PH 100188 72101652 TUMEKA		WJ 040076 PH 060030	87 48	110 81	86 83	121 42	102 52	107 49	121 67	115 58	86 0.80 51	103 -0.03 36	81 -12 42	110 6.0 81	86 -2.2 83	105 29 69	104 5.7 67			78 12.0 50	118 -7.2 38	95 20.4 67				
Q 110015 72664766 Q 110015	1	LP 030094 Q 060002	74 75	126 83	107 86	66 59	115 59	108 56	96 73	101 64	74 1.43 77	103 -0.04 64	143 44 59	126 12.0 83	107 2.5 86	105 30 76	123 15.3 71	126 70 14	113 8.9 16	106 -10.9 63	125 -8.7 44	97 21.4 71	118 11 17	124 23 16		
Q 110034 72909658 Q 110034		SK 060038 Q 080040	70 73	103 82	97 83	100 57	122 57	116 54	111 71	113 62	65 1.88 76	120 -0.51 58	98 3 57	103 3.6 82	97 0.4 83	100 19 74	98 3.0 70	81 -30 10	84 -2.2 11	125 -26.6 62	129 -9.8 40	94 20.0 68	92 -2 12	91 -2 11		
Q 110065 73518433 Q 110065		LP 030094 Q 050067	65 72	125 81	122 84	65 54	112 58	109 54	97 71	103 62	66 1.82 75	95 0.19 57	144 45 54	125 11.4 81	122 6.0 84	115 50 73	126 16.7 65	126 68 13	115 9.4 15	101 -7.4 64	125 -8.6 41	93 19.6 70	128 16 15	130 28 15		
RT 110022 73254484 RT110022		PH 030005 FF 990090	115 45	85 80	98 86	120 48	97 54	98 51	97 68	97 60	110 -0.38 46	116 -0.40 41	81 -12 48	85 -2.8 80	98 0.6 86	94 5 71	86 -3.3 58	79 -35 20	89 -0.5 22	108 -13.0 56	104 -3.8 37	85 15.3 69	88 -4 22	86 -5 22		
Q 120005 74891573 Q 120005		Q 080036 Q 090038	106 68	101 81	114 85	90 52	96 53	95 52	96 69	95 60	108 -0.29 73	86 0.44 42	107 12 52	101 2.9 81	114 4.3 85	108 36 73	106 6.9 62	93 -5 20	108 6.8 21	77 12.8 56	105 -4.0 37	100 23.2 67	91 -2 22	99 4 21		
Q 120020 74891722 Q 120020		T 030203 MVN 090085	99 65	111 81	124 83	105 44	68 57	86 52	112 69	100 60	103 -0.05 70	78 0.66 38	94 -1 44	111 6.6 81	124 6.6 83	133 91 69	114 10.9 56	117 49 24	102 4.6 27	86 5.2 61	65 5.3 40	87 16.4 69	100 2 28	109 12 27		
Q 130040 76828581 Q 130040	1	FF 040055 Q 070064	82 72	113 82	74 84	88 65	104 59	89 56	90 73	88 64	84 0.93 76	96 0.16 55	113 17 65	113 7.1 82	74 -5.1 84	82 -21 77	107 7.2 69	74 -46 35	106 6.0 38	104 -10.0 63	110 -5.2 44	93 19.6 69	75 -11 38	83 -8 37		
Q 140002 79042065 Q 140002		SK 060038 Q 110089	66 56	117 79	119 80	75 52	118 56	116 51	105 68	110 60	54 2.38 58	98 0.12 45	128 31 52	117 8.7 79	119 5.4 80	114 50 70	113 10.2 66	116 48 10	112 8.2 11	105 -10.4 61	133 -10.5 40	95 20.7 68	120 12 12	123 22 11		
EX 160511 83858266 EX 160511		MVN 100160 AZ 120033	106 39	101 79	81 80	124 66	106 57	107 53	116 70	112 62	102 0.02 40	115 -0.38 35	78 -16 66	101 2.9 79	81 -3.4 80	94 5 75	94 0.5 48	93 -3 46	130 15.3 50	113 -16.7 64	99 -2.6 40	104 25.5 67	76 -10 54	83 -8 51		
Q 190013 88533120 Q 190013		Q 070062 Q 090004	65 58	115 76	106 69	86 51	113 56	110 49	108 65	109 57	60 2.11 59	94 0.22 55	114 17 51	115 7.8 76	106 2.4 69	109 39 65	108 7.7 69	91 -8 22	101 4.1 25	90 2.1 63	121 -7.7 41	108 27.3 64	93 -2 25	100 5 24		
Q 200063 90874843 Q 200063	17	Q 160029 Q 150039	66 52	128 74	93 62	72 26	102 42	93 39	92 55	92 47	56 2.31 54	98 0.10 42	136 37 26	128 12.6 74	93 -0.6 62	100 18 54	117 12.2 64			64 23.5 55	117 -6.9 16	105 25.7 55				

