

NGUNI

BREEDING VALUE REPORT

September 2026



JSIB PTY LTD

Herd Number: 734769

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NGUNI Cattle Breeders' Society
Beestelersgenootskap



LOGIX



EBVs, EBVi's and GEBVs

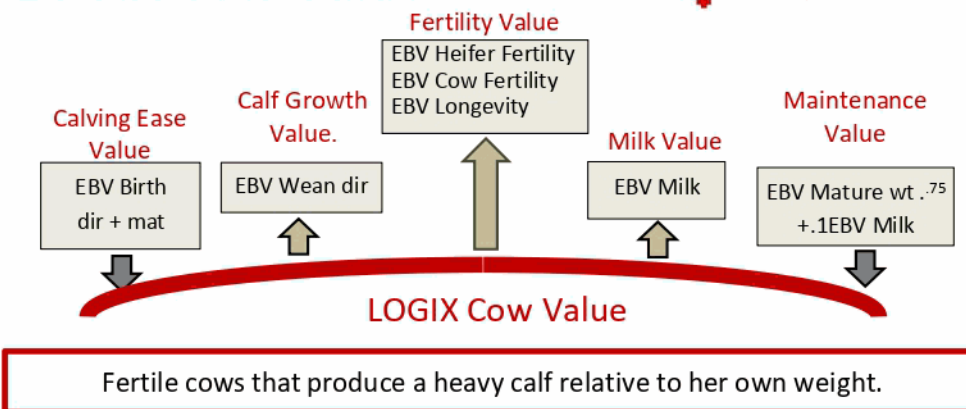
EBVi (Breeding Value Index): Genetic potential relative to the average (100) of the live (active) animals in the breed. Roughly 50% of the animals have values between 90 and 110. Values above 100, depending on the trait, tend to be in the more favourable direction.

EBV (Breeding Value): Genetic potential relative to the average of the animals born in the base year (1990), expressed in the unit of measurement.

GEBV (Genomic Breeding Value) Interpreted like the EBVi. (GEBV = EBV + Genomic information)

LOGIX Selection values combine different breeding values in a logical way. For example, Heifer Fertility (how early a heifer starts calving), Cow Fertility (how regular she calves) and Longevity (retention within the family) are combined to form the Fertility Value.

LOGIX Cow Value



Selection Values

LOGIX Cow Value



Selecting for:

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

LOGIX Growth Value



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

LOGIX Production Value



80% LOGIX Cow Value +
20% LOGIX Growth Value

LOGIX Carcass Value



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

How to use the Cow Value

Selection values should be compatible with your selection goal.

AVERAGE ANIMALS

(NO GROWTH EXTREMES)

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

GROWERS

(GOOD ENVIRONMENT)

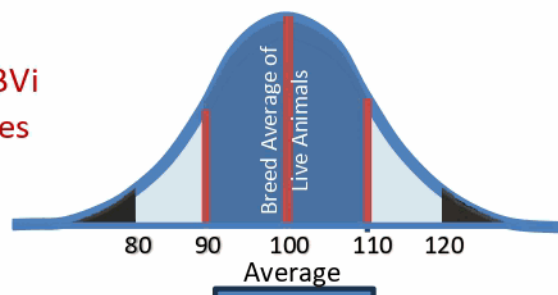
- WeanerCalf / Growth Value > 120
 - Cow Value and Fertility Value average to high
- Growers are usually heavier at birth (lower Calving Ease Value), and maturity (lower Maintenance Value).

LOW- MAINTENANCE ANIMALS

(HARSH ENVIRONMENT)

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

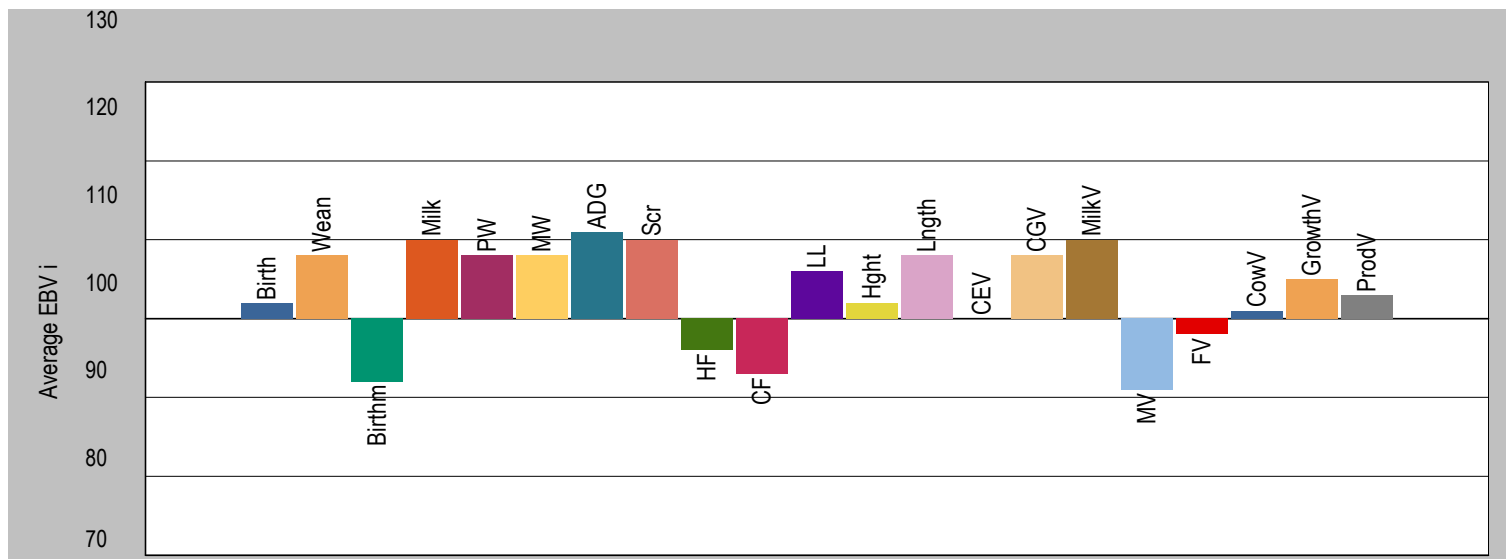
Interpretation of EBVi and Selection Values



Examples

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

Herd and Breed Averages



Breeding Values:

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

Selection Values:

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

	Trait	EBV Herd	EBVIndex	EBV Breed
Prewean Growth	Birth Weight	0.01	102	0.12
	Wean Weight	5.3	108	2.6
	Birth Mat.	0.29	92	0.05
	Milk (Wn.Mat.)	3.3	110	1.0
Postwean Growth	Postwean Wt	7.8	108	3.7
	Mature Weight	12	108	5
	ADG	37	111	12
Fertility	Scrotal Circumf.	7.6	110	3.8
	Heifer Fertility	-3.2	96	-6.2
	Cow Fertility	-1.3	93	-2.9
	Longevity	26.6	106	23.2
Frame	Height	3	102	2
	Length	11	108	5

Selection Value	Ave. Herd
Calving Ease	100
Calf Growth	108
Milk	110
Maintenance	91
Fertility	98
Cow Value	101
Growth Value	105
Production Value	103

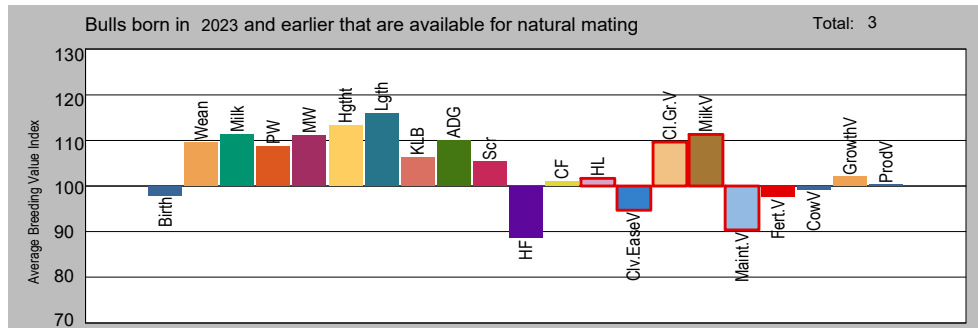
- Average of live animals in the breed: 100
- Above 100: **more favourable**,
- Below 100: **less favourable**

