

NGUNI

BREEDING VALUE REPORT

September 2026



SHABALALA NGUNI'S

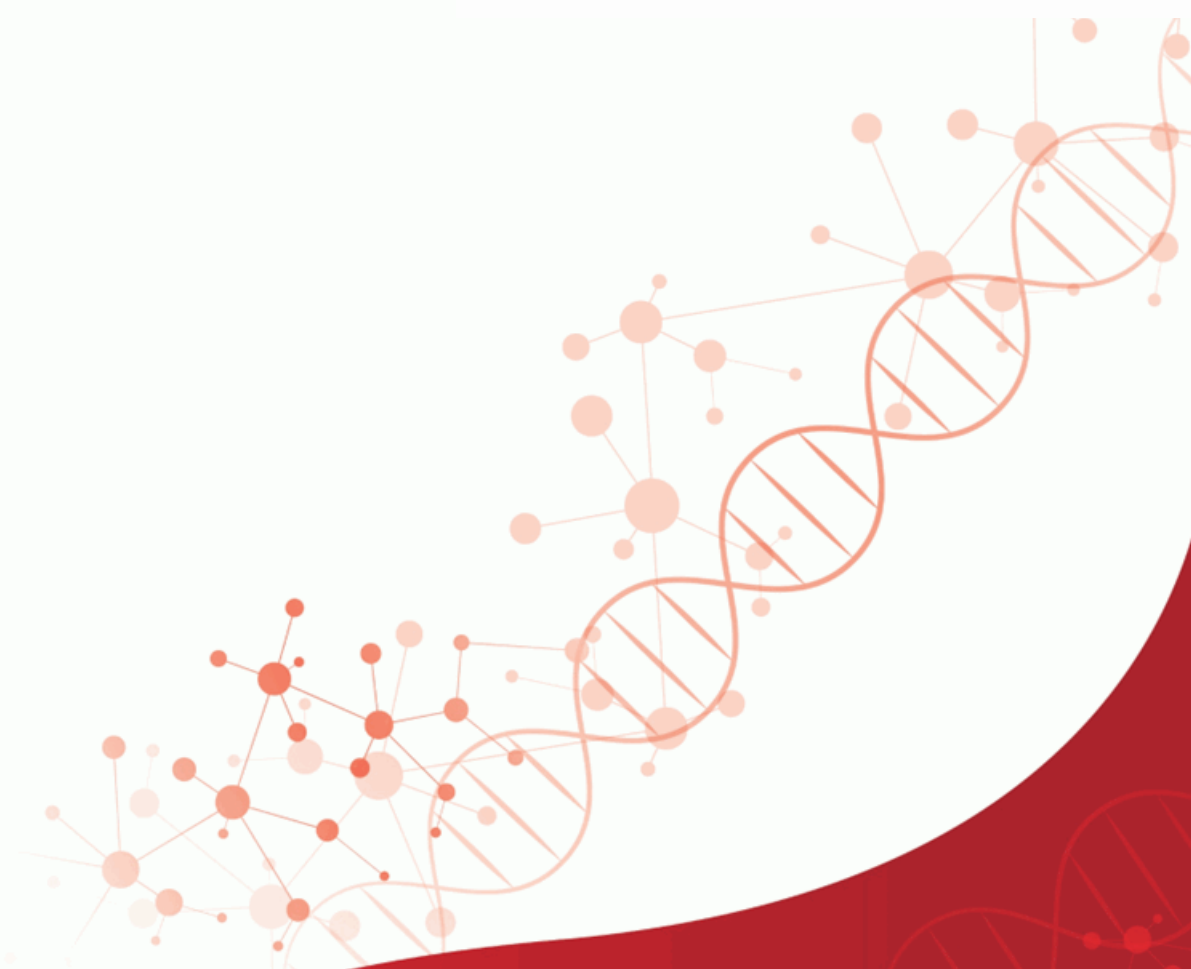
Herd Number: 573678

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NGUNI Cattle Breeders' Society
Beestelersgenootskap



LOGIX



EBVs, EBVi's and GEBVs

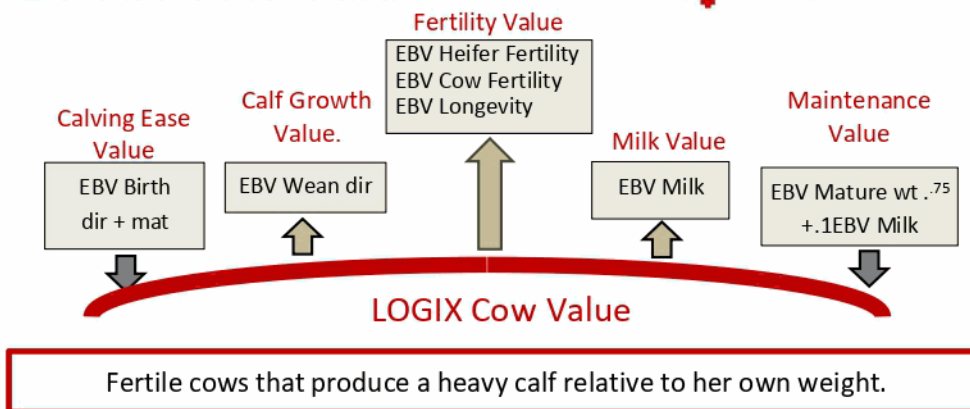
EBVi (Breeding Value Index): Genetic potential relative to the average (100) of the live (active) animals in the breed. Roughly 50% of the animals have values between 90 and 110. Values above 100, depending on the trait, tend to be in the more favourable direction.

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)

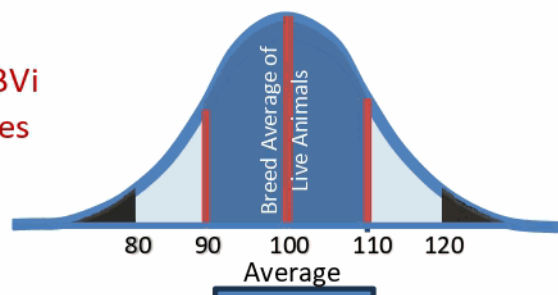
- WeanerCalf / Growth Value > 120
 - Cow Value and Fertility Value average to high
- Growers are usually heavier at birth (lower Calving Ease Value), and maturity (lower Maintenance Value).

LOW- MAINTENANCE ANIMALS

(HARSH ENVIRONMENT)

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

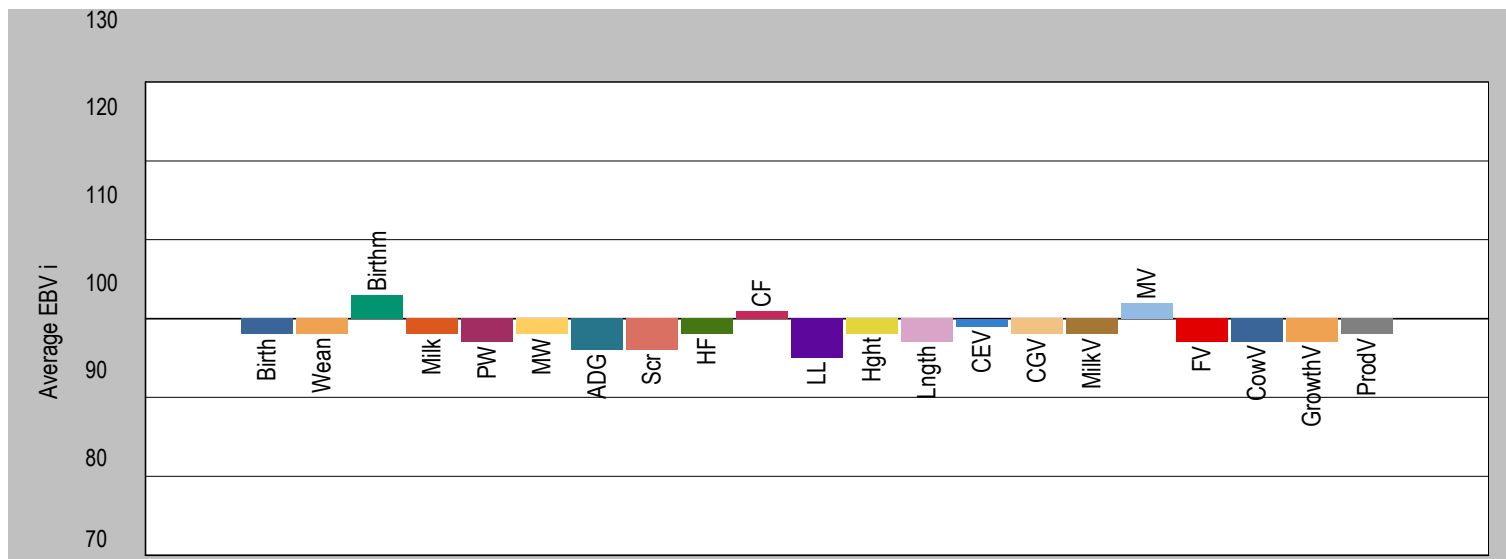
Interpretation of EBVi and Selection Values



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	EBV Index	EBV Breed
Prewean Growth	Birth Weight	0.20	98	0.12
	Wean Weight	2.1	98	2.6
	Birth Mat.	-0.03	103	0.05
	Milk (Wn.Mat.)	0.6	98	1.0
Postwean Growth	Postwean Wt	2.3	97	3.7
	Mature Weight	3	98	5
	ADG	2	96	12
Fertility	Scrotal Circumf.	2.4	96	3.8
	Heifer Fertility	-4.6	98	-6.2
	Cow Fertility	-3.1	101	-2.9
	Longevity	20.7	95	23.2
Frame	Height	1	98	2
	Length	3	97	5

Selection Value	Ave. Herd
Calving Ease	99
Calf Growth	98
Milk	98
Maintenance	102
Fertility	97
Cow Value	97
Growth Value	97
Production Value	98

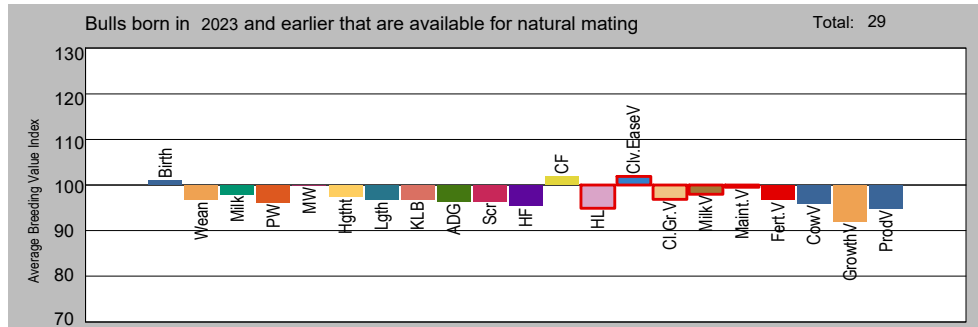
- Average of live animals in the breed: 100
- Above 100: **more favourable**,
- Below 100: **less favourable**

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

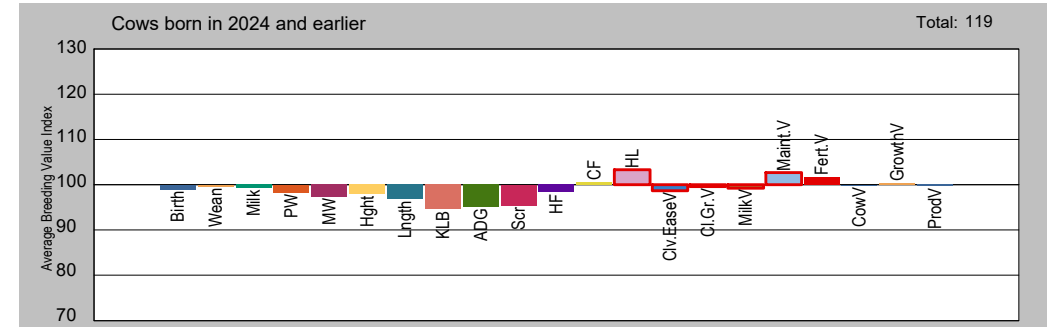
Genetic Windows

Bulls on the farm



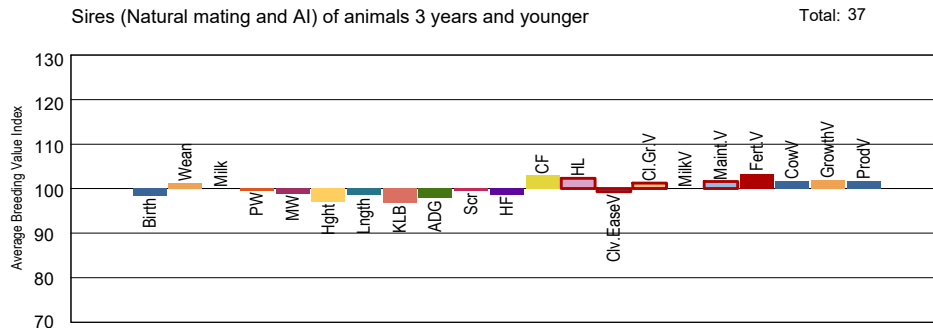
Animals available for breeding

Cow Herd

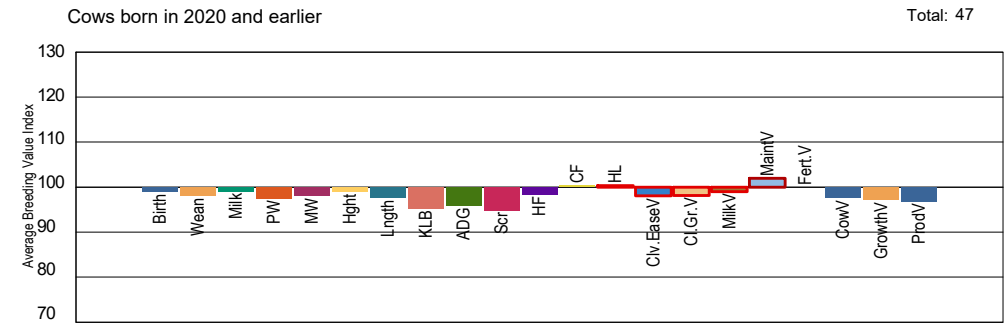


Results of previous selection decisions

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	99
2013	1	★★★★★	73	101	138	92	110	117	114	116	78	101	84	138	100	104	111	107	108	102	113	102	117	118	
2014	1		86	115	97		85				83	115	112	97	107		102	97	113	57	91	106	110	109	
2016	2	★★	92	103	76	100	91	79	83	79	90	103	123	76	107	103	85	84	86	83	88	105	94	92	
2017	3	★★★★☆	92	104	105	103	96	106	113	110	92	104	100	105	103	96	100	97	98	85	99	102	104	106	
2018	2	★★★★☆	82	103	93	105	110	106	106	106	83	103	95	93	101	95	91	90	90	106	99	116	93	96	
2019	11	★★★★	101	88	90	105	109	99	88	93	107	88	110	90	87	95	87	86	82	108	107	104	92	90	
2020	30	★★★★	100	100	104	101	96	96	99	97	99	100	100	104	101	99	100	100	101	97	99	97	102	100	
2021	21	★★★★	102	97	98	101	101	97	96	95	104	97	97	98	95	98	93	93	97	96	101	103	94	93	
2022	3	★★★★	97	95	90	96	106	95	86	89	100	95	102	90	93	105	91	92	93	99	107	104	91	92	
2023	41	★★★★	100	101	101	103	95	98	101	100	98	101	105	101	100	97	95	95	96	97	98	95	99	98	
2024	35	★★★★☆	96	101	97	104	99	101	101	102	95	101	104	97	98	96	95	95	94	102	101	95	99	98	
2026	1		96	98	92	110	102				95	98	104	92	97	92				111	98	99			
Cows in Herd Average:			93	101	98	102	100	99	99	99	94	101	103	98	99	98	95	94	96	95	100	102	100	99	

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.)		Postwean Weight		Mature Weight		Maintenance	Heifer Fert.		Cow Fert.		Longevity		Fertility	
	Number	EBV			Number	EBV		Number	EBV	Number	EBV	Number	EBV		Number	EBV	Number	EBV	Number			EBV

Breed

Birth Year	Calving Ease				Calf Growth			Milk			Maintenance						Fertility						Cow Value
	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		

