

NGUNI

BREEDING VALUE REPORT

September 2026



BERGALLEEN BOERDERY CC

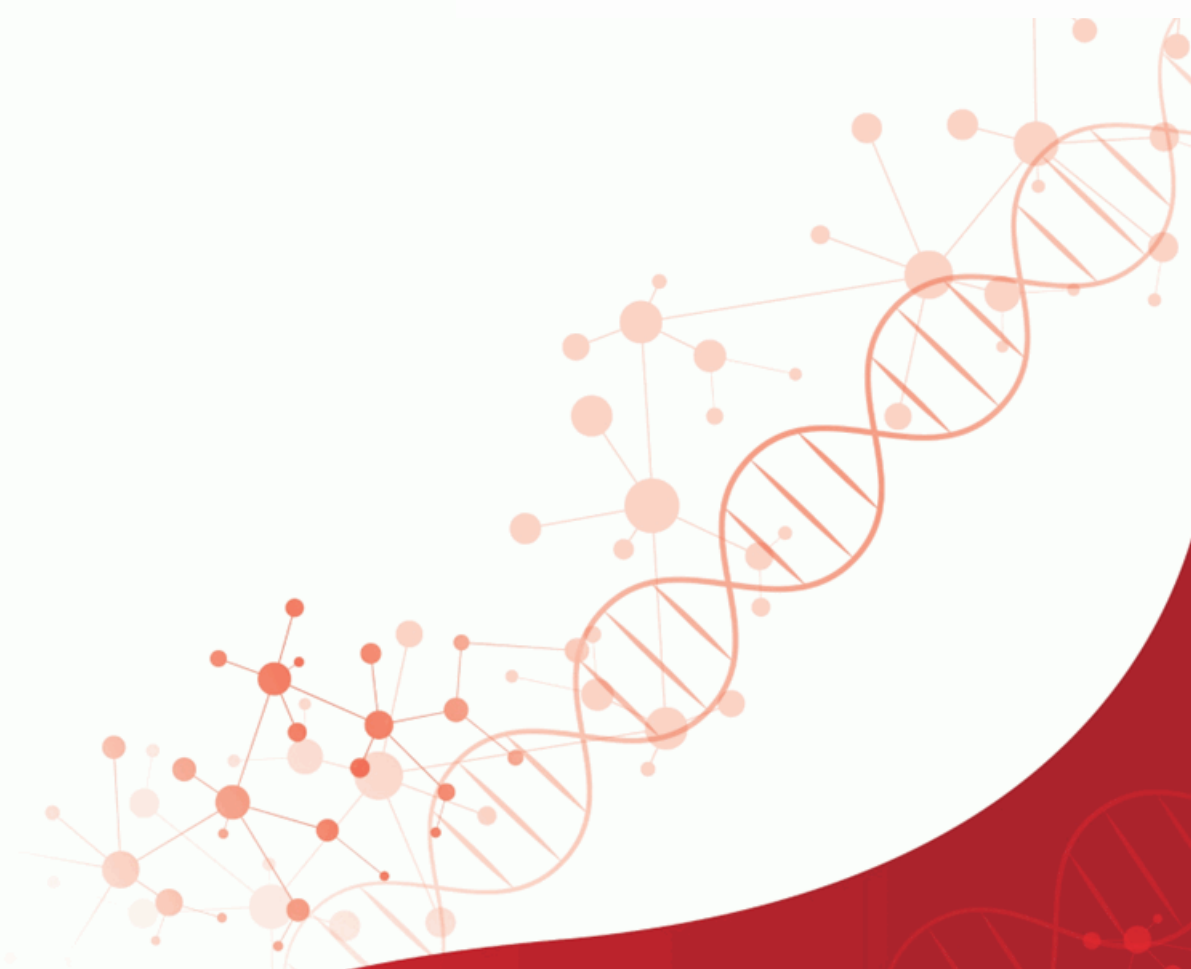
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NGUNI Cattle Breeders' Society
Beestelersgenootskap



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



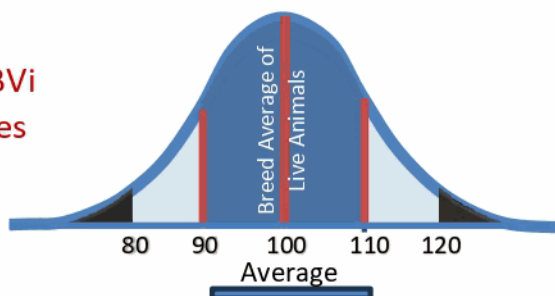
80% LOGIX Cow Value +
20% LOGIX Growth Value

LOGIX Carcass Value

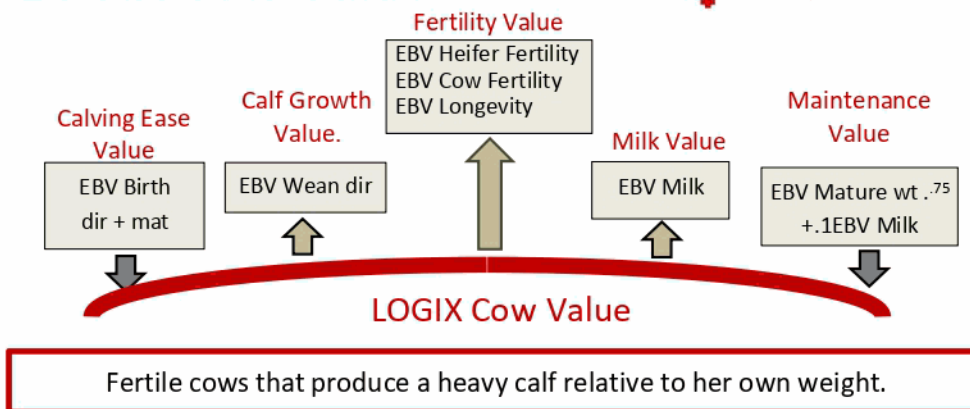


Select for more meat on the carcass as measured from end weight in Phase C and D Growth Tests and RTU scanning.

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

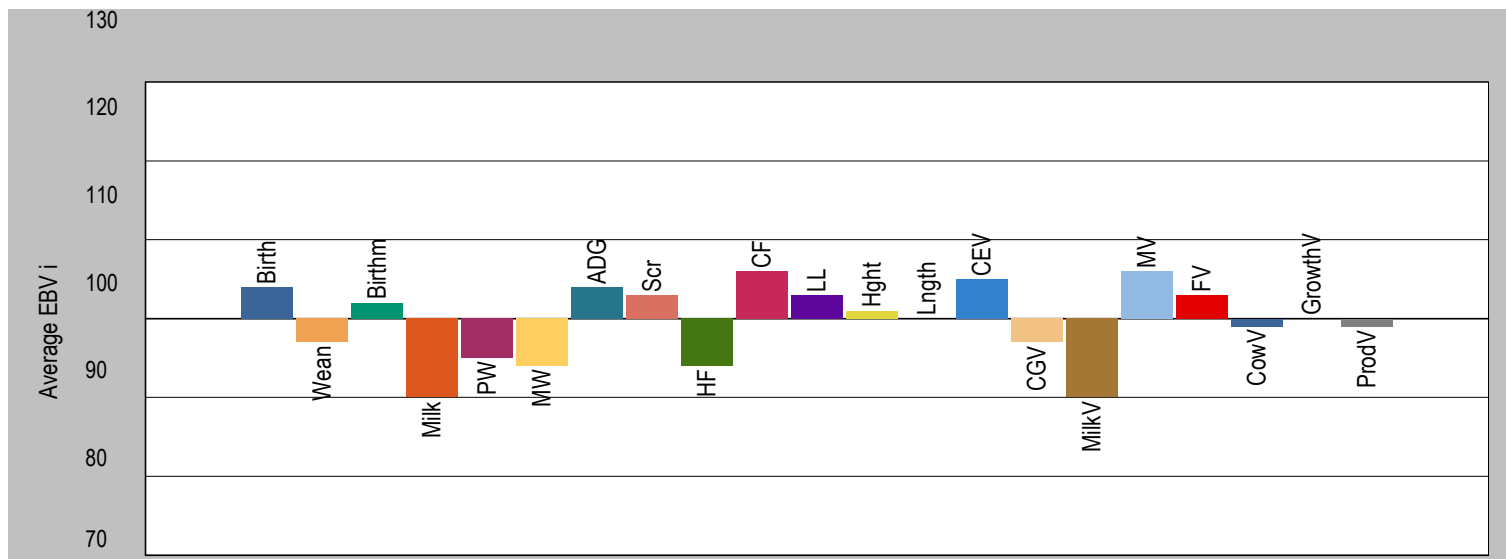
(HARSH ENVIRONMENT)

- 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	EBVIndex	EBV Breed
Prewean Growth	Birth Weight	-0.10	104	0.12
	Wean Weight	1.6	97	2.6
	Birth Mat.	0.01	102	0.05
	Milk (Wn.Mat.)	-1.3	90	1.0
Postwean Growth	Postwean Wt	1.3	95	3.7
	Mature Weight	-1	94	5
	ADG	20	104	12
Fertility	Scrotal Circumf.	4.9	103	3.8
	Heifer Fertility	-1.0	94	-6.2
	Cow Fertility	-4.2	106	-2.9
	Longevity	24.6	103	23.2
Frame	Height	2	101	2
	Length	5	100	5

Selection Value	Ave. Herd
Calving Ease	105
Calf Growth	97
Milk	90
Maintenance	106
Fertility	103
Cow Value	99
Growth Value	100
Production Value	99

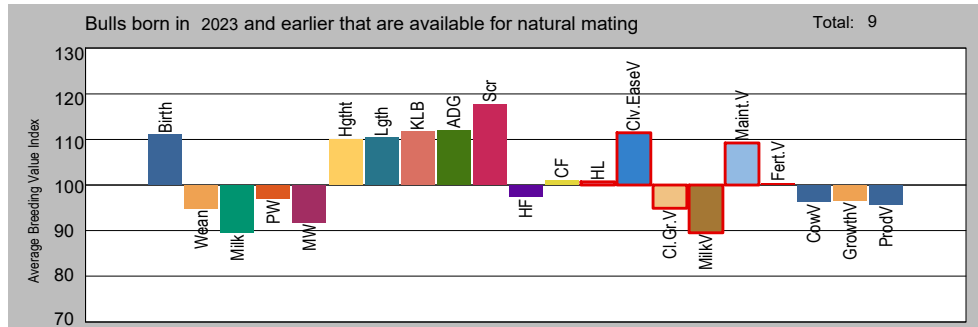
- Average of live animals in the breed: 100
- Above 100: **more favourable**,
- Below 100: **less favourable**