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

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

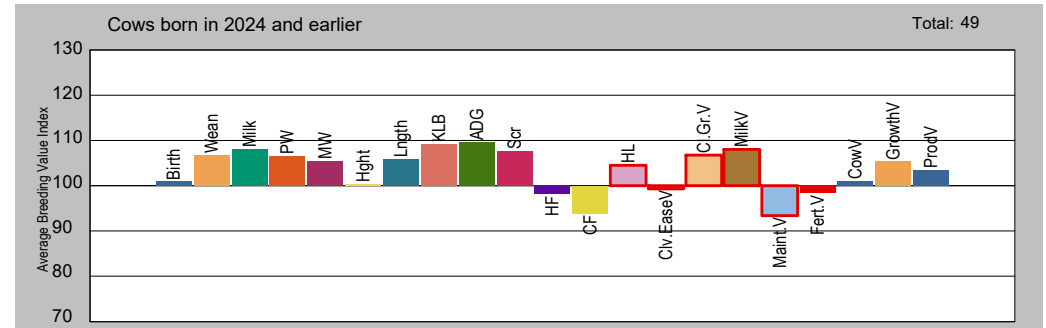
Genetic Windows

Bulls on the farm



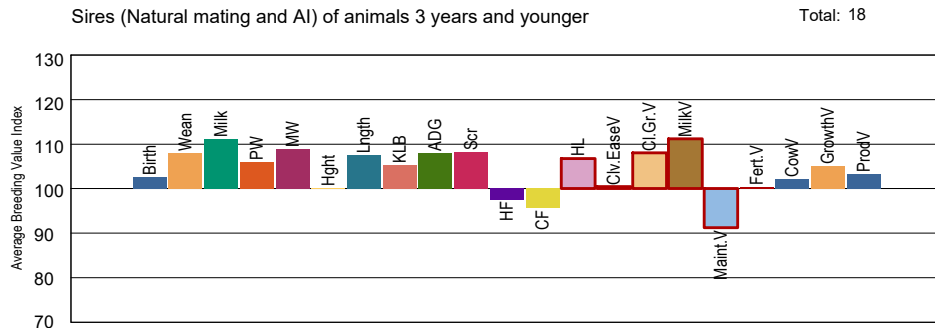
Animals available for breeding

Cow Herd

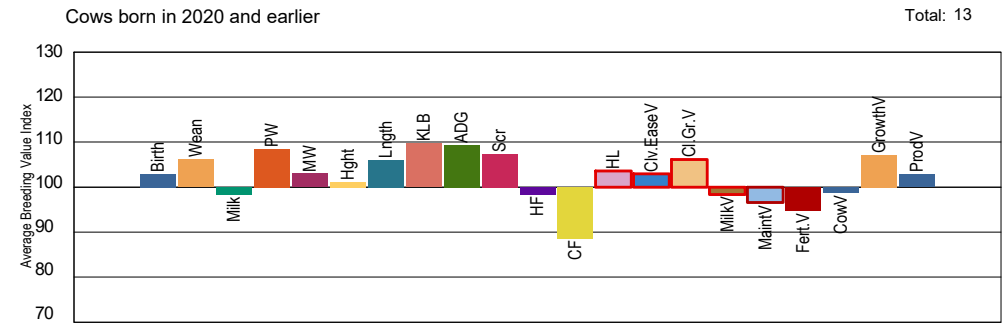


Results of previous selection decisions

Sires of young animals

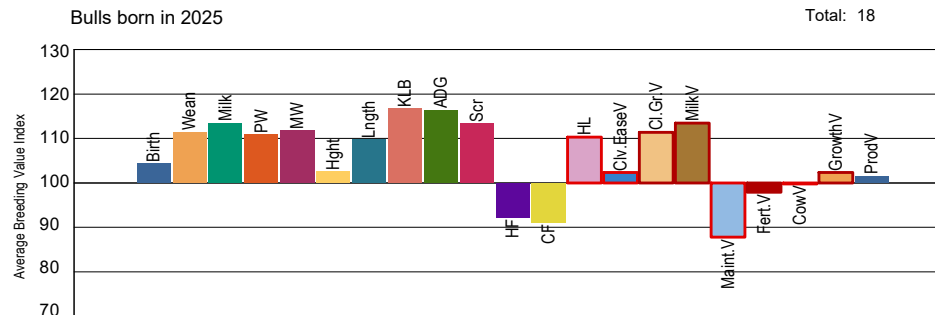


Cows older than 6 years

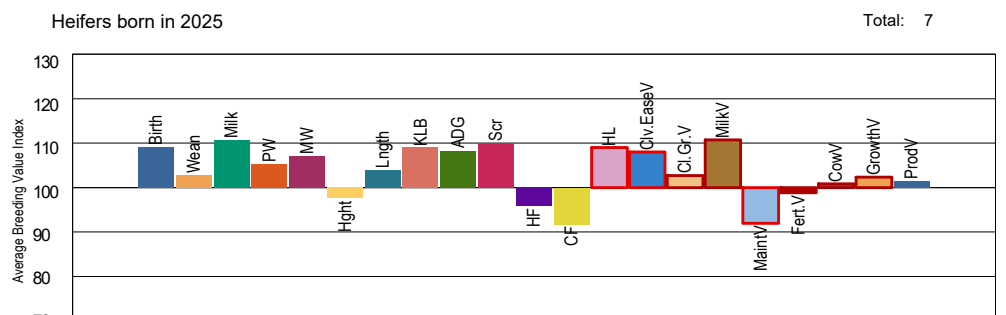


Selection possibilities

Bull calves



Heifer calves

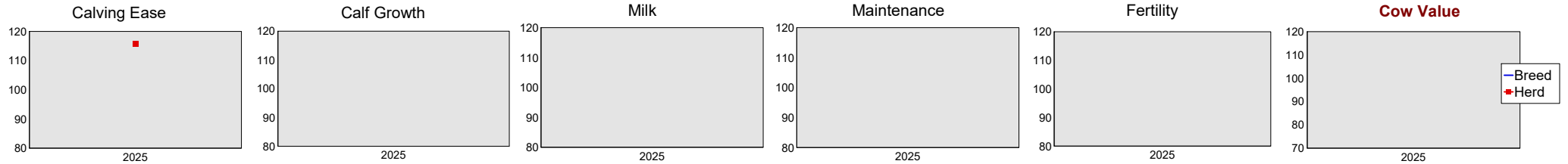


Summary of Cow Herd

			Selection Values (SV)								Calf Weight		Dam		Growth & Efficiency				Fertiity				Frame	
Birth Year	No. Cows	Average Cow Value	Calving Ease	Calf Grwth	Milk	Maint.	Fertility	Cow Value	Growth Value	Prod Value	Birth Weight	Wean Weight	Birth Mat.	Milk (Wn.Mat)	Postwn Weight	Mature Weight	ADG	Kleiber	Scrotal Circumf.	Heifer Fertility	Cow Fertility	Longevity	Height	Length
		Cows in Breed Average:	100	100	100	101	100	100	100	100	100	100	100	100	100	100	99	99	99	99	100	100	100	99
2013	1	★★★★☆	84	130	86	97	99	104	127	116	85	130	99	86	119	101	126	126	118	92	92	113	109	115
2014	2	★★★★	89	122	87	101	97	99	118	109	88	122	106	87	114	98	112	115	106	92	99	100	99	105
2015	2	★★★★	88	118	95	93	93	93	108	101	91	118	88	95	119	105	106	105	109	96	88	103	105	107
2016	1	★★★★	103	118	123	73	95	98	96	96	109	118	70	123	122	131	126	126	117	86	104	93	117	123
2019	3	★★★★	115	89	99	100	92	97	90	93	113	89	103	99	93	101	98	94	99	103	85	99	102	106
2020	4	★★★★☆	113	94	107	104	96	104	109	106	112	94	102	107	98	95	106	110	106	104	82	110	88	94
2021	2	★★★★☆	97	115	107	95	97	102	114	109	99	115	89	107	114	103	118	118	118	103	94	100	100	110
2022	4	★★★★	100	117	97	85	97	94	101	97	102	117	90	97	114	115	116	118	112	92	95	104	103	108
2023	21	★★★★☆	99	103	114	95	99	103	104	104	101	103	93	114	102	104	108	107	103	98	94	106	103	106
2024	9	★★★★☆	96	109	111	89	103	104	106	105	98	109	86	111	110	109	108	107	113	99	101	105	94	104
2025	7	★★★★☆	108	103	111	92	99	101	102	102	109	103	96	111	105	107	108	109	110	96	92	109	98	104
2026	2	★★★★☆	99	112	112	87	101	102	106	104	102	112	85	112	113	113	122	121	114	99	91	112	98	107
Cows in Herd Average:			99	111	104	93	97	100	107	104	101	111	92	104	110	107	113	113	110	97	93	105	101	107