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Nguni Genetic Analysis, SA Stud Book, September 2026
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 QHINA NGUNIS 56

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Breeding values with an accuracy < 5% are not printed

Animal				Selection Values							Birth		Wean				Growth		Fertility				Frame		
Index EBV Acc	% Inbreeding	Sire ID Dam ID	ID Number Name	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
Q 240023 97425573 Q 240023	7	Q 160029 Q 090022		62 57	122 63	120 58	73 40	94 38	95 38	97 52	95 45	66 1.82 59	83 0.52 47	131 33 40	122 10.3 63	120 5.6 58	117 56 54	117 12.3 50	104 21 18	117 10.3 24	83 7.9 44	105 -4.0 19	93 19.3 52	100 2 23	114 16 22
Q 240026 97425607 Q 240026	17	Q 160029 Q 190013		64 51	123 60	112 50	75 22	115 35	113 33	107 46	110 40	58 2.20 53	90 0.33 41	129 31 22	123 10.9 60	112 3.7 50	113 47 44	118 12.9 52		95 -2.1 44	123 -8.3 13	105 26.1 49			
Q 240029 97425631 Q 240029		Q 210013 EX 220260		80 35	123 50	95 41	84 32	124 33	120 30	119 41	120 36	81 1.05 37	96 0.16 27	117 20 32	123 10.8 50	95 -0.1 41	106 31 41	121 14.4 42	122 59 24	120 11.5 26	122 -24.4 36	114 -6.1 22	118 32.8 40	117 10 27	121 21 26
Q 240031 97739593 Q 240031		Q 160029 PH 100188		69 50	121 62	102 56	87 35	109 42	108 38	114 51	111 44	71 1.55 52	95 0.21 41	112 16 35	121 10.0 62	102 1.4 56	111 43 51	116 11.9 52	103 18 19	100 3.8 23	89 2.8 44	122 -8.1 29	99 22.6 52	103 4 21	111 13 21
Q 240033 98112675 Q 240033		Q 160029 Q 080031		67 58	117 63	111 59	74 41	107 42	101 40	94 53	96 46	61 2.07 60	102 0.00 50	130 33 41	117 8.5 63	111 3.5 59	107 33 54	115 11.1 55	106 25 20	98 2.9 24	103 -9.1 46	109 -4.9 29	101 23.5 52	105 4 23	112 14 23
Q 240034 97739619 Q 240034	32	Q 160029 Q 210030		65 43	127 56	113 34						62 2.01 48	93 0.25 19		127 12.2 56	113 4.0 34		123 15.1 42		107 -12.4 28		104 25.6 33			
Q 240035 97739627 Q 240035	5	Q 210013 Q 220039		76 36	120 52	118 37	81 23	110 28	113 27	114 38	113 32	79 1.15 38	88 0.38 25	120 23 23	120 9.6 52	118 5.3 37	120 62 37	120 13.8 42		101 -6.7 35	110 -5.3 12	107 26.8 38			
Q 240039 97739650 Q 240039		Q 160029 MVN 090124		72 52	123 63	116 58	76 40	106 44	107 40	107 53	107 46	76 1.31 53	86 0.45 45	127 29 40	123 10.8 63	116 4.8 58	117 56 54	118 12.7 48	114 42 26	107 6.3 31	93 -0.4 48	114 -6.1 30	99 22.6 53	101 3 30	111 13 29
Q 250024 98670292 Q 250024	4	Q 190141 Q 220092		73 29	117 51	118 37	88 25	109 26	114 26	119 37	117 32	75 1.35 31	93 0.25 21	109 13 25	117 8.5 51	118 5.1 37	123 68 38	115 11.0 43		94 -1.0 35	105 -4.1 8	114 31.0 36			
Q 250030 98735780 Q 250030		Q 160029 MVN 090087		76 54	118 63	112 59	79 43	115 45	113 41	108 54	111 48	80 1.10 55	83 0.54 48	123 25 43	118 8.9 63	112 3.7 59	112 45 55	118 12.8 52	112 37 28	110 7.7 32	115 -18.8 49	118 -7.1 31	99 22.7 54	108 6 32	112 14 31
Q 250032 98911936 Q 250032	3	Q 160029 Q 110034		67 58	117 62	107 56	80 38	120 42	115 39	109 52	112 46	60 2.09 60	103 -0.03 47	121 24 38	117 8.8 62	107 2.7 56	109 38 52	114 10.5 53	98 7 11	97 2.8 16	112 -16.5 47	128 -9.4 27	99 22.4 52	100 2 16	109 12 15
Q 250035 99043010 Q 250035	2	Q 160029 Q 100042		79 57	113 62	108 58	90 38	107 44	108 40	112 53	110 46	82 1.00 59	88 0.39 46	108 12 38	113 7.4 62	108 2.9 58	113 47 53	112 9.6 54	96 4 16	96 2.2 21	100 -6.2 49	113 -5.9 30	99 22.6 54	97 1 20	104 8 19