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

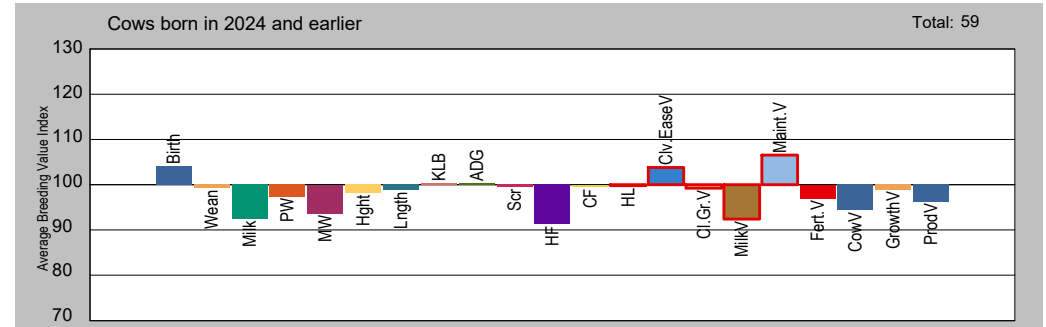
Genetic Windows

Bulls on the farm



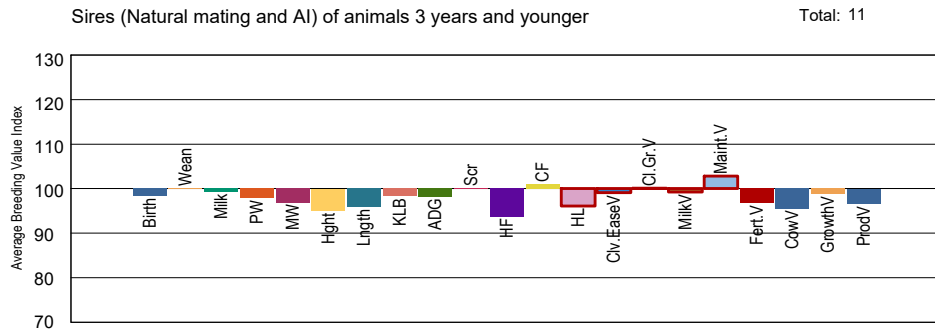
Animals available for breeding

Cow Herd

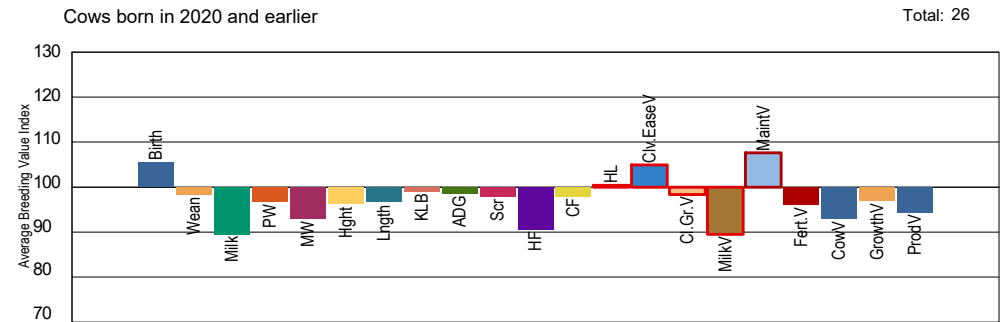


Results of previous selection decisions

Sires of young animals

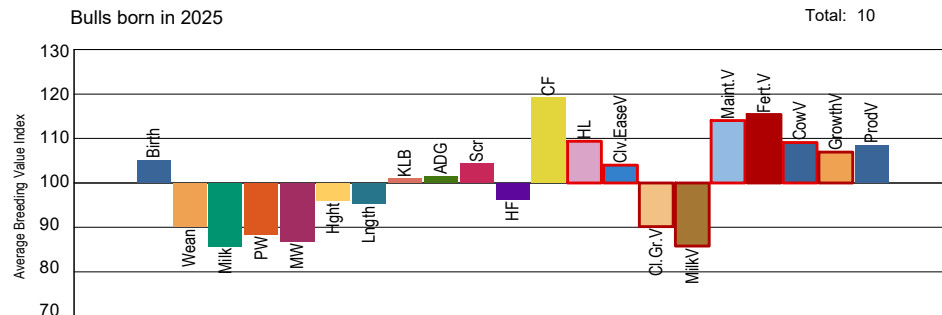


Cows older than 6 years

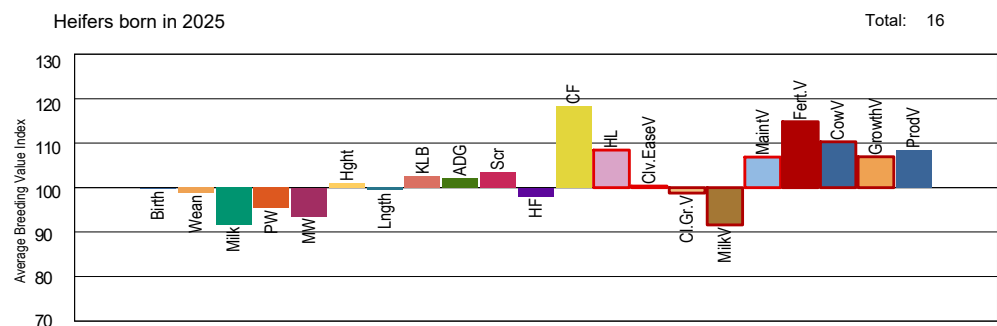


Selection possibilities

Bull calves



Heifer calves

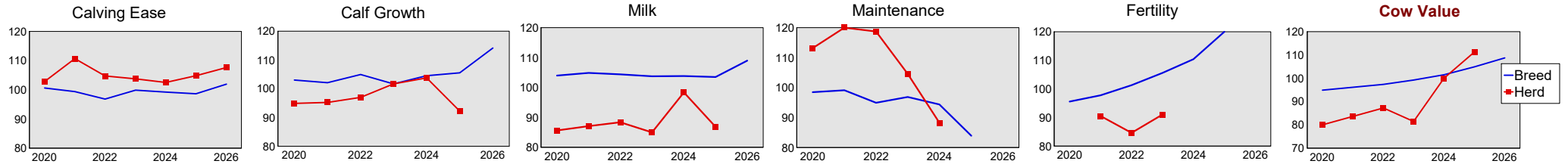


Summary of Cow Herd

			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	100	100	99	99	99	99	100	100	100	99
2014	1	★★★★★	104	87	137	98	107	112	103	107	110	87	62	137	101	98	116	124	130	95	112	103	94	100
2015	1	★★★★	112	92	106	94	105	99	91	94	116	92	78	106	94	103	95	95	92	105	109	96	96	97
2017	10	★★★★☆	103	100	89	108	91	88	95	91	104	100	98	89	97	93	97	97	95	87	93	98	99	97
2018	9	★★★★	112	92	81	119	100	96	98	97	111	92	109	81	90	83	81	80	85	92	99	106	86	86
2020	5	★★★★	95	110	93	92	96	92	98	94	96	110	97	93	108	107	105	105	103	93	100	97	101	102
2021	5	★★★★☆	108	97	90	111	102	100	102	101	106	97	107	90	94	90	102	100	95	96	101	105	100	105
2022	12	★★★★	107	96	91	118	88	90	100	95	107	96	97	91	96	83	90	91	93	84	91	96	90	92
2023	9	★★★★	98	102	97	97	100	93	98	95	98	102	96	97	99	102	100	101	99	93	101	102	96	98
2024	8	★★★★☆	100	105	99	94	106	102	100	101	100	105	99	99	101	106	105	104	105	102	113	95	105	104
2025	16	★★★★★	100	99	92	107	115	110	107	109	100	99	101	92	95	93	102	103	104	98	118	108	101	100
2026	7	★★★★☆	109	91	81	118	111	105	100	102	105	91	110	81	87	84				91	117	106		
Cows in Herd Average:			104	97	96	105	102	99	99	99	105	97	96	96	97	95	99	100	100	94	105	101	97	98

Genetic Trends for On-Farm Traits

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



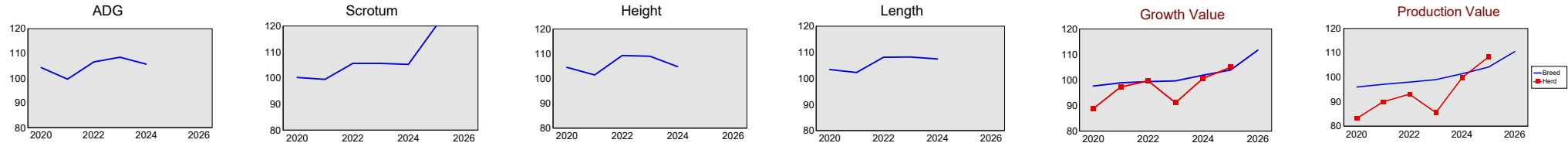
Herd

Birth Year	Calving Ease				Calf Growth			Milk			Maintenance					Fertility								Cow Value
	Birth Weight		Mat 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	
2020	14	0.07	-0.22	103	11	0.9	95	11	-2.36	86	11	-0.2	113							14	10.5			80
2021	11	-0.36	-0.01	111	7	1.0	95	7	-2.00	87	7	1.1	2	-13	120	3	3.7	3	-0.4	8	17.9	91	84	
2022	15	-0.08	0.03	105	16	1.6	97	16	-1.69	88	15	1.7	6	-16	119	9	10.1	2	0.8	1	18.6	85	87	
2023	16	-0.04	0.08	104	17	3.2	102	17	-2.50	85	17	2.9	105			3	6.6					91	82	
2024	26	-0.08	0.18	103	18	4.0	104	18	0.64	98	4	7.1	88											100
2025	36	-0.21	-0.07	105	18	-0.1	92	18	-2.05	87														111
2026	13	-0.12	-0.23	108																				

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		
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		
2020													89	83
2021													97	90
2022													100	93
2023													91	86
2024													101	100
2025													105	108

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	
AVM		AVM 110572	100	91	72	97	110	89	78	82	102	91	91	72	84	102	93	89	103	124	91	73	79	233	156	41	67	
150156		AVM 080462																										
AVM 150156																												
BN 070814		BN 030050	112	80	75	112	70	56	58	54	112	80	153	75	69	91	92	98	70	82	81	91	78	31	33	11	21	4
		BN 050313																										
07 0814																												
DN 120090		AW 030002	118	99	100	104	105	105	107	106	130	99	100	100	97	95	122	130	122	93	105	111	112	55	38	10	21	
		DN 000053																										
DN 120090																												
DN 130143		AW 030002	79	110	118	86	94	96	101	98	79	110	101	118	111	113	106	96	97	102	88	110	115	65	18	4	10	2
		DN 050008																										
DN 130143																												
EX 090200		CS 020092	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 050051																										
EX 9.200																												
EX 170210		EX 120209	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
		EX 080421																										
WIT PENS																												
FB 110060		FB 060029	107	90	67	122	129	117	104	110	102	90	124	67	82	81			95	143	108			7		7	13	
		FB 040088																										
MANGO																												
FB 110080		FB 060029	112	89	77	118	99	91	89	89	107	89	120	77	82	85	81	78	72	141	69	82	84	2	8	8	21	
		FB 010059																										
MANGO																												
FB 120055		O 080007	96	105	84	116	30	36	76	54	99	105	83	84	103	87	85	84	44	35	71	81	82			2	8	
		FB 090135																										
BOESMAN																												
FB 130007		O 080007	116	113	73	110	69	70	95	82	117	113	88	73	111	93	96	91	74	56	107	93	94	69	47	13	32	
		FB 090057																										
BOESMAN																												
FB 150162		T 040052	103	98	96	123	74	82	103	92	103	98	99	96	99	77	89	82	77	83	82	90	87	25	21	10	10	
		FB 090064																										
witblits																												