Genetic Trends for On-Farm Traits

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



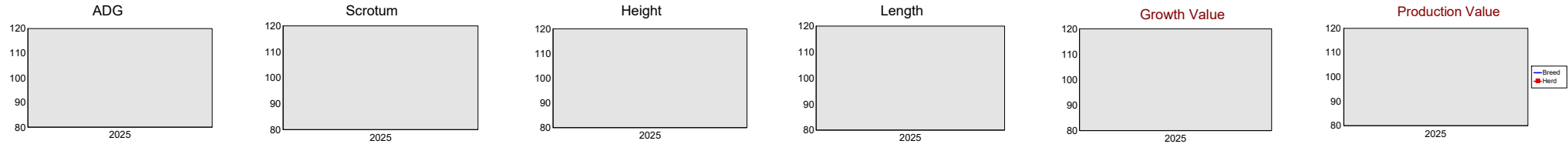
Herd

Birth Year	Calving Ease				Calf Growth			Milk		Maintenance				Fertility				Cow Value				
	Birth Weight		Dir	Mat	Calv. Ease	Weaning Weight		Calf Growth	Milk (Wn.Mat.)		Postwean Weight		Mature Weight	Maintenance	Heifer Fert.		Cow Fert.		Longevity		Ferti- lity	
	Number	EBV				Number	EBV		Number	EBV	Number	EBV			Number	EBV	Number		EBV	Number		EBV
2025	3	-0.49	-0.25	116																		

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.)		Postwean Weight		Mature Weight		Mainte-nance	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	
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		
2025														

Breed

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

Sires

Bull			Selection Values								Calf		Dam		Growth			Fertility				Frame		Measured Progeny				
ID	Index EBV Acc	Sire ID	Calv. Ease Value	Calf Grwth Value	Milk Value	Maint. Value	Fertility Value	Cow Value	Growth Value	Prod Value	Birth Dir	Wean Dir	Birth Mat.	Wean Mat.	Post wn wt	Mature weight	ADG	Scrotal Circ.	Heifer Fertility	Cow Fertility	Long- evity	Height	Length	Birth wt	Wean wt	Dgt/Calvs.	Grwth Test	
																												Dam ID
A 080085		LEB 000203 A 040102	80	142	59	105	95	97	131	115	79	142	106	59	134	96	136	121	91	105	89	105	118	37	78	26	113	1
A0885			86	91	88	60	67	60	79	70	1.17	17.4	-0.12	-8.5	20.7	1	91	11.8	1.0	-4.1	17.3	4	19					
											90	91	69	88	72	60	63	72	68	47	86	74	70					
EW 160015		MVN 090175 RV 050004	107	109	110	78	90	86	85	84	108	109	94	110	108	124	117	119	104	94	86	118	139		20	2	2	
SOCRATES			40	84	61	40	48	45	63	54	-0.27	5.6	0.24	3.4	7.8	27	49	10.9	-9.2	-1.5	15.4	11	34					
											41	84	34	61	67	40	53	64	54	28	62	66	62					
EW 160036		MVN 090175 GJ 080028	106	116	120	70	92	91	87	88	111	116	70	120	126	136	135	128	89	91	101	126	128	1	14	5	10	
EW 160036			47	83	69	47	54	49	67	58	-0.43	8.3	0.91	5.6	16.7	38	88	14.6	2.6	-0.7	23.9	15	27					
											50	83	30	69	63	47	55	65	59	37	66	67	63					
EW 160041		GA 120069 EW 130025	87	114	93	94	106	103	111	107	86	114	107	93	109	104	114	117	116	95	108	97	106	3	63	10	11	
SENECA			46	89	70	49	56	51	70	60	0.84	7.5	-0.14	-0.6	8.3	8	42	10.1	-19.1	-1.7	27.5	1	10					
											49	89	29	70	74	49	53	64	68	33	68	66	62					
EW 190025		GA 130150 EW 160046	97	119	124	78	103	108	109	109	103	119	71	124	122	123	127	125	86	95	119	115	121		50			
VOLTAIRE			28	87	53	38	45	42	61	52	-0.02	9.3	0.89	6.5	14.7	26	71	13.4	5.5	-1.7	33.5	9	21					
											29	87	21	53	58	38	20	23	48	28	58	24	23					
EW 190047		MVN 070108 EW 160018	113	84	138	109	89	101	99	99	114	84	88	138	91	91	94	92	88	76	112	82	87		15			
EW 190047			30	82	60	43	52	46	63	54	-0.57	-3.1	0.38	9.9	-0.6	-4	0	0.6	3.9	2.6	29.4	-7	-5					
											31	82	25	60	72	43	22	25	60	34	63	25	24					
EW 200010		GA 140072 EW 170066	111	103	131	85	103	108	105	106	115	103	74	131	107	113	113	114	92	89	122	85	99	1	17			
AURELIUS			24	82	56	37	40	40	58	49	-0.62	3.8	0.79	8.3	7.3	17	40	9.0	0.5	-0.3	35.0	-5	4					
											27	82	11	56	48	37	6	15	47	19	54	16	14					
EW 200147		MVN 070108 EW 160046	94	125	117	77	100	105	111	108	100	125	73	117	122	126	129	121	87	93	116	115	124	2	13			
EW 200147			40	81	58	44	48	44	62	53	0.13	11.5	0.81	5.1	14.7	28	76	11.7	4.7	-1.3	31.7	10	23					
											43	81	27	58	49	44	24	28	51	35	59	28	27					
EW 210027		MVN 090175 EW 130021	90	133	111	77	105	110	119	115	94	133	77	111	131	126	136	129	96	94	117	122	132	1				
LEO			46	60	60	44	46	41	53	47	0.40	14.3	0.70	3.6	19.5	28	92	14.7	-3.2	-1.6	32.2	13	29					
											49	60	29	60	50	44	36	42	48	32	57	42	41					
GA 110025		SW 070373 MVN 000201	76	128	103	83	76	80	102	91	80	128	83	103	127	118	128	124	73	84	89	150	146		51	18	46	
GA110025			28	89	84	64	69	59	77	68	1.11	12.5	0.54	1.6	17.3	21	73	13.1	16.5	1.0	17.2	27	40					
											29	89	26	84	66	64	56	67	76	47	85	69	65					
GA 110152		KW 030033 MVN 060097	91	107	90	89	106	96	95	95	92	107	99	90	105	111	95	123	109	96	110	64	88					
GA110152			87	93	81	59	68	59	79	69	0.54	5.2	0.07	-1.4	6.2	15	0	12.4	-13.7	-2.0	28.6	-16	-4	116	102	17	38	
											92	93	64	81	84	59	58	68	75	46	84	70	66					

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	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.	wn	weight		Circ.	Fertility	Fertility	evity			wt	wt		Test
Name			Value	Value	Value	Value	Value	Value	Value	Value																		
GA 140072		MVN 060017	96	120	126	78	87	95	104	99	100	120	78	126	115	123	125	121	69	85	110	84	109		93	22	34	
LEONARDO		MVN 060097																										45
			45	92	81	60	66	58	77	68	46	92	41	81	74	60	35	39	78	44	76	40	38					
GA 150098		MVN 060017	93	116	122	83	89	95	104	100	97	116	83	122	112	117	115	111	98	76	107	84	101		69	9	9	
GA150098		MVN 060129																										36
			36	92	70	51	64	54	73	64	37	92	32	70	63	51	33	37	76	39	76	38	37					
GA 150103		MVN 090198	112	104	106	98	87	90	100	95	112	104	97	106	101	99	112	110	105	88	87	113	108		1	3		
BELHAZZAR II		CJ 070159																									35	71
			35	71	58	37	44	40	55	48	36	71	32	58	32	37	32	37	46	30	55	38	36					
GA 190060		GA 140105	78	124	114	83	116	119	123	122	84	124	73	114	120	117	127	122	115	106	113	117	118		25			
GA190060		GA 110124																								31	84	55
			31	84	55	39	48	43	61	52	32	84	27	55	59	39	20	23	57	28	60	24	22					
H 140285		H 090663	127	69	99	119	71	67	66	64	125	69	114	99	70	83	72	80	113	47	98	84	82		1			
VICE GRIP		H 060327																								31	38	19
			31	38	19	11	68	32	39	36	31	38	29	19	22	11	11	12	79	47	78	12	12					
JS180278		JS080224	94	104	114	88			88		96	104	89	114	102	110	89	124	65		86	105	115	46	35	8	11	15
18 0278JS		JS060105																										
			83	85	55	33		56			89	85	52	55	70	33	66	73	30		41	76	73					
LEB 190697		LEB 150471	117	100	115	92	121	120	111	116	126	100	78	115	100	105	107	71	110	120	111	122	117	12	11		3	
LEB190697		LEB 170547																										77
			77	75	54	26	43	39	56	48	81	75	56	54	58	26	46	53	45	29	56	54	52					
LEB 190703		LEB 090669	93	93	122						94	93	97	122	91		85	118	103		103	86	99	1	1			
LEB190703		DN 160108																								72	72	53
			72	72	53						75	72	54	53	32		55	68	9		53	71	66					
LEB 190749		DN 130143	111	101	99	93	107	101	99	99	112	101	91	99	93	105	84	82	111	106	100	107	110	25	22	5	9	8
LEB190749		LEB 100240																										
			85	87	65	43	50	48	67	58	89	87	65	65	68	43	70	77	57	29	64	79	76					
MVN 070108		MVN 990006	105	101	130	90	85	92	99	95	107	101	88	130	96	106	115	102	91	84	94	101	111		98	34	104	
MVN070108 - MYTHOS		CS 990041																										53
			53	94	90	71	77	65	84	74	55	94	42	90	74	71	33	38	84	58	90	39	37					
MVN 090175		T 020176	96	136	135	64	93	105	110	108	102	136	56	135	143	144	144	139	101	97	90	135	146	4	134	45	127	9
MVN090175		MVN 050133																										
			63	92	87	67	71	62	81	72	67	92	43	87	82	67	64	73	77	53	82	75	72					