Breeding Values and Accuracies: Cows

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	% 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																									
Q 250037 99043036 Q 250037	7	Q 160029 Q 110015	65 58	129 62	112 57	66 37	116 41	112 38	101 51	106 44	65 1.86 60	95 0.20 48	143 44 37	129 13.0 62	112 3.8 57	111 42 52	126 16.7 54	112 8.4 10	103 -8.6 47	126 -8.9 22	100 23.1 53	113 9 8			
Q 250039 99416240 Q 250039	3	Q 160029 Q 120005	79 55	116 62	116 57	77 36	107 40	105 38	101 51	103 44	82 1.00 58	86 0.44 42	125 28 36	116 8.4 62	116 4.6 57	113 46 52	117 12.5 52	104 19 17	109 7.3 22	89 3.3 45	115 -6.5 25	102 24.0 51	100 2 21	113 15 20	
Q 250041 99416265 Q 250041	6	Q 160029 Q 080040	67 59	127 63	100 59	77 38	121 41	116 39	113 52	115 46	67 1.78 61	103 -0.02 52	126 29 38	127 12.1 63	100 1.1 59	108 36 53	124 15.6 56	101 4.2 10	118 -21.6 48	126 -9.1 22	99 22.8 53	106 5 7			
Q 250043 6020164510 Q 250043		Q 190141 EX 220311	87 31	110 48	119 39	97 29	106 31	114 28	121 39	118 34	90 0.61 32	88 0.41 26	99 4 29	109 6.0 48	119 5.5 39	124 71 39	105 6.4 38	110 35 14	98 3.0 23	96 -3.0 35	101 -3.2 16	112 29.8 42	109 6 19	107 10 18	
Q 250048 99858375 Q 250048	34	Q 160029 Q 200063	64 43	130 57	105 38						56 2.31 48	92 0.27 20		130 13.3 57	105 2.2 38		123 15.1 42		82 8.6 28		104 25.3 32				
Q 250049 99858383 Q 250049	7	Q 160029 Q 090022	62 57	122 63	120 58	73 40	94 38	95 38	97 52	95 45	66 1.82 59	83 0.52 47	131 33 40	122 10.3 63	120 5.6 58	117 56 54	117 12.3 50	104 21 18	117 10.3 24	83 7.9 44	105 -4.0 19	93 19.3 52	100 2 23	114 16 22	
Q 260002 6020167844 Q 260002		Q 190141 Q 220053	84 34	112 52	121 40	88 30	108 32	112 30	114 41	113 36	88 0.71 35	81 0.59 30	109 13 30	112 6.7 52	121 5.8 40	121 64 41	113 10.1 42	104 21 13	110 7.6 21	86 5.3 38	105 -4.0 19	117 32.2 40	107 5 16	111 13 15	
Q 260004 6020167851 Q 260004	6	Q 160029 Q 110065	64 57	129 62	119 56	65 35	114 41	113 38	102 51	107 44	61 2.06 59	91 0.32 46	144 45 35	129 12.7 62	119 5.5 56	116 52 51	127 17.4 52	113 8.6 10	101 -6.8 48	125 -8.8 21	98 22.2 53	118 11 7			
Q 260006 6020167869 Q 260006		Q 190141 Q 230040	94 29	104 52	116 40	101 31	102 33	108 30	114 41	112 36	95 0.39 30	95 0.18 26	96 1 31	104 4.2 52	116 4.8 40	119 60 41	104 5.7 40	103 18 13	105 5.7 24	82 8.4 39	96 -1.9 19	118 33.0 41	102 3 18	103 7 17	
Q 260008 6020827504 Q 260008		T 180165 Q 110034	97 48	103 59	105 49	102 35	105 40	107 36	110 48	108 42	95 0.37 51	109 -0.20 34	96 1 35	103 3.7 59	105 2.3 49	108 37 48	102 5.0 46	95 1 11	96 2.4 15	99 -5.6 44	114 -6.1 27	94 20.1 49	100 2 13	98 3 12	
Q 260010 6020827520 Q 260010		T 180165 EX 220260	110 37	112 52	94 39	94 31	111 37	108 31	111 42	110 36	108 -0.29 40	101 0.02 24	105 9 31	112 6.9 52	94 -0.4 39	102 22 41	113 10.5 38	118 52 24	121 11.8 26	108 -13.0 41	106 -4.3 25	108 27.7 45	113 8 27	110 12 26	
Q 260011 6020827538 Q 260011	1	T 180165 Q 110015	100 49	115 59	110 50	82 35	102 41	101 36	102 49	102 42	100 0.14 52	101 0.04 37	119 22 35	115 7.9 59	110 3.3 50	110 41 48	115 11.2 46	118 51 11	111 8.0 15	90 2.2 44	112 -5.6 28	96 20.9 50	113 9 14	114 16 13	