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
AI 060031		AI 010017 AI 990010	94	94	74	113	53	46	66	54	95	94	153	74	86	90	100	98	44	61	87	100	98	202		2	2
AI 06 0031			93	41	43	30	77	44	51	48	0.35	0.4	-1.45	-5.0	-3.4	-4	11	3.2	40.0	6.3	16.1	2	4				
											95	41	84	43	24	30	13	19	85	57	90	20	18				
AVM 150156		AVM 110572 AVM 080462	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
AVM 150156			87	85	79	45	52	51	69	60	0.04	-0.4	0.30	-5.6	-4.3	7	-5	-0.4	-8.7	-8.4	18.2	-12	-11				
											88	85	81	79	62	45	29	32	55	31	71	33	31				
BN 160309		KVN 090020	121	81	116	108	114		98		127	81	99	116	88	92	91	98	108	111	109	93	94	1	68	20	29
BN 160309			61	73	73	42	48		62		-1.19	-4.2	0.07	4.7	-2.2	-2	-8	3.0	-12.9	-5.5	28.1	-2	0				
											61	73	60	73	42	42	19	21	44	33	68	22	21				
CSF 100082		SW 020048 KW 040038	93	75	59	117	104	80	66	71	92	75	143	59	66	87	78	80	111	107	93	79	80	43	49	5	7
CSF100082			78	88	69	41	66	53	72	62	0.53	-6.1	-1.18	-8.5	-13.4	-7	-37	-3.7	-15.8	-4.6	19.3	-8	-10				
											85	88	40	69	62	41	14	15	77	33	88	16	15				
CSF 120038		GL 000088 CSF 030136	104	91	107	99	91	87	88	87	103	91	100	107	91	98	102	87	121	79	93	103	103	1	1	7	10
CSF 120038			57	77	68	50	63	51	67	59	-0.05	-0.6	0.04	2.7	-0.7	3	17	-1.3	-24.1	2.1	19.7	3	7				
											58	77	51	68	42	50	16	18	74	41	75	18	18				
CVL 140013		CS 030038 LP 050192	75	110	74	115	109	106	114	110	78	110	92	74	108	88	94	100	115	105	102	90	96		43	16	25
CVL 140013			80	86	76	58	66	57	74	66	1.24	6.0	0.28	-5.1	7.5	-6	0	3.7	-19.1	-4.1	24.3	-3	2				
											81	86	76	76	75	58	16	19	72	47	78	19	19				
DH 100041		DH 050035 DH 080004	81	109	55	86	84	59	64	59	78	109	129	55	94	117	96	93	81	92	89	102	99	3	122	18	34
DH100041			72	92	79	59	68	59	78	68	1.23	5.7	-0.76	-9.4	0.9	20	4	1.1	9.5	-1.1	17.2	3	4				
											74	92	65	79	74	59	6	7	76	41	86	7	7				
DPN 180064		GL 020142 DPN 120103	112	90	97	98	74	67	73	68	111	90	102	97	90	100	95	88	56	78	101	82	83				
DPN 180064			38	37	40	30	53	34	41	38	-0.42	-0.8	0.01	0.3	-1.2	5	0	-0.6	30.2	2.2	23.8	-7	-8				
											38	37	37	40	28	30	18	21	58	34	67	22	21				
EX 160001		EX 100036 EX 120405	114	71	89	123	129	119	97	107	132	71	92	89	75	78	85	110	135	129	102	102	95	4	122	15	31
RUSTY			70	93	78	61	69	59	78	68	-1.46	-7.5	0.27	-1.6	-8.8	-16	-22	7.7	-35.4	-9.6	24.5	3	1				
											72	93	61	78	74	61	41	66	80	44	82	50	47				
EX 170210		EX 120209 EX 080421	79	141	68	68	138	128	113	121	80	141	94	68	143	144	144	137	145	128	127	150	146	5	263	59	135
WIT PENS			69	95	87	73	75	65	84	74	1.09	17.2	0.21	-6.5	25.2	45	109	18.0	-43.6	-9.5	37.9	27	40				
											72	95	54	87	85	73	76	79	87	56	83	82	81				
EX 180037		SW 100012 EX 130001	88	116	128	96	98	112	126	120	91	116	85	128	110	100	129	145	59	101	117	149	122	1	32	8	18
EX 180037			49	88	74	62	61	55	73	64	0.57	8.1	0.48	7.5	9.0	5	76	20.8	27.5	-3.2	32.5	27	22				
											51	88	39	74	67	62	68	69	71	40	71	77	74				

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
EX 180207		EX 120209 EX 100101	60	142	109	66	138	138	125	132	50	142	74	109	143	144	139	137	129	141	111	149	146	2	37	9	12	2
EX 180207			58	85	73	58	59	53	71	62	2.61	17.4	0.79	3.0	25.2	45	97	17.9	-30.6	-12.4	29.2	27	40					
											60	85	49	73	67	58	62	70	66	41	71	73	69					
EX 200002		SW 100012 EX 140212	116	82	132	101	100	104	94	98	116	82	92	132	87	96	92	105	90	92	115	90	83					
EX 200002			44	62	61	48	50	43	56	50	-0.69	-3.8	0.27	8.5	-2.7	1	-5	5.7	2.2	-1.0	31.1	-3	-8					
											46	62	35	61	48	48	38	40	54	36	61	42	41					
FB 160117		FB 110037 FB 080133	104	90	88	124	100	100	103	101	103	90	101	88	91	77			70	110	105			3	5	1	1	
INDUNA			59	64	38	20	65	40	54	47	-0.03	-0.9	0.02	-1.7	-0.7	-16			18.3	-5.3	26.0							
											62	64	43	38	52	20			72	46	78							
FB 170049		JLS 090016 FB 110025	119	104	105	94	61	63	84	73	125	104	82	105	95	103	107	91	67	44	107	101	105	56	61	3	3	
MATROOS			86	90	55	33	58	48	68	58	-1.11	4.0	0.55	2.2	1.5	8	27	0.5	21.1	10.2	26.9	3	9					
											91	90	64	55	81	33	11	14	64	37	74	14	13					
FB 170204		FB 110060 FB 140078	102	99	75	114	110	103	101	102	99	99	111	75	93	89			78	117	112			42	49			
STAAL			80	89	39	9	54	40	60	50	0.18	2.3	-0.25	-4.7	0.2	-5			12.2	-6.8	29.7							
											88	89	43	39	48	9			57	33	72							
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							
FB 190045		FB 140089 FB 150152	109	96	84	119	111	109	109	109	107	96	103	84	95	83			98	109	112				3			
FUKU			28	54	26	6	40	26	38	32	-0.25	1.2	-0.03	-2.8	1.3	-10			-4.2	-5.0	29.6							
											29	54	24	26	23	6			42	25	54							
FB 190068		PH 140207 FB 160112	121	79	106	133	101	109	115	113	127	79	100	106	81	63	63	62	109	82	117	71	69	37	46			
WAQU			79	89	37	22	46	39	59	49	-1.22	-4.7	0.04	2.3	-5.6	-29	-70	-10.9	-13.7	1.4	32.5	-12	-18					
											87	89	37	37	41	22	7	10	48	31	59	11	9					
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					
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					
FF 140088		FF 110092 FF 100206	87	133	62	76	101	85	90	87	87	133	100	62	126	131	128	140	95	109	94	109	114					
FF140088			37	86	61	47	54	48	66	57	0.75	14.2	0.06	-7.9	16.7	34	73	19.2	-2.0	-5.0	20.2	7	16					
											37	86	35	61	53	47	44	50	57	36	69	52	49					
FHG 200533		AVM 150156 GHB 110324	109	97	89	104	114	107	102	104	110	97	94	89	90	96	100	94	102	112	112	89	94	96	65	1	1	
FHG 200533			79	69	56	30	39	38	54	46	-0.36	1.7	0.23	-1.7	-1.3	1	11	1.4	-8.3	-5.6	29.9	-3	1					
											83	69	62	56	42	30	15	17	42	20	56	18	17					

Sires

Bull			Selection Values								Calf		Dam		Growth			Fertility				Frame		Measured Progeny				
ID	Index EBV Acc	Sire ID Dam 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	
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					
GL 120006		AP 070002 GL 100012	110	92	109	103	92	92	93	92	107	92	108	109	91	95	94	82	92	98	93	96	95	11	9	44	69	
GL 120006			87	87	86	60	68	59	77	68	-0.24	-0.2	-0.16	3.2	-0.7	1	-2	-3.2	0.7	-2.4	19.2	0	2					
											88	87	84	86	40	60	7	11	80	45	80	12	10					
GL 120021		GL 080082 GL 090093	117	98	66	123	63	61	84	71	117	98	149	66	87	79			71	80	70					18	40	
GL 120021			81	81	81	46	67	55	72	64	-0.70	1.7	-1.33	-7.0	-2.6	-14			17.9	1.7	6.9							
											82	81	78	81	36	46			76	42	84							
GL 140012		GL 050108 GL 090037	116	87	108	121	96	102	104	103	126	87	71	108	94	80			105	117	71	80			35	35	2	3
GL 140012			83	88	61	41	61	51	70	60	-1.15	-2.1	0.88	2.9	0.6	-14			-10.0	-6.8	7.3	-8						
											89	88	56	61	61	41			64	43	77	6						
GT 130019		CS 050381 GT 080067	73	116	133	68	98	99	91	94	78	116	80	133	119	139	112	117	117	101	85	103	105	4	7	33	66	2
GT1319			85	86	86	62	71	60	78	69	1.23	8.2	0.60	8.7	13.5	40	39	10.4	-20.0	-3.2	15.0	4	9					
											85	86	83	86	56	62	45	50	80	50	82	51	49					
HT 110002		EME 080010 PMP 070048	82	109	95	103	109	109	115	112	86	109	85	95	106	96	88	99	143	115	76	77	82	121		2	8	
HT 110002			93	55	56	19	73	45	55	50	0.83	5.9	0.49	-0.2	6.9	1	-15	3.2	-41.7	-6.4	10.1	-10	-9					
											95	55	86	56	42	19	32	37	81	49	88	37	36					
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					
JF 190091		T 100344 JF 160020	103	99	105	98	91	89	95	91	100	99	110	105	94	99	97	101	85	86	106	94	92	43	5			
JF190091			80	76	48	31	44	40	57	48	0.11	2.1	-0.22	2.1	0.7	4	6	4.0	6.2	0.4	26.6	-1	-1					
											89	76	36	48	27	31	31	36	44	28	61	37	35					
JLS 060251		JLS 970085 JLS 030092	110	105	104	91	90	89	95	91	114	105	76	104	110	107	116	66	104	98	82	110	115	4	158	21	34	26
JLS06251			75	95	79	55	79	62	81	72	-0.58	4.4	0.72	1.8	8.9	11	47	-9.3	-9.4	-2.4	13.4	7	16					
											76	95	68	79	62	55	76	82	87	57	93	83	81					
JO 170023		MFF 100176 BN 130420	76	110	102	89	94	90	96	93	74	110	111	102	103	110	106	93	106	109	75	109	111					
JO 170023			71	67	50	19	46	37	51	44	1.41	6.2	-0.25	1.4	5.3	14	25	1.3	-11.6	-5.0	10.0	7	13					
											74	67	54	50	59	19	32	39	52	25	60	40	38					
JS180278		JS080224 JS060105	94	104	114	88			88		96	104	89	114	102	110	89	124	65		86	105	115	46	35	8	11	15
18 0278JS			83	85	55	33			56		0.31	4.1	0.35	4.3	4.6	14	-12	13.1	23.1		15.6	4	17					
											89	85	52	55	70	33	66	73	30		41	76	73					

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
LEB 160538		LEB 130392 LEB 130378	92	93	86	121	100	98	102	100	89	93	131	86	91	81	102	78	111	106	87	102	103	30	22	10	26	6
LEB 160538			86	83	76	45	55	51	69	60	0.66	0.2	-0.82	-2.3	-0.8	-13	16	-4.6	-15.6	-4.3	15.9	3	7					
LEB 160538			86	83	76	45	55	51	69	60	89	83	74	76	72	45	62	70	61	35	70	71	69					
LEB 170603	T 100315 LEB 130402		106	79	115	122	99	104	100	102	101	79	121	115	78	77	79	82	101	104	92	88	79	99	129	10	19	7
LEB 170603			90	91	74	47	59	54	73	64	0.06	-4.9	-0.54	4.4	-7.4	-16	-34	-3.2	-7.1	-3.9	19.0	-4	-11					
LEB 170603			90	91	74	47	59	54	73	64	93	91	74	74	78	47	62	69	69	38	71	70	68					
LEB 180663	T 100315 LEB 040315		102	98	100	97	113	107	101	104	101	98	103	100	91	100	85	73	107	121	96	80	83	17	16			2
LEB 180663			79	81	57	34	51	45	62	54	0.09	1.8	-0.04	1.1	-1.0	5	-22	-6.4	-12.1	-7.9	20.9	-8	-8					
LEB 180663			79	81	57	34	51	45	62	54	84	81	56	57	66	34	64	71	53	38	62	72	70					
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					
LEB190710			88	91	56	28	47	44	64	54	93	91	62	56	76	28	60	67	58	17	66	69	66					
LEB 190749	DN 130143 LEB 100240		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			85	87	65	43	50	48	67	58	-0.47	3.1	0.32	0.8	0.5	10	-24	-2.9	-15.4	-4.2	23.3	5	13					
LEB190749			85	87	65	43	50	48	67	58	89	87	65	65	68	43	70	77	57	29	64	79	76					
LEB 200153	LEB 170603 RVS 160027		94	103	105	95	92	90	97	93	91	103	111	105	101	103	110	105	82	99	96	113	111	35	19			
LEB200153			83	81	49	25	38	38	56	47	0.54	3.8	-0.25	2.2	4.2	7	34	5.8	8.8	-2.5	21.1	9	14					
LEB200153			83	81	49	25	38	38	56	47	89	81	51	49	48	25	31	34	42	19	52	35	34					
NGI 160007	VOR 070357 FB 120052		89	114	91	97	79	79	99	89	90	114	94	91	110	101	106	98	83	82	90	104	106		18	1	2	
NGI 160007			25	79	50	17	57	41	58	50	0.61	7.7	0.23	-1.1	8.8	6	25	3.1	7.7	1.2	17.9	4	10					
NGI 160007			25	79	50	17	57	41	58	50	25	79	24	50	17	17	7	8	65	36	70	8	8					
NH 160013	BN 090561 NH 130002		121	55	143	131	58	72	79	74	121	55	153	143	63	63	73	87	69	75	67	71	71	74	36	20	32	2
NH 160013			89	86	78	54	58	54	72	63	-0.93	-13.4	-1.45	11.0	-14.9	-29	-49	-1.0	19.3	3.0	5.2	-12	-17					
NH 160013			89	86	78	54	58	54	72	63	92	86	76	78	74	54	48	56	67	36	72	57	55					
NH 160024	BN 090561 BN 120318		109	93	111	90	99	93	86	88	108	93	101	111	95	108	97	87	113	106	84	87	90	15				
DINGAAN NH 160024			62	52	50	31	51	38	49	44	-0.25	0.1	0.03	3.5	1.3	12	4	-1.3	-17.2	-4.2	14.8	-4	-2					
DINGAAN NH 160024			62	52	50	31	51	38	49	44	65	52	50	50	36	31	28	32	55	34	65	33	32					
NH 180080	BN 090561 NH 130196		114	85	137	90	99	100	89	94	114	85	92	137	89	106	95	93	104	93	103	95	94	41	31	5	5	
NH 180080			72	79	59	38	48	44	61	52	-0.58	-2.8	0.29	9.6	-1.6	10	1	1.1	-9.2	-1.2	24.9	-1	0					
NH 180080			72	79	59	38	48	44	61	52	75	79	56	59	52	38	27	31	53	29	61	31	30					
NRF 090303	FF 000108 CS 030121		70	109	72	92	103	87	90	87	67	109	128	72	102	108	107	113	134	109	76	101	98	95	53	19	35	
NRF 090303			92	89	82	60	72	61	79	70	1.78	5.8	-0.75	-5.5	4.5	12	27	8.6	-34.4	-5.0	10.3	2	4					
NRF 090303			92	89	82	60	72	61	79	70	94	89	85	82	72	60	62	70	78	53	86	72	69					