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
FB 180126		FB 110060 PH 140204	117	80	74	126	133	122	104	112	112	80	121	74	75	75			102	142	114			43	18			
STAAL			63	60	43	20	55	38	50	44	-0.45	-4.6	-0.54	-5.1	-8.9	-19		-7.5	-12.6	31.0								
											67	60	43	43	41	20		58	37	70								
FF 080166		FF 050052 FF 000006	99	122	120	75	107	110	109	110	100	122	91	120	115	128	104	120	104	117	92	119	127	91	158	62	142	4
VUNDIZA FF08166			92	94	91	73	82	68	87	78	0.10	10.4	0.29	5.7	11.1	30	20	11.4	-9.6	-6.8	19.0	11	25					
											93	94	85	91	74	73	71	77	87	65	94	80	77					
FF 110263		LEB 000115 FF 040016	91	139	88	85	109	111	128	121	94	139	86	88	143	116	123	152	111	99	112	129	138		97	36	51	
RUSTY FF 11-263			62	93	85	61	73	61	81	71	0.43	16.2	0.46	-1.7	25.2	20	64	23.6	-15.4	-2.6	29.7	17	34					
											62	93	62	85	72	61	63	72	79	55	86	74	70					
FHG 100002		LEB 060194 LEB 080408	123	83	107	98	91	84	78	79	124	83	98	107	84	100	99	98	116	109	63	100	99	220	108	10	38	
FHG 100002			85	69	76	39	57	48	63	56	-1.09	-3.3	0.11	2.6	-4.4	5	11	2.9	-19.4	-5.0	3.3	2	4					
											86	69	81	76	44	39	20	22	59	32	80	23	22					
GA 120155		MVN 060093 MVN 040113	88	116	115	87	71	76	96	86	95	116	67	115	116	112	117	90	64	85	82	108	111		4	7		
GA120155			65	75	68	46	72	53	68	60	0.39	8.1	0.98	4.5	11.8	16	49	0.0	23.7	0.7	13.6	6	13					
											67	75	57	68	48	46	34	39	82	48	86	40	38					
JF 190009		O 080007 JF 150006	99	104	83	96	75	67	81	73	99	104	98	83	99	102	96	82	86	77	86	92	92	17	15			
JF190009			65	63	54	31	50	40	53	46	0.19	4.0	0.10	-2.9	3.4	7	2	-3.1	5.1	2.5	15.8	-2	-1					
											67	63	57	54	46	31	15	17	53	37	59	17	16					
LEB 090669		LEB 040400 TTT 990011	112	63	132	117	103	105	85	94	112	63	95	132	71	83	76	99	110	114	85	83	86	85	66	16	38	2
LEB 090669			91	88	82	43	66	56	75	66	-0.49	-10.6	0.19	8.4	-10.9	-11	-42	3.5	-14.6	-6.2	15.1	-6	-5					
											92	88	85	82	65	43	70	78	66	47	86	79	76					
LEB 190710		DN 130143 DN 130152	61	123	133	81	95	105	116	111	59	123	75	133	129	118	102	116	83	100	99	107	113	66	59	1	2	8
LEB190710			88	91	56	28	47	44	64	54	2.16	10.6	0.76	8.6	18.4	21	16	10.0	7.7	-3.0	22.6	5	15					
											93	91	62	56	76	28	60	67	58	17	66	69	66					
LEB 200102		T 100315 LEB 140420	96	113	109	84	111	109	107	108	99	113	85	109	109	116	128	132	105	119	97	126	120	35	21			
LEB200102			74	75	60	30	48	42	59	50	0.19	7.1	0.46	3.2	8.1	20	73	15.9	-10.5	-7.2	21.6	15	20					
											77	75	60	60	57	30	62	71	50	35	58	73	69					
PH 140207		FB 070123 PH 060012	123	83	90	136	109	113	120	117	119	83	113	90	88	59	67	67	131	96	104	75	71	35	32	1	2	
PH 140207			82	86	57	38	70	52	70	61	-0.82	-3.5	-0.32	-1.3	-2.2	-33	-61	-8.7	-32.2	-1.9	25.2	-11	-17					
											88	86	49	57	56	38	15	17	77	52	82	17	16					
Q 160029		Q 070062 Q 090037	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 160029			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					
											91	93	73	77	81	54	37	45	73	44	79	43	41					

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	Value	Dir	Dir	Mat.	Mat.	wt	weight		Circ.	Fertility	Fertility	evity			wt	wt		Test
RV 190046		CSF 120038 RV 100036	123	75	105	114	93	90	81	84	119	75	114	105	79	87	86	82	104	89	97	85	87	1	5			
RV 190046			50	64	40	28	46	36	50	43	-0.81	-6.2	-0.35	2.3	-6.9	-7	-18	-3.1	-9.2	-0.3	21.4	-5	-5					
											52	64	41	40	30	28	11	13	49	30	60	13	13					
RVS 150272	T 120058 T 120343		113	92	99	121	94	99	106	102	108	92	120	99	93	80	81	93	118	87	94	85	84	1	50	7	7	
BABAZEKA T			54	90	67	47	62	52	71	62	-0.27	-0.3	-0.52	0.7	0.2	-14	-30	0.9	-21.0	0.2	19.7	-6	-7					
											56	90	45	67	50	47	25	30	71	40	74	31	29					
SK 060038	SK 980010 SK 020004		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 060038			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					
											91	93	70	90	84	71	14	16	83	55	90	17	16					
SS 110056	CS 060021 SS 010004		120	72	122	85	100	87	60	71	122	72	87	122	76	114	103	108	69	133	81	80	83		185	33	92	
FLAKE			68	91	88	74	77	65	83	74	-0.95	-7.2	0.43	6.1	-8.1	17	18	6.9	19.9	-10.6	12.7	-8	-8					
											68	91	70	88	74	74	40	68	84	55	92	47	45					
T 100315	T 050264 T 020151		109	99	89	90	111	98	88	92	110	99	92	89	90	110	97	61	103	125	91	108	91	94	74	64	176	25
T 100315			94	93	93	56	75	63	82	72	-0.38	2.3	0.29	-1.6	-1.5	14	4	-10.9	-8.9	-8.7	18.4	6	-2					
											95	93	92	93	84	56	81	87	80	59	85	87	86					
TT 110017	LEB 060177 LEB 080440		76	127	115	81	89	96	111	104	77	127	98	115	115	119	119	137	87	102	84	112	123	3	56	5	7	
TT 11 0017 - WILLIAM			66	68	57	21	58	42	57	50	1.26	12.1	0.10	4.6	11.2	22	53	17.8	4.2	-3.4	14.4	8	22					
											67	68	58	57	50	21	29	31	62	35	77	32	31					
UCP 130001	JLS 070061 UCP 100021		97	104	103	108	97	102	110	106	95	104	109	103	97	93	93	89	106	86	107	96	92	19	17	7	9	
UCP130001			81	79	59	31	57	46	63	54	0.36	4.1	-0.20	1.7	2.1	-1	-4	-0.5	-11.5	0.4	26.7	0	-1					
											84	79	67	59	61	31	18	20	66	39	67	20	19					
UCP 160017	LEB 110375 UCP 040052		106	99	81	105	99	91	93	91	104	99	106	81	92	95	89	99	94	93	109	88	87		2			
UCP 160017			41	52	32	20	58	35	45	40	-0.08	2.1	-0.10	-3.4	-0.3	0	-12	3.6	-1.5	-1.2	28.1	-4	-5					
											42	52	34	32	40	20	24	27	66	34	73	28	27					

Breeding Values and Accuracies: Bulls

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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	
FB 180126 88136411 STAAL		5	FB 110060 PH 140204	117 63	80 60	74 43	126 20	133 55	122 38	104 50	112 44	112 -0.45 67	121 -0.54 43	75 -19 20	80 -4.6 60	74 -5.1 43	69 -50 41	75 -8.9 41			102 -7.5 58	142 -12.6 37	114 31.0 70			
BA 210008 93107639 BA 210008		4	FB 150162 FB 180033	125 59	86 42	83 46	123 19	93 38	91 30	93 39	91 34	121 -0.91 62	110 -0.23 45	79 -15 19	86 -2.2 42	83 -3.0 46	82 -21 36	86 -3.3 28			83 7.7 43	108 -4.7 21	88 16.9 50			
BA 220009 94310596 BA 220009		2	FB 150162 FB 170111	125 63	92 62	70 48	119 26	77 41	71 35	81 49	75 42	120 -0.86 66	116 -0.40 49	84 -9 26	92 -0.2 62	70 -6.0 48	73 -42 45	84 -4.1 51			89 2.8 44	73 3.4 27	93 19.4 51			
BA 220016 94590460 BA 220016		5	FB 150162 FB 170161	124 62	85 60	82 47	121 16	100 39	95 33	93 46	93 40	128 -1.26 65	116 -0.41 47	81 -13 16	85 -2.5 60	82 -3.2 47	79 -27 41	85 -3.9 44			88 3.9 44	109 -5.0 22	96 21.0 51			
EX 220253 93523231 WP RUSTY		1	EX 170210 EX 140407	85 43	122 71	101 60	74 47	131 47	123 43	109 58	116 50	91 0.59 44	75 0.77 37	132 34 47	122 10.4 71	101 1.2 60	103 24 59	132 19.6 56	144 109 41		141 19.3 46	132 -32.7 54	121 -7.8 33	116 31.9 55	134 19 46	132 29 44
BA 230002 95076568 BA 230002		4	FB 150162 FB 180006	100 46	94 39	92 41	124 21	87 40	91 29	104 37	97 33	99 0.16 46	103 -0.03 46	77 -16 21	94 0.5 39	92 -0.8 41	99 17 34	93 0.2 24			84 7.4 43	92 -1.0 25	93 19.6 51			
BA 230008 96019732 BA 230008			JF 190009 DN 180192	111 62	90 62	107 46	100 21	93 35	90 33	89 46	88 40	111 -0.42 65	95 0.21 46	98 3 21	90 -0.9 62	107 2.6 46	98 14 43	97 2.3 52	91 -9 21		92 0.8 24	94 -1.1 36	93 -1.4 24	98 22.4 45	93 -2 24	94 0 23
BA 230011 96019765 BA 230011		6	JF 190009 FB 170101	115 62	95 62	96 41	97 11	83 34	77 30	82 43	78 36	116 -0.69 65	85 0.47 44	101 6 11	95 0.7 62	96 0.1 41	91 -1 38	100 3.9 50			94 -1.1 38	75 2.9 17	100 23.0 46			
BA 230015 96109517 BA 230015			RVS 150272 RVS 200470	101 61	110 70	101 47	99 28	106 38	107 36	115 51	112 44	101 0.09 66	98 0.11 36	99 4 28	110 6.2 70	101 1.2 47	109 38 48	121 14.2 56	101 13 20		120 11.5 24	111 -15.5 42	96 -2.0 23	108 27.5 49	103 3 25	105 9 23
BA 240007 97419923 BA 240007			LEB 200102 FB 210018	110 60	100 47	100 43	110 22	113 34	116 29	113 39	115 34	110 -0.37 64	97 0.13 41	92 -3 22	100 2.6 47	100 1.0 43	104 26 37	99 3.1 32	104 20 29		105 5.7 34	105 -10.5 39	109 -5.0 23	112 29.5 40	104 4 35	101 6 33
BA 240009 97419949 BA 240009			LEB 200102 UCP 200115	114 59	87 62	110 45	94 23	100 35	93 33	84 46	87 40	114 -0.56 63	94 0.21 41	103 8 23	87 -1.9 62	110 3.3 45	96 9 43	88 -2.4 33	109 32 32		103 4.8 37	96 -2.7 39	105 -3.9 24	97 21.7 43	108 6 38	104 8 36
BA 240011 98176068 BA 240011			LEB 200102 EX 220259	112 61	115 64	96 45	82 29	117 33	111 33	106 48	108 40	113 -0.54 66	90 0.34 39	119 22 29	115 7.9 64	96 0.1 45	100 17 46	119 13.1 44	130 78 37		128 14.3 42	120 -23.0 36	115 -6.3 23	103 25.0 41	128 16 43	124 23 41