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	Q	190141	Q	190141	Q 150104	Q 160121	6.3	76 47	124 75	126 56	85 39	111 43	122 41	129 57	127 49	
						★★★☆☆										
1	T	180165	T	180165	T 090143	T 090281	0.1	122 63	103 85	114 53	106 40	88 57	98 47	109 65	104 56	

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	Q 210049	Q 210049	Q 160029	Q 160121	0.8	61 52	142 74	124 56	77 40	133 48	138 43	138 58	139 50
2	Q 230009	Q 230009	EX 180207	ED 090019	0.5	64 45	132 71	101 57	84 38	138 45	138 41	137 56	139 48
3	Q 230030	Q 230030	EX 180207	Q 100042	0.1	65 46	127 71	106 57	91 41	127 47	131 42	138 57	136 50
4	SK 080025	SK 080025	JSN020224	SK 050003	0.0	101 56	100 84	122 89	112 66	129 62	138 58	133 75	137 66
					★★★★★								
1	ED 090019	LISA	GMD 030248	LP 050294	0.0	104 69	94 80	97 87	117 46	119 56	120 52	114 69	117 60
2	EX 220260	WP CATHY	EX 170210	EX 160511	0.1	92 40	121 62	74 59	86 49	133 48	120 42	114 55	117 48
3	Q 210030	Q 210030	Q 160029	Q 170097	12.8	66 50	122 73	108 54	80 28	122 43	120 39	115 54	118 46
4	Q 240029	Q 240029	Q 210013	EX 220260	0.1	80 35	123 50	95 41	84 32	124 33	120 30	119 41	120 36
					★★★★★								
1	MVN 090087	MVN090087	MVN 040017	MVN 990038	0.1	101 63	104 86	106 89	96 68	113 62	112 58	110 76	111 67
2	Q 080040	Q 080040	LP 030094	Q 020029	0.0	80 79	122 86	84 90	91 62	125 60	118 58	120 76	120 67
3	Q 110034	Q 110034	SK 060038	Q 080040	0.0	70 73	103 82	97 83	100 57	122 57	116 54	111 71	113 62
4	Q 140002	Q 140002	SK 060038	Q 110089	0.0	66 56	117 79	119 80	75 52	118 56	116 51	105 68	110 60
5	Q 190013	Q 190013	Q 070062	Q 090004	0.5	65 58	115 76	106 69	86 51	113 56	110 49	108 65	109 57
6	Q 220022	Q 220022	EX 170244	Q 170055	1.3	93 40	109 71	107 55	84 42	124 47	119 42	108 57	114 50
7	Q 240026	Q 240026	Q 160029	Q 190013	17.5	64 51	123 60	112 50	75 22	115 35	113 33	107 46	110 40
8	Q 240035	Q 240035	Q 210013	Q 220039	4.7	76 36	120 52	118 37	81 23	110 28	113 27	114 38	113 32
					★★★★								
1	EX 160511	EX 160511	MVN 100160	AZ 120033	0.0	106 39	101 79	81 80	124 66	106 57	107 53	116 70	112 62
2	EX 220311	BOND LARA	AZ 110054	EX 190015	7.0	99 42	95 59	112 54	116 43	101 45	109 39	112 52	111 46
3	FF 100132	HLOMOHLOMO FF10132	FF 050023	FF 070044	1.9	116 60	96 84	98 87	112 64	105 63	107 57	106 75	106 66
4	PH 100188	TUMEKA	WJ 040076	PH 060030	0.0	87 48	110 81	86 83	121 42	102 52	107 49	121 67	115 58
5	Q 110015	Q 110015	LP 030094	Q 060002	0.7	74 75	126 83	107 86	66 59	115 59	108 56	96 73	101 64