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	
NRF 180017		FF 080166 NRF 080185	110	117	97	80	116	110	104	107	108	117	102	97	110	123	101	117	105	121	105	108	115			60		
NRF 180017			74	70	62	43	52	45	60	52	-0.28	8.7	-0.02	0.3	8.6	25	13	10.1	-10.0	-7.7	25.6	6	16					
											76	70	61	62	45	43	44	47	54	38	65	49	48					
NRF 190129		NRF 090303 NRF 150769	92	86	101	100	100	91	83	85	88	86	124	101	85	98	92	105	111	102	92	91	94	14	2			
NRF 190129			81	64	55	33	47	40	54	47	0.73	-2.3	-0.63	1.2	-3.6	3	-5	5.6	-15.4	-3.3	18.7	-3	0					
											85	64	60	55	49	33	32	38	50	28	62	39	37					
PH 120075		PH 080087 PH 090080	100	93	89	126	94	97	106	102	100	93	99	89	91	74			88	102	92					1	6	10
TEMBA			55	77	68	48	58	49	66	58	0.13	0.0	0.08	-1.4	-0.6	-19			4.0	-3.4	19.1							
											55	77	56	68	64	48			59	38	77							
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					
PH 160033		FB 120069 PH 120052	96	112	101	97	115	116	120	119	96	112	98	101	107	101	112	107	110	91	133	112	112					
PEZULU			32	66	41	28	52	38	52	45	0.33	6.9	0.10	1.2	7.1	5	38	6.6	-14.3	-0.8	40.9	8	14					
											33	66	28	41	34	28	10	11	62	32	63	11	10					
PH 160037		FB 120069 PH 100028	89	114	84	111	133	132	132	133	90	114	97	84	110	92	98	100	124	113	133	97	100					
PEZULU			34	67	44	30	55	40	54	47	0.64	7.4	0.14	-2.8	9.0	-3	7	3.9	-26.2	-5.9	40.9	1	5					
											35	67	32	44	36	30	11	12	64	36	66	12	12					
PH 180095																					83							
PH 180095																					13.8							
																					8							
PH 190017		PH 080087 PH 120056	99	96	93	115	89	89	96	92	100	96	93	94	93	96	87	81	78	99	92	89	87					
MBOMVANE			39	58	48	31	49	37	49	43	0.15	1.2	0.21	-0.6	1.9	-7	-30	-3.4	11.7	-2.6	19.1	-3	-5					
											40	58	35	48	48	31	8	8	54	32	62	9	8					
Q 150104		Q 120039 MVN 090116	92	120	123	75	80	86	95	89	95	120	87	123	123	127	121	114	70	89	92	129	128	12	124	15	29	1
Q 150104			74	92	78	56	66	57	77	67	0.38	9.7	0.43	6.3	15.2	30	58	9.2	18.7	-0.4	19.0	17	26					
											78	92	56	78	80	56	34	35	77	43	78	41	39					
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					
Q 160046		N 070055 Q 120110	65	132	110	82	96	103	118	111	50	132	94	110	128	118			82	97	107			1	5	2	4	
Q 160046			57	79	65	42	45	44	61	52	2.61	13.7	0.23	3.4	17.8	21			8.8	-2.2	26.8							
											61	79	35	65	60	42			56	12	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 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
Q 190012		Q 070062 Q 120110	68	139	97	68	109	105	106	105	50	139	111	97	130	141	123	105	90	110	111	127	132	9			
Q 190012			54	81	60	44	51	46	63	54	2.61	16.5	-0.26	0.4	18.6	42	62	5.5	1.8	-5.1	29.2	16	29				
											56	81	45	60	70	44	19	21	53	34	65	21	21				
RL 140048		AVM 100532 GJR 110053	65	120	106	85	105	105	110	108	66	120	95	106	122	114	123	93	77	116	106	103	104	69	64	16	24
RL14-0048			90	90	76	47	61	54	73	64	1.78	9.6	0.19	2.4	14.7	18	63	1.0	13.2	-6.6	26.2	3	8				
											93	90	75	76	82	47	54	64	70	36	77	67	63				
RV 150055		ISF 060022 RV 100026	118	91	61	94	100	75	66	68	117	91	98	61	90	106	94	112	98	104	96	96	97	4	47	8	9
RV 150055			66	75	64	47	67	51	66	58	-0.72	-0.5	0.12	-8.1	-1.4	10	-2	8.2	-4.5	-3.8	21.2	0	3				
											68	75	57	64	56	47	22	24	78	46	76	24	23				
RV 160046		ISF 060022 RV 090055	111	96	64	101	113	94	86	88	109	96	107	64	92	98	83	93	102	126	94	88	86	38	2	3	3
RV 160046			83	58	50	25	62	42	53	48	-0.32	1.1	-0.13	-7.5	-0.4	3	-26	1.1	-7.9	-9.1	20.0	-4	-5				
											89	58	52	50	41	25	11	13	72	41	74	13	13				
RVS 150069		BN 110283	103	109	103	111	104	113	122	118	104	109	89	103	113	91	105	104	112	105	95	99	106	4	41	26	31
BABAZEKA			53	90	77	47	62	54	73	64	-0.09	5.9	0.36	1.8	10.3	-4	22	5.5	-16.0	-4.1	20.3	2	9				
											58	90	28	77	50	47	16	18	74	34	77	19	18				
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				
SW 120417		SW 040048 MTN040662	95	90	97	118	69	71	84	77	93	90	107	97	85	84	81	82	81	71	85	83	88	2 2			
SW 120417			50	45	46	30	59	38	47	42	0.46	-1.0	-0.14	0.2	-3.7	-10	-30	-3.0	9.3	3.8	15.2	-7	-4				
											53	45	33	46	28	30	19	19	68	28	81	22	21				
SW 160384		SW 100012 SW 110384	114	74	125	111	113	114	94	103	114	74	97	125	76	90	91	98	118	108	106	93	83	1	1	1	
SW16-384			51	56	50	37	62	43	53	48	-0.56	-6.7	0.13	6.8	-8.1	-4	-8	3.2	-21.0	-4.7	26.5	-2	-8				
											53	56	41	50	44	37	34	37	76	35	74	39	38				
SW 170788		SW 100012 SW 090788	117	81	118	114	98	103	96	99	115	81	100	118	80	87	89	96	97	95	105	88	82	1 1			
SW170788			45	55	53	41	56	41	53	47	-0.65	-4.0	0.04	5.2	-6.1	-7	-13	2.2	-3.6	-1.6	25.7	-4	-9				
											46	55	38	53	43	41	36	39	60	36	73	40	39				
T 100086		T 021201 T 040007	113	78	148	91	81	86	79	81	113	78	94	148	89	104	97	94	96	90	78	107	96	37	3	23	51
T 100086			88	82	83	54	81	61	78	70	-0.52	-5.3	0.22	12.3	-1.6	9	6	1.5	-3.3	-0.5	11.4	5	2				
											90	82	78	83	42	54	21	24	88	62	92	25	24				

Sires

Bull			Selection Values							Calf		Dam		Growth			Fertility				Frame		Measured Progeny					
ID	Index EBV Acc	Sire ID Dam 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	
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					
			94	93	93	56	75	63	82	72	95	93	92	93	84	56	81	87	80	59	85	87	86					
T 100344		H 990174 T 060115	82	119	103	82	58	59	83	70	80	119	111	103	109	118	113	114	63	72	73	99	93	128	147	13	21	
T 100344			89	91	73	50	73	58	77	68	1.11	9.5	-0.26	1.8	8.2	22	41	9.1	24.7	3.6	8.7	2	-1					
			89	91	73	50	73	58	77	68	93	91	69	73	50	50	59	70	80	51	89	72	68					
T 150107		T 090143 T 090111	114	92	117	109	88	95	98	96	111	92	108	117	91	92	90	102	92	95	89	99	88	31				
T 150107			75	51	42	26	57	38	48	43	-0.43	-0.4	-0.16	5.0	-0.8	-3	-11	4.6	0.6	-1.7	17.0	2	-4					
			75	51	42	26	57	38	48	43	82	51	39	42	28	26	16	21	62	38	71	21	20					
T 180153		PH 110041 T 150184	93	109	83	120	115	118	126	123	91	109	112	83	103	83		89	104	110	115	96	92	15	2			
T 180153			65	54	37	25	53	36	47	42	0.57	5.7	-0.28	-2.9	5.2	-11		-0.4	-9.8	-5.1	31.3	0	-1					
			65	54	37	25	53	36	47	42	70	54	39	37	30	25		7	65	32	63	7	6					
T 180165		T 090143 T 090281	122	103	114	106	88	98	109	104	125	103	98	114	106	94	109	109	74	98	95	108	105	6	50	3	3	
T 180165			63	85	53	40	57	47	65	56	-1.14	3.8	0.11	4.2	7.0	-1	31	7.1	15.4	-2.5	20.3	6	9					
			63	85	53	40	57	47	65	56	69	85	36	53	60	40	20	28	63	37	70	23	22					
TT 110008		LEB 060194 LEB 080418	93	102	100	97	77	75	87	80	90	102	115	100	97	101	97	105	67	85	92	98	99	1	1			1
TT 110008 - MASSEY			51	52	37	21	55	35	46	40	0.61	3.2	-0.37	1.0	2.0	5	5	5.8	21.3	0.6	19.0	1	4					
			51	52	37	21	55	35	46	40	54	52	37	37	31	21	34	27	60	33	71	41	39					
TT 110014		LEB 060194 LEB 080435	111	87	90	109	81	74	77	74	108	87	110	90	86	93	92	93	91	83	88	88	88	3		1	2	
TT 11 0014 - REED			60	53	50	27	57	39	50	44	-0.26	-1.9	-0.22	-1.3	-3.1	-2	-6	1.0	0.8	1.2	16.5	-4	-4					
			60	53	50	27	57	39	50	44	62	53	48	50	32	27	28	25	63	34	74	33	32					
TT 140032		TT 110003 LEB 080418	81	113	105	91	94	94	104	99	80	113	105	105	110	107	105	100	90	96	99	112	112					
TT 14 0032			41	46	31	12	51	30	40	35	1.09	7.2	-0.09	2.1	8.9	11	22	3.9	2.2	-1.9	22.5	8	14					
			41	46	31	12	51	30	40	35	45	46	23	31	30	12	21	24	59	29	66	25	24					
TT 150006		TT 110014 TT 100006	98	107	77	93	114	100	98	98	96	107	105	77	101	106	106	108	117	100	116	100	101		19	2	2	
TT 15 0006			41	70	42	20	54	38	53	46	0.31	5.1	-0.10	-4.3	4.1	11	24	7.0	-20.0	-2.9	31.9	2	6					
			41	70	42	20	54	38	53	46	42	70	36	42	26	20	24	25	64	31	68	27	27					
TT 170046		TT 110003 TT 100019	104	91	107		112				103	91		107	95			75	103	100	121	102	99					
TT 17 0046			16	37	21		44				-0.04	-0.4		2.7	1.4			-5.8	-9.1	-2.9	34.4	3	5					
			16	37	21		44				19	37		21	10			10	54	18	59	13	6					
TT 190001		TT 140032 TT 120036	97	104	103	94	104	101	103	102	95	104	107	103	100	104	99	105	93	94	118	102	104					
TT 19 0001			30	30	25	13	39	23	29	26	0.37	4.1	-0.14	1.8	3.5	9	9	5.8	-0.7	-1.4	33.0	3	8					
			30	30	25	13	39	23	29	26	31	30	24	25	22	13	18	20	45	20	52	20	20					

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	
UCP 100034		FF 000101 UCP 020016	113	95	52	113	72	56	66	59	107	95	123	52	85	91	82	92	45	80	101	88	84		21	9	9
UCP100034			61	82	62	43	78	55	71	63	-0.23	0.7	-0.60	-10.3	-4.0	-3	-27	0.8	39.2	1.7	23.5	-4	-7				
			63	82				63	82		53	62			38	43	25	27	85	58	90	28	27				
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				42	52		34	32			40	20	24	27	66	34	73	28	27				
WD 120004		AVM 040287 NRF 060045	123	98	102	95	62	61	76	67	120	98	105	102	98	103	100	104	60	76	79	99	93				
PRINS			70	46	41	23	58	37	46	42	-0.87	1.8	-0.09	1.4	2.5	7	13	5.4	26.9	2.8	11.9	1	0				
								73	46		55	41			32	23	34	38	64	31	78	39	38				
WT 190086		GA 110058 WT 070071	89	98	98	112	88	90	98	94	88	98	103	98	97	90	90	90	105	91	85	91	91		1	1	
WT 190086			51	52	41	29	49	35	46	40	0.71	1.9	-0.04	0.5	2.2	-4	-10	0.0	-10.2	-0.8	15.3	-3	-2				
								53	52		53	52	42	41	32	29	31	35	50	31	67	36	34				

Breeding Values and Accuracies: Bulls

Green: >120 High
White: 80-120 Average
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Animal			Selection Values									Birth		Wean				Growth		Fertility				Frame	
Index EBV Acc	ID Number Name	% Inbreeding	Sire ID Dam ID	Calv. Ease V	Calf Growth V	Milk V	Maint. V	Fertility V	Cow Value	Growth Value	Prod. Value	Birth wt dir	Birth mat	Mature wt	Wean wt	Wean mat	Cow-Calf Ratio (Wean)	Postwean wt	ADG	Scrotal Circ.	Heifer Fertility	Cow Fertility	Longevity	Height	Length
Q 200068 90874892 Q 200068	3	Q 160029 Q 120005		70	128	120	74	111	114	115	115	76	73	129	128	120	123	135	109	114	88	116	109	104	118
				55	74	57	36	41	40	56	48	1.31	0.80	32	12.6	5.7	68	21.1	33	9.0	4.1	-6.7	28.0	4	19
RL 200010 90341405 RL20-0010	1	RL 140048 RL 120080		74	120	102	90	101	102	113	108	74	102	108	120	102	113	119	118	109	80	104	107	109	109
				72	73	55	31	41	39	55	47	1.40	0.01	13	9.8	1.5	47	13.2	52	7.2	10.1	-3.9	27.1	7	12
EX 210220 91824516 WP SHANKY		EX 170210 EX 090118		103	101	100	85	115	104	93	97	102	100	115	101	100	94	110	127	88	132	102	106	129	122
				38	73	61	45	45	43	58	50	0.02	0.05	19	3.0	1.1	5	8.6	70	-0.9	-32.7	-3.4	26.5	16	22
DPN 230039 95818696 DPN230039		DPN 180064 DPN 190019		105	95	101	93	94	87	85	85	106	94	105	95	101	94	96	96	87	80	101	100	92	93
				31	33	32	22	38	26	32	29	-0.16	0.23	9	0.9	1.2	6	1.7	2	-1.4	10.4	-3.1	22.9	-2	0
EX 230436 95310637 DF BOS 404	1	FF 140088 EX 210401		109	100	81	95	109	96	91	92	108	101	104	100	81	81	96	103	113	101	112	104	94	90
				28	56	41	30	36	32	43	38	-0.27	0.03	9	2.6	-3.5	-23	1.9	18	8.8	-7.5	-5.6	25.2	-1	-2
EX 230437 95310645 DF CHARRA	1	FF 140088 EX 210408		108	101	84	92	110	97	90	93	108	98	107	101	84	83	100	103	119	103	112	104	100	98
				27	56	41	30	36	32	43	38	-0.28	0.12	12	3.0	-2.8	-18	3.5	18	10.9	-8.7	-5.7	25.2	2	3
EX 230439 95399234 DF PRINCESS	8	EX 200002 EX 210025		104	93	130	90	98	99	94	96	106	88	106	93	130	115	97	104	110	75	93	117	105	96
				21	42	39	25	29	26	35	30	-0.17	0.38	11	0.0	7.9	51	2.2	21	7.7	14.5	-1.3	32.3	5	2
FB 230088 95625000 ZULU	12	FB 180126 FB 200197		108	86	79		121				105	113		86	79		83			87	126	117		
				34	31	13		30				-0.11	-0.32		-2.2	-3.8		-4.6			4.6	-9.1	32.3		
JAC 230301 95939005 JAC 230301	13	FHG 200533 FHG 210582		107	102	85						111	77		102	85		97			99		101		
				64	46	33						-0.41	0.70		3.4	-2.5		2.0			-5.3		23.8		
MFF 230001 96863477 MFF 230001		NH 200142		104	95	109	96	85		87		102	105	102	95	109	102	95	100	95	101	98	74	101	103
				27	27	28	18	23		25		0.01	-0.10	6	1.0	3.0	23	1.2	12	1.9	-6.8	-2.4	9.1	3	7
MFF 230003 96863287 MFF 230003		NH 200125		92	100	106	91	80		83		91	102	107	100	106	101	99	98	98	102	96	65	101	101
				21	21	21	15	19		20		0.55	0.00	11	2.5	2.4	21	3.4	7	3.2	-8.2	-2.0	4.5	2	6
MFF 230004 96885975 MFF 230004	2	GL 140012 JF 210020		110	93	105	113	87	91	96	93	112	89	89	93	105	104	94	91	84	88	104	77	85	83
				48	52	37	24	38	31	42	36	-0.45	0.36	-6	0.1	2.1	26	1.0	-8	-2.2	3.8	-3.9	10.9	-6	-7
												51	34	24	52	37	38	34	9	14	40	26	48	15	13

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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																								
MFF 230006 96863303 MFF 230006		JF 200159	109 19	87 25	80 23	117 15	77 23		78 23		105 -0.12 19	117 -0.43 17	86 -8 15	87 -1.8 25	80 -3.6 23	78 -31 21	84 -4.2 12	85 -22 7	86 -1.5 8	82 8.4 24	91 -0.7 17	77 11.0 29	90 -3 8	89 -3 8
MFF 230009 96863337 MFF 230009		NH 200122	108 23	94 23	86 25	109 13	74 18		79 21		102 0.01 23	121 -0.55 23	93 -2 13	94 0.4 23	86 -2.3 25	85 -14 20	90 -1.4 8			91 0.9 19	91 -0.7 10	67 5.1 26		
MFF 230010 96863345 MFF 230010		RVS 150272 RVS 200466	113 31	93 52	97 41	123 26	102 37	107 31	112 41	110 36	110 -0.39 32	109 -0.21 25	77 -16 26	93 0.0 52	97 0.4 41	102 24 40	95 1.3 27	86 -18 12	91 0.4 14	116 -19.4 43	90 -0.6 22	104 25.4 45	88 -4 15	88 -4 14
MFF 230015 96863469 MFF 230015		JS180278 LEB 190759	90 48	106 47	118 39	87 21	83 19	85 24	92 34	88 29	94 0.44 50	83 0.55 37	111 15 21	106 4.6 47	118 5.3 39	114 48 36	106 6.7 38	98 8 34	114 9.0 37	75 14.3 23		88 17.0 30	105 5 39	111 14 37
MFF 230023 96863386 MFF 230023		WT 190086 RV 210049	98 30	98 31	86 25	101 9	97 30	88 20	90 26	88 23	98 0.24 31	101 0.03 23	98 3 9	98 2.0 31	86 -2.3 25	87 -11 22	97 2.4 16			102 -7.8 34	98 -2.4 14	95 20.4 41		
MFF 230141 96863451 MFF 230141		JS180278 LEB 190764	119 55	81 55	106 41	101 22	89 22	83 27	77 39	78 33	115 -0.63 58	112 -0.28 39	97 2 22	81 -4.1 55	106 2.5 41	91 -2 39	83 -4.7 46	78 -37 39	91 0.5 45	86 5.0 30		91 18.5 32	93 -2 46	98 4 44
NH 230075 95959938 NH 230075		NH 200153	102 26	95 26	102 25	99 17	87 25		88 24		101 0.09 27	104 -0.06 24	99 4 17	95 1.0 26	102 1.5 25	98 14 23	95 1.2 15	94 -1 7	91 0.2 8	99 -5.0 30	103 -3.7 16	72 8.1 28	96 0 8	97 2 8
NH 230153 95774055 NH 230153		NH 200102	101 20	94 18	100 20	100 11	88 22				99 0.17 20	107 -0.14 19	98 3 11	94 0.5 18	100 1.1 20	96 9 16	92 -0.1 12	95 1 8	93 1.0 9	101 -7.4 27	105 -4.0 12	72 8.1 26	96 0 9	98 3 8
NH 230183 95809620 NH 230183		FB 190045 NH 200049	95 30	102 40	100 29	97 16	105 32	102 24	103 32	102 28	95 0.36 31	97 0.13 26	100 5 16	102 3.5 40	100 1.1 29	102 22 28	101 4.5 24	92 -6 6	91 0.4 9	97 -3.7 37	107 -4.5 20	103 25.0 39	94 -1 10	92 -1 9
NH 230184 95869178 NH 230184		NH 200129	102 22	90 20	110 21	100 14	78 21		82 20		100 0.12 23	105 -0.10 19	98 3 14	90 -0.9 20	110 3.3 21	101 20 18	92 -0.4 11	94 -1 5	93 0.9 6	97 -4.0 22	93 -1.3 15	68 5.9 27	101 3 6	99 4 6
Q 230090 95576435 Q 230090		T 180165 Q 160147	101 41	110 57	92 45	93 28	94 38	89 33	97 45	93 39	99 0.16 43	104 -0.07 30	106 10 28	110 6.0 57	92 -0.9 45	98 13 43	106 7.0 41	97 5 11	97 2.8 15	82 8.5 43	102 -3.3 26	97 21.4 46	101 13 13	98 4 12
RV 230054 95703138 RV 230054		WT 190086 RV 210018	91 35	101 32	92 27	101 18	96 33	91 23	96 30	93 26	91 0.59 37	104 -0.05 27	97 2 18	101 2.9 32	92 -0.9 27	94 6 26	99 3.5 22	92 -6 16	96 2.4 19	88 3.9 38	105 -4.0 20	95 20.5 42	94 -1 19	95 1 18