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	
PH 120137		TOL 020072	124	70	77	127	124	111	92	100	119	70	115	77	72	73	64	69	135	122	100	74	70				
MABALA	PH 030004	56																									
																		11	82	55	84	11	11				
T 130049		T 090134	111	82	76	117	84	73	73	71	108	82	112	76	77	86	68	78	82	92	89	79	72				
	BRB 080006	46																						44	32	22	67
		T 130049									48	44	39	32	34	22	12	14	77	45	79	14	14				
T 170085		T 120058	106	108	103	98	102	104	111	107	103	108	114	103	104	100	114	108	110	100	97	109	110				
	T 140075	50																						52	48	32	58
											51	52	46	48	38	32	28	33	67	35	73	34	32				
T 170374		GL 110061	112	88	87	119	94	91	93	91	108	88	115	87	83	83	82	83	94	96	97	88	86				
	T 060241	48																						46	38	26	49
											52	46	31	38	24	26	15	16	50	28	69	16	16	2			
T 190068		T 120058	108	114	109	103	99	109	123	117	106	114	105	109	107	96	111	121	97	89	112	109	107				
	T 080157	57																						55	54	37	56
											58	55	50	54	40	37	28	33	63	38	66	34	32	1			
XA 170023		GA 110152	84	112	104	87	112	108	106	107	88	112	85	104	115	112	97	115	97	119	103	84	98				
	DPN 100122	70																						86	57	38	48
		ARCHIE XA170023									74	86	50	57	73	38	30	35	50	31	63	36	34	26			

Growth Tests

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

Animal			Weight			Frame				Growth	
Test Code	Sex	Test no	Cow	Wean	End-	Length	Height	Length/ Height	Scrotum	ADG	Growth
Test station		ID	Value	dir	weight						Value
202301	D11	M									
		0019885NGI									
BERTIE VAN ZYL EDMS		ZZN 220061	109	119	130	139	136	121	117	118	114
BPK		94488293	32	70	24 68	34 67	20 71	1.12 69	10.3 68	53 59	48
		JS180278									
		LEB 180682									

Breeding Values and Accuracies: Bulls

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

Inbreeding in red is high

Value <80 Value >120

Breeding values with an accuracy < 5% are not printed

Animal				Selection Values								Birth		Wean				Growth		Fertility				Frame	
Index EBV Acc	% 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																									
EW 200147 90934894 EW 200147	1	MVN 070108 EW 160046		94 40	125 81	117 58	77 44	100 48	105 44	111 62	108 53	100 0.13 43	73 0.81 27	126 28 44	125 11.5 81	117 5.1 58	120 62 61	122 14.7 49	129 76 24	121 11.7 28	87 4.7 51	93 -1.3 35	116 31.7 59	115 10 28	124 23 27
ZZN 220061 94488293 ZZN220061		JS180278 LEB 180682		76 70	119 70	127 47	82 24	102 27	109 32	114 48	112 40	83 0.96 75	71 0.87 46	117 21 24	119 9.2 70	127 7.3 47	127 78 47	120 13.8 50	118 53 59	117 10.3 68	87 4.6 33	114 -6.1 10	97 21.3 38	136 20 71	139 34 67
H 230303 95215935 H 230303		T 130049 H 130138		114 29	85 32	90 24	112 15	91 44	84 25	81 31	81 28	111 -0.43 30	107 -0.13 26	90 -4 15	85 -2.8 32	90 -1.4 24	82 -22 24	84 -4.2 22	83 -25 16	78 -4.7 19	92 0.2 50	96 -1.9 31	92 19.1 52	89 -3 19	85 -6 18
EW 250013 99094187 EW 250013	1	EW 200147 EW 220066		101 23	113 53	117 40	83 26	93 32	96 29	101 40	98 34	104 -0.09 24	82 0.56 17	117 20 26	113 7.2 53	117 5.0 40	116 52 40	109 8.3 36	118 51 13	112 8.4 16	81 9.9 37	89 -0.3 19	110 28.7 39	102 3 16	112 14 15
EW 250032 99321705 EW 250032	3	EW 200010 EW 230001		108 9	103 53	129 35	86 18	97 23	102 24	102 36	101 30	112 -0.47 11		112 15 18	103 3.6 53	129 7.9 35	120 63 35	107 7.5 34		90 1.9 31	85 0.5 6	116 31.6 33			
EW 250039 99345266 EW 250039	2	EW 200010 EW 170049		102 23	119 70	118 47	77 30	99 31	102 33	104 48	103 40	107 -0.21 25	75 0.75 15	124 27 30	119 9.2 70	118 5.1 47	116 54 49	121 14.3 37	123 63 12	120 11.4 17	98 -4.2 36	93 -1.3 16	107 26.9 41	106 5 18	115 17 16
EW 250041 99392763 EW 250041	1	EW 190025 EW 140009		93 28	120 72	100 49	89 31	97 36	98 35	111 51	105 43	94 0.39 29	91 0.30 22	110 14 31	120 9.7 72	100 1.0 49	110 41 51	115 11.2 42	118 51 19	115 9.4 23	88 3.9 38	90 -0.4 24	113 30.0 46	105 4 23	110 13 22
EW 250044 99408692 EW 250044	1	EW 200010 EW 220036		106 20	114 53	110 40	86 24	106 27	107 27	109 39	108 33	109 -0.32 22	80 0.62 12	114 17 24	114 7.6 53	110 3.4 40	112 46 39	114 10.8 32	119 53 14	116 9.9 19	95 -1.7 33	99 -2.6 13	115 31.1 36	97 1 20	104 8 18
EW 250048 99424004 EW 250048	1	EW 190025 EW 130021		87 28	130 72	103 49	85 36	102 36	107 36	122 52	115 44	91 0.59 29	83 0.53 22	115 18 36	130 13.2 72	103 1.8 49	118 58 52	125 16.1 42	130 78 19	124 13.1 23	88 3.6 38	94 -1.4 24	118 32.8 46	115 9 23	121 21 22
EW 250050 99443525 EW 250050	1	EW 190025 EW 200011		103 17	111 54	110 43	90 29	101 30	103 29	108 41	106 35	105 -0.12 18	87 0.42 12	108 12 29	111 6.5 54	110 3.4 43	113 46 42	110 8.8 34	114 42 10	113 8.8 14	96 -3.0 34	93 -1.3 18	111 28.8 38	105 4 14	107 10 13
EW 250057 99549230 EW 250057	2	EW 190025 EW 210004		95 17	119 56	122 41	85 25	97 29	105 28	115 41	110 34	101 0.09 18	74 0.78 11	113 17 25	119 9.2 56	122 6.1 41	125 74 41	120 13.8 38		122 12.3 10	86 5.1 35	94 -1.4 14	108 27.7 38	105 4 11	115 16 9
EW 250058 99549248 EW 250058	2	EW 190025 EW 200008		102 16	110 57	120 44	88 26	102 29	106 29	110 41	108 35	105 -0.12 17	84 0.49 9	110 14 26	110 6.2 57	120 5.7 44	119 60 42	109 8.5 40	119 54 6	118 10.5 12	87 5.0 35	94 -1.5 14	117 32.5 38	98 1 13	108 11 11