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	
					★★★★								
6	Q 110065	Q 110065	LP 030094	Q 050067	0.0	65 72	125 81	122 84	65 54	112 58	109 54	97 71	103 62
7	Q 220053	Q 220053	EX 170244	Q 090004	0.6	92 50	100 72	115 58	92 46	104 50	102 44	99 59	100 52
8	Q 220066	Q 220066	T 180165	Q 200038	0.4	93 41	123 72	116 43	84 31	94 38	102 36	114 51	108 44
9	Q 220092	Q 220092	Q 180035	Q 170028	3.2	70 42	110 71	109 51	92 40	106 40	106 39	109 54	108 46
10	Q 240031	Q 240031	Q 160029	PH 100188	0.0	69 50	121 62	102 56	87 35	109 42	108 38	114 51	111 44
11	Q 240033	Q 240033	Q 160029	Q 080031	0.2	67 58	117 63	111 59	74 41	107 42	101 40	94 53	96 46
12	Q 240039	Q 240039	Q 160029	MVN 090124	0.2	72 52	123 63	116 58	76 40	106 44	107 40	107 53	107 46
13	WRA 090014	WRA 090014	LP 030094	WRA 990126	0.0	59 74	142 80	125 87	65 61	101 54	109 54	113 71	111 62
						★★★★☆							
1	MVN 090116	MVN090116	MVN 040017	MVN 040064	0.2	112 59	101 85	133 87	90 66	88 63	96 58	102 76	99 67
2	MVN 090124	MVN090124	MVN 050093	MVN 060025	0.0	93 52	114 84	115 87	88 59	94 59	99 55	108 73	103 64
3	Q 090038	Q 090038	FF 040055	LT 000027	0.0	109 76	93 86	93 89	116 69	96 61	96 59	99 77	97 68
4	Q 120005	Q 120005	Q 080036	Q 090038	0.1	106 68	101 81	114 85	90 52	96 53	95 52	96 69	95 60
5	Q 200063	Q 200063	Q 160029	Q 150039	17.5	66 52	128 74	93 62	72 26	102 42	93 39	92 55	92 47
6	Q 220059	Q 220059	T 180165	Q 200013	0.4	108 41	105 72	118 42	89 30	89 43	92 37	98 52	95 44
7	Q 230040	Q 230040	EX 090200	EX 160511	1.1	112 36	85 73	106 59	121 48	92 51	97 45	99 60	98 52
8	Q 240023	Q 240023	Q 160029	Q 090022	6.6	62 57	122 63	120 58	73 40	94 38	95 38	97 52	95 45
9	RT 110022	RT110022	PH 030005	FF 990090	0.0	115 45	85 80	98 86	120 48	97 54	98 51	97 68	97 60
						★★★							
1	Q 080031	Q 080031	TC 990038	Q 940082	0.0	70 76	101 84	104 89	83 63	96 55	85 56	81 73	82 64
2	Q 120020	Q 120020	T 030203	MVN 090085	0.4	99 65	111 81	124 83	105 44	68 57	86 52	112 69	100 60
3	Q 130040	Q 130040	FF 040055	Q 070064	1.0	82 72	113 82	74 84	88 65	104 59	89 56	90 73	88 64
						★★★							
1	Q 080007	Q 080007	TC 990038	Q 980001	0.0	108 75	97 83	134 88	71 49	79 53	77 52	66 70	69 61