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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
	SW 230500 96807375 SW230500	1	SW 170788 SW 190500	111 32	80 37	96 34	112 24	110 37	102 27	88 34	94 30	107 -0.25 34	113 -0.31 24	90 -4 24	80 -4.5 37	96 0.2 34	84 -17 32	77 -7.9 27	86 -20 18	89 -0.6 20	110 -14.3 41	104 -3.8 22	108 27.6 48	87 -5 21	82 -8 20
	SW 230510 96808043 SW230510	1	SW 170788 SW 190510	110 33	81 38	94 34	112 24	107 37	99 27	87 35	92 31	107 -0.20 35	113 -0.31 24	90 -4 24	81 -3.9 38	94 -0.3 34	83 -18 32	78 -7.2 27	86 -19 18	89 -0.4 20	107 -12.3 41	100 -2.9 22	109 28.0 48	87 -5 21	82 -8 20
	SW 230750 96807383 SW230750	1	SW 170788 SW 190750	109 33	81 39	91 37	117 25	110 37	103 28	92 36	97 32	105 -0.12 35	115 -0.38 25	85 -9 25	81 -4.0 39	91 -1.0 37	83 -19 34	77 -7.6 27	84 -24 18	87 -1.2 20	109 -13.3 41	105 -4.1 22	108 27.3 48	86 -5 21	81 -9 20
	TT 230094 96168422 TT 23 0094		TT 170046 TT 190037	100 16	100 27	96 17		111 28				98 0.20 17	104 -0.05 9		100 2.7 27	96 0.1 17		100 3.7 7		92 0.7 9	104 -9.5 34	101 -3.2 13	117 32.5 37	103 3 10	102 6 8
	UCP 230058 95849998 UCP 230058	2	UCP 160017 UCP 200028	102 27	102 34	93 24	99 11	90 35	86 22	93 29	89 26	103 -0.02 28	94 0.22 24	100 4 11	102 3.4 34	93 -0.7 24	95 7 23	98 2.7 24	97 6 8	94 1.4 12	86 5.1 43	90 -0.6 17	101 23.5 45	95 -1 12	95 1 11
	JAC 240312 96470463 JAC 240312	13	FHG 200533 FHG 210585	112 63	93 45	85 31						112 -0.46 68	97 0.15 37		93 0.1 45	85 -2.6 31		86 -3.3 16			97 -3.5 13		102 24.1 25		
	MFF 240002 97030399 MFF 240002	18	NRF 190129 NRF 200171	87 54	95 47	92 38		102 24		92 33		86 0.83 57	105 -0.08 40		95 0.7 47	92 -0.8 38	90 -3 30	96 1.9 18			117 -20.2 32		90 17.7 38	90 -3 6	
	MFF 240003 97030381 MFF 240003		LEB 200153 LEB 210033	105 53	100 53	110 34	93 17	100 27	99 26	98 38	98 32	104 -0.09 57	102 0.00 35	105 9 17	100 2.8 53	110 3.3 34	106 31 35	97 2.1 30	106 25 25	108 6.9 28	98 -4.8 31	104 -3.8 14	97 21.7 35	109 7 29	110 13 28
	MFF 240004 97030886 MFF 240004		LEB 200153 LEB 210075	94 54	103 54	112 34	93 16	99 25	99 25	102 37	101 31	95 0.37 58	93 0.26 35	104 9 16	103 3.8 54	112 3.8 34	110 40 35	103 5.0 30	98 7 26	100 4.0 29	97 -3.8 30	104 -3.7 10	96 21.0 34	104 4 29	107 10 28
	MFF 240005 97375448 MFF 240005		EX 210408	113 20	82 37	99 28	113 19	96 24	92 21	85 29	87 25	111 -0.42 21	105 -0.08 17	89 -5 19	82 -3.9 37	99 0.9 28	88 -7 28	82 -5.1 31	86 -20 12	95 1.8 18	105 -10.2 30	106 -4.3 15	83 14.0 28	94 -1 15	90 -2 14
	MFF 240007 97375463 MFF 240007		NH 200153	102 26	95 26	102 25	99 17	87 25		88 24		101 0.09 27	104 -0.06 24	99 4 17	95 1.0 26	102 1.5 25	98 14 23	95 1.2 15	94 -1 7	91 0.2 8	99 -5.0 30	103 -3.7 16	72 8.1 28	96 0 8	97 2 8
	MFF 240008 97375471 MFF 240008		SW 190750	98 24	88 26	79 23	114 14	97 25		83 23		94 0.44 26	122 -0.57 15	89 -5 14	88 -1.8 26	79 -3.9 23	75 -36 21	83 -4.8 18	86 -19 6	85 -1.8 7	109 -14.0 30	107 -4.5 16	82 13.4 30	90 -3 7	90 -3 7

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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
MFF 240011 97717243 MFF 240011		Q	180054	78 26	106 37	93 34	101 24	96 26	93 23	102 31	97 27	80 1.13 26	97 0.13 24	98 3 24	106 4.8 37	93 -0.5 34	100 18 32	105 6.1 29	95 1 5	95 1.7 7	105 -10.6 30	105 -4.1 19	84 14.5 29	99 1 7	102 6 6
MFF 240012 97717227 MFF 240012		Q	200038	81 26	114 38	110 33	85 24	85 24	86 23	96 31	90 27	80 1.12 27	105 -0.10 21	114 18 24	114 7.4 38	110 3.4 33	112 44 32	113 10.1 33	110 34 10	105 5.7 9	90 1.7 29	104 -3.8 16	73 8.8 28	114 9 13	116 17 12
MFF 240016 97717276 MFF 240016		FB	210134	101 25	103 34	92 19		72 20		89 23		101 0.09 26	99 0.08 19		103 3.7 34	92 -0.9 19	97 12 19	100 3.7 29			89 2.7 26	75 2.9 9	80 12.4 25		
MFF 240018 97717292 MFF 240018		LEB	190692	110 38	90 32	91 34	102 20	96 27	87 23	84 29	84 26	106 -0.19 39	111 -0.26 35	97 2 20	90 -0.8 32	91 -1.1 34	85 -14 29	88 -2.5 27	88 -15 24	79 -4.1 27	111 -15.2 31	110 -5.2 19	75 9.8 30	92 -2 27	91 -2 26
MFF 240020 97717318 MFF 240020		Q	170028	80 28	105 39	104 39	108 32	94 28	99 26	108 34	104 30	81 1.08 29	100 0.04 21	93 -1 32	105 4.6 39	104 1.9 39	111 42 37	103 5.3 34	98 7 7	96 2.1 8	102 -7.6 32	109 -4.9 20	79 11.6 32	104 4 8	106 10 8
MFF 240025 97717342 MFF 240025		NH	200125	92 21	100 21	106 21	91 15	80 19		83 20		91 0.55 21	102 0.00 21	107 11 15	100 2.5 21	106 2.4 21	101 21 19	99 3.4 14	98 7 11	98 3.2 13	102 -8.2 20	96 -2.0 12	65 4.5 26	101 2 13	101 6 12
MFF 240026 97717359 MFF 240026		LEB	210032	109 35	85 36	91 26	118 15	81 20		82 27		103 -0.02 37	123 -0.60 26	84 -9 15	85 -2.7 36	91 -1.0 26	86 -12 26	81 -5.9 30	83 -25 16	85 -1.9 17	92 0.8 25	95 -1.8 11	73 8.9 24	90 -3 18	87 -5 17
MFF 240027 97717367 MFF 240027		SW	190613	101 22	87 27	94 21	111 14	98 26		87 24		97 0.27 24	117 -0.43 14	91 -3 14	87 -1.9 27	94 -0.5 21	87 -10 21	84 -4.2 18	89 -11 10	91 0.3 10	106 -11.6 30	105 -4.0 16	86 15.7 31	92 -2 11	91 -2 10
MFF 240030 97717391 MFF 240030		LEB	190759	91 24	101 22	108 28	94 16	80 16		88 21		92 0.52 24	95 0.20 27	104 8 16	101 2.8 22	108 2.8 28	105 28 22	101 4.1 16	100 12 7	98 3.0 8	92 0.3 18	96 -1.9 10	72 8.1 21	101 3 8	103 7 8
MFF 240032 97717409 MFF 240032		FB	200197	98 19	93 20	89 14	114 6	91 23				95 0.35 20	109 -0.22 16	88 -6 6	93 0.3 20	89 -1.5 14	90 -4 13	92 -0.4 14			85 5.9 29	104 -3.9 14	86 15.8 27		
MFF 240038 97717458 MFF 240038		RV	210018	95 25	99 19	89 17	99 11	89 23				93 0.47 26	109 -0.19 18	100 5 11	99 2.2 19	89 -1.5 17	89 -5 16	97 2.1 14	93 -3 7	98 2.9 7	85 6.5 29	108 -4.8 14	79 11.8 26	97 1 7	99 5 7
MFF 240041 98310220 MFF 240041		NH	200102	101 20	94 18	100 20	100 11	88 22				99 0.17 20	107 -0.14 19	98 3 11	94 0.5 18	100 1.1 20	96 9 16	92 -0.1 12	95 1 8	93 1.0 9	101 -7.4 27	105 -4.0 12	72 8.1 26	96 0 9	98 3 8

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ID Number Name																									
MFF 240042 98310212 MFF 240042		RVS 200440	105 17	96 27	95 26	111 13	83 24		91 24		103 -0.02 18	106 -0.11 12	91 -3 13	96 1.1 27	95 -0.3 26	95 8 22	95 1.2 14	94 -2 5	94 1.6 5	102 -7.9 29	89 -0.4 15	78 11.5 28	95 0 5	98 3 5	
MFF 240043 98310238 MFF 240043		SW 210137	103 21	87 24	84 19	112 11	93 24		82 21		98 0.22 23	119 -0.50 13	90 -4 11	87 -2.0 24	84 -2.7 19	79 -29 18	83 -4.7 16		87 -1.1 5	108 -13.0 29	102 -3.2 13	81 12.7 29	91 -2 5	92 -1 5	
MFF 240045 98310246 MFF 240045		EX 210025	94 15	99 30	110 27	92 21	84 23	82 20	86 26	83 23	94 0.41 16	99 0.08 13	106 10 21	99 2.1 30	110 3.3 27	104 27 26	99 3.3 22	104 21 18	104 5.4 20	79 10.9 29	96 -2.0 14	86 15.7 26	109 7 21	104 8 20	
MFF 240047 98310253 MFF 240047		SW 180213	99 19	90 18	92 18	109 13	87 22				96 0.30 20	111 -0.25 14	93 -2 13	90 -0.9 18	92 -0.8 18	88 -9 16	87 -2.6 11	88 -14 8	88 -0.8 8	99 -5.5 23	91 -0.9 12	85 14.9 30	91 -2 9	93 0 9	
MFF 240053 98310279 MFF 240053		NH 200081	107 21	95 21	90 21	108 12	74 18				102 0.04 21	120 -0.51 20	94 -1 12	95 0.7 21	90 -1.4 21	89 -6 18	91 -0.8 8		91 1.3 19	91 -0.8 10	67 5.1 26				
MFF 240057 98310295 MFF 240057		SW 190469	97 22	89 25	86 21	103 13	93 25	79 22			93 0.45 24	117 -0.43 14	96 1 13	89 -1.2 25	86 -2.2 21	80 -25 20	86 -3.4 18	90 -11 5	89 -0.3 6	104 -9.9 29	103 -3.6 15	82 13.4 31	95 -1 6	95 1 6	
PH 260001 99857229 PH 260001		PH 240024	94 16	97 23	90 14	115 10	95 21				92 0.51 16	107 -0.15 14	88 -7 10	97 1.6 23	90 -1.2 14	95 6 16	95 1.1 12		107 -11.7 26	94 -1.5 12	94 19.8 24				
PH 260037 6020487812 PH 260037		PH 240022	94 13	103 25	91 19	109 13	93 21	102 21			93 0.47 13	103 -0.03 12	92 -2 13	103 3.7 25	91 -1.1 19	98 13 19	101 4.3 18		95 -1.9 26	96 -2.0 12	94 19.8 24				

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ID Number Name																								
Q 130116 78122124 Q 130116		SK 060038 Q 050087	73 58	101 76	138 84	92 65	110 55	117 53	114 69	116 61	78 1.24 59	84 0.49 54	104 9 65	101 2.8 76	138 9.9 84	130 84 75	100 3.9 62	111 36 7	108 6.7 8	102 -7.9 60	113 -6.0 38	102 24.3 67	117 10 8	118 19 8
TT 140024 80622566 TT 14 0024	6	TT 110008 LEB 080440	86 37	115 38	97 26		85 48				83 0.94 40	112 -0.28 25		115 8.0 38	97 0.4 26		107 7.4 15	102 16 10	113 8.6 10	57 29.4 61	91 -0.8 21	106 26.2 61	110 7 20	109 12 17
AI 160038 84702588 AI 160038	8	AI 060031 AI 040002	109 71	89 29	82 26	114 5	81 53	74 27	79 33	75 30	106 -0.16 74	134 -0.90 56	89 -5 5	89 -1.4 29	82 -3.2 26	79 -28 20				75 14.2 60	70 4.2 35	111 29.2 64		
Q 160147 84750033 Q 160147		DH 100041 Q 140086	74 50	116 76	70 74	85 42	100 53	83 47	86 63	83 55	73 1.47 51	111 -0.26 48	117 21 42	116 8.3 76	70 -5.9 74	80 -25 64	107 7.0 58	85 -21 9	86 -1.5 10	91 1.6 59	105 -4.1 37	99 22.5 62	94 -1 10	92 -1 10
Q 170028 85316602 Q 170028		SK 060038 Q 120101	64 55	117 79	115 78	109 64	115 56	129 53	138 69	135 61	68 1.69 58	87 0.42 43	92 -3 64	117 8.6 79	115 4.5 78	131 87 74	115 11.1 66	103 18 14	99 3.2 17	105 -10.1 65	120 -7.5 40	104 25.4 63	111 8 16	113 15 15
TT 170027 86400926 TT 17 0027	6	TT 110014 TT 140049	100 31	100 28	95 20		88 42				97 0.27 33	110 -0.23 19		100 2.6 28	96 0.0 20		97 2.2 7			73 16.2 53	96 -1.8 18	98 22.4 54	99 1 6	
WD 170151 86580560 WD 170151		WD 120004 WD 130053	112 34	96 23	104 21	97 12	84 34	82 20	88 25	84 22	111 -0.42 36	102 -0.02 27	100 5 12	96 1.3 23	104 1.8 21	99 17 19	96 1.9 16	97 6 17	97 2.8 19	78 12.0 32	82 1.3 16	103 24.7 54	102 3 19	98 4 19
Q 180054 87369278 Q 180054	1	CVL 140013 Q 160034	62 51	119 73	94 69	98 49	119 51	118 47	125 62	122 54	66 1.80 52	81 0.60 48	100 5 49	119 9.2 73	94 -0.5 69	109 38 64	118 12.7 58	98 6 11	96 2.4 13	112 -16.1 59	113 -6.0 37	115 31.0 58	100 2 13	104 8 13
SW 180213 88323936 SW180213		SW 120417 SW 140213	102 37	86 35	91 36	112 25	100 43	93 29	87 36	89 32	100 0.13 39	108 -0.17 28	90 -4 25	86 -2.3 35	91 -1.0 36	85 -16 32	83 -4.7 22	84 -23 16	83 -2.6 17	100 -6.1 46	85 0.6 24	116 31.9 60	85 -5 18	87 -5 17
DPN 190019 89153936 DPN190019		JLS 060251 DPN 070047	98 48	100 55	105 49	89 34	115 55	107 40	98 51	102 46	100 0.10 49	86 0.46 45	109 13 34	100 2.6 55	105 2.2 49	99 17 46	102 4.6 37	97 5 40	85 -2.1 44	104 -9.4 63	124 -8.5 39	98 22.1 64	102 3 44	104 8 43
LEB 190692 90374422 LEB190692		T 100315 LEB 130381	123 77	87 63	89 69	100 40	119 53	105 45	90 58	97 52	120 -0.85 78	109 -0.20 70	98 3 40	87 -2.0 63	89 -1.6 69	80 -26 57	84 -4.5 54	83 -26 49	66 -9.2 54	123 -25.4 61	122 -8.1 38	97 21.8 59	86 -5 54	84 -7 53
LEB 190759 92154905 LEB 190759		NH 160061	86 49	107 45	122 56	86 31	87 33	91 32	97 41	93 36	91 0.56 48	76 0.74 53	112 16 31	107 5.2 45	122 6.2 56	117 57 44	110 8.8 32	108 28 14	103 4.9 15	86 5.6 37	94 -1.5 20	91 18.3 42	106 5 16	108 11 15