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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
	BA 240016		LEB 200102 BN 200626	109 64	103 66	97 45	90 23	99 34	93 33	92 48	92 40	108 -0.29 68	98 0.10 44	109 13 23	103 3.8 66	97 0.3 45	96 8 45	99 3.3 34	117 48 36	116 9.9 41	93 -0.6 36	104 -3.7 24	98 22.3 42	112 8 42	107 10 40
	BA 240020	1	LEB 200102 FB 170111	101 64	98 64	85 46	98 23	96 37	85 34	87 48	85 41	98 0.22 68	114 -0.35 46	101 5 23	98 1.8 64	85 -2.6 46	84 -17 44	91 -0.7 40	101 14 30	102 4.5 35	104 -9.9 40	90 -0.5 26	101 23.9 44	99 2 36	96 2 34
	BA 240026	1	LEB 200102 FB 180036	112 64	99 64	89 46	97 26	102 36	94 34	93 48	92 41	112 -0.47 68	94 0.21 46	101 6 26	99 2.4 64	89 -1.6 46	89 -6 45	97 2.1 38	103 18 29	104 5.2 34	96 -2.5 39	98 -2.5 25	108 27.6 43	103 4 35	99 4 33
	BA 250004		LEB 200102 FB 180069	94 60	113 48	94 44	98 20	99 34	99 29	111 40	105 34	96 0.34 64	91 0.30 43	100 5 20	113 7.3 48	94 -0.3 44	105 30 37	108 7.9 38	110 33 25	110 7.6 31	87 4.8 39	97 -2.1 22	108 27.7 42	108 6 32	105 9 30
	BA 250012		FB 180126 BA 230003	101 57	89 43	103 37	116 25	118 37	118 29	109 38	114 34	101 0.06 62	95 0.20 33	86 -8 25	89 -1.1 43	103 1.7 37	100 19 35	91 -0.8 30		93 1.3 11	97 -3.6 41	124 -8.5 24	108 27.7 45	85 -5 9	84 -7 7
	BA 250015		FB 180126 Q 210054	89 60	101 62	95 42	91 24	131 37	120 33	105 46	112 40	88 0.71 65	106 -0.12 37	107 12 24	101 3.1 62	95 -0.1 42	93 4 43	99 3.0 38		108 -12.9 41	136 -11.2 24	114 30.7 46			
	BA 250017		FB 180126 TU 180067	116 62	66 62	80 35	126 15	114 36	100 30	83 44	90 37	135 -1.59 67	130 -0.81 40	74 -19 15	66 -9.5 62	80 -3.6 35	62 -64 37	64 -14.2 26		106 -11.3 40	111 -5.4 23	110 28.7 45			
	BA 250025	7	FB 180126 BA 220018	106 59	93 60	81 34	123 7	108 31	106 27	107 40	106 34	103 -0.05 64	107 -0.15 32	79 -15 7	93 0.3 60	81 -3.4 34	87 -10 34	91 -0.5 26		87 4.4 36	113 -5.8 14	107 27.1 43			
	BA 250026		FB 180126 RVS 200470	116 58	96 60	82 40	108 19	123 35	115 31	104 44	109 38	114 -0.57 63	105 -0.08 34	94 -1 19	96 1.1 60	82 -3.1 40	83 -18 40	99 3.4 29	93 -5 9	110 7.5 14	104 -9.3 37	123 -8.3 22	115 31.4 46	95 0 15	97 3 14
	BA 250028	7	FB 180126 BA 220004	87 56	99 59	80 33	118 6	114 31	110 26	109 40	110 33	84 0.91 61	113 -0.32 31	84 -9 6	99 2.4 59	80 -3.7 33	88 -7 33	94 0.8 26		89 3.2 36	125 -8.6 14	105 25.7 44			
	BA 250030	8	FB 180126 BA 220005	92 57	97 59	83 33	122 6	107 31	106 26	110 39	108 32	90 0.61 62	108 -0.18 30	79 -14 6	97 1.6 59	83 -3.0 33	92 0 33	93 0.2 26		85 6.5 36	110 -5.2 13	110 28.7 43			
	BA 250032	10	FB 180126 FB 180033	117 58	72 58	76 37		124 34		92 40		112 -0.48 63	130 -0.79 34		72 -7.4 58	76 -4.6 37	64 -61 32	69 -11.9 19		97 -4.0 38	136 -11.2 17	106 26.6 46			

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BA 250033 99606238 BA 250033	3		FB 180126 FB 180056	122 61	76 61	84 42	124 22	116 36	108 32	95 46	100 39	128 -1.26 65	111 -0.26 41	78 -16 22	76 -5.7 61	84 -2.8 42	74 -38 42	76 -8.3 32			103 -8.7 40	116 -6.5 22	111 29.2 47			
BA 260001 6020527617 BA 260001	7		FB 180126 BA 220019	90 59	100 41	83 28		107 31				89 0.66 64	103 -0.03 32		100 2.6 41	83 -3.0 28		96 1.8 25			88 3.9 36	112 -5.7 14	106 26.6 42			
BA 260002 6020441546 BA 260002			FB 180126 BN 200626	110 59	88 47	80 40	118 20	109 37	101 30	94 40	97 35	105 -0.14 63	119 -0.50 39	85 -9 20	88 -1.6 47	80 -3.7 40	78 -30 36	83 -4.9 28	84 -23 13		85 -1.9 16	92 0.7 39	115 -6.4 25	105 25.7 46	83 -6 17	80 -10 16
BA 260003 6020441553 BA 260003	4		FB 180126 BA 210003	119 58	87 43	74 35	124 8	104 32	97 25	96 34	96 30	114 -0.56 63	119 -0.49 36	78 -16 8	87 -2.1 43	74 -5.0 35	74 -38 29	81 -5.9 30			92 0.0 37	106 -4.2 17	106 26.2 43			
BA 260005 6020441942 BA 260005	1		FB 180126 FB 170039	123 59	83 42	88 40	124 21	93 36	92 29	93 37	92 33	124 -1.05 63	95 0.20 41	76 -17 21	83 -3.4 42	88 -1.7 40	85 -14 34	82 -5.3 28			81 9.4 39	102 -3.3 23	95 20.7 46			
BA 260008 6020441983 BA 260008	6		FB 180126 FB 180036	110 59	91 43	70 40	121 10	112 34	103 26	99 36	100 31	107 -0.21 63	113 -0.31 39	81 -12 10	91 -0.6 43	70 -6.1 40	72 -42 31	86 -3.3 28			93 -0.2 39	111 -5.4 18	115 31.2 46			
BA 260014 6020522444 BA 260014			FB 180126 BA 230009	87 59	100 44	83 31	117 14	110 33	107 26	108 35	107 30	85 0.88 64	111 -0.26 34	86 -8 14	100 2.4 44	83 -3.0 31	90 -3 30	92 -0.3 34			93 -0.8 38	112 -5.8 21	109 27.8 41			

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ID Number Name																										
EX 140407 79383188 14.407 RUSTY	3	SS 110056 EX 120405		104 51	87 82	137 84	98 62	107 58	112 55	103 72	107 64	110 -0.37 51	62 1.13 53	98 3 62	87 -2.1 82	137 9.7 84	122 65 76	101 4.4 58	116 47 34	130 15.2 49	95 -1.8 65	112 -5.7 41	103 24.7 69	94 -1 43	100 5 40	
FHG 150239 81792889 FHG 150239		FHG 100002 GHB 080172		112 83	92 72	106 82	94 46	105 51	99 49	91 64	94 56	116 -0.65 83	78 0.67 81	103 8 46	92 -0.2 72	106 2.5 82	97 11 67	94 0.5 44	95 0 18	92 0.9 20	105 -10.0 56	109 -5.0 33	96 21.1 64	96 0 21	97 3 20	
FB 170039 85589224 SLOET	2	FB 120055 FB 130135		97 68	99 59	103 70	122 41	53 51	66 44	96 56	80 50	101 0.05 68	76 0.72 71	78 -15 41	99 2.2 59	103 1.7 70	113 47 57	98 2.8 39	89 -13 8	93 1.1 11	61 26.3 57	62 6.1 36	76 10.5 61	89 -4 11	87 -5 11	
FB 170101 86308608 PAJELLA	1	FB 130007 FB 130173		105 71	106 63	94 68	94 33	86 52	82 43	92 56	86 50	108 -0.29 71	81 0.59 72	105 9 33	106 4.8 63	94 -0.5 68	97 11 55	109 8.2 54	95 1 10	94 1.5 11	99 -5.1 58	76 2.8 36	101 23.8 63	97 0 11	97 3 11	
FB 170111 86308707 PAJELLA	7	FB 130007 FB 090053		125 71	92 66	52 71	114 35	78 56	62 46	70 59	64 52	128 -1.26 71	124 -0.64 71	90 -5 35	92 -0.2 66	52 -10.2 71	54 -82 57	83 -4.9 55		100 -6.5 63	63 5.7 40	100 23.3 64				
FB 170149 86498441 HARLEKYN	3	FB 110080 FB 120114		99 69	101 62	80 70	120 31	112 54	110 44	113 57	112 50	99 0.17 69	100 0.06 71	82 -12 31	101 2.9 62	80 -3.7 70	91 -2 54	98 2.6 44		84 7.4 59	139 -12.0 39	88 16.6 64				
FB 170152 86498474 SLOET	2	FB 120055 FB 090131		103 66	100 59	73 70	119 30	67 53	65 43	86 55	75 49	104 -0.06 65	95 0.21 69	84 -10 30	100 2.6 59	73 -5.2 70	83 -19 53	97 2.1 40		59 27.5 59	70 4.1 37	95 20.3 62				
FB 170161 86540192 STAAL	8	FB 110060 FB 140071		122 66	82 59	71 68	121 25	124 56	111 42	95 54	102 48	119 -0.84 66	143 -1.15 67	82 -12 25	82 -3.6 59	71 -5.8 68	66 -57 51	78 -7.5 40		98 -4.3 63	136 -11.2 41	107 27.2 63				
FB 170193 86620465 PAJELLA	6	FB 130007 FB 080074		112 70	108 63	82 67	98 35	72 55	68 44	87 57	77 50	112 -0.46 70	95 0.20 70	100 5 35	108 5.4 63	82 -3.1 67	91 -2 55	107 7.1 50		78 12.0 62	59 6.7 41	106 26.2 63				
JO 170015 85833804 JO 170015	7	DN 120090 DN 140015		85 79	113 78	105 77	112 26	96 47	108 45	124 61	117 53	89 0.69 80	85 0.46 73	90 -4 26	113 7.3 78	105 2.2 77	121 63 60	111 9.3 63	106 26 36	119 10.9 42	86 5.4 60	89 -0.3 23	113 30.3 58	102 3 43	104 8 41	
LEB 170604 86488509 LEB 170604		T 100315 LEB 120288		105 76	101 69	119 77	86 38	111 54	109 47	100 61	104 54	106 -0.17 76	91 0.30 78	113 17 38	101 2.9 69	119 5.4 77	110 39 61	97 2.3 54	107 27 43	80 -3.9 47	101 -6.7 61	120 -7.5 39	97 21.8 61	113 8 48	105 8 46	
Q 170024 85316560 Q 170024		SK 060038 Q 070040		74 66	95 79	108 79	90 65	109 56	100 54	90 70	94 62	77 1.28 67	90 0.33 62	108 12 65	95 1.0 79	108 3.0 79	99 16 74	94 0.9 64	86 -19 8	90 -0.2 9	103 -8.6 62	119 -7.3 40	93 19.6 65	92 -2 9	93 0 9	