Breeding Values and Accuracies: Bulls

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

Inbreeding in red is high

Value <80 Value >120

Breeding values with an accuracy < 5% are not printed

Animal			Selection Values									Birth		Wean				Growth		Fertility				Frame	
Index EBV Acc	ID Number Name	% Inbreeding	Sire ID Dam ID	Calv. Ease V	Calf Growth V	Milk V	Maint. V	Fertility V	Cow Value	Growth Value	Prod. Value	Birth wt dir	Birth mat	Mature wt	Wean wt	Wean mat	Cow-Calf Ratio (Wean)	Postwean wt	ADG	Scrotal Circ.	Heifer Fertility	Cow Fertility	Longevity	Height	Length
EW 250060 99549271 EW 250060		5	EW 200147 EW 230031	89 20	132 53	115 38	76 23	99 28	105 27	114 38	110 32	95 0.38 22	71 0.88 7	127 30 23	131 13.7 53	115 4.4 38	122 66 38	127 17.3 36		125 13.3 12	85 6.5 35	96 -2.0 12	110 28.8 37	110 7 13	123 22 11
EW 250070 99575862 EW 250070			EW 200010 EW 150051	101 19	109 70	113 49	92 31	94 34	98 34	107 50	102 42	104 -0.10 20	81 0.59 13	106 10 31	109 5.8 70	113 4.1 49	115 51 50	113 10.5 38	109 32 15	109 7.2 19	89 3.1 38	85 0.7 20	113 30.1 43	102 3 20	106 9 19
EW 250071 99599953 EW 250071		8	EW 190025 EW 160024	109 17	106 71	127 47	77 28	100 31	101 33	93 48	96 40	114 -0.56 20		124 27 28	106 4.6 71	127 7.3 47	114 49 49	112 9.5 42		118 10.5 13	87 4.1 36	98 -2.5 14	109 28.0 42	112 8 14	118 18 11
EW 250079 99763542 EW 250079		9	EW 200147 EW 220047		130 53	102 39	78 21	103 25		112 37		92 0.51 5		124 27 21	130 13.3 53	102 1.4 39	113 46 38	124 16.0 28			98 -4.4 33	95 -1.7 7	111 29.3 35		
EW 250084 99788952 EW 250084		1	EW 200010 EW 190065	106 20	106 55	130 44	82 28	96 28	101 29	100 41	100 35	110 -0.36 22	78 0.68 8	117 20 28	106 4.8 55	130 8.0 44	120 63 42	109 8.4 34	117 50 14	116 9.9 18	94 -1.2 33	90 -0.6 13	107 27.0 38	103 4 19	116 17 18
JSB 250001 6020631252 JACO			T 170085 H 190887	111 28	97 28	94 25	108 13	88 37	87 22	93 28	89 25	107 -0.25 28	110 -0.23 25	93 -1 13	97 1.5 28	94 -0.4 25	95 6 22	93 0.4 20	96 3 11	95 2.0 14	101 -6.9 43	81 1.5 23	98 22.3 45	97 1 15	96 2 14
JSB 250005 6020631286 BULL		1	T 170374 H 200911	122 50	84 27	86 22	117 14	84 35	79 22	81 27	79 24	118 -0.75 55	112 -0.30 25	86 -8 14	84 -3.0 27	86 -2.3 22	80 -26 21	80 -6.1 15		84 -2.1 7	97 -3.7 39	81 1.6 21	94 19.8 44	86 -5 7	84 -7 7

Breeding Values and Accuracies: Cows

Green: >120 High
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Inbreeding in red is high

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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																									
EW 130021 78242237 EW 130021		A 080085 T 060132		84 49	130 79	86 85	97 62	99 57	104 54	127 71	116 62	85 0.87 51	99 0.08 40	101 6 62	130 13.3 79	86 -2.2 85	112 44 75	119 13.1 62	126 68 35	118 10.6 40	92 0.8 62	92 -1.0 41	113 30.1 69	109 6 41	115 16 39
EW 140009 80541139 EW 140009		A 080085 T 060132		91 48	118 82	78 86	104 52	88 56	88 53	109 70	98 62	88 0.71 50	113 -0.32 40	96 1 52	118 9.0 82	78 -4.2 86	97 11 73	105 6.4 64	106 26 35	103 4.9 40	89 2.6 60	84 0.8 40	102 24.0 68	93 -1 41	98 3 39
EW 140050 80541691 EW 140050		A 080085 EW 070001		86 51	125 80	95 81	98 49	105 53	110 50	127 67	120 58	87 0.77 53	98 0.11 40	100 5 49	125 11.4 80	95 -0.2 81	115 51 70	122 14.7 62	118 53 32	109 7.0 36	94 -0.9 57	114 -6.2 37	97 21.7 66	104 4 37	111 13 36
EW 150051 82645847 EW 150051		GA 110025 EW 130028		83 27	126 80	92 83	95 52	86 56	90 51	115 68	103 60	87 0.76 28	85 0.49 23	103 8 52	126 11.8 80	92 -0.8 83	112 45 72	129 18.2 62	115 46 32	112 8.2 38	83 7.8 63	82 1.3 39	103 24.7 65	127 15 39	121 21 37
EW 150069 82963471 EW 150069		GA 110152 GJ 050001		93 47	109 80	97 82	91 50	100 55	96 51	100 68	98 60	95 0.37 49	91 0.31 36	107 11 50	109 5.7 80	97 0.3 82	101 20 71	108 7.8 70	97 5 31	106 6.2 36	108 -13.0 63	93 -1.3 38	103 25.1 64	83 -7 37	93 0 35
EW 160024 84599703 EW 160024	1	MVN 090175 GJ 050030		103 45	118 81	123 82	73 58	95 58	98 53	96 70	96 62	109 -0.31 46	70 0.89 38	131 34 58	118 9.0 81	123 6.4 82	117 55 74	122 14.7 68	126 70 35	117 10.3 40	86 5.5 65	104 -3.9 44	93 19.5 64	117 11 41	123 22 40
EW 190065 89702435 EW 190065		MVN 090175 RV 050004		101 33	109 75	129 73	80 49	90 49	94 46	96 62	94 54	104 -0.10 35	82 0.57 25	120 23 49	109 5.7 75	129 7.7 73	120 61 66	112 9.5 60	122 61 35	118 10.8 41	96 -2.9 55	91 -0.8 34	92 19.1 57	121 13 42	133 30 40
H 190838 89343057 H190838		PH 120137 H 150331		129 40	73 38	83 32	120 22	112 51	100 31	84 38	91 34	123 -1.03 40	121 -0.56 40	82 -12 22	73 -6.8 38	83 -3.0 32	69 -50 31	73 -9.7 33	73 -49 7	80 -3.8 8	122 -24.7 61	102 -3.4 36	107 26.8 57	82 -7 8	79 -11 8
H 190887 89823231 H190887	1	T 130049 H 150402		115 24	85 20	85 12		75 48				112 -0.50 25	107 -0.14 20		85 -2.5 20	85 -2.5 12				92 0.6 58	62 6.1 29	99 22.8 56			
EW 200008 89939508 EW 200008	6	GA 140072 EW 170031		107 22	101 76	117 73	100 46	100 46	106 45	110 61	108 53	107 -0.21 23	98 0.10 16	97 2 46	101 3.1 76	117 4.9 73	116 54 65	97 2.3 64	111 37 12	110 7.7 20	87 4.4 60	93 -1.3 25	115 31.5 54	82 -7 21	95 1 19
EW 200011 89970404 EW 200011	1	GA 150103 EW 170004		109 22	103 64	97 71	108 49	98 45	101 43	107 56	104 50	107 -0.22 23	104 -0.05 19	93 -1 49	103 3.8 64	97 0.3 71	103 24 61	98 2.8 42	100 13 19	101 4.3 23	106 -11.5 55	92 -1.0 32	102 24.2 49	94 -1 24	93 -1 23
H 200945 91056531 200945	10	H 140285 H 170668		111 21				101 44				110 -0.40 21	97 0.15 23								121 -23.7 56	78 2.2 24	114 30.5 51		