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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																							
LEB 190764		LEB 160538																					
89240188		LEB 170551																					
LEB190764	13																						
LEB 190789		T 100315																					
89481154		LEB 030928																					
LEB190789																							
SW 190469		CSF 100082																					
89654941		SW 120469																					
SW191207																							
SW 190510		CSF 100082																					
90124215		SW 120510																					
SW190510																							
SW 190613		CSF 100082																					
89439905		SW 080613																					
SW190613																							
SW 190750		CSF 100082																					
89344964		SW 130750																					
SW190750																							
TT 190002		TT 140032																					
88216775		JSN070060																					
TT 19 0002																							
TT 190037		TT 150006																					
90220070		TT 130048																					
TT 190037																							
FB 200197		FB 160117																					
91526707	3	FB 160039																					
FUKU																							
HW 200018		T 150107																					
91457713		HW 170169																					
MAKOSI BRY																							
JF 200159		UCP 100034																					
91562546		JF 110018																					
JF200159																							
JF 200162		NGI 160007																					
91587394		JF 170182																					
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ID Number Name																								
LEB 200010 90793118 LEB200010		NH 160013 LEB 170604	107 74	100 71	125 55	105 33	85 45	97 41	107 56	102 48	105 -0.10 76	109 -0.21 61	94 0 33	100 2.7 71	125 6.9 55	124 72 53	98 2.7 61	102 15 32	93 1.1 36	81 9.6 57	99 -2.7 26	84 14.5 52	101 3 37	98 4 35
LEB 200058 90933565 LEB200058		T 100315 BN 140046	105 74	88 71	92 59	110 31	110 50	103 42	93 57	97 50	104 -0.09 76	101 0.04 64	92 -2 31	88 -1.7 71	92 -0.8 59	86 -12 54	87 -2.9 62	87 -18 42	70 -7.7 45	108 -12.9 60	117 -6.9 34	95 20.3 56	98 1 45	84 -7 44
NH 200049 91069781 NH 200049		GT 130019 N 100172	81 54	109 57	117 51	82 34	99 49	98 39	97 50	97 44	83 0.97 56	91 0.30 47	117 21 34	109 5.7 57	117 5.0 51	112 44 47	108 7.6 42	105 22 22	105 5.8 25	96 -3.2 60	104 -3.9 31	95 20.4 57	104 4 26	104 8 25
NH 200051 90815853 NH 200051	1	T 100086 LRC 140055	106 56	96 52	129 55	95 33	102 54	108 40	107 50	107 45	107 -0.24 57	90 0.34 52	101 6 33	96 1.3 52	129 7.8 55	121 64 47	105 6.4 31	106 25 19	113 8.8 23	108 -12.8 62	101 -3.1 38	99 22.4 61	110 7 24	106 9 22
NH 200055 90996422 NH 200055		GT 130019 N 110022	100 52	94 57	114 55	88 40	104 52	99 41	89 52	93 46	99 0.19 52	104 -0.07 50	110 14 40	94 0.6 57	114 4.3 55	102 23 51	92 -0.4 42	97 5 24	102 4.6 27	116 -19.6 61	110 -5.3 36	87 16.3 58	96 0 28	94 1 27
NH 200081 90971680 NH 200081		GL 120021 NH 090170	116 42	95 41	86 42	110 24	75 37	72 29	82 38	76 34	110 -0.40 42	126 -0.69 40	92 -2 24	95 0.9 41	86 -2.3 42	87 -11 36	90 -1.1 18		83 7.6 38	84 0.8 21	80 12.4 52			
NH 200102 90996638 NH 200102		NH 160024 NH 170048	106 40	94 37	108 39	96 22	104 44	99 30	95 37	96 34	105 -0.13 41	100 0.05 38	102 6 22	94 0.6 37	108 2.8 39	100 19 33	93 0.3 24	97 5 15	93 1.0 17	104 -9.7 55	112 -5.7 25	91 18.2 51	96 0 18	96 2 17
NH 200122 91150326 NH 200122		GL 120021 NH 110324	117 46	94 47	79 50	112 25	75 37	69 32	79 42	72 37	112 -0.46 46	129 -0.76 46	91 -3 25	94 0.4 47	79 -4.0 50	79 -27 41	88 -2.2 18		84 6.9 38	84 0.9 21	80 12.4 52			
NH 200125 91150359 NH 200125		GT 130019 NH 090579	87 43	105 43	119 43	82 31	87 38	86 31	88 40	86 36	90 0.64 43	90 0.33 41	118 21 31	105 4.5 43	119 5.5 43	111 41 39	107 7.4 28	103 19 22	104 5.3 25	106 -11.4 40	95 -1.7 25	77 11.0 50	104 4 26	104 8 25
NH 200129 91150391 NH 200129		T 100086 NH 080500	107 44	86 41	127 42	96 28	83 43	85 32	84 40	83 36	107 -0.24 45	97 0.14 39	101 6 28	86 -2.3 41	127 7.3 42	111 42 37	92 -0.2 21	96 2 11	92 0.9 12	96 -3.1 44	89 -0.3 31	83 13.9 55	106 5 12	99 4 12
NH 200142 91150524 NH 200142		GL 120006 NH 160009	112 54	97 54	124 56	89 35	97 46	98 38	95 49	96 44	112 -0.46 54	97 0.14 53	109 13 35	97 1.5 54	124 6.7 56	113 47 48	99 3.0 28	107 28 14	97 2.7 16	103 -8.6 55	98 -2.4 30	95 20.3 54	106 5 16	106 10 16
NH 200153 91555870 NH 200153		GL 120006 NH 150048	108 52	97 52	111 49	95 35	100 49	99 38	97 48	97 43	108 -0.29 53	95 0.21 48	103 7 35	97 1.4 52	111 3.6 49	105 29 45	99 3.0 30	95 2 13	88 -0.6 15	99 -5.0 61	109 -5.0 32	91 18.3 55	95 -1 16	94 1 15

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NRF 200171 90980244 NRF 200171	7	NRF 090303 NRF 070128	80 76	103 74	84 66	107 41	104 49	98 45	102 61	99 53	84 0.92 78	85 0.47 66	94 0 41	103 3.8 74	84 -2.7 66	91 -2 60	107 7.3 41	92 -6 33	105 5.7 39	123 -25.1 60	105 -4.0 28	88 16.7 60	90 -3 40	91 -2 38	
NRF 200204 91830489 NRF 200204	7	NRF 090303 NRF 150807	69 72	114 72	103 56	93 30	109 41	108 39	113 55	111 47	51 2.57 75	112 -0.27 57	105 9 30	114 7.6 72	103 1.6 56	111 41 53	109 8.2 39	107 28 29	117 10.1 35	116 -19.8 47	117 -6.8 22	88 17.0 55	105 4 36	104 8 34	
Q 200034 90153354 Q 200034		Q 160046 Q 170055	66 38	117 73	106 61	89 43	108 43	108 42	114 57	111 50	68 1.73 40	100 0.06 30	110 14 43	117 8.6 73	106 2.5 61	113 47 59	117 12.1 64			102 -7.9 57	108 -4.7 21	105 25.9 51			
Q 200038 90153396 Q 200038	1	Q 150104 Q 110059	65 52	133 75	128 66	71 47	97 49	106 46	113 61	110 54	67 1.76 54	97 0.14 42	134 36 47	133 14.3 75	128 7.5 66	130 83 63	134 20.7 66	127 71 21	117 10.4 18	82 8.5 58	111 -5.4 32	93 19.6 56	132 18 25	133 30 24	
RVS 200426 90772484 HELP CORRIL		FF 110263 RVS 130009	97 31	116 61	97 65	90 33	108 41	106 38	112 51	109 44	98 0.20 31	92 0.29 31	109 13 33	116 8.4 61	97 0.3 65	105 30 53	125 16.4 40	106 26 32	133 16.4 36	104 -9.4 41	94 -1.4 28	120 33.7 55	115 10 37	118 19 35	
RVS 200440 90836081 HELP H		RVS 150069 H 070470	113 34	98 53	96 52	115 26	93 48	96 36	104 47	100 42	113 -0.51 36	98 0.12 25	87 -7 26	98 1.8 53	96 0.1 52	100 19 44	98 2.9 28	95 0 9	96 2.1 11	106 -10.9 57	81 1.5 31	103 25.0 56	94 -1 11	97 2 11	
RVS 200447 90836156 HELP ALMAFA		RVS 150069 RVS 170224	97 33	116 57	102 49	96 25	109 42	112 34	121 46	117 40	98 0.20 35	90 0.34 21	102 6 25	116 8.2 57	102 1.5 49	113 47 44	120 14.0 35	110 35 18	123 12.4 20	113 -17.1 51	96 -1.9 24	114 30.6 52	111 8 21	116 17 20	
RVS 200466 90914789 HELP WT		RVS 150069 RVS 170205	113 31	94 53	96 51	125 32	109 43	115 35	119 46	118 40	113 -0.51 33	99 0.09 19	75 -18 32	94 0.4 53	96 0.1 51	104 26 45	97 2.3 26			114 -17.8 56	94 -1.5 22	115 31.1 52			
RVS 200472 90914821 HELP H		RVS 150069 H 160548	115 27	97 50	96 47	118 20	92 42	97 32	105 42	101 37	114 -0.59 30	98 0.11 14	84 -10 20	97 1.4 50	96 0.0 47	101 20 39	99 3.0 20			97 -3.7 54	84 0.8 18	104 25.6 53			
UCP 200028 91538512 0028		GA 120155 UCP 130033	98 40	106 42	104 38	94 26	82 49	82 32	93 41	87 36	102 0.05 41	83 0.55 36	104 9 26	106 4.6 42	104 2.0 38	106 31 35	104 5.7 28	105 23 19	88 -0.8 22	78 11.7 60	88 0.0 30	92 18.8 58	102 3 22	102 7 21	
UCP 200047 90777657 0047		GA 120155 UCP 160033	98 37	107 42	100 37	93 25	88 48	86 32	95 40	90 36	101 0.09 38	86 0.45 33	105 9 25	107 5.0 42	100 1.0 37	102 23 35	104 5.7 28	106 25 21	98 3.0 24	76 13.9 59	93 -1.2 29	99 22.8 57	99 2 24	100 5 23	
UCP 200090 91094862 0090		SW 160384 UCP 170023	107 34	88 33	106 30	105 21	108 46	105 28	95 34	99 31	106 -0.19 35	98 0.11 27	95 0 21	88 -1.8 33	106 2.5 30	97 12 28	86 -3.3 26	93 -3 21	99 3.3 23	100 -6.5 59	105 -4.0 26	110 28.7 53	92 -2 24	87 -4 23	

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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																									
BN 210679 92502939 BN 210679		BN 160309 LEB 110230		110 39	96 66	107 52	111 25	110 37	113 35	111 49	112 42	109 -0.31 39	100 0.05 37	91 4 25	96 1.2 66	107 2.6 52	107 33 48	98 2.6 27	98 7 20	106 6.1 22	103 -8.7 37	106 -4.2 25	110 28.4 49	95 -1 23	97 3 22
BN 210690 92582733 BN 210690		BN 160309 BN 130403		98 39	104 65	105 51	94 24	119 37	116 34	111 48	114 41	97 0.26 39	102 -0.01 37	103 8 24	104 4.1 65	105 2.3 51	106 31 47	103 5.2 28	99 9 19	99 3.4 22	114 -17.7 37	120 -7.5 24	105 25.8 49	95 0 23	102 6 22
EX 210025 91597260 BANGLES PRINCESS	2	EX 180037 EX 170245		92 32	103 59	127 55	83 41	95 46	96 39	94 51	94 45	96 0.34 33	84 0.50 26	117 20 41	103 3.8 59	127 7.3 55	116 53 52	107 7.1 44	116 47 36	116 9.7 40	60 26.8 58	94 -1.6 28	119 33.5 52	121 13 43	110 12 41
EX 210401 91742981 NO1 BOS 404	2	EX 160001 EX 180011		120 41	67 73	100 56	123 39	118 49	111 42	91 57	100 50	129 -1.30 42	102 -0.01 35	78 -16 39	67 -8.9 73	100 0.9 56	81 -22 56	67 -12.9 62	78 -37 29	86 -1.6 41	108 -13.0 61	114 -6.2 30	113 30.2 55	79 -8 36	67 -20 34
EX 210408 91824508 NO1 CHARRA	2	EX 160001 EX 180017		118 41	69 73	106 56	118 39	119 48	113 42	91 57	101 50	129 -1.30 42	95 0.18 34	84 -10 39	69 -8.3 73	106 2.3 56	86 -13 56	73 -9.6 62	78 -36 25	97 2.6 37	111 -15.4 61	115 -6.4 29	113 30.2 55	90 -3 30	81 -9 29
FB 210128 92846534 HANAHEI		FB 170049 FB 120072		107 54	102 70	101 43	104 19	70 44	73 36	91 51	82 44	111 -0.41 56	79 0.64 45	95 0 19	102 3.2 70	101 1.2 43	104 27 44	99 3.0 60	97 4 7	88 -0.8 8	77 12.7 53	63 5.8 27	98 22.1 53	99 1 8	99 4 8
FB 210134 92846583 HANAHEI	5	FB 170049 FB 130163		106 49	112 69	91 37	103 5	70 41	73 31	99 46	86 38	109 -0.30 51	85 0.49 38	96 1 5	112 7.0 69	91 -1.1 37	103 26 37	108 8.0 58			80 10.4 52	53 8.1 19	107 26.8 51		
FHG 210582 92145499 FHG 210582	1	AVM 150156 AVM 060368		98 73	110 70	82 58	105 35	98 42	96 40	106 55	101 48	104 -0.08 75	62 1.11 64	95 0 35	110 6.1 70	82 -3.3 58	94 5 54	105 6.3 52	92 -5 22	100 3.9 25	95 -2.2 50	108 -4.9 25	90 17.8 52	88 -4 26	86 -5 25
FHG 210585 92145515 FHG 210585	1	AVM 150156 FHG 180443		97 72	95 67	81 53	94 31	100 38	83 37	78 52	79 44	96 0.33 74	104 -0.05 59	105 10 31	95 0.8 67	81 -3.5 53	77 -32 50	87 -3.0 52	95 2 18	88 -0.8 20	91 1.3 47	113 -5.8 19	91 18.3 48	84 -6 20	89 -4 20
JF 210020 91562660 JF210020		T 100344 JF 130159		99 49	99 57	101 46	100 31	78 48	77 37	89 49	82 43	97 0.25 51	108 -0.17 40	98 3 31	99 2.3 57	101 1.3									

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ID Number Name																								
LEB 210075 93040020 LEB210075	4	LEB 190749 DN 130152	93 72	103 72	119 50	92 24	107 38	109 36	107 52	108 44	99 0.20 76	74 0.78 51	106 10 24	103 3.8 72	119 5.4 50	115 51 49	104 5.9 43	86 -20 43	96 2.1 48	112 -16.4 49	109 -4.9 16	96 20.9 48	94 -1 49	102 7 48
Q 210092 92519164 Q 210092	1	Q 150104 Q 150033	76 48	125 73	109 55	77 40	92 44	93 41	101 57	96 49	80 1.10 50	83 0.53 41	126 29 40	125 11.5 73	109 3.1 55	113 47 56	123 15.1 65	103 18 25	113 8.7 26	81 9.9 49	103 -3.5 30	93 19.5 54	106 5 29	109 12 28
RV 210018 91534321 RV 210018		RV 160046 RV 170006	94 49	103 38	86 35	94 22	105 46	94 30	93 37	93 34	93 0.47 52	104 -0.06 35	104 9 22	103 3.8 38	86 -2.3 35	88 -8 32	102 4.8 29	94 -2 13	103 4.8 14	71 17.9 57	118 -7.2 28	105 25.7 52	97 1 15	100 5 14
RV 210020 91647255 RV 210020		CSF 120038 RV 150074	98 38	99 44	99 42	95 31	99 47	94 34	94 42	93 38	98 0.24 39	99 0.09 33	103 7 31	99 2.4 44	99 0.9 42	97 12 39	100 3.5 26	99 10 12	95 1.9 13	106 -11.3 59	92 -1.1 30	104 25.1 52	101 2 13	101 6 12
RV 210049 92153238 RV 210049	14	RV 150055 RV 180039	108 33	99 34	73 27	94 5	105 37	88 22	83 29	84 26	107 -0.24 35	98 0.11 23	105 10 5	99 2.1 34	73 -5.2 27	73 -40 22	98 2.6 7			99 -5.3 48	105 -4.1 14	104 25.4 48		
SW 210091 92732320 SW210091	1	SW 170788 SW 190244	107 35	84 38	97 34	110 24	115 37	108 27	93 35	100 31	104 -0.06 37	111 -0.27 25	92 -3 24	84 -3.0 38	97 0.3 34	87 -10 32	81 -6.0 27	87 -17 18	90 0.1 20	101 -7.2 39	104 -3.7 21	123 35.8 51	87 -4 21	84 -7 20
SW 210137 93027985 SW210137		CSF 100082 SW 110181	108 42	80 47	75 39	117 23	113 47	98 32	84 42	90 37	103 -0.02 46	125 -0.66 25	86 -8 23	80 -4.5 47	75 -4.8 39	66 -57 36	75 -8.9 32	82 -29 9	82 -3.2 10	118 -21.0 58	105 -4.1 25	108 27.5 58	86 -5 10	85 -6 10
TT 210030 92964998 TT 21 0030		TT 140032 TT 160023	91 28	105 29	97 22	95 10	106 34	101 21	102 26	101 24	89 0.64 30	108 -0.17 19	103 7 10	105 4.2 29	97 0.3 22	99 17 20	102 4.6 19	101 14 14	97 2.5 14	100 -6.0 39	98 -2.5 19	112 29.8 44	104 4 17	103 7 16
ZNS 210007 92068824 ZNS 210007		HT 110002 ZNS 180024	92 47	102 28	100 28	102 9	100 39	99 23	104 29	101 26	94 0.44 48	92 0.28 43	97 2 9	102 3.3 28	100 1.0 28	103 24 22	101 4.1 20	91 -8 16	95 1.7 18	119 -22.3 41	102 -3.3 24	88 16.5 51	91 -3 19	92 -1 18
BN 220722 93338143 BN 220722		BN 160309 NC 130076	116 50	82 61	96 46	109 24	111 38	103 33	90 47	95 40	132 -1.48 51	104 -0.06 48	92 -2 24	82 -3.8 61	96 0.2 46	85 -15 44	84 -4.1 23	86 -19 13	99 3.3 15	102 -8.1 39	108 -4.9 26	109 28.3 48	93 -2 16	89 -4 15
JAC 220256 93564573 JAC 220256	1	AVM 150156 UM 100183	108 58	85 55	83 56	101 31	107 36	90 35	79 46	83 40	108 -0.30 58	92 0.27 56	98 3 31	85 -2.7 55	83 -2.8 56	74 -39 47	86 -3.3 39	83 -25 15	86 -1.5 17	103 -9.0 38	110 -5.3 19	99 22.8 50	71 -13 18	76 -13 17
Q 220050 93346542 Q 220050		Q 190012 Q 180017	68 38	117 71	92 44	79 31	101 36	91 35	90 51	90 43	60 2.11 39	109 -0.21 34	124 26 31	117 8.7 71	92 -1.0 44	96 9 49	108 7.5 62	104 20 9	95 1.8 11	91 1.6 38	102 -3.4 23	105 25.8 47	109 7 11	110 13 10