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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																									
DN 180192 86938750 DN 180192	1	LEB 090669 DN 120069	123 73	77 67	113 74	112 27	107 47	106 42	91 57	97 50	120 -0.87 73	108 -0.17 73	89 -6 27	77 -5.6 67	113 4.1 74	97 12 56	81 -5.7 52	80 -32 40	98 3.1 45	101 -6.8 49	110 -5.3 32	100 23.4 60	89 -4 45	91 -2 44	
FB 180006 86867892 STAAL		FB 110060 FB 150065	98 65	90 49	89 52	124 33	98 55	99 39	103 49	101 44	96 0.33 65	106 -0.13 66	76 -17 33	90 -0.9 49	89 -1.5 52	93 3 45	87 -2.5 32		90 2.1 61	101 -3.0 42	102 24.0 62				
FB 180020 86978277 HARLEKYN	5	FB 110080 PH 140216	123 70	79 64	65 74	131 28	119 54	108 44	99 57	103 50	119 -0.80 69	133 -0.88 72	69 -24 28	79 -4.9 64	65 -7.2 74	61 -67 55	73 -9.7 50		98 -4.6 62	135 -11.0 39	99 22.5 62				
FB 180033 87388559 HARLEKYN	5	FB 110080 PH 150200	122 62	83 58	70 67	123 31	113 53	102 42	92 54	96 48	117 -0.70 62	126 -0.68 64	80 -14 31	83 -3.4 58	70 -5.9 67	66 -55 52	79 -6.7 40		89 2.7 59	133 -10.5 38	95 20.5 61				
FB 180036 87388583 PAJELLA	5	FB 130007 FB 150112	112 70	99 65	65 71	116 40	91 53	83 45	90 59	86 52	110 -0.39 70	103 -0.02 70	88 -6 40	99 2.2 65	65 -7.0 71	73 -41 59	95 1.1 50		84 7.1 61	79 1.9 38	115 31.4 61				
FB 180056 87696464 PAJELLA	1	FB 130007 FB 150169	124 72	87 70	91 76	119 50	98 55	97 49	97 64	96 56	124 -1.08 72	102 0.00 73	82 -12 50	87 -2.0 70	91 -1.0 76	89 -6 65	88 -2.5 53		80 -3.8 7	103 -8.4 61	91 -0.8 41	105 25.8 62	87 -4 8	85 -6 7	
FB 180061 87696514 PAJELLA	6	FB 130007 FB 150190	88 69	116 58	81 60	108 29	92 53	94 41	111 53	103 47	93 0.45 69	73 0.80 69	94 -1 29	116 8.2 58	81 -3.4 60	99 16 49	114 10.7 48		86 5.8 60	85 0.6 38	111 28.9 62				
FB 180069 87696589 PAJELLA	12	FB 130007 FB 150193	104 64	109 61	79 65	119 30	86 49	90 41	110 53	100 47	105 -0.11 65	94 0.22 61	83 -11 30	109 5.8 61	79 -3.9 65	97 11 52	105 6.1 50		68 20.1 60	75 3.0 27	120 33.8 60				
TU 180067 87781886 NGIFTU180067		UCP 130001 TU 150038	114 77	91 72	79 56	117 22	94 46	87 40	90 55	88 48	111 -0.41 79	138 -1.02 69	86 -8 22	91 -0.7 72	79 -3.9 56	79 -28 50	84 -4.3 33	82 -27 9	78 -4.4 11	105 -10.3 55	84 0.9 30	103 25.0 52	81 -7 12	81 -9 11	
BN 200626 90978149 BN 200626		BN 070814 NC 150116	103 66	97 73	86 67	104 35	85 49	78 44	85 60	80 52	98 0.21 66	118 -0.46 65	96 1 35	97 1.4 73	86 -2.2 67	87 -11 58	91 -0.9 36	96 2 37	93 1.1 41	82 8.8 53	88 -0.1 35	95 20.3 59	90 -3 42	86 -6 40	
NRF 200158 90978537 NRF 200158	3	FF 080166 NRF 110456	81 78	121 73	89 62	85 45	117 55	110 47	110 62	110 54	81 1.05 79	102 -0.01 70	116 19 45	121 10.0 73	89 -1.5 62	99 17 60	112 10.0 46	95 1 43	103 5.1 46	114 -17.5 62	125 -8.6 40	97 21.8 62	91 -3 47	100 5 46	
RVS 200470 90914813 HELP MII	7	FF 110263 RVS 160238	99 53	124 63	89 69	85 33	112 43	108 40	113 54	111 47	101 0.06 52	88 0.39 56	115 19 33	124 11.0 63	89 -1.6 69	102 22 55	133 20.3 42	117 49 33	146 21.2 39	104 -9.8 48	106 -4.3 25	114 30.5 56	117 11 40	123 23 37	

Breeding Values and Accuracies: Cows

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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																								
UCP 200036	GA 120155																							
91538561	UCP 100066																							
0036																								
UCP 200115	GA 120155																							
91873109	UCP 070020																							
UCP 200115																								
BA 210003	FB 150162																							
92793488	FB 170111																							
BA 210003																								
BA 210005	FB 150162																							
92793504	FB 180020																							
BA 210005																								
FB 210018	PH 140207																							
91764340	FB 170043																							
WAQU																								
Q 210054	Q 160029																							
91838078	Q 100078																							
Q 210054																								
UCP 210064	GA 120155																							
92398437	UCP 170009																							
UCP 210064																								
BA 220002	FB 130007																							
93866101	JO 170015																							
BA 220002																								
BA 220004	FB 150162																							
94310554	FB 180033																							
BA 220004																								
BA 220005	FB 150162																							
94310562	FB 180069																							
BA 220005																								
BA 220006	FB 150162																							
94310570	FB 180020																							
BA 220006																								
BA 220007	FB 150162																							
94310588	FB 170152																							
BA 220007																								

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Animal				Selection Values									Birth		Wean				Growth		Fertility				Frame		
Index EBV Acc	% Inbreeding	Sire ID Dam ID		Calv. Ease V	Calf Growth V	Milk V	Maint. V	Fertility V	Cow Value	Growth Value	Prod. Value	Birth wt dir	Birth mat	Mature wt	Wean wt	Wean mat	Cow-Calf Ratio (Wean)	Postwean wt	ADG	Scrotal Circ.	Heifer Fertility	Cow Fertility	Longevity	Height	Length		
ID Number Name																											
BA 220008	10	FB 150162		111	87	90	130	82	86	100	93	109	106	69	87	90	95	87			77	79	103				
94701885		FB 180036		65	63	56	23	40	36	49	42	-0.33	-0.12	-24	-2.1	-1.3	7	-2.6			12.8	2.1	24.8				
BA 220008													67	54	23	63	56	47	46			51	18	50			
BA 220010	4	FB 150162		121	88	94	123	97	99	103	101	120	100	78	88	94	95	90			112	100	88				
94310604		FB 180056		66	62	49	29	44	37	50	44	-0.87	0.05	-15	-1.6	-0.4	7	-1.4			-16.3	-2.8	16.6				
BA 220010													68	56	29	62	49	47	50			52	28	52			
BA 220014	4	DN 130143		100	89	118	100	101	100	94	96	98	108	97	89	118	107	92	88			93	100	106	95	96	98
94448339		DN 180192		69	69	51	21	35	35	50	42	0.22	-0.18	2	-1.4	5.2	33	-0.3	-14		1.2	-5.9	-4.2	20.3	0	4	
BA 220014													73	51	21	69	51	47	60	34		38	38	17	49	38	37
BA 220017	5	FB 150162		114	89	82	125	83	82	92	86	111	111	77	89	82	85	86			77	92	90				
94590478		FB 170151		59	59	43	15	38	31	44	38	-0.41	-0.25	-17	-1.1	-3.3	-15	-3.2			13.0	-0.9	17.6				
BA 220017													63	42	15	59	43	39	43			43	21	51			
BA 220018	4	FB 150162		110	101	89	122	80	87	106	97	111	90	79	101	89	101	103			73	83	97				
94590486		FB 180064		65	63	56	29	41	37	51	44	-0.42	0.34	-15	2.9	-1.6	20	5.4			15.9	1.0	21.5				
BA 220018													67	53	29	63	56	49	46			52	20	50			
BA 220019	4	FB 150162		86	111	92	116	81	89	112	101	91	79	86	111	92	109	111			74	83	98				
94590494		FB 180061		66	60	44	22	42	34	47	40	0.57	0.64	-8	6.5	-0.9	38	9.2			15.4	1.2	22.2				
BA 220019													68	55	22	60	44	42	46			52	23	51			
FHG 220631	1	AVM 150156		103	95	92	91	109	95	85	89	108	71	108	95	92	85	93	93			90	104	116	96	84	88
93917367		FHG 150239		71	59	62	38	37	38	51	44	-0.29	0.86	12	0.7	-0.9	-15	0.2	-4		0.0	-9.4	-6.7	21.3	-6	-4	
FHG 220631													73	63	38	59	62	53	38	16		18	39	22	49	18	18
BA 230003	4	EX 090200		97	95	132	100	103	111	109	110	103	66	97	95	132	125	104	108			110	92	107	102	93	94
95076576		EX 140407		48	61	60	46	49	42	55	48	-0.03	1.02	2	0.7	8.6	73	5.7	29		7.5	0.4	-4.4	24.4	-1	0	
BA 230003													48	50	46	61	60	56	46	25		34	58	32	57	32	30
BA 230004		TT 110017		88	115	100	92	83	84	101	92	87	106	106	115	100	109	107	105			113	76	93	90	100	103
95451134		BN 200626		53	67	44	20	42	35	49	42	0.79	-0.11	11	8.0	1.1	37	7.4	24		8.9	13.7	-1.2	17.8	2	7	
BA 230004													53	52	20	67	44	44	42	23		26	51	24	50	26	25
BA 230005	1	AVM 150156		109	88	89	96	108	92	80	85	110	88	103	88	89	79	84	93			90	104	116	94	84	88
95451142		FHG 150239		60	69	56	32	37	37	53	45	-0.38	0.38	7	-1.6	-1.6	-27	-4.4	-3		0.1	-9.2	-6.7	19.9	-6	-4	
BA 230005													61	57	32	69	56	52	46	16		18	39	22	49	18	18
BA 230009		JF 190009		72	114	92	102	87	88	106	97	74	98	97	114	92	105	105	102			101	85	83	103	98	99
96019740		JO 170015		66	64	47	20	39	34	48	41	1.43	0.12	2	7.4	-0.9	29	6.1	16		4.2	5.8	1.0	24.6	1	4	
BA 230009													69	53	20	64	47	44	54	19		22	51	22	44	23	22
BA 230012	7	JF 190009		102	109	68	105	84	76	91	83	101	102	96	109	68	80	99			84	79	103				
96109483		FB 180036		62	62	43	16	34	31	45	38	0.08	0.00	1	5.6	-6.5	-25	3.4			6.8	2.1	25.0				
BA 230012													65	44	16	62	43	40	50			39	18	45			