Selection List on Cow Value

Cows 2 years and older

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	
					★★★								
2	Q 090022	Q 090022	FF 040055	Q 050057	0.0	71 73	111 83	123 88	82 64	70 52	74 55	87 72	79 64

Selection List on Cow Value

Bull Calves 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	Q 250045	Q 250045	Q 190141	EX 220260	0.3	84 31	122 48	100 41	86 31	122 32	121 29	122 39	122 34
2	Q 250051	Q 250051	Q 190141	Q 220022	0.4	85 31	116 51	117 39	85 28	118 31	120 29	119 40	120 34
3	Q 260009	Q 260009	T 180165	Q 210049	0.2	85 42	125 56	119 38	88 28	110 37	120 32	130 43	127 38
						★★★★☆							
1	Q 250042	Q 250042	Q 160029	Q 190013	17.5	64 51	123 60	112 50	75 22	115 35	113 33	107 46	110 40
						★★★★							
1	Q 250036	Q 250036	Q 160029	FF 100132	1.5	84 54	114 63	108 58	83 41	111 45	108 40	106 54	107 47
2	Q 250038	Q 250038	Q 160029	EX 160511	0.2	79 48	116 61	99 55	88 43	111 43	108 39	111 52	110 46
3	Q 260001	Q 260001	Q 160029	RT 110022	1.3	83 49	108 61	108 58	87 36	107 42	104 38	102 51	102 44
4	Q 260012	Q 260012	T 180165	FF 100132	1.0	121 44	100 60	106 51	109 37	97 42	103 37	107 50	105 44
						★★★☆☆							
1	Q 250046	Q 250046	Q 160029	Q 120020	0.5	75 54	122 62	121 56	81 35	93 43	99 38	109 52	104 45
2	Q 250050	Q 250050	Q 160029	Q 080007	0.2	80 58	115 63	126 58	68 37	98 42	96 39	86 53	90 46

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	Q 250024	Q 250024	Q 190141	Q 220092	4.0	73 29	117 51	118 37	88 25	109 26	114 26	119 37	117 32
2	Q 250030	Q 250030	Q 160029	MVN 090087	0.2	76 54	118 63	112 59	79 43	115 45	113 41	108 54	111 48
3	Q 250032	Q 250032	Q 160029	Q 110034	3.2	67 58	117 62	107 56	80 38	120 42	115 39	109 52	112 46
4	Q 250037	Q 250037	Q 160029	Q 110015	6.7	65 58	129 62	112 57	66 37	116 41	112 38	101 51	106 44
5	Q 250041	Q 250041	Q 160029	Q 080040	6.5	67 59	127 63	100 59	77 38	121 41	116 39	113 52	115 46
6	Q 250043	Q 250043	Q 190141	EX 220311	0.2	87 31	110 48	119 39	97 29	106 31	114 28	121 39	118 34
7	Q 260002	Q 260002	Q 190141	Q 220053	0.2	84 34	112 52	121 40	88 30	108 32	112 30	114 41	113 36
8	Q 260004	Q 260004	Q 160029	Q 110065	6.5	64 57	129 62	119 56	65 35	114 41	113 38	102 51	107 44
						★★★★							
1	Q 250035	Q 250035	Q 160029	Q 100042	2.0	79 57	113 62	108 58	90 38	107 44	108 40	112 53	110 46
2	Q 250039	Q 250039	Q 160029	Q 120005	3.3	79 55	116 62	116 57	77 36	107 40	105 38	101 51	103 44
3	Q 260006	Q 260006	Q 190141	Q 230040	0.4	94 29	104 52	116 40	101 31	102 33	108 30	114 41	112 36
4	Q 260008	Q 260008	T 180165	Q 110034	0.2	97 48	103 59	105 49	102 35	105 40	107 36	110 48	108 42
5	Q 260010	Q 260010	T 180165	EX 220260	0.3	110 37	112 52	94 39	94 31	111 37	108 31	111 42	110 36
6	Q 260011	Q 260011	T 180165	Q 110015	0.7	100 49	115 59	110 50	82 35	102 41	101 36	102 49	102 42
						★★★★☆							
1	Q 250049	Q 250049	Q 160029	Q 090022	6.6	62 57	122 63	120 58	73 40	94 38	95 38	97 52	95 45

	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.