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ID Number Name																								
AI 230022 95909933 AI 230022		AI 160038	105 36	91 14	88 13		77 27				99 0.16 37	124 -0.62 28		91 -0.4 14	88 -1.9 13	85 -15 10				87 4.6 30	84 0.9 18	82 13.6 32		
BA 230017 96109533 BA 230017	10	JF 190009 FB 170193	107 61	104 62	81 41	99 10	75 35	68 30	84 44	75 37	106 -0.18 65	99 0.09 43	100 5 10	104 4.2 62	81 -3.4 41	87 -10 38	100 4.0 49			82 8.6 40	68 4.6 19	99 22.6 46		
LEB 230017 95697637 LEB 230017	6	LEB 200153 LEB 200058	106 68	93 54	99 37	101 14	101 26	95 26	92 38	93 32	104 -0.09 74	104 -0.07 40	97 2 14	93 0.2 54	99 0.7 37	94 5 35	92 -0.2 37	98 8 21	88 -1.0 25	95 -2.0 34	108 -4.7 8	95 20.7 36	105 5 26	98 3 25
LEB 230055 95964961 LEB 230055		LEB 190710 BN 150197	71 70	106 71	112 45	90 14	94 34	93 33	98 48	95 40	71 1.56 74	106 -0.11 48	108 12 14	106 4.8 71	112 3.8 45	111 42 43	106 6.9 40	90 -11 34	94 1.6 38	91 1.2 40	93 -1.2 17	101 23.8 46	100 2 39	100 5 38
MFF 230002 96863295 MFF 230002		RVS 150272 RVS 200472	114 30	94 51	97 40	119 23	93 36	98 30	105 40	102 35	111 -0.43 31	109 -0.20 24	82 -12 23	94 0.6 51	97 0.4 40	101 21 38	96 1.6 25	88 -16 10	93 1.3 13	107 -12.4 42	85 0.5 21	99 22.7 45	90 -3 13	91 -2 12
MFF 230005 96863444 MFF 230005	18	NRF 190129 NRF 200204	72 53	100 46	102 32		104 21				69 1.65 56	118 -0.45 36	100 2.6 46	102 1.4 32			97 2.3 16		114 -17.6 24		90 17.8 36			
MFF 230007 96863311 MFF 230007		NH 200081	107 21	95 21	90 21	108 12	74 18				102 0.04 21	120 -0.51 20	94 -1 12	95 0.7 21	90 -1.4 21	89 -6 18	91 -0.8 8		91 1.3 19	91 -0.8 10	67 5.1 26			
MFF 230008 96863329 MFF 230008		RVS 150272 RVS 200447	105 32	104 53	100 41	111 24	102 36	107 30	113 42	110 36	103 -0.03 33	105 -0.09 25	91 -4 24	104 3.9 53	100 1.1 41	107 35 39	107 7.1 30	96 2 15	108 6.6 18	115 -19.0 41	91 -0.8 22	104 25.2 45	98 1 18	100 5 17
MFF 230014 96863352 MFF 230014		RVS 200440	105 17	96 27	95 26	111 13	83 24		91 24		103 -0.02 18	106 -0.11 12	91 -3 13	96 1.1 27	95 -0.3 26	95 8 22	95 1.2 14	94 -2 5	94 1.6 5	102 -7.9 29	89 -0.4 15	78 11.5 28	95 0 5	98 3 5
MFF 230017 96863360 MFF 230017	1	T 180153 HW 200018	102 46	101 31	97 23	115 13	108 32	112 21	114 28	113 24	99 0.16 50	108 -0.18 26	87 -7 13	101 3.0 31	97 0.2 23	104 26 22	99 3.0 17		94 1.6 6	104 -9.8 38	106 -4.2 18	106 26.6 40	97 1 6	92 -1 6
MFF 230022 96863378 MFF 230022	1	T 180165 Q 210092	101 40	114 56	111 39	88 29	90 36	94 31	105 43	99 37	103 -0.02 43	90 0.32 27	110 14 29	114 7.6 56	111 3.6 39	115 51 41	115 11.1 45	106 25 15	111 7.9 19	77 12.6 40	100 -3.0 24	94 19.9 44	107 6 18	107 10 17
MFF 230071 96863436 MFF 230071	13	LEB 180663 LEB 190692	112 55	92 50	94 43	99 18	116 28	106 27	95 38	100 32	110 -0.38 57	106 -0.12 43	99 4 18	92 -0.1 50	94 -0.3 43	89 -7 37	87 -2.7 40	84 -24 37	70 -7.8 43	115 -18.8 35	122 -8.0 12	97 21.4 38	83 -6 44	83 -8 42

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ID Number Name																								
NGU 230011		NRF 180017	104	111	93	89	105	99	101	100	103	103	110	110	93	97	105	97	103	100	105	105	106	108
95324760		GJR 100092	37	58	40	22	29	29	42	36	-0.02	-0.03	14	6.3	-0.7	12	6.2	5	5.0	-6.3	-4.0	25.8	5	11
NGU 230011											38	30	22	58	40	40	23	22	24	27	19	42	25	24
NH 230022		NH 180118	104	94	88	110	72	68	79	72	99	124	92	94	88	87	90			87	85	71		
95655411			27	27	28	16	27	20	25	22	0.17	-0.63	-2	0.4	-1.9	-10	-1.5			4.3	0.6	7.8		
NH 230022											27	27	16	27	28	24	16			31	19	31		
NH 230024		NH 180065	96	95	98		78				94	109		95	98	95						65		
95655437			8	6	8		7				0.41	-0.19		0.8	0.5	7						4.2		
NH 230024											8	9		6	8	6						21		
NH 230052		NH 180100	101	97	90	104	74		81		96	121	96	97	90	90	93			91	90	68		
95773834			23	24	24	14	26		23		0.32	-0.55	1	1.5	-1.3	-3	0.1			0.8	-0.5	5.7		
NH 230052											23	22	14	24	24	21	16			29	18	30		
NH 230054		GT 130019	106	86	112	95	108	100	88	93	104	106	102	86	112	97	87	78	88	114	103	103	86	83
95774519		NH 170020	52	70	55	33	43	39	54	46	-0.07	-0.13	7	-2.4	3.9	12	-3.0	-36	-0.7	-18.0	-3.5	24.9	-5	-8
NH 230054											52	51	33	70	55	53	32	24	27	48	30	52	28	27
NH 230135		NH 190022	96	106	82	108	90	87	99	93	92	120	94	106	82	92	99			98	102	80		
95774428			30	65	35	19	28	28	43	36	0.53	-0.52	-1	4.9	-3.2	0	3.3			-4.9	-3.3	12.2		
NH 230135											30	31	19	65	35	40	17			30	20	34		
NH 230151		NH 200051	101	95	111	99	88	88	93	90	100	102	98	95	111	106	98	99	103	103	99	76	104	102
95774154			28	26	28	17	27	20	25	22	0.12	0.01	3	0.9	3.6	31	3.0	10	4.9	-8.9	-2.7	10.2	4	7
NH 230151											29	26	17	26	28	24	16	10	11	31	19	30	12	11
NH 230172		NH 200151	74	129	93	100	82	90	121	107	76	96	98	129	93	118	122			86	95	80		
95774550			29	65	35	22	20	26	41	34	1.33	0.16	3	12.9	-0.6	58	14.5			5.5	-1.6	12.5		
NH 230172											29	30	22	65	35	41	12			19	10	31		
NH 230179		FB 190068	117	93	101	123	107	114	118	116	114	112	77	93	101	107	92	80	82	117	93	110	83	82
95774568		NH 210012	51	71	41	29	36	34	50	42	-0.55	-0.29	-16	0.2	1.3	33	-0.2	-33	-3.2	-20.6	-1.3	28.4	-7	-8
NH 230179											54	37	29	71	41	47	29	12	14	39	25	44	15	14
NH 230195		GT 130019	74	119	124	80	104	109	112	111	81	73	120	119	124	124	119	107	112	102	108	98	104	104
95915799		NH 170023	52	70	55	34	44	40	55	48	1.08	0.80	24	9.4	6.6	70	13.4	28	8.2	-7.5	-4.7	22.1	4	8
NH 230195											52	51	34	70	55	53	32	24	28	49	31	52	28	27
NH 230200	2	FB 170204	107	102	78	101	103	93	95	93	102	127	98	102	78	83	95			86	107	106		
95915849		NH 190013	51	72	42	19	38	34	50	42	0.03	-0.71	3	3.4	-4.1	-18	1.2			5.5	-4.5	26.3		
NH 230200											54	38	19	72	42	44	29			42	24	49		
NH 230218		PH 140207	119	85	95	122	96	97	99	98	115	114	78	85	95	93	88	80	79	114	92	93	90	87
95925160		NH 150130	45	43	29	19	37	27	36	32	-0.60	-0.33	-15	-2.5	-0.1	4	-2.4	-31	-4.2	-17.5	-1.0	19.5	-3	-5
NH 230218											48	31	19	43	29	30	28	8	8	38	26	47	8	8

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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																								
NH 230229 95997532 NH 230229		PH 140207 NH 180064	122 48	91 50	92 38	123 25	93 43	96 32	104 42	100 37	118 -0.75 51	115 -0.39 35	78 -15 25	91 -0.4 50	92 -0.8 38	96 9 38	92 -0.3 30	86 -20 7	80 -3.7 9	109 -13.3 48	84 1.0 31	100 23.0 51	87 -5 9	86 -6 9
NH 230240 96045752 NH 230240	13	NH 180080 NH 160043	105 48	99 70	131 46	83 16	98 29	99 31	93 46	96 38	110 -0.37 49	71 0.86 41	116 20 16	99 2.4 70	131 8.1 46	116 54 44	104 5.6 25		95 -1.8 36	99 -2.6 6	100 23.3 45			
NH 230252 96146972 NH 230252	2	FB 170204 NH 190018	98 50	105 71	83 40	113 17	93 35	93 32	103 48	98 40	95 0.38 53	113 -0.31 37	89 -5 17	105 4.3 71	83 -2.9 40	94 4 43	99 3.1 28		78 11.6 36	101 -3.1 21	99 22.5 48			
NH 230266 96239744 NH 230266		NH 180080 T 170210	110 42	86 46	124 40	96 23	94 29	93 27	88 37	90 32	109 -0.31 43	100 0.05 36	101 5 23	86 -2.4 46	124 6.6 40	108 36 36	88 -2.1 26	94 -2 14	91 0.2 16	98 -4.3 30	95 -1.8 18	94 20.1 40	95 0 16	94 1 16
Q 230019 94985355 Q 230019		EX 180207 Q 130116	62 41	133 57	123 56	76 44	124 40	132 38	131 50	133 44	53 2.47 42	79 0.64 36	126 29 44	133 14.3 57	123 6.5 56	130 84 52	132 20.0 46	125 67 31	122 12.3 35	116 -19.3 44	127 -9.2 28	107 26.7 49	133 18 36	134 30 35
Q 230074 95576278 Q 230074		T 180165 Q 170028	96 42	110 58	114 47	108 38	102 40	114 36	123 48	119 42	97 0.27 45	92 0.27 28	93 -2 38	110 6.2 58	114 4.3 47	124 71 48	111 9.1 44	106 24 12	104 5.1 16	89 2.6 45	109 -5.0 27	99 22.8 47	110 7 14	109 12 13
Q 230105 95609905 Q 230105		T 180165 Q 200038	96 41	118 57	121 43	85 31	93 37	100 33	111 45	106 39	96 0.31 44	97 0.13 28	114 18 31	118 9.0 57	121 5.8 43	124 70 44	120 13.8 46	118 51 14	113 8.7 17	78 11.9 43	104 -3.9 24	94 20.0 45	120 12 17	119 19 16
Q 230106 95609913 Q 230106		T 180165 Q 200034	97 37	110 57	110 41	95 29	98 36	102 32	111 44	107 38	97 0.29 40	99 0.09 23	102 7 29	110 6.2 57	110 3.3 41	115 51 42	112 9.6 46	103 19 6	99 3.5 12	88 3.7 43	103 -3.6 21	100 23.1 43	108 6 10	106 10 9
Q 230126 95722526 Q 230126		T 180165 Q 180054	94 42	111 56	104 43	101 32	104 38	108 33	117 45	113 39	96 0.33 44	89 0.35 30	97 2 32	111 6.5 56	104 1.9 43	113 46 44	112 9.8 42	103 19 11	102 4.7 15	93 -0.4 43	106 -4.2 26	105 25.7 45	104 4 13	105 9 12
RV 230041 95526349 RV 230041	1	WT 190086 RV 210020	93 31	99 34	99 29	102 20	94 33	91 24	96 31	93 28	93 0.47 32	101 0.03 26	96 2 20	99 2.1 34	99 0.7 29	99 16 28	98 2.8 20	95 0 14	93 1.0 17	105 -10.7 38	92 -0.9 20	94 20.2 42	96 0 18	96 2 17
SW 230469 96807367 SW230469	1	SW 170788 SW 190469	108 32	83 37	99 34	109 24	106 37	99 27	88 34	92 30	105 -0.11 34	111 -0.25 24	92 -2 24	83 -3.4 37	99 0.7 34	88 -9 32	80 -6.2 27	88 -15 18	91 0.3 20	104 -9.2 41	101 -3.2 22	108 27.3 48	90 -3 21	86 -5 20
SW 236131 96807409 SW236131	6	SW 170788 SW 190613	111 28	81 39	106 32	114 17	110 35	108 25	96 33	101 29	108 -0.29 31	110 -0.24 16	87 -7 17	81 -4.1 39	106 2.4 32	95 7 29	79 -7.0 24	88 -16 10	93 0.9 14	106 -10.8 42	103 -3.7 15	112 29.6 48	87 -4 16	83 -8 15

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Index EBV Acc																						
ID	% Inbreeding	Sire ID							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
Name		Dam ID																				
TT 230081 95901997 TT 23 0081	5	TT 190001 TT 140024	91 18	110 21			94 26		89 0.65 22		110 6.1 21				103 5.4 6			75 14.4 34	92 -1.1 6	112 29.6 37		
WD 230027 95592895 WD 230027		PH 120075 WD 170151	106 33	94 40	97 36	115 24	89 33	91 27	105 -0.15 33	101 0.03 31	87 -7 24	94 0.7 40	97 0.2 36	98 14 33	94 0.6 33	88 -15 6	88 -0.7 8	83 8.0 33	92 -1.0 20	98 21.9 47	95 0 8	92 -1 7
WD 230063 96265228 WD 230063		PH 120075 WD 200339	101 28	94 39	97 34	116 24	91 30	93 25	101 0.08 28	99 0.07 28	86 -8 24	94 0.4 39	97 0.4 34	99 16 32	93 0.3 32			92 0.6 29	95 -1.7 19	94 19.8 41		
MFF 240001 97030373 MFF 240001		Q 160029 Q 130116	63 54	116 60	128 57	77 43	113 43	116 40	67 1.77 55	85 0.47 48	124 27 43	116 8.4 60	128 7.5 57	123 68 53	114 11.0 50	113 40 19	109 7.3 22	101 -7.1 47	120 -7.5 29	103 24.6 52	112 8 22	122 22 21
MFF 240006 97375455 MFF 240006		EX 210401	114 20	81 37	96 28	116 19	96 24	91 21	111 -0.41 21	108 -0.17 17	86 -8 19	81 -4.2 37	96 0.2 28	86 -12 28	79 -6.7 31	85 -21 14	89 -0.3 21	103 -9.0 30	106 -4.2 15	83 14.0 28	88 -4 18	83 -8 17
MFF 240010 97717235 MFF 240010		DPN 190019	97 24	97 28	99 25	96 17	94 28	87 20	97 0.29 24	100 0.06 22	102 7 17	97 1.5 28	99 0.8 25	95 8 23	97 2.0 18	95 0 20	89 -0.5 22	101 -7.2 32	111 -5.4 19	76 10.0 32	99 2 22	101 6 22
MFF 240014 97717250 MFF 240014		Q 200034	81 19	105 37	100 31	95 21	91 22	88 21	80 1.10 20	107 -0.14 15	102 7 21	105 4.5 37	100 0.9 31	102 24 30	104 5.8 32			100 -6.4 29	103 -3.5 11	79 11.9 26		
MFF 240015 97717268 MFF 240015		Q 160147	85 25	105 38	82 37	93 21	86 26	75 24	83 0.97 25	112 -0.30 24	106 10 21	105 4.4 38	82 -3.2 37	85 -14 32	99 3.2 29	89 -13 5	89 -0.2 5	95 -1.7 29	102 -3.2 18	76 10.2 31	95 0 5	95 2 5
MFF 240017 97717284 MFF 240017		UCP 200090	101 17	91 17	100 15	105 10	91 23		100 0.14 18	106 -0.11 14	95 0 10	91 -0.6 17	100 0.9 15	94 5 14	89 -1.9 13	93 -4 10	96 2.1 11	99 -5.7 29	101 -3.2 13	82 13.3 26	95 -1 12	93 0 11
MFF 240019 97717300 MFF 240019		NH 200055	98 26	94 29	104 28	95 20	89 26	83 21	96 0.33 26	109 -0.20 25	103 7 20	94 0.6 29	104 1.9 28	97 11 26	92 -0.5 22	95 0 12	97 2.8 14	107 -12.3 31	104 -3.8 18	70 7.1 29	97 0 14	97 3 13
MFF 240021 97717326 MFF 240021		LEB 200058	101 37	91 36	93 29	108 16	92 25	86 21	99 0.19 38	107 -0.15 32	94 -1 16	91 -0.6 36	93 -0.7 29	88 -7 27	89 -1.7 30	90 -11 21	81 -3.4 22	103 -9.0 30	107 -4.6 17	74 9.1 28	97 1 23	91 -2 22
MFF 240022 97717334 MFF 240022		BN 210690	97 20	99 32	99 25	99 12	96 19	95 24	95 0.36 20	108 -0.17 19	99 4 12	99 2.3 32	99 0.8 25	98 15 23	97 2.3 14	96 2 10	96 2.2 11	106 -11.3 19	109 -4.9 12	79 11.8 25	96 0 11	100 5 11