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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																								
FB 230040 95493490 ZULU	13	FB 180126 FB 210018	116 50	85 63	82 33		125 32				111 -0.43 51	116 -0.39 43		85 -2.5 63	82 -3.1 33		83 -4.6 6			103 -8.7 37	121 -7.8 13	121 34.5 45		
LEB 230033 95925673 LEB 230033		LEB 190710 LEB 160485	91 71	108 72	116 49	90 20	103 35	105 35	108 51	107 43	95 0.37 75	81 0.59 49	107 11 20	108 5.5 72	116 4.8 49	116 53 47	110 8.6 46	98 7 40	95 2.0 45	94 -1.3 40	109 -5.0 20	98 22.3 46	110 7 46	106 10 45
Q 230067 95576203 Q 230067		RV 190046 Q 210054	102 50	101 67	105 41	87 27	111 34	103 33	95 48	98 40	99 0.16 50	110 -0.23 48	112 16 27	101 3.0 67	105 2.2 41	99 16 45	102 4.9 46	97 6 9	93 1.2 12	109 -13.3 38	110 -5.1 21	104 25.4 44	95 -1 12	101 6 11
UCP 230081 95526422 UCP 230081	2	UCP 160017 UCP 200115	102 34	103 63	88 37	100 17	92 37	87 30	95 44	90 37	102 0.03 34	99 0.09 33	99 3 17	103 3.8 63	88 -1.7 37	93 2 39	97 2.4 38	98 8 10	93 1.1 14	87 4.3 44	94 -1.4 20	99 22.7 47	95 -1 14	95 1 13
BA 240002 97153837 BA 240002	1	JF 190009 NRF 200158	75 57	118 48	86 41	90 27	96 36	90 31	101 41	95 36	76 1.34 60	103 -0.04 45	109 13 27	118 8.9 48	86 -2.2 41	98 13 39	110 8.5 32	95 2 22	93 1.0 24	100 -6.2 40	101 -3.1 26	92 18.8 43	91 -2 25	96 2 24
BA 240005 97147508 BA 240005	1	LEB 200102 FHG 150239	90 64	108 53	108 51	89 28	108 34	105 33	104 44	104 38	93 0.46 67	85 0.48 51	110 14 28	108 5.3 53	108 2.8 51	107 34 44	105 6.1 36	111 36 32	112 8.4 37	105 -10.3 37	114 -6.1 23	97 21.4 43	111 8 38	109 12 36
BA 240008 97419931 BA 240008	1	LEB 200102 BA 210005	120 61	93 48	93 38	109 15	106 31	103 27	98 37	100 32	118 -0.76 65	103 -0.03 42	93 -2 15	93 0.3 48	93 -0.7 38	91 -2 34	90 -1.5 37	100 11 28	101 4.2 34	102 -7.6 35	114 -6.2 20	95 20.4 39	100 2 35	96 2 33
BA 240010 97640825 BA 240010	1	LEB 200102 Q 210054	75 60	116 65	114 47	78 28	120 34	117 34	108 48	112 41	77 1.24 64	92 0.28 43	124 27 28	116 8.3 65	114 4.3 47	112 44 47	113 10.3 48	115 45 32	116 10.0 37	110 -14.3 38	124 -8.5 23	105 25.6 42	113 8 38	115 16 36
BA 240013 98189178 BA 240013	1	LEB 200102 DN 180192	116 64	103 63	107 48	92 16	109 33	107 32	103 46	105 39	117 -0.70 68	90 0.33 47	106 11 16	103 3.6 63	107 2.6 48	104 27 42	101 4.3 44	109 32 36	119 11.1 41	101 -7.1 34	116 -6.6 22	99 22.8 42	112 8 42	110 13 40
BA 240014 98228828 BA 240014		LEB 200102 FB 180033	111 61	100 62	87 45	101 21	113 36	105 33	101 46	103 40	109 -0.31 64	107 -0.13 44	98 3 21	100 2.6 62	87 -1.9 45	89 -5 43	94 0.6 41	101 14 29	102 4.7 34	97 -3.5 39	126 -8.9 26	97 21.6 43	102 3 35	99 5 33
BA 240018 98189202 BA 240018	13	LEB 200102 LEB 170604	105 65	109 64	113 47	83 16	111 27	110 30	104 44	107 37	107 -0.25 68	85 0.49 48	117 20 16	109 5.9 64	113 3.9 47	109 38 42	105 6.4 34	122 60 32	109 7.3 39	102 -7.5 32	120 -7.6 11	98 22.1 38	123 13 40	116 17 38
TU 240029 97848659 TU 240029		TU 180067	107 64	92 36	86 28	112 11	83 23	79 21	84 28	80 24	102 0.01 70	126 -0.67 34	91 -4 11	92 -0.1 36	86 -2.3 28	85 -15 25	88 -2.5 16	88 -16 5	86 -1.7 6	102 -7.7 27	91 -0.7 15	78 11.4 26	89 -3 6	90 -2 5

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Index EBV Acc		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
BA 250001	LEB 200102	77	121	104	85	96	97	107	102	80	87	115	121	104	112	115	124	113	93	103	93	118	115
98176167	UCP 200036	62	61	43	24	35	32	46	39	1.09	0.42	19	9.9	2.0	44	11.2	64	8.6	-0.4	-3.7	19.7	11	16
BA 250001										66	40	24	61	43	43	34	33	38	39	23	43	39	37
BA 250003	LEB 200102	71	122	95	93	105	106	119	113	75	84	105	122	95	111	117	109	108	95	102	111	107	104
98837040	FB 180061	62	47	42	21	36	30	40	35	1.37	0.50	9	10.4	-0.1	42	12.2	31	6.9	-2.4	-3.3	29.0	5	8
BA 250003										65	45	21	47	42	37	37	29	34	39	25	43	35	33
BA 250005	LEB 200102	98	113	99	84	114	109	105	107	99	92	116	113	99	102	108	112	118	109	122	97	108	110
98837065	NRF 200158	63	52	43	27	36	32	43	38	0.16	0.29	20	7.3	0.8	22	7.8	37	10.5	-14.0	-7.9	21.7	6	13
BA 250005										67	46	27	52	43	41	36	37	42	40	26	42	43	41
BA 250007	LEB 200102	93	114	96	90	92	90	101	95	94	93	108	114	96	103	111	114	110	92	89	101	109	107
98837081	FB 170193	63	49	45	23	37	31	41	36	0.41	0.26	12	7.7	0.1	26	9.1	42	7.4	0.8	-0.3	23.9	6	10
BA 250007										66	46	23	49	45	39	38	30	35	40	27	43	36	34
BA 250010	LEB 200102	93	101	109	87	110	104	95	99	96	86	112	101	109	102	99	107	111	104	119	95	109	106
99056541	Q 170024	61	54	50	36	37	35	46	40	0.33	0.45	16	3.0	3.1	23	3.5	27	7.9	-9.6	-7.3	20.6	7	10
BA 250010										65	43	36	54	50	47	43	31	36	40	26	44	37	35
BA 250011	LEB 200102	93	107	108	90	112	109	107	108	96	84	108	107	108	107	104	108	110	105	114	103	109	106
99056558	FHG 150239	65	65	51	28	35	35	49	42	0.33	0.50	12	5.0	2.8	34	5.8	29	7.4	-10.3	-6.1	25.0	6	9
BA 250011										68	51	28	65	51	48	36	32	37	37	23	44	38	36
BA 250013	FB 180126	91	93	83	113	124	115	103	108	90	101	90	93	83	83	88		103	129	110			
99352932	FHG 220631	61	58	38	21	33	30	43	36	0.61	0.01	-4	0.1	-2.9	-18	-2.4		-8.6	-9.6	28.7			
BA 250013										66	38	21	58	38	39	28		35	21	44			
BA 250014	FB 180126	120	85	79	130	118	114	110	112	115	114	70	85	79	81	83		94	125	109			
99352940	BA 220006	59	59	34	8	32	27	40	34	-0.63	-0.34	-23	-2.7	-3.9	-23	-4.8		-1.4	-8.7	28.0			
BA 250014										64	33	8	59	34	34	28		37	15	44			
BA 250018	FB 180126	105	83	106	116	124	122	106	114	105	94	85	83	106	98	88	93	102	98	127	115	84	86
99420481	EX 140407	58	63	47	33	40	36	50	43	-0.15	0.23	-9	-3.4	2.5	14	-2.4	-4	4.7	-4.4	-9.2	31.4	-6	-6
BA 250018										63	34	33	63	47	48	35	10	21	43	27	50	17	15
BA 250021	FB 180126	123	71	96	123	123	117	97	106	118	117	77	71	96	81	72	69	82	102	125	114	77	76
99606113	DN 180192	62	61	42	17	36	31	45	38	-0.77	-0.44	-16	-7.5	0.0	-22	-10.1	-56	-3.0	-7.9	-8.8	30.9	-9	-13
BA 250021										66	42	17	61	42	40	32	15	18	38	24	47	19	18
BA 250023	FB 180126	96	108	81	112	114	112	114	114	96	102	91	108	81	94	101		89	120	111			
99606139	UCP 200115	58	59	39	20	38	32	44	38	0.34	0.00	-3	5.3	-3.3	4	4.0		2.7	-7.5	29.0			
BA 250023										63	35	20	59	39	39	26		42	25	48			
BA 250024	FB 180126	114	88	80	128	111	109	109	109	111	111	72	88	80	84	85		89	111	116			
99606147	BA 220008	59	60	34	6	31	27	40	34	-0.41	-0.25	-21	-1.6	-3.7	-17	-3.7		3.3	-5.4	31.7			
BA 250024										64	33	6	60	34	33	28		36	14	43			