Breeding Values and Accuracies: Cows

Green: >120 High
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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																								
H 200955 91056549 200955	7	H 140285 H 090668	126 20	77 19			83 46				124 -1.08 21	108 -0.18 18		77 -5.4 19						102 -7.7 60	64 5.5 23	107 26.9 55		
EW 210004 91397109 EW 210004	5	GA 140072 EW 170058	94 25	119 75	120 67	94 43	90 46	102 43	120 59	112 51	98 0.21 26	78 0.68 19	103 8 43	119 9.2 75	120 5.7 67	130 83 62	118 13.0 57	120 57 6	120 11.3 15	87 4.8 58	93 -1.2 26	98 21.9 53	94 -1 16	108 11 14
EW 210039 92365089 EW 210039	3	EW 160041 EW 160026	100 26	111 73	93 64	96 40	103 43	101 41	108 57	105 49	99 0.15 28	99 0.07 14	102 6 40	111 6.4 73	93 -0.6 64	101 21 59	109 8.4 60	115 45 25	115 9.3 32	119 -22.4 54	94 -1.5 24	101 23.7 50	105 4 33	112 14 30
EW 220017 93083079 EW 220017	4	EW 160036 EW 120053	109 28	107 72	94 61	84 37	89 43	80 40	83 56	80 48	110 -0.39 30	89 0.38 21	116 20 37	107 5.0 72	94 -0.3 61	93 3 57	111 9.4 59	107 27 25	107 6.3 31	88 3.7 55	90 -0.5 23	97 21.4 52	105 4 32	103 7 30
EW 220036 93409472 EW 220036	2	EW 160036 EW 140028	100 35	125 73	90 62	86 42	108 46	106 43	114 58	110 50	103 -0.02 37	86 0.45 27	114 18 42	125 11.4 73	90 -1.4 62	104 26 59	121 14.3 56	125 67 32	118 10.8 38	97 -4.0 56	109 -4.9 30	107 27.2 51	109 7 39	110 13 37
EW 220047 93837870 EW 220047	1	EW 160041 EW 190044	83 27	135 72	86 60	80 41	105 43	102 41	114 56	109 48	85 0.88 29	92 0.27 19	123 26 41	135 15.1 72	86 -2.2 60	105 29 58	127 17.3 50	126 70 27	120 11.5 32	109 -13.5 55	97 -2.2 27	107 27.0 48	110 7 34	120 20 31
EW 220066 94448305 EW 220066		GA 140072 SW 060210	108 26	101 71	117 58	90 36	86 46	87 40	92 55	89 48	109 -0.31 27	91 0.30 24	108 12 36	101 2.9 71	117 5.0 58	111 41 55	96 2.0 60	106 26 17	104 5.1 20	74 15.1 58	85 0.7 27	105 25.7 54	89 -3 20	100 5 19
EW 230001 94590502 EW 230001	1	EW 190047 EW 160020	106 23	103 70	128 50	87 31	91 41	96 37	99 51	97 44	109 -0.31 24	82 0.56 17	110 14 31	103 3.5 70	128 7.5 50	119 61 50	108 7.7 60	111 36 17	106 6.1 20	89 3.3 53	82 1.4 23	109 28.2 46	104 4 21	108 11 20
EW 230016 94719606 EW 230016	13	EW 160015 EW 180007	103 11	113 68	118 44	79 18	91 32	92 30	95 45	93 38	107 -0.20 13		122 25 18	113 7.2 68	118 5.1 44	113 47 43	117 12.2 56	117 50 17	115 9.4 29	94 -1.3 50		95 20.3 41	116 10 31	129 27 27
EW 230023 95024527 EW 230023	4	EW 190047 EW 140028	102 29	109 69	109 51	102 34	102 41	109 37	117 52	113 44	104 -0.08 30	89 0.36 22	96 1 34	108 5.6 69	109 3.0 51	116 53 51	107 7.3 60	109 31 21	103 4.9 26	92 0.7 54	95 -1.8 22	114 30.9 48	90 -3 27	92 -1 25
EW 230031 95120945 EW 230031	2	GA 140072 EW 160040	83 31	138 71	112 55	75 39	97 45	104 40	118 55	112 48	90 0.63 32	69 0.94 26	129 31 39	138 15.9 71	112 3.8 55	124 70 55	132 19.9 62	130 78 23	129 14.9 26	82 8.3 58	99 -2.7 27	105 25.9 51	105 5 27	122 21 26
EW 230086 96072434 EW 230086	1	EW 190047 EW 160020	114 23	91 71	134 50	92 31	92 37	96 36	94 51	95 44	116 -0.68 24	82 0.55 17	104 9 31	91 -0.6 71	134 8.9 50	119 59 51	101 4.3 62	102 16 17	99 3.4 20	94 -1.1 42	81 1.5 23	108 27.7 46	97 0 21	100 5 20

Breeding Values and Accuracies: Cows

Green: >120 High
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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	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																										
EW 230087 96078563 EW 230087	2	GA 190060 EW 170028	105 21	89 70	121 48	100 33	105 37	106 35	99 51	102 43	105 -0.12 22	95 0.20 17	97 2 33	89 -1.3 70	121 5.9 48	110 40 50	87 -2.7 58	100 12 12	103 4.8 16	109 -13.9 42	94 -1.5 22	110 28.3 46	93 -1 17	92 -1 15		
EW 230090 96106026 EW 230090		GA 150098 EW 150051	93 22	113 73	111 54	93 36	89 43	94 39	109 55	102 47	96 0.31 23	84 0.49 20	104 9 36	113 7.4 73	111 3.6 54	117 56 54	116 11.7 60	106 25 22	104 5.3 25	92 0.4 49	78 2.2 27	108 27.2 52	98 1 26	103 7 25		
EW 230094 96106067 EW 230094	2	GA 190060 EW 170023	97 18	102 70	121 47	91 29	97 35	100 34	102 49	101 42	100 0.13 19	85 0.48 14	106 10 29	102 3.3 70	121 5.8 47	115 52 49	103 5.2 58	111 36 10	109 7.2 14	95 -2.1 40	90 -0.6 19	108 27.7 45	104 4 15	102 7 13		
EW 230100 96161096 EW 230100	3	EW 160041 EW 180010	102 23	101 72	108 51	93 34	95 36	93 36	96 52	94 44	101 0.05 25	98 0.11 13	104 9 34	101 3.0 72	108 2.8 51	105 29 52	102 4.6 62	108 29 24	107 6.6 31	98 -4.7 44	87 0.1 17	105 26.0 47	99 2 32	101 6 30		
EW 230106 96265681 EW 230106	2	GA 190060 EW 160018	84 20	116 70	116 49	91 31	103 36	109 35	118 50	114 42	88 0.74 21	86 0.44 16	106 11 31	116 8.1 70	116 4.7 49	122 66 50	111 9.2 57	115 45 14	113 8.6 17	102 -7.9 41	93 -1.3 20	111 29.2 46	102 3 18	103 8 17		
EW 230109 96284005 EW 230109	4	EW 160041 EW 180020	85 28	130 58	104 49	81 29	108 35	111 33	119 45	115 39	88 0.69 31	84 0.50 15	121 24 29	130 13.2 58	104 2.0 49	116 52 45	128 17.7 46	127 72 26	124 12.8 33	105 -10.7 43	102 -3.4 15	110 28.5 46	109 7 35	117 18 32		
H 230336 95810297 H 230336		T 170374 H 190827	116 25	85 23	93 16	116 5	93 34		89 22		112 -0.50 27	111 -0.25 15	86 -8 5	85 -2.8 23	93 -0.6 16	87 -10 15	82 -5.1 7			109 -13.9 39	82 1.3 20	101 23.8 44				
H 230343 95810370 H 230343		T 170374 H 200942	114 26	86 25	94 19	116 10	92 35	90 20	89 24	89 22	111 -0.43 28	110 -0.23 17	86 -8 10	86 -2.4 25	94 -0.4 19	89 -7 18	84 -4.5 12			105 -10.5 39	81 1.5 21	104 25.2 44				
H 230387 95810719 H 230387	3	T 170085 H 170598	107 24	103 30	104 24	97 8	89 36	89 21	97 27	92 24	105 -0.12 24	104 -0.07 21	101 6 8	103 3.6 30	104 1.8 24	104 28 21	101 4.1 14		101 4.0 9	92 0.0 44	88 0.0 18	97 21.6 46	104 4 11	106 9 8		
ZZN 230002 95533253 ZZN230002	4	LEB 190697 LEB 200077	118 68	100 68	104 44	101 23	120 29	119 32	113 47	116 40	117 -0.73 73	97 0.13 44	97 2 23	100 2.5 68	104 1.9 44	104 27 45	96 1.7 58	95 1 29	74 -6.3 34	112 -16.1 32	120 -7.6 15	107 27.1 39	110 7 34	105 8 33		
ZZN 230007 95538518 ZZN230007	4	LEB 190697 LEB 200060	104 68	90 69	118 44	95 24	111 29	108 32	99 48	103 40	141 -1.92 73	92 0.29 44	102 7 24	90 -1.1 69	118 5.2 44	105 30 46	91 -0.7 58	100 11 26	83 -2.9 31	100 -6.5 33	111 -5.6 15	108 27.3 40	106 5 32	103 7 30		
ZZN 230009 95587259 ZZN230009	1	LEB 190749 LEB 200099	91 69	108 71	96 46	87 28	112 35	103 35	98 51	100 43	92 0.53 74	95 0.21 45	113 17 28	108 5.3 71	96 0.1 46	96 10 48	97 2.4 62	90 -11 40	82 -3.1 44	111 -15.5 39	115 -6.4 21	99 22.5 45	101 3 46	101 6 44		