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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																									
MFF 240024 6020261035 MFF 240024		SW 210076		101 23	87 25	81 21	109 13	100 24		81 22		96 0.33 25	121 -0.53 14	93 -2 13	87 -2.1 25	81 -3.4 21	75 -36 20	83 -5.0 18	87 -18 6	87 -1.3 7	116 -19.2 29	106 -4.2 13	85 15.0 29	90 -3 7	90 -2 7
MFF 240028 97717375 MFF 240028		NRF 200204		74 36	104 36	98 28	98 15	91 21	87 20	96 28	91 24	72 1.52 37	113 -0.30 28	100 5 15	104 4.0 36	98 0.5 28	101 20 26	100 3.8 20	100 12 14	105 5.6 17	107 -12.4 24	107 -4.6 11	71 7.4 28	101 3 18	101 6 17
MFF 240029 97717383 MFF 240029		NH 200129		102 22	90 20	110 21	100 14	78 21		82 20		100 0.12 23	105 -0.10 19	98 3 14	90 -0.9 20	110 3.3 21	101 20 18	92 -0.4 11	94 -1 5	93 0.9 6	97 -4.0 22	93 -1.3 15	68 5.9 27	101 3 6	99 4 6
MFF 240034 97717417 MFF 240034		TT 210030		94 14	99 14	95 11	99 5	89 17				91 0.56 15	111 -0.25 9	99 4 5	99 2.4 14	95 -0.1 11	95 8 10	97 2.0 10	97 5 7	95 1.7 7	99 -5.5 19	98 -2.4 9	83 13.9 22	101 2 8	101 6 8
MFF 240035 97717425 MFF 240035		NH 200051		101 28	95 26	111 28	99 17	88 27	88 20	93 25	90 22	100 0.12 29	102 0.01 26	98 3 17	95 0.9 26	111 3.6 28	106 31 24	98 3.0 16	99 10 10	103 4.9 11	103 -8.9 31	99 -2.7 19	76 10.2 30	104 4 12	102 7 11
MFF 240036 97717433 MFF 240036		LEB 190789		124 37	85 36	91 32	113 19	87 24	83 22	82 30	81 26	125 -1.13 38	107 -0.14 31	89 -5 19	85 -2.7 36	91 -1.0 32	84 -16 29	85 -3.8 32	84 -22 20	77 -5.0 22	104 -9.7 28	105 -4.1 15	68 5.9 29	94 -1 22	89 -3 21
MFF 240037 97717441 MFF 240037		NH 200142		104 27	95 27	109 28	96 18	85 23		87 25		102 0.01 27	105 -0.10 26	102 6 18	95 1.0 27	109 3.0 28	102 23 24	95 1.2 14	100 12 7	95 1.9 8	101 -6.8 28	98 -2.4 15	74 9.1 27	101 3 8	103 7 8
MFF 240039 97717466 MFF 240039		FB 210128		102 27	98 35	97 22	104 10	72 22		85 25		102 0.03 28	96 0.15 23	95 0 10	98 1.9 35	97 0.3 22	97 13 22	95 1.3 30		88 3.8 26	80 1.7 13	76 10.0 26			
MFF 240048 98310261 MFF 240048		JF 200162		98 6	97 22	90 19		82 16				96 0.31 6	109 -0.19 6		97 1.7 22	90 -1.3 19	91 -2 15			95 -1.8 16	91 -0.8 9	79 12.0 24			
MFF 240055 98310287 MFF 240055		RVS 200447		96 16	105 29	98 24	100 12	91 21		100 23		96 0.34 17	102 0.00 10	98 3 12	105 4.3 29	98 0.4 24	102 23 22	106 6.7 18	102 15 9	108 6.7 10	106 -11.0 26	97 -2.1 12	83 14.3 26	104 4 10	108 11 10
MFF 240058 98480213 MFF 240058		JF 190091 LEB 200010		105 54	99 52	115 36	101 23	88 32	93 29	101 40	97 34	102 0.01 58	109 -0.21 36	97 2 23	99 2.4 52	115 4.5 36	113 47 37	96 1.7 34	99 11 22	97 2.5 25	83 7.9 36	93 -1.2 19	95 20.5 40	98 1 26	95 1 25
NH 240004 97141691 NH 240004		NH 140008		95 32	101 31	106 30	93 18	81 29	79 22	88 28	83 25	96 0.31 32	93 0.26 32	104 9 18	101 3.0 31	106 2.5 30	104 26 26	100 3.9 19	97 5 16	100 3.7 19	87 4.3 33	101 -3.2 21	70 7.2 34	97 1 19	97 3 18

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Index EBV Acc																								
ID	% Inbreeding	Sire ID									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
Name		Dam ID	Calv. Ease V	Calf Growth V	Milk V	Maint. V	Fertility V	Cow Value	Growth Value	Prod. Value														
PH 240018 97057046 THEMBISA		PH 160033 PH 130016	103 29	101 45	85 36	118 21	110 38	111 28	114 38	113 33	100 0.10	108 -0.19	84 -10	101 2.9	85 -2.4	95 7	95 1.0	96 2	95 1.7	97 -3.9	98 -2.4	123 35.7	99 2	97 3
											30	23	21	45	36	34	30	6	7	43	25	46	7	7
PH 240022 97114979 NOLUXOLO	2	PH 160037 PH 140040	91 26	112 50	89 38	112 26	112 42	116 31	124 41	121 36	93 0.47	92 0.28	90 -4	112 7.0	89 -1.6	105 29	111 9.1			91 1.3	95 -1.7	133 40.9		
											27	24	26	50	38	38	35			52	24	49		
PH 240024 97196091 SIVUYISIWE	1	PH 160037 PH 160102	91 30	100 47	88 29	121 19	116 41	118 28	121 38	120 33	91 0.55	100 0.04	80 -13	100 2.8	88 -1.9	99 15	98 2.7			115 -18.3	91 -0.7	133 40.9		
											31	27	19	47	29	32	23			52	24	48		
PH 240028 97238059 DANISWA	1	PH 160037 PH 160094	99 28	105 49	90 36	111 23	123 39	123 29	120 40	122 34	98 0.23	104 -0.05	92 -3	105 4.3	90 -1.2	99 17	102 4.5			105 -10.1	114 -6.2	125 36.7		
											28	27	23	49	36	36	26			45	26	46		
PH 240038 97448351 DANISWA	1	PH 160037 PH 170048	97 28	102 49	92 33	114 20	124 41	124 29	120 39	123 34	98 0.23	93 0.24	89 -6	102 3.3	92 -1.0	99 16	103 5.5			123 -25.2	99 -2.6	133 40.9		
											29	24	20	49	33	34	30			52	24	48		
PH 240048 97346472 LINDISWA		PH 160037 PH 140056	88 32	119 47	84 34	111 21	129 37	132 28	136 38	136 33	89 0.67	97 0.13	91 -3	119 9.2	84 -2.6	106 30	115 11.1			106 -11.1	117 -6.8	133 40.9		
											33	27	21	47	34	34	32			42	24	45		
PH 240050 97640767 THEMBISA	3	PH 160033 PH 110098	101 37	106 50	91 42	115 28	94 39	99 32	112 42	106 37	99 0.19	110 -0.23	87 -7	106 4.6	91 -1.0	103 25	97 2.4			92 0.4	80 1.7	116 31.8	105 5	
											39	27	28	50	42	40	38			44	25	47	5	
PH 240052 97346480 MANDLAKAZI		PH 180095 N 160164	107 24	99 35	103 27	107 18	91 28	94 22	100 29	97 26	106 -0.17	103 -0.04	94 -1	99 2.3	103 1.8	105 28	99 3.4	94 -1	90 0.0	100 -6.2	103 -3.7	80 12.2	101 2	99 5
											24	24	18	35	27	27	20	9	10	30	21	32	10	10
PH 240062 97412027 VUYISEKA		PH 160037 PH 170010	83 26	110 49	94 33	112 19	130 37	132 28	131 38	133 33	83 0.94	98 0.10	90 -5	110 6.1	94 -0.5	107 34	107 7.5	91 -8	93 1.2	113 -17.1	113 -6.0	133 40.9	97 0	97 3
											27	22	19	49	33	34	29	7	8	42	24	44	8	8
PH 240070 97483283 NONTANDO	2	PH 160037 PH 170022	96 28	102 49	88 33	115 20	124 37	123 28	121 38	123 33	97 0.28	96 0.16	87 -7	102 3.4	88 -1.8	97 12	101 4.2			121 -23.7	100 -2.8	133 40.9		
											29	23	20	49	33	34	30			43	23	45		
PH 240084 97549380 NANGOMSO	7	PH 190017 PH 200064	92 10	105 36	93 22		104 27				93 0.47			105 4.4	93 -0.7		104 5.7			85 6.1	101 -3.1	115 31.2		
											12			36	22		20			33	9	38		
PH 240102 98065337 TANDEKA	2	PH 190017 PH 210050	93 25	101 35	90 27	115 13	99 30	100 21	107 29	103 25	92 0.50	101 0.03	87 -7	101 3.1	90 -1.3	98 15	99 3.1			76 13.8	104 -3.8	107 26.8		
											26	21	13	35	27	25	26			36	14	39		

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	ZNS 240004		JO 170023	84	106	101	94	97	94	100	97	84	101	103	106	101	103	102	98	94	113	105	82	100	102
	96539796		ZNS 210007	42	36	29	10	29	22	29	26	0.92	0.01	8	4.7	1.2	26	4.7	8	1.5	-16.9	-4.1	13.2	2	6
	ZNS 240004											44	35	10	36	29	25	31	18	21	32	17	39	22	21
	PH 260026		PH 240038	96	98	92	110	102				95	104	92	98	92	95	97			111	98	99		
	6020332174			14	24	17	10	21				0.35	-0.05	-3	1.9	-0.8	7	2.5			-15.1	-2.5	22.9		
	DANISWA											14	12	10	24	17	17	15			26	12	24		

Selection List on Cow Value

Bulls 2 years and older

ID Sorted on ID	Name	Sire ID	Dam ID	% Inbreeding	Calving Ease Value Acc	Calf Growth Value Acc	Milk Value Acc	Maint. Value Acc	Fertility Value Acc	Cow Value Acc	Growth Value Acc	Prod Value Acc	
1	Q 200068	Q 200068	Q 160029	Q 120005	3.3	70 55	128 74	120 57	74 36	111 41	114 40	115 56	115 48
1	EX 210220	WP SHANKY	EX 170210	EX 090118	0.0	103 38	101 73	100 61	85 45	115 45	104 43	93 58	97 50
2	MFF 230010	MFF 230010	RVS 150272	RVS 200466	0.0	113 31	93 52	97 41	123 26	102 37	107 31	112 41	110 36
3	NH 230183	NH 230183	FB 190045	NH 200049	0.1	95 30	102 40	100 29	97 16	105 32	102 24	103 32	102 28
4	RL 200010	RL20-0010	RL 140048	RL 120080	0.5	74 72	120 73	102 55	90 31	101 41	102 39	113 55	108 47
5	SW 230500	SW230500	SW 170788	SW 190500	0.9	111 32	80 37	96 34	112 24	110 37	102 27	88 34	94 30
6	SW 230750	SW230750	SW 170788	SW 190750	0.9	109 33	81 39	91 37	117 25	110 37	103 28	92 36	97 32
1	EX 230436	DF BOS 404	FF 140088	EX 210401	1.2	109 28	100 56	81 41	95 30	109 36	96 32	91 43	92 38
2	EX 230437	DF CHARRA	FF 140088	EX 210408	1.2	108 27	101 56	84 41	92 30	110 36	97 32	90 43	93 38
3	EX 230439	DF PRINCESS	EX 200002	EX 210025	8.1	104 21	93 42	130 39	90 25	98 29	99 26	94 35	96 30
4	MFF 230004	MFF 230004	GL 140012	JF 210020	1.7	110 48	93 52	105 37	113 24	87 38	91 31	96 42	93 36
5	MFF 240003	MFF 240003	LEB 200153	LEB 210033	0.2	105 53	100 53	110 34	93 17	100 27	99 26	98 38	98 32
6	MFF 240004	MFF 240004	LEB 200153	LEB 210075	0.2	94 54	103 54	112 34	93 16	99 25	99 25	102 37	101 31
7	MFF 240005	MFF 240005		EX 210408	0.0	113 20	82 37	99 28	113 19	96 24	92 21	85 29	87 25
8	MFF 240011	MFF 240011		Q 180054	0.0	78 26	106 37	93 34	101 24	96 26	93 23	102 31	97 27
9	MFF 240020	MFF 240020		Q 170028	0.0	80 28	105 39	104 39	108 32	94 28	99 26	108 34	104 30
10	RV 230054	RV 230054	WT 190086	RV 210018	0.2	91 35	101 32	92 27	101 18	96 33	91 23	96 30	93 26
11	SW 230510	SW230510	SW 170788	SW 190510	0.9	110 33	81 38	94 34	112 24	107 37	99 27	87 35	92 31
1	DPN 230039	DPN230039	DPN 180064	DPN 190019	0.1	105 31	95 33	101 32	93 22	94 38	87 26	85 32	85 29
2	MFF 230015	MFF 230015	JS180278	LEB 190759	0.0	90 48	106 47	118 39	87 21	83 19	85 24	92 34	88 29
3	MFF 230023	MFF 230023	WT 190086	RV 210049	0.3	98 30	98 31	86 25	101 9	97 30	88 20	90 26	88 23

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	
						★★								
4	MFF 230141	MFF 230141	JS180278	LEB 190764	0.0	119 55	81 55	106 41	101 22	89 22	83 27	77 39	78 33	
5	MFF 240012	MFF 240012		Q 200038	0.0	81 26	114 38	110 33	85 24	85 24	86 23	96 31	90 27	
6	MFF 240018	MFF 240018		LEB 190692	0.0	110 38	90 32	91 34	102 20	96 27	87 23	84 29	84 26	
7	MFF 240045	MFF 240045		EX 210025	0.0	94 15	99 30	110 27	92 21	84 23	82 20	86 26	83 23	
8	Q 230090	Q 230090	T 180165	Q 160147	0.2	101 41	110 57	92 45	93 28	94 38	89 33	97 45	93 39	
9	UCP 230058	UCP 230058	UCP 160017	UCP 200028	2.1	102 27	102 34	93 24	99 11	90 35	86 22	93 29	89 26	