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																								
BA 250027 99606170 BA 250027	13	FB 180126 FB 210018	113 57	92 59	80 33		128 31				110 -0.36 63	113 -0.31 30		92 -0.1 59	80 -3.7 33		89 -1.7 6			102 -7.9 37	122 -8.0 13	127 37.7 44		
BA 250029 99606196 BA 250029		FB 180126 JO 170015	91 62	112 63	85 44	116 15	118 37	121 32	127 46	125 39	92 0.53 66	98 0.10 42	87 -7 15	112 6.7 63	85 -2.5 44	102 24 41	105 6.4 37	96 3 13	103 4.8 17	92 0.7 41	117 -6.8 22	120 34.1 47	95 -1 17	95 1 16
BA 250037 99819641 BA 250037	9	FB 180126 FB 180020	113 60	82 42	69 40	129 6	126 34	115 26	104 35	109 30	108 -0.26 64	129 -0.76 39	72 -21 6	82 -3.8 42	69 -6.2 40	67 -53 29	76 -8.3 25			100 -6.0 39	138 -11.8 18	107 26.7 46		
BA 250038 99819658 BA 250038		FB 180126 LEB 170604	115 62	89 46	96 44	107 22	122 38	115 31	100 40	107 36	112 -0.49 66	105 -0.10 44	94 -1 22	89 -1.3 46	96 0.1 44	90 -4 37	85 -3.8 34	90 -11 17	78 -4.4 20	101 -7.1 42	131 -10.1 27	106 26.4 46	95 -1 20	90 -3 19
BA 260004 6020441934 BA 260004		FB 180126 UCP 210064	99 58	95 37	83 29	117 17	112 35	108 25	104 33	106 29	96 0.30 62	110 -0.22 36	86 -8 17	95 0.9 37	83 -3.0 29	87 -11 28	90 -1.1 25			89 2.7 38	119 -7.3 23	108 27.4 44		
BA 260006 6020441959 BA 260006	6	FB 180126 FB 170152	111 59	90 41	73 39	123 8	100 34	94 26	95 34	94 30	108 -0.28 63	108 -0.16 39	79 -14 8	90 -1.0 41	73 -5.2 39	76 -35 29	86 -3.4 24			80 10.0 39	106 -4.3 18	105 25.6 46		
BA 260009 6020441967 BA 260009	2	FB 180126 BA 220002	123 59	85 46	80 35	122 10	108 34	102 26	96 36	98 31	118 -0.76 63	115 -0.38 37	80 -14 10	85 -2.8 46	80 -3.6 35	78 -31 30	82 -5.4 32			94 -1.6 40	105 -4.1 19	112 29.7 44		
BA 260010 6020441975 BA 260010		FB 180126 Q 170024	100 59	86 49	91 45	111 34	121 39	112 34	96 44	103 39	98 0.20 63	105 -0.08 38	91 -3 34	86 -2.3 49	91 -1.1 45	84 -17 43	84 -4.5 38			102 -8.1 42	130 -10.0 27	104 25.3 48		
BA 260011 6020522410 BA 260011	7	FB 180126 FB 170149	109 59	90 42	77 40	123 7	122 35	116 26	108 35	112 30	106 -0.17 63	110 -0.24 40	78 -15 7	90 -0.9 42	77 -4.4 40	80 -26 30	86 -3.2 25			93 0.0 39	140 -12.3 19	101 23.8 47		
BA 260012 6020522428 BA 260012	3	FB 180126 FB 170193	114 59	94 43	78 38	116 15	103 37	96 28	96 37	95 32	111 -0.45 63	108 -0.17 40	87 -7 15	94 0.4 43	78 -4.1 38	80 -25 32	91 -0.8 30			90 2.3 41	100 -3.0 23	110 28.6 47		
BA 260013 6020522436 BA 260013		FB 180126 BA 230004	104 56	97 44	87 31	112 14	108 34	104 26	102 35	103 30	101 0.07 61	113 -0.31 34	90 -4 14	97 1.5 44	87 -2.0 31	90 -4 30	91 -1.0 29			89 3.1 38	117 -6.9 22	102 24.4 43		

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	EX 220253	WP RUSTY	EX 170210	EX 140407	1.5	85 43	122 71	101 60	74 47	131 47	123 43	109 58	116 50
2	FB 180126	STAAL	FB 110060	PH 140204	5.5	117 63	80 60	74 43	126 20	133 55	122 38	104 50	112 44
					★★★★☆								
1	BA 240007	BA 240007	LEB 200102	FB 210018	0.2	110 60	100 47	100 43	110 22	113 34	116 29	113 39	115 34
2	BA 240011	BA 240011	LEB 200102	EX 220259	0.3	112 61	115 64	96 45	82 29	117 33	111 33	106 48	108 40
					★★★★								
1	BA 230015	BA 230015	RVS 150272	RVS 200470	0.2	101 61	110 70	101 47	99 28	106 38	107 36	115 51	112 44
					★★★★☆								
1	BA 210008	BA 210008	FB 150162	FB 180033	4.4	125 59	86 42	83 46	123 19	93 38	91 30	93 39	91 34
2	BA 220016	BA 220016	FB 150162	FB 170161	5.3	124 62	85 60	82 47	121 16	100 39	95 33	93 46	93 40
3	BA 230002	BA 230002	FB 150162	FB 180006	3.6	100 46	94 39	92 41	124 21	87 40	91 29	104 37	97 33
4	BA 230008	BA 230008	JF 190009	DN 180192	0.1	111 62	90 62	107 46	100 21	93 35	90 33	89 46	88 40
5	BA 240009	BA 240009	LEB 200102	UCP 200115	0.2	114 59	87 62	110 45	94 23	100 35	93 33	84 46	87 40
6	BA 240016	BA 240016	LEB 200102	BN 200626	0.5	109 64	103 66	97 45	90 23	99 34	93 33	92 48	92 40
7	BA 240026	BA 240026	LEB 200102	FB 180036	1.5	112 64	99 64	89 46	97 26	102 36	94 34	93 48	92 41
					★★★								
1	BA 240020	BA 240020	LEB 200102	FB 170111	0.5	101 64	98 64	85 46	98 23	96 37	85 34	87 48	85 41
					★★☆								
1	BA 220009	BA 220009	FB 150162	FB 170111	2.0	125 63	92 62	70 48	119 26	77 41	71 35	81 49	75 42
2	BA 230011	BA 230011	JF 190009	FB 170101	6.4	115 62	95 62	96 41	97 11	83 34	77 30	82 43	78 36

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	FB 210018	WAQU	PH 140207	FB 170043	3.2	115 60	91 58	91 60	131 27	116 49	120 39	124 51	123 45
2	Q 210054	Q 210054	Q 160029	Q 100078	0.7	68 65	122 77	117 72	71 45	127 49	124 47	110 63	117 55
					★★★★☆								
1	BA 230003	BA 230003	EX 090200	EX 140407	4.3	97 48	95 61	132 60	100 46	103 49	111 42	109 55	110 48
2	BA 240010	BA 240010	LEB 200102	Q 210054	0.6	75 60	116 65	114 47	78 28	120 34	117 34	108 48	112 41
3	BA 240018	BA 240018	LEB 200102	LEB 170604	12.6	105 65	109 64	113 47	83 16	111 27	110 30	104 44	107 37
4	EX 140407	14.407 RUSTY	SS 110056	EX 120405	3.3	104 51	87 82	137 84	98 62	107 58	112 55	103 72	107 64
5	FB 170149	HARLEKYN	FB 110080	FB 120114	3.2	99 69	101 62	80 70	120 31	112 54	110 44	113 57	112 50
6	FB 170161	STAAL	FB 110060	FB 140071	7.9	122 66	82 59	71 68	121 25	124 56	111 42	95 54	102 48
7	NRF 200158	NRF 200158	FF 080166	NRF 110456	3.1	81 78	121 73	89 62	85 45	117 55	110 47	110 62	110 54
					★★★								
1	BA 220006	BA 220006	FB 150162	FB 180020	4.4	126 66	84 63	86 57	133 21	98 41	100 36	108 50	104 43
2	BA 220014	BA 220014	DN 130143	DN 180192	4.0	100 69	89 69	118 51	100 21	101 35	100 35	94 50	96 42
3	BA 240005	BA 240005	LEB 200102	FHG 150239	0.5	90 64	108 53	108 51	89 28	108 34	105 33	104 44	104 38
4	BA 240008	BA 240008	LEB 200102	BA 210005	1.3	120 61	93 48	93 38	109 15	106 31	103 27	98 37	100 32
5	BA 240013	BA 240013	LEB 200102	DN 180192	1.1	116 64	103 63	107 48	92 16	109 33	107 32	103 46	105 39
6	BA 240014	BA 240014	LEB 200102	FB 180033	0.2	111 61	100 62	87 45	101 21	113 36	105 33	101 46	103 40
7	DN 180192	DN 180192	LEB 090669	DN 120069	0.9	123 73	77 67	113 74	112 27	107 47	106 42	91 57	97 50
8	FB 180020	HARLEKYN	FB 110080	PH 140216	4.7	123 70	79 64	65 74	131 28	119 54	108 44	99 57	103 50
9	FB 180033	HARLEKYN	FB 110080	PH 150200	4.8	122 62	83 58	70 67	123 31	113 53	102 42	92 54	96 48
10	JO 170015	JO 170015	DN 120090	DN 140015	7.2	85 79	113 78	105 77	112 26	96 47	108 45	124 61	117 53
11	LEB 170604	LEB 170604	T 100315	LEB 120288	0.0	105 76	101 69	119 77	86 38	111 54	109 47	100 61	104 54
12	LEB 230033	LEB 230033	LEB 190710	LEB 160485	0.3	91 71	108 72	116 49	90 20	103 35	105 35	108 51	107 43
13	Q 170024	Q 170024	SK 060038	Q 070040	0.0	74 66	95 79	108 79	90 65	109 56	100 54	90 70	94 62
14	Q 230067	Q 230067	RV 190046	Q 210054	0.3	102 50	101 67	105 41	87 27	111 34	103 33	95 48	98 40
15	RVS 200470	HELP MII	FF 110263	RVS 160238	7.1	99 53	124 63	89 69	85 33	112 43	108 40	113 54	111 47