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																									
ZZN 230016 95610184 ZZN230016	4	LEB 190697 LEB 200100	82 67	104 68	120 40	110 20	104 28	116 30	121 46	119 38	83 0.98 73	99 0.09 39	91 -4 20	104 4.1 68	120 5.6 40	125 74 43	99 3.3 58	101 13 26	80 -3.7 31	99 -5.0 32	108 -4.8 12	99 22.6 39	108 6 32	104 8 31	
ZZN 230055 96229893 ZZN230055	2	LEB 190703 LEB 190738	68 68	117 69	122 44	91 17	103 25	111 30	120 46	117 38	50 2.61 73	109 -0.21 44	106 10 17	117 8.6 69	122 6.1 44	128 80 43	104 5.7 57	101 15 32	117 10.2 39	100 -6.4 27	105 -4.0 7	100 23.2 42	100 2 40	108 11 37	
EW 240005 96460373 EW 240005	3	GA 190060 EW 210055	98 17	105 64	116 40	92 26	107 31	109 30	110 44	109 37	101 0.07 18	86 0.46 12	105 9 26	105 4.5 64	116 4.6 40	114 50 43	102 4.8 41		111 8.0 10	105 -10.8 39	96 -2.0 13	113 30.2 42	94 -1 12	100 5 10	
EW 240027 97490031 EW 240027	10	EW 160041 EW 220028	102 8	101 69	109 44	98 20	94 29	95 30	102 45	98 38	102 0.02 9		100 5 20	101 3.1 69	109 3.1 44	108 37 44	103 5.1 58	106 25 11	109 7.3 24	98 -4.6 38	82 1.2 6	109 28.3 42	88 -4 26	96 2 22	
EW 240041 97624688 EW 240041	1	XA 170023 EW 190057	93 39	111 54	117 45	84 30	101 35	102 32	103 44	102 38	97 0.27 41	81 0.58 28	116 19 30	111 6.4 54	117 5.0 45	114 49 43	113 10.5 43	108 30 17	112 8.4 21	97 -3.4 38	103 -3.7 24	100 23.3 44	98 1 21	108 11 20	
EW 240043 97641708 EW 240043	4	EW 160041 EW 210057	99 22	109 70	105 47	82 27	106 32	100 33	96 48	98 40	99 0.19 25	98 0.11 9	119 22 27	109 5.9 70	105 2.3 47	102 24 48	106 6.9 50	116 48 22	116 9.9 30	111 -15.3 40	98 -2.5 14	106 26.7 42	97 1 31	109 12 28	
EW 240057 97757793 EW 240057		XA 170023 EW 160022	91 39	119 70	107 49	84 31	103 36	104 35	109 51	107 43	95 0.39 41	82 0.57 28	116 19 31	119 9.2 70	107 2.6 49	112 45 50	118 12.9 54	112 39 21	118 10.5 25	98 -4.8 38	108 -4.7 23	99 22.5 46	103 4 25	113 15 24	
EW 240061 97764575 EW 240061	1	XA 170023 EW 200039	91 39	113 70	109 46	86 32	101 35	101 35	105 50	102 42	95 0.38 41	82 0.56 29	113 17 32	113 7.3 70	109 3.1 46	111 42 49	114 10.8 54	106 24 18	113 8.7 21	90 1.8 38	106 -4.2 24	100 23.4 44	95 -1 22	106 9 21	
EW 240069 97831317 EW 240069	1	XA 170023 EW 210039	93 37	109 69	99 43	93 27	108 31	105 32	108 48	106 40	95 0.39 39	93 0.26 25	105 10 27	109 5.9 69	99 0.8 43	104 27 46	111 9.2 52	102 17 18	112 8.2 22	109 -13.8 36	106 -4.2 17	103 24.7 41	92 -2 23	101 6 22	
EW 240073 97861108 EW 240073	2	EW 190025 EW 200008	106 16	105 70	121 44	90 26	102 30	107 31	108 47	107 39	108 -0.28 17	87 0.43 9	107 11 26	105 4.2 70	121 6.0 44	118 57 47	105 6.1 47	113 41 6	113 8.8 12	87 4.4 35	94 -1.4 14	119 33.3 40	94 -1 13	103 7 11	
EW 240081 97921092 EW 240081	1	XA 170023 EW 190022	89 37	111 70	116 45	94 27	104 34	110 34	117 49	114 42	93 0.48 39	82 0.56 26	103 7 27	111 6.7 70	116 4.8 45	121 65 47	115 11.4 50	101 14 15	110 7.5 18	98 -4.3 38	112 -5.8 21	95 20.6 43	88 -4 19	97 2 18	
EW 250020 99181190 EW 250020	1	EW 200010 EW 230016	107 13	108 52	124 33	82 15	97 22	100 23	100 34	100 28	111 -0.41 15		118 21 15	108 5.5 52	124 6.7 33	117 56 33	112 9.7 31		114 9.2 11	93 -0.4 30		108 27.7 32	101 2 12	114 16 9	

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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																									
EW 250059 99549255 EW 250059	1	EW 200010 EW 220017	110 18	105 53	113 39	85 22	96 27	94 26	94 38	93 32	113 -0.51 20	81 0.58 9	115 18 22	105 4.4 53	113 4.0 39	107 33 38	109 8.3 34	110 33 7	110 7.6 14	90 2.1 33	89 -0.4 12	109 28.2 36	95 0 15	101 6 13	
EW 250074 99713349 EW 250074	3	EW 200010 EW 230023	107 13	106 52	120 36	92 20	103 26	108 25	111 36	110 30	110 -0.35 15		105 9 20	106 4.7 52	120 5.6 36	119 59 36	107 7.3 35		108 6.9 9	92 0.6 33	92 -1.0 9	118 33.0 35	88 -4 11	96 2 8	
EW 250080 99770612 EW 250080		EW 190025 EW 140050	92 29	122 59	109 48	87 30	104 34	108 33	118 45	114 39	95 0.37 30	84 0.50 23	112 16 30	122 10.3 59	109 3.2 48	118 58 46	122 14.7 42	123 62 19	117 10.2 21	90 2.3 36	104 -3.9 23	108 27.6 44	109 7 22	116 17 21	
EW 250085 99793630 EW 250085	5	EW 200010 EW 210006	115 6	95 54	118 43	93 26	90 28	91 28	91 40	90 34	116 -0.65 7		104 8 26	95 0.7 54	118 5.1 43	108 36 41	94 0.8 32			89 2.8 34	83 1.0 12	106 26.6 38			
JSB 250003 6020631278 SUZI		T 190068 H 190838	127 54	91 33	96 32	113 22	105 38	104 27	100 33	102 30	123 -1.02 58	111 -0.26 32	89 -5 22	91 -0.7 33	96 0.0 32	93 3 29	88 -2.3 26	92 -7 14	101 4.1 17	110 -14.2 44	95 -1.8 26	109 28.2 44	95 0 17	93 0 16	
JSB 250004 6020631260 DOROTHY		T 170374 H 200945	98 47	92 22	95 14		97 32				96 0.31 53	109 -0.20 19		92 -0.1 22	95 -0.1 14					107 -12.4 38	87 0.2 16	105 26.0 42			
EW 260001 99818288 EW 260001	4	EW 200010 EW 150069	102 24	106 56	114 48	88 28	102 31	102 31	103 43	102 37	105 -0.13 27	83 0.55 12	110 14 28	106 4.7 56	114 4.3 48	111 42 44	108 7.5 40		110 7.6 12	100 -6.2 38	91 -0.8 15	113 30.0 41	84 -6 13	96 2 10	
JSB 260007 6020631294 JSB 260007	3	EW 210027 EW 230100	96 24	117 46	109 37	85 22	100 25	101 25	108 35	105 30	98 0.22 27	87 0.41 11	115 19 22	117 8.7 46	109 3.2 37	113 47 35	117 12.0 36	122 61 16	118 10.6 21	97 -3.9 29	91 -0.8 11	111 29.1 35	111 7 22	117 18 20	

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	EW 200147	EW 200147	MVN 070108	EW 160046	0.6	9440	12581	11758	7744	10048	10544	11162	10853	
2	ZZN 220061	ZZN220061	JS180278	LEB 180682	0.0	7670	11970	12747	8224	10227	10932	11448	11240	
						★★								
1	H 230303	H 230303	T 130049	H 130138	0.4	11429	8532	9024	11215	9144	8425	8131	8128	