Selection List on Cow Value

Cows 2 years and older

ID Sorted on ID	Name	Sire ID	Dam ID	% Inbreeding	Calving Ease Value Acc	Calf Growth Value Acc	Milk Value Acc	Maint. Value Acc	Fertility Value Acc	Cow Value Acc	Growth Value Acc	Prod Value Acc	
					★★★★★								
1	PH 240048	LINDISWA	PH 160037	PH 140056	0.5	88 32	119 47	84 34	111 21	129 37	132 28	136 38	136 33
2	PH 240062	VUYISEKA	PH 160037	PH 170010	0.5	83 26	110 49	94 33	112 19	130 37	132 28	131 38	133 33
3	Q 230019	Q 230019	EX 180207	Q 130116	0.0	62 41	133 57	123 56	76 44	124 40	132 38	131 50	133 44
					★★★★★								
1	PH 240028	DANISWA	PH 160037	PH 160094	1.1	99 28	105 49	90 36	111 23	123 39	123 29	120 40	122 34
2	PH 240038	DANISWA	PH 160037	PH 170048	1.3	97 28	102 49	92 33	114 20	124 41	124 29	120 39	123 34
3	PH 240070	NONTANDO	PH 160037	PH 170022	2.1	96 28	102 49	88 33	115 20	124 37	123 28	121 38	123 33
4	Q 170028	Q 170028	SK 060038	Q 120101	0.0	64 55	117 79	115 78	109 64	115 56	129 53	138 69	135 61
					★★★★★								
1	BN 210679	BN 210679	BN 160309	LEB 110230	0.1	110 39	96 66	107 52	111 25	110 37	113 35	111 49	112 42
2	BN 210690	BN 210690	BN 160309	BN 130403	0.0	98 39	104 65	105 51	94 24	119 37	116 34	111 48	114 41
3	EX 210401	NO1 BOS 404	EX 160001	EX 180011	2.3	120 41	67 73	100 56	123 39	118 49	111 42	91 57	100 50
4	EX 210408	NO1 CHARRA	EX 160001	EX 180017	2.3	118 41	69 73	106 56	118 39	119 48	113 42	91 57	101 50
5	MFF 230017	MFF 230017	T 180153	HW 200018	0.5	102 46	101 31	97 23	115 13	108 32	112 21	114 28	113 24
6	MFF 240001	MFF 240001	Q 160029	Q 130116	0.0	63 54	116 60	128 57	77 43	113 43	116 40	110 52	113 46
7	NH 230179	NH 230179	FB 190068	NH 210012	0.0	117 51	93 71	101 41	123 29	107 36	114 34	118 50	116 42
8	PH 240018	THEMBISA	PH 160033	PH 130016	0.1	103 29	101 45	85 36	118 21	110 38	111 28	114 38	113 33
9	PH 240022	NOLUXOLO	PH 160037	PH 140040	1.8	91 26	112 50	89 38	112 26	112 42	116 31	124 41	121 36
10	PH 240024	SIVUYISIWE	PH 160037	PH 160102	0.8	91 30	100 47	88 29	121 19	116 41	118 28	121 38	120 33
11	Q 130116	Q 130116	SK 060038	Q 050087	0.0	73 58	101 76	138 84	92 65	110 55	117 53	114 69	116 61
12	Q 180054	Q 180054	CVL 140013	Q 160034	0.9	62 51	119 73	94 69	98 49	119 51	118 47	125 62	122 54
13	Q 230074	Q 230074	T 180165	Q 170028	0.0	96 42	110 58	114 47	108 38	102 40	114 36	123 48	119 42
14	RVS 200447	HELP ALMAFA	RVS 150069	RVS 170224	0.0	97 33	116 57	102 49	96 25	109 42	112 34	121 46	117 40
15	RVS 200466	HELP WT	RVS 150069	RVS 170205	0.0	113 31	94 53	96 51	125 32	109 43	115 35	119 46	118 40
16	SW 190613	SW190613	CSF 100082	SW 080613	0.2	106 45	81 53	94 43	115 28	122 52	114 36	96 47	104 42

Selection List on Cow Value

Cows 2 years and older

ID Name Sorted on ID		Sire ID	Dam ID	% Inbreeding	Calving Ease Value Acc	Calf Growth Value Acc	Milk Value Acc	Maint. Value Acc	Fertility Value Acc	Cow Value Acc	Growth Value Acc	Prod Value Acc	
					★★★★								
1	BN 220722	BN 220722	BN 160309	NC 130076	0.2	116 50	82 61	96 46	109 24	111 38	103 33	90 47	95 40
2	DPN 190019	DPN190019	JLS 060251	DPN 070047	0.0	98 48	100 55	105 49	89 34	115 55	107 40	98 51	102 46
3	FB 200197	FUKU	FB 160117	FB 160039	2.8	99 40	93 40	85 28	120 11	109 46	106 27	105 35	105 31
4	HW 200018	MAKOSI BRY	T 150107	HW 170169	0.2	110 64	93 31	110 26	109 15	101 37	105 24	103 30	104 27
5	LEB 190692	LEB190692	T 100315	LEB 130381	0.0	123 77	87 63	89 69	100 40	119 53	105 45	90 58	97 52
6	LEB 200058	LEB200058	T 100315	BN 140046	0.1	105 74	88 71	92 59	110 31	110 50	103 42	93 57	97 50
7	LEB 210033	LEB210033	LEB 190749	LEB 140420	0.7	117 71	97 72	114 51	91 25	109 41	107 38	100 53	103 46
8	LEB 210075	LEB210075	LEB 190749	DN 130152	3.7	93 72	103 72	119 50	92 24	107 38	109 36	107 52	108 44
9	MFF 230008	MFF 230008	RVS 150272	RVS 200447	0.0	105 32	104 53	100 41	111 24	102 36	107 30	113 42	110 36
10	MFF 230071	MFF 230071	LEB 180663	LEB 190692	12.5	112 55	92 50	94 43	99 18	116 28	106 27	95 38	100 32
11	NH 200051	NH 200051	T 100086	LRC 140055	1.0	106 56	96 52	129 55	95 33	102 54	108 40	107 50	107 45
12	NH 230054	NH 230054	GT 130019	NH 170020	0.5	106 52	86 70	112 55	95 33	108 43	100 39	88 54	93 46
13	NH 230195	NH 230195	GT 130019	NH 170023	0.2	74 52	119 70	124 55	80 34	104 44	109 40	112 55	111 48
14	NRF 200204	NRF 200204	NRF 090303	NRF 150807	6.6	69 72	114 72	103 56	93 30	109 41	108 39	113 55	111 47
15	PH 240102	TANDEKA	PH 190017	PH 210050	2.0	93 25	101 35	90 27	115 13	99 30	100 21	107 29	103 25
16	Q 200034	Q 200034	Q 160046	Q 170055	0.1	66 38	117 73	106 61	89 43	108 43	108 42	114 57	111 50
17	Q 200038	Q 200038	Q 150104	Q 110059	0.5	65 52	133 75	128 66	71 47	97 49	106 46	113 61	110 54
18	Q 230105	Q 230105	T 180165	Q 200038	0.4	96 41	118 57	121 43	85 31	93 37	100 33	111 45	106 39
19	Q 230106	Q 230106	T 180165	Q 200034	0.3	97 37	110 57	110 41	95 29	98 36	102 32	111 44	107 38
20	Q 230126	Q 230126	T 180165	Q 180054	0.4	94 42	111 56	104 43	101 32	104 38	108 33	117 45	113 39
21	RVS 200426	HELP CORRIL	FF 110263	RVS 130009	0.0	97 31	116 61	97 65	90 33	108 41	106 38	112 51	109 44
22	SW 190750	SW190750	CSF 100082	SW 130750	0.1	98 47	81 52	65 46	120 29	121 51	103 37	88 47	94 42
23	SW 210091	SW210091	SW 170788	SW 190244	0.9	107 35	84 38	97 34	110 24	115 37	108 27	93 35	100 31
24	SW 236131	SW236131	SW 170788	SW 190613	6.3	111 28	81 39	106 32	114 17	110 35	108 25	96 33	101 29
25	TT 190037	TT 190037	TT 150006	TT 130048	0.0	95 26	109 39	85 26	94 12	110 43	102 26	104 33	103 30
26	TT 210030	TT 21 0030	TT 140032	TT 160023	0.0	91 28	105 29	97 22	95 10	106 34	101 21	102 26	101 24
27	UCP 200090	0090	SW 160384	UCP 170023	0.3	107 34	88 33	106 30	105 21	108 46	105 28	95 34	99 31

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	EX	210025	BANGLES PRINCESS	EX 180037	EX 170245	2.1	9232	10359	12755	8341	9546	9639	9451	9445
2	FHG	210582	FHG 210582	AVM 150156	AVM 060368	0.5	9873	11070	8258	10535	9842	9640	10655	10148
3	JAC	220256	JAC 220256	AVM 150156	UM 100183	0.9	10858	8555	8356	10131	10736	9035	7946	8340
4	LEB	190759	LEB 190759		NH 160061	0.0	8649	10745	12256	8631	8733	9132	9741	9336
5	LEB	190789	LEB190789	T 100315	LEB 030928	0.0	9073	7672	8964	11937	10148	9244	8559	8752
6	LEB	200010	LEB200010	NH 160013	LEB 170604	0.0	10774	10071	12555	10533	8545	9741	10756	10248
7	LEB	230017	LEB 230017	LEB 200153	LEB 200058	6.3	10668	9354	9937	10114	10126	9526	9238	9332
8	LEB	230055	LEB 230055	LEB 190710	BN 150197	0.1	7170	10671	11245	9014	9434	9333	9848	9540
9	MFF	230002	MFF 230002	RVS 150272	RVS 200472	0.0	11430	9451	9740	11923	9336	9830	10540	10235
10	MFF	230022	MFF 230022	T 180165	Q 210092	0.5	10140	11456	11139	8829	9036	9431	10543	9937
11	MFF	240006	MFF 240006		EX 210401	0.0	11420	8137	9628	11619	9624	9121	8529	8725
12	MFF	240058	MFF 240058	JF 190091	LEB 200010	0.2	10554	9952	11536	10123	8832	9329	10140	9734
13	NGU	230011	NGU 230011	NRF 180017	GJR 100092	0.0	10437	11158	9340	8922	10529	9929	10142	10036
14	NH	200049	NH 200049	GT 130019	N 100172	0.0	8154	10957	11751	8234	9949	9839	9750	9744
15	NH	200055	NH 200055	GT 130019	N 110022	0.2	10052	9457	11455	8840	10452	9941	8952	9346
16	NH	200102	NH 200102	NH 160024	NH 170048	0.0	10640	9437	10839	9622	10444	9930	9537	9634
17	NH	200142	NH 200142	GL 120006	NH 160009	0.0	11254	9754	12456	8935	9746	9838	9549	9644
18	NH	200153	NH 200153	GL 120006	NH 150048	0.0	10852	9752	11149	9535	10049	9938	9748	9743
19	NH	230172	NH 230172		NH 200151	0.0	7429	12965	9335	10022	8220	9026	12141	10734
20	NH	230200	NH 230200	FB 170204	NH 190013	1.6	10751	10272	7842	10119	10338	9334	9550	9342
21	NH	230218	NH 230218	PH 140207	NH 150130	0.0	11945	8543	9529	12219	9637	9727	9936	9832
22	NH	230229	NH 230229	PH 140207	NH 180064	0.2	12248	9150	9238	12325	9343	9632	10442	10037
23	NH	230240	NH 230240	NH 180080	NH 160043	12.5	10548	9970	13146	8316	9829	9931	9346	9638
24	NH	230252	NH 230252	FB 170204	NH 190018	1.6	9850	10571	8340	11317	9335	9332	10348	9840
25	NH	230266	NH 230266	NH 180080	T 170210	0.0	11042	8646	12440	9623	9429	9327	8837	9032
26	NRF	200171	NRF 200171	NRF 090303	NRF 070128	7.0	8076	10374	8466	10741	10449	9845	10261	9953
27	PH	240050	THEMBISA	PH 160033	PH 110098	3.1	10137	10650	9142	11528	9439	9932	11242	10637
28	PH	240052	MANDLAKAZI	PH 180095	N 160164	0.0	10724	9935	10327	10718	9128	9422	10029	9726
29	Q	210092	Q 210092	Q 150104	Q 150033	0.8	7648	12573	10955	7740	9244	9341	10157	9649

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	
					★★★★								
30	Q 220050	Q 220050	Q 190012	Q 180017	0.1	68 38	117 71	92 44	79 31	101 36	91 35	90 51	90 43
31	RV 210018	RV 210018	RV 160046	RV 170006	0.1	94 49	103 38	86 35	94 22	105 46	94 30	93 37	93 34
32	RV 210020	RV 210020	CSF 120038	RV 150074	0.0	98 38	99 44	99 42	95 31	99 47	94 34	94 42	93 38
33	RV 230041	RV 230041	WT 190086	RV 210020	0.9	93 31	99 34	99 29	102 20	94 33	91 24	96 31	93 28
34	RVS 200440	HELP H	RVS 150069	H 070470	0.1	113 34	98 53	96 52	115 26	93 48	96 36	104 47	100 42
35	RVS 200472	HELP H	RVS 150069	H 160548	0.1	115 27	97 50	96 47	118 20	92 42	97 32	105 42	101 37
36	SW 180213	SW180213	SW 120417	SW 140213	0.0	102 37	86 35	91 36	112 25	100 43	93 29	87 36	89 32
37	SW 190469	SW191207	CSF 100082	SW 120469	0.1	99 45	85 49	80 41	101 26	114 50	95 35	80 44	86 40
38	SW 190510	SW190510	CSF 100082	SW 120510	0.1	103 47	82 51	71 42	108 27	116 51	95 35	78 46	85 40
39	SW 210137	SW210137	CSF 100082	SW 110181	0.0	108 42	80 47	75 39	117 23	113 47	98 32	84 42	90 37
40	SW 230469	SW230469	SW 170788	SW 190469	0.8	108 32	83 37	99 34	109 24	106 37	99 27	88 34	92 30
41	WD 230027	WD 230027	PH 120075	WD 170151	0.0	106 33	94 40	97 36	115 24	89 33	91 27	97 35	93 31
42	WD 230063	WD 230063	PH 120075	WD 200339	0.0	101 28	94 39	97 34	116 24	91 30	93 25	99 33	96 29
43	ZNS 210007	ZNS 210007	HT 110002	ZNS 180024	0.0	92 47	102 28	100 28	102 9	100 39	99 23	104 29	101 26
44	ZNS 240004	ZNS 240004	JO 170023	ZNS 210007	0.3	84 42	106 36	101 29	94 10	97 29	94 22	100 29	97 26
						★★							
1	FHG 210585	FHG 210585	AVM 150156	FHG 180443	0.6	97 72	95 67	81 53	94 31	100 38	83 37	78 52	79 44
2	JF 200162	JF200162	NGI 160007	JF 170182	0.0	101 13	101 44	87 38	103 8	91 33	85 24	93 34	89 29
3	LEB 190764	LEB190764	LEB 160538	LEB 170551	12.5	116 73	58 71	98 62	118 29	100 35	87 38	65 53	74 46
4	LEB 210032	LEB210032	LEB 170603	MII 160403	0.1	117 70	76 71	89 53	126 29	88 40	85 38	85 53	84 46
5	MFF 240010	MFF 240010		DPN 190019	0.0	97 24	97 28	99 25	96 17	94 28	87 20	88 26	87 23
6	MFF 240014	MFF 240014		Q 200034	0.0	81 19	105 37	100 31	95 21	91 22	88 21	96 29	91 25
7	MFF 240019	MFF 240019		NH 200055	0.0	98 26	94 29	104 28	95 20	89 26	83 21	84 26	82 24
8	MFF 240021	MFF 240021		LEB 200058	0.0	101 37	91 36	93 29	108 16	92 25	86 21	86 29	85 25
9	MFF 240028	MFF 240028		NRF 200204	0.0	74 36	104 36	98 28	98 15	91 21	87 20	96 28	91 24
10	MFF 240035	MFF 240035		NH 200051	0.0	101 28	95 26	111 28	99 17	88 27	88 20	93 25	90 22
11	MFF 240036	MFF 240036		LEB 190789	0.0	124 37	85 36	91 32	113 19	87 24	83 22	82 30	81 26

Selection List on Cow Value

Cows 2 years and older

ID Sorted on ID	Name	Sire ID	Dam ID	% Inbreeding	Calving Ease Value Acc	Calf Growth Value Acc	Milk Value Acc	Maint. Value Acc	Fertility Value Acc	Cow Value Acc	Growth Value Acc	Prod Value Acc	
					★★								
12	NH 200125	NH 200125	GT 130019	NH 090579	0.0	87 43	105 43	119 43	82 31	87 38	86 31	88 40	86 36
13	NH 200129	NH 200129	T 100086	NH 080500	0.0	107 44	86 41	127 42	96 28	83 43	85 32	84 40	83 36
14	NH 230135	NH 230135		NH 190022	0.0	96 30	106 65	82 35	108 19	90 28	87 28	99 43	93 36
15	NH 230151	NH 230151		NH 200051	0.0	101 28	95 26	111 28	99 17	88 27	88 20	93 25	90 22
16	Q 160147	Q 160147	DH 100041	Q 140086	0.0	74 50	116 76	70 74	85 42	100 53	83 47	86 63	83 55
17	RV 210049	RV 210049	RV 150055	RV 180039	13.9	108 33	99 34	73 27	94 5	105 37	88 22	83 29	84 26
18	UCP 200028	0028	GA 120155	UCP 130033	0.1	98 40	106 42	104 38	94 26	82 49	82 32	93 41	87 36
19	UCP 200047	0047	GA 120155	UCP 160033	0.2	98 37	107 42	100 37	93 25	88 48	86 32	95 40	90 36
20	WD 170151	WD 170151	WD 120004	WD 130053	0.0	112 34	96 23	104 21	97 12	84 34	82 20	88 25	84 22
						★★							
1	AI 160038	AI 160038	AI 060031	AI 040002	7.8	109 71	89 29	82 26	114 5	81 53	74 27	79 33	75 30
2	FB 210128	HANAHEI	FB 170049	FB 120072	0.1	107 54	102 70	101 43	104 19	70 44	73 36	91 51	82 44
3	FB 210134	HANAHEI	FB 170049	FB 130163	5.3	106 49	112 69	91 37	103 5	70 41	73 31	99 46	86 38
4	JF 200159	JF200159	UCP 100034	JF 110018	0.0	123 36	81 50	67 45	126 30	81 47	71 35	76 45	72 40
5	JF 210020	JF210020	T 100344	JF 130159	0.1	99 49	99 57	101 46	100 31	78 48	77 37	89 49	82 43
6	MFF 240015	MFF 240015		Q 160147	0.0	85 25	105 38	82 37	93 21	86 26	75 24	82 32	77 28
7	NH 200081	NH 200081	GL 120021	NH 090170	0.0	116 42	95 41	86 42	110 24	75 37	72 29	82 38	76 34
8	NH 240004	NH 240004		NH 140008	0.0	95 32	101 31	106 30	93 18	81 29	79 22	88 28	83 25
						★							
1	BA 230017	BA 230017	JF 190009	FB 170193	9.6	107 61	104 62	81 41	99 10	75 35	68 30	84 44	75 37
2	NH 200122	NH 200122	GL 120021	NH 110324	0.0	117 46	94 47	79 50	112 25	75 37	69 32	79 42	72 37
3	NH 230022	NH 230022		NH 180118	0.0	104 27	94 27	88 28	110 16	72 27	68 20	79 25	72 22

Selection List on Cow Value

Bull Calves younger than 2 years

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	
Sorted on ID													

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	
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	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.