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	BA 210005	BA 210005	FB 150162	FB 180020	4.4	129 67	79 59	76 48	130 16	101 42	95 34	95 46	94 40
2	BA 220004	BA 220004	FB 150162	FB 180033	4.4	97 51	103 61	87 55	113 26	92 42	93 36	102 49	97 42
3	BA 220010	BA 220010	FB 150162	FB 180056	3.7	121 66	88 62	94 49	123 29	97 44	99 37	103 50	101 44
4	BA 230005	BA 230005	AVM 150156	FHG 150239	0.8	109 60	88 69	89 56	96 32	108 37	92 37	80 53	85 45
5	BA 240002	BA 240002	JF 190009	NRF 200158	0.6	75 57	118 48	86 41	90 27	96 36	90 31	101 41	95 36
6	FB 180006	STAAL	FB 110060	FB 150065	0.0	98 65	90 49	89 52	124 33	98 55	99 39	103 49	101 44
7	FB 180056	PAJELLA	FB 130007	FB 150169	1.1	124 72	87 70	91 76	119 50	98 55	97 49	97 64	96 56
8	FB 180061	PAJELLA	FB 130007	FB 150190	5.8	88 69	116 58	81 60	108 29	92 53	94 41	111 53	103 47
9	FB 180069	PAJELLA	FB 130007	FB 150193	11.6	104 64	109 61	79 65	119 30	86 49	90 41	110 53	100 47
10	FHG 150239	FHG 150239	FHG 100002	GHB 080172	0.0	112 83	92 72	106 82	94 46	105 51	99 49	91 64	94 56
11	FHG 220631	FHG 220631	AVM 150156	FHG 150239	0.8	103 71	95 59	92 62	91 38	109 37	95 38	85 51	89 44
					★★								
1	BA 220002	BA 220002	FB 130007	JO 170015	0.3	125 66	91 71	86 59	118 26	83 49	82 41	90 56	85 48
2	BA 220005	BA 220005	FB 150162	FB 180069	6.9	98 52	104 61	92 55	121 19	79 40	87 35	109 48	98 42
3	BA 220008	BA 220008	FB 150162	FB 180036	10.4	111 65	87 63	90 56	130 23	82 40	86 36	100 49	93 42
4	BA 220017	BA 220017	FB 150162	FB 170151	5.3	114 59	89 59	82 43	125 15	83 38	82 31	92 44	86 38
5	BA 220018	BA 220018	FB 150162	FB 180064	3.7	110 65	101 63	89 56	122 29	80 41	87 37	106 51	97 44
6	BA 220019	BA 220019	FB 150162	FB 180061	3.7	86 66	111 60	92 44	116 22	81 42	89 34	112 47	101 40
7	BA 230004	BA 230004	TT 110017	BN 200626	0.3	88 53	115 67	100 44	92 20	83 42	84 35	101 49	92 42
8	BA 230009	BA 230009	JF 190009	JO 170015	0.2	72 66	114 64	92 47	102 20	87 39	88 34	106 48	97 41
9	FB 170101	PAJELLA	FB 130007	FB 130173	0.5	105 71	106 63	94 68	94 33	86 52	82 43	92 56	86 50
10	FB 180036	PAJELLA	FB 130007	FB 150112	4.7	112 70	99 65	65 71	116 40	91 53	83 45	90 59	86 52
11	TU 180067	NGIFTU180067	UCP 130001	TU 150038	0.4	114 77	91 72	79 56	117 22	94 46	87 40	90 55	88 48
12	UCP 200115	UCP 200115	GA 120155	UCP 070020	0.2	102 55	103 58	98 67	98 34	87 52	85 42	94 54	89 48
13	UCP 210064	UCP 210064	GA 120155	UCP 170009	0.1	103 58	103 44	92 40	102 28	91 44	88 32	97 41	92 36
14	UCP 230081	UCP 230081	UCP 160017	UCP 200115	1.8	102 34	103 63	88 37	100 17	92 37	87 30	95 44	90 37

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	BA 210003	BA 210003	FB 150162	FB 170111	2.0	127 68	92 63	75 57	121 26	75 44	72 38	86 51	78 44
2	BA 220007	BA 220007	FB 150162	FB 170152	4.5	95 65	104 60	85 46	120 15	70 41	75 33	100 46	88 40
3	BA 230012	BA 230012	JF 190009	FB 180036	6.5	102 62	109 62	68 43	105 16	84 34	76 31	91 45	83 38
4	BN 200626	BN 200626	BN 070814	NC 150116	0.2	103 66	97 73	86 67	104 35	85 49	78 44	85 60	80 52
5	TU 240029	TU 240029		TU 180067	0.0	107 64	92 36	86 28	112 11	83 23	79 21	84 28	80 24
6	UCP 200036	0036	GA 120155	UCP 100066	0.2	92 53	106 56	103 62	90 36	80 51	78 41	88 52	82 46
						★							
1	FB 170039	SLOET	FB 120055	FB 130135	2.1	97 68	99 59	103 70	122 41	53 51	66 44	96 56	80 50
2	FB 170111	PAJELLA	FB 130007	FB 090053	7.4	125 71	92 66	52 71	114 35	78 56	62 46	70 59	64 52
3	FB 170152	SLOET	FB 120055	FB 090131	1.7	103 66	100 59	73 70	119 30	67 53	65 43	86 55	75 49
4	FB 170193	PAJELLA	FB 130007	FB 080074	6.4	112 70	108 63	82 67	98 35	72 55	68 44	87 57	77 50

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	BA 250015	BA 250015	FB 180126	Q 210054	0.5	89 60	101 62	95 42	91 24	131 37	120 33	105 46	112 40
					★★★★☆								
1	BA 250012	BA 250012	FB 180126	BA 230003	0.5	101 57	89 43	103 37	116 25	118 37	118 29	109 38	114 34
2	BA 250026	BA 250026	FB 180126	RVS 200470	0.3	116 58	96 60	82 40	108 19	123 35	115 31	104 44	109 38
3	BA 250028	BA 250028	FB 180126	BA 220004	7.4	87 56	99 59	80 33	118 6	114 31	110 26	109 40	110 33
					★★★★								
1	BA 250017	BA 250017	FB 180126	TU 180067	0.2	116 62	66 62	80 35	126 15	114 36	100 30	83 44	90 37
2	BA 250025	BA 250025	FB 180126	BA 220018	7.5	106 59	93 60	81 34	123 7	108 31	106 27	107 40	106 34
3	BA 250030	BA 250030	FB 180126	BA 220005	7.9	92 57	97 59	83 33	122 6	107 31	106 26	110 39	108 32
4	BA 250033	BA 250033	FB 180126	FB 180056	2.7	122 61	76 61	84 42	124 22	116 36	108 32	95 46	100 39
5	BA 260002	BA 260002	FB 180126	BN 200626	0.1	110 59	88 47	80 40	118 20	109 37	101 30	94 40	97 35
6	BA 260008	BA 260008	FB 180126	FB 180036	6.2	110 59	91 43	70 40	121 10	112 34	103 26	99 36	100 31
7	BA 260014	BA 260014	FB 180126	BA 230009	0.1	87 59	100 44	83 31	117 14	110 33	107 26	108 35	107 30
					★★★★☆								
1	BA 250004	BA 250004	LEB 200102	FB 180069	0.4	94 60	113 48	94 44	98 20	99 34	99 29	111 40	105 34
2	BA 260003	BA 260003	FB 180126	BA 210003	3.7	119 58	87 43	74 35	124 8	104 32	97 25	96 34	96 30
3	BA 260005	BA 260005	FB 180126	FB 170039	1.0	123 59	83 42	88 40	124 21	93 36	92 29	93 37	92 33

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	BA 250018	BA 250018	FB 180126	EX 140407	0.4	105 58	83 63	106 47	116 33	124 40	122 36	106 50	114 43
2	BA 250029	BA 250029	FB 180126	JO 170015	0.1	91 62	112 63	85 44	116 15	118 37	121 32	127 46	125 39
★★★★☆													
1	BA 250013	BA 250013	FB 180126	FHG 220631	0.1	91 61	93 58	83 38	113 21	124 33	115 30	103 43	108 36
2	BA 250014	BA 250014	FB 180126	BA 220006	7.0	120 59	85 59	79 34	130 8	118 32	114 27	110 40	112 34
3	BA 250021	BA 250021	FB 180126	DN 180192	0.1	123 62	71 61	96 42	123 17	123 36	117 31	97 45	106 38
4	BA 250023	BA 250023	FB 180126	UCP 200115	0.3	96 58	108 59	81 39	112 20	114 38	112 32	114 44	114 38
5	BA 250037	BA 250037	FB 180126	FB 180020	9.2	113 60	82 42	69 40	129 6	126 34	115 26	104 35	109 30
6	BA 250038	BA 250038	FB 180126	LEB 170604	0.1	115 62	89 46	96 44	107 22	122 38	115 31	100 40	107 36
7	BA 260010	BA 260010	FB 180126	Q 170024	0.1	100 59	86 49	91 45	111 34	121 39	112 34	96 44	103 39
8	BA 260011	BA 260011	FB 180126	FB 170149	7.5	109 59	90 42	77 40	123 7	122 35	116 26	108 35	112 30
★★★★													
1	BA 250003	BA 250003	LEB 200102	FB 180061	0.5	71 62	122 47	95 42	93 21	105 36	106 30	119 40	113 35
2	BA 250005	BA 250005	LEB 200102	NRF 200158	0.9	98 63	113 52	99 43	84 27	114 36	109 32	105 43	107 38
3	BA 250010	BA 250010	LEB 200102	Q 170024	0.4	93 61	101 54	109 50	87 36	110 37	104 35	95 46	99 40
4	BA 250011	BA 250011	LEB 200102	FHG 150239	0.5	93 65	107 65	108 51	90 28	112 35	109 35	107 49	108 42
5	BA 250024	BA 250024	FB 180126	BA 220008	5.5	114 59	88 60	80 34	128 6	111 31	109 27	109 40	109 34
6	BA 260004	BA 260004	FB 180126	UCP 210064	0.1	99 58	95 37	83 29	117 17	112 35	108 25	104 33	106 29
7	BA 260009	BA 260009	FB 180126	BA 220002	2.5	123 59	85 46	80 35	122 10	108 34	102 26	96 36	98 31
8	BA 260013	BA 260013	FB 180126	BA 230004	0.1	104 56	97 44	87 31	112 14	108 34	104 26	102 35	103 30
★★★☆☆													
1	BA 250001	BA 250001	LEB 200102	UCP 200036	0.2	77 62	121 61	104 43	85 24	96 35	97 32	107 46	102 39
2	BA 250007	BA 250007	LEB 200102	FB 170193	0.4	93 63	114 49	96 45	90 23	92 37	90 31	101 41	95 36
3	BA 260006	BA 260006	FB 180126	FB 170152	5.5	111 59	90 41	73 39	123 8	100 34	94 26	95 34	94 30
4	BA 260012	BA 260012	FB 180126	FB 170193	2.5	114 59	94 43	78 38	116 15	103 37	96 28	96 37	95 32

	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 18mth 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.