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	EW 140050	EW 140050	A 080085	EW 070001	0.0	86 51	125 80	95 81	98 49	105 53	110 50	127 67	120 58
2	EW 230109	EW 230109	EW 160041	EW 180020	4.1	85 28	130 58	104 49	81 29	108 35	111 33	119 45	115 39
3	EW 240081	EW 240081	XA 170023	EW 190022	1.2	89 37	111 70	116 45	94 27	104 34	110 34	117 49	114 42
4	ZZN 230002	ZZN230002	LEB 190697	LEB 200077	3.6	118 68	100 68	104 44	101 23	120 29	119 32	113 47	116 40
5	ZZN 230016	ZZN230016	LEB 190697	LEB 200100	3.6	82 67	104 68	120 40	110 20	104 28	116 30	121 46	119 38
6	ZZN 230055	ZZN230055	LEB 190703	LEB 190738	2.1	68 68	117 69	122 44	91 17	103 25	111 30	120 46	117 38
						★★★★							
1	EW 130021	EW 130021	A 080085	T 060132	0.0	84 49	130 79	86 85	97 62	99 57	104 54	127 71	116 62
2	EW 200008	EW 200008	GA 140072	EW 170031	6.3	107 22	101 76	117 73	100 46	100 46	106 45	110 61	108 53
3	EW 200011	EW 200011	GA 150103	EW 170004	1.2	109 22	103 64	97 71	108 49	98 45	101 43	107 56	104 50
4	EW 210004	EW 210004	GA 140072	EW 170058	5.2	94 25	119 75	120 67	94 43	90 46	102 43	120 59	112 51
5	EW 210039	EW 210039	EW 160041	EW 160026	2.9	100 26	111 73	93 64	96 40	103 43	101 41	108 57	105 49
6	EW 220036	EW 220036	EW 160036	EW 140028	1.8	100 35	125 73	90 62	86 42	108 46	106 43	114 58	110 50
7	EW 220047	EW 220047	EW 160041	EW 190044	0.6	83 27	135 72	86 60	80 41	105 43	102 41	114 56	109 48
8	EW 230023	EW 230023	EW 190047	EW 140028	3.6	102 29	109 69	109 51	102 34	102 41	109 37	117 52	113 44
9	EW 230031	EW 230031	GA 140072	EW 160040	1.8	83 31	138 71	112 55	75 39	97 45	104 40	118 55	112 48
10	EW 230087	EW 230087	GA 190060	EW 170028	1.9	105 21	89 70	121 48	100 33	105 37	106 35	99 51	102 43
11	EW 230094	EW 230094	GA 190060	EW 170023	1.9	97 18	102 70	121 47	91 29	97 35	100 34	102 49	101 42
12	EW 230106	EW 230106	GA 190060	EW 160018	1.8	84 20	116 70	116 49	91 31	103 36	109 35	118 50	114 42
13	EW 240005	EW 240005	GA 190060	EW 210055	2.9	98 17	105 64	116 40	92 26	107 31	109 30	110 44	109 37
14	EW 240041	EW 240041	XA 170023	EW 190057	0.8	93 39	111 54	117 45	84 30	101 35	102 32	103 44	102 38
15	EW 240043	EW 240043	EW 160041	EW 210057	4.0	99 22	109 70	105 47	82 27	106 32	100 33	96 48	98 40
16	EW 240057	EW 240057	XA 170023	EW 160022	0.3	91 39	119 70	107 49	84 31	103 36	104 35	109 51	107 43
17	EW 240061	EW 240061	XA 170023	EW 200039	0.7	91 39	113 70	109 46	86 32	101 35	101 35	105 50	102 42
18	EW 240069	EW 240069	XA 170023	EW 210039	1.0	93 37	109 69	99 43	93 27	108 31	105 32	108 48	106 40
19	EW 240073	EW 240073	EW 190025	EW 200008	1.8	106 16	105 70	121 44	90 26	102 30	107 31	108 47	107 39
20	H 190838	H190838	PH 120137	H 150331	0.0	129 40	73 38	83 32	120 22	112 51	100 31	84 38	91 34

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	
					★★★★								
21	ZZN 230007	ZZN230007	LEB 190697	LEB 200060	3.8	104 68	90 69	118 44	95 24	111 29	108 32	99 48	103 40
22	ZZN 230009	ZZN230009	LEB 190749	LEB 200099	0.8	91 69	108 71	96 46	87 28	112 35	103 35	98 51	100 43
					★★★★☆								
1	EW 150051	EW 150051	GA 110025	EW 130028	0.0	83 27	126 80	92 83	95 52	86 56	90 51	115 68	103 60
2	EW 150069	EW 150069	GA 110152	GJ 050001	0.0	93 47	109 80	97 82	91 50	100 55	96 51	100 68	98 60
3	EW 160024	EW 160024	MVN 090175	GJ 050030	1.0	103 45	118 81	123 82	73 58	95 58	98 53	96 70	96 62
4	EW 190065	EW 190065	MVN 090175	RV 050004	0.0	101 33	109 75	129 73	80 49	90 49	94 46	96 62	94 54
5	EW 230001	EW 230001	EW 190047	EW 160020	0.9	106 23	103 70	128 50	87 31	91 41	96 37	99 51	97 44
6	EW 230016	EW 230016	EW 160015	EW 180007	12.5	103 11	113 68	118 44	79 18	91 32	92 30	95 45	93 38
7	EW 230086	EW 230086	EW 190047	EW 160020	0.9	114 23	91 71	134 50	92 31	92 37	96 36	94 51	95 44
8	EW 230090	EW 230090	GA 150098	EW 150051	0.0	93 22	113 73	111 54	93 36	89 43	94 39	109 55	102 47
9	EW 230100	EW 230100	EW 160041	EW 180010	2.6	102 23	101 72	108 51	93 34	95 36	93 36	96 52	94 44
10	EW 240027	EW 240027	EW 160041	EW 220028	9.6	102 8	101 69	109 44	98 20	94 29	95 30	102 45	98 38
11	H 230343	H 230343	T 170374	H 200942	0.5	114 26	86 25	94 19	116 10	92 35	90 20	89 24	89 22
					★★								
1	EW 140009	EW 140009	A 080085	T 060132	0.0	91 48	118 82	78 86	104 52	88 56	88 53	109 70	98 62
2	EW 220017	EW 220017	EW 160036	EW 120053	3.9	109 28	107 72	94 61	84 37	89 43	80 40	83 56	80 48
3	EW 220066	EW 220066	GA 140072	SW 060210	0.0	108 26	101 71	117 58	90 36	86 46	87 40	92 55	89 48
4	H 230387	H 230387	T 170085	H 170598	3.2	107 24	103 30	104 24	97 8	89 36	89 21	97 27	92 24

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	EW 250032	EW 250032	EW 200010	EW 230001	3.3	108 9	103 53	129 35	86 18	97 23	102 24	102 36	101 30
2	EW 250039	EW 250039	EW 200010	EW 170049	1.6	102 23	119 70	118 47	77 30	99 31	102 33	104 48	103 40
3	EW 250044	EW 250044	EW 200010	EW 220036	1.4	106 20	114 53	110 40	86 24	106 27	107 27	109 39	108 33
4	EW 250048	EW 250048	EW 190025	EW 130021	0.7	87 28	130 72	103 49	85 36	102 36	107 36	122 52	115 44
5	EW 250050	EW 250050	EW 190025	EW 200011	0.9	103 17	111 54	110 43	90 29	101 30	103 29	108 41	106 35
6	EW 250057	EW 250057	EW 190025	EW 210004	1.7	95 17	119 56	122 41	85 25	97 29	105 28	115 41	110 34
7	EW 250058	EW 250058	EW 190025	EW 200008	1.8	102 16	110 57	120 44	88 26	102 29	106 29	110 41	108 35
8	EW 250060	EW 250060	EW 200147	EW 230031	4.9	89 20	132 53	115 38	76 23	99 28	105 27	114 38	110 32
9	EW 250071	EW 250071	EW 190025	EW 160024	8.0	109 17	106 71	127 47	77 28	100 31	101 33	93 48	96 40
10	EW 250084	EW 250084	EW 200010	EW 190065	1.4	106 20	106 55	130 44	82 28	96 28	101 29	100 41	100 35
						★★★★☆							
1	EW 250013	EW 250013	EW 200147	EW 220066	0.9	101 23	113 53	117 40	83 26	93 32	96 29	101 40	98 34
2	EW 250041	EW 250041	EW 190025	EW 140009	0.7	93 28	120 72	100 49	89 31	97 36	98 35	111 51	105 43
3	EW 250070	EW 250070	EW 200010	EW 150051	0.0	101 19	109 70	113 49	92 31	94 34	98 34	107 50	102 42
						★★							
1	JSB 250001	JACO	T 170085	H 190887	0.0	111 28	97 28	94 25	108 13	88 37	87 22	93 28	89 25
						★★☆							
1	JSB 250005	BULL	T 170374	H 200911	1.1	122 50	84 27	86 22	117 14	84 35	79 22	81 27	79 24

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	EW 250020	EW 250020	EW 200010	EW 230016	1.4	107 13	108 52	124 33	82 15	97 22	100 23	100 34	100 28	
2	EW 250074	EW 250074	EW 200010	EW 230023	3.1	107 13	106 52	120 36	92 20	103 26	108 25	111 36	110 30	
3	EW 250080	EW 250080	EW 190025	EW 140050	0.0	92 29	122 59	109 48	87 30	104 34	108 33	118 45	114 39	
4	EW 260001	EW 260001	EW 200010	EW 150069	4.1	102 24	106 56	114 48	88 28	102 31	102 31	103 43	102 37	
5	JSB 250003	SUZI	T 190068	H 190838	0.2	127 54	91 33	96 32	113 22	105 38	104 27	100 33	102 30	
6	JSB 260007	JSB 260007	EW 210027	EW 230100	2.6	96 24	117 46	109 37	85 22	100 25	101 25	108 35	105 30	
						★★★★☆								
1	EW 250059	EW 250059	EW 200010	EW 220017	1.1	110 18	105 53	113 39	85 22	96 27	94 26	94 38	93 32	
2	EW 250085	EW 250085	EW 200010	EW 210006	5.1	115 6	95 54	118 43	93 26	90 28	91 28	91 40	90 34	

	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.

