

DRAKENSBERGER

GENOMIC BREEDING VALUE REPORT

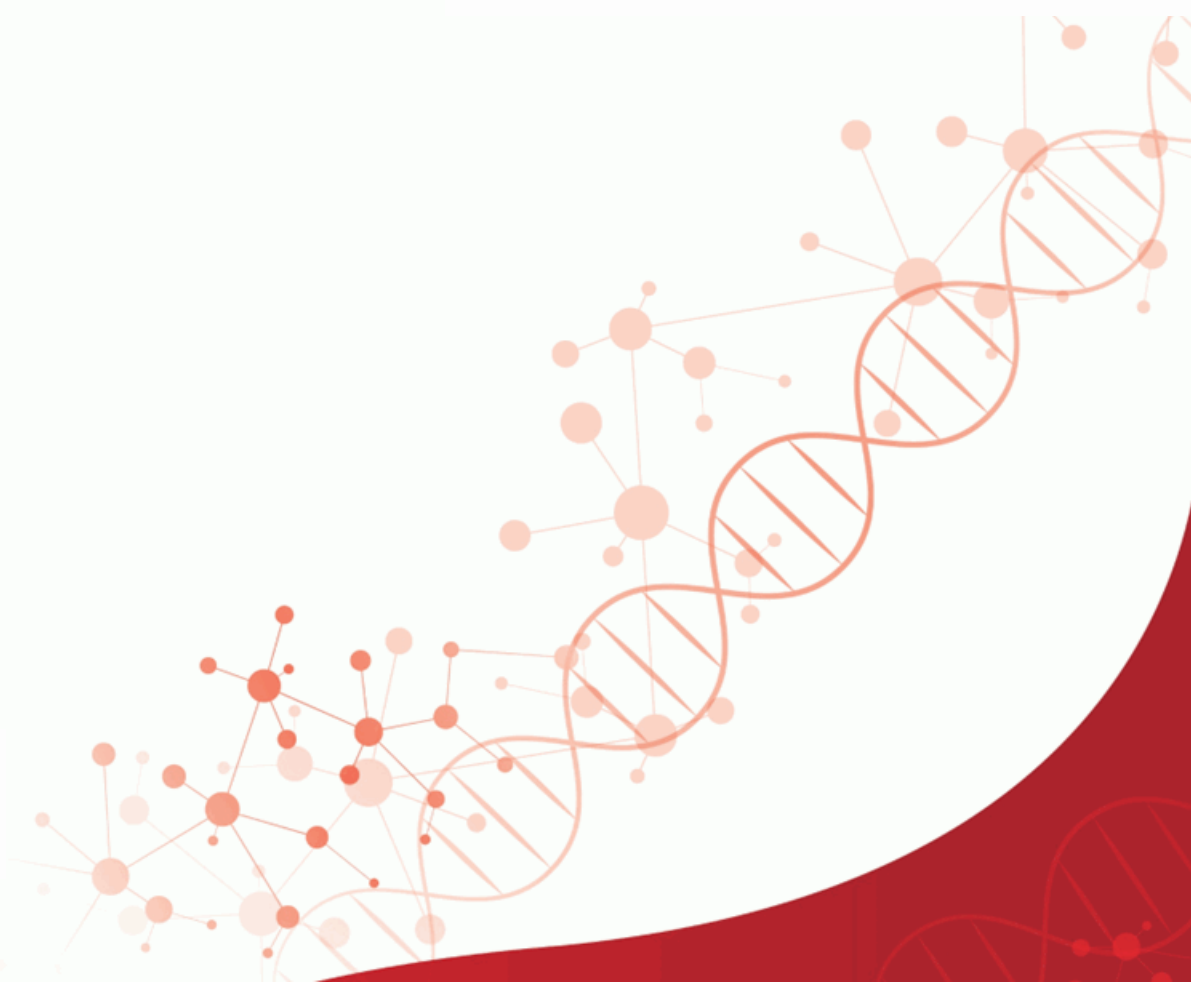
September 2026



INFRACOR STUD BREEDERS

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EBVs, EBVi's and GEBVs

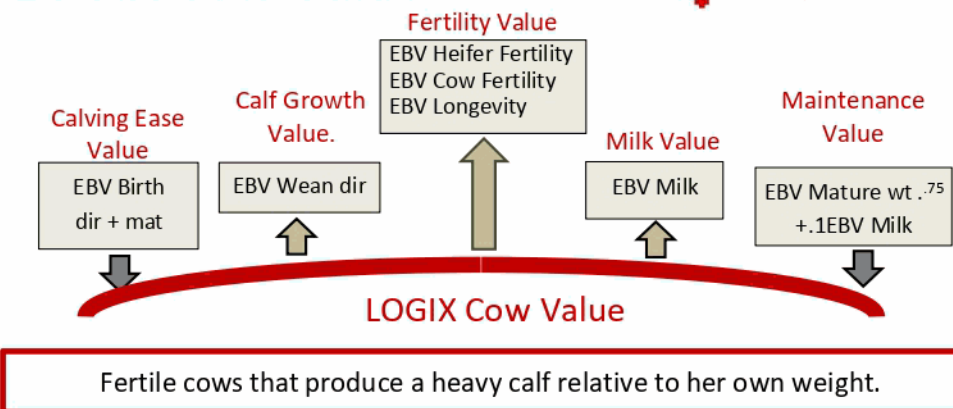
EBVi (Breeding Value Index): Genetic potential relative to the average (100) of the live (active) animals in the breed. Roughly 50% of the animals have values between 90 and 110. Values above 100, depending on the trait, tend to be in the more favourable direction.

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)

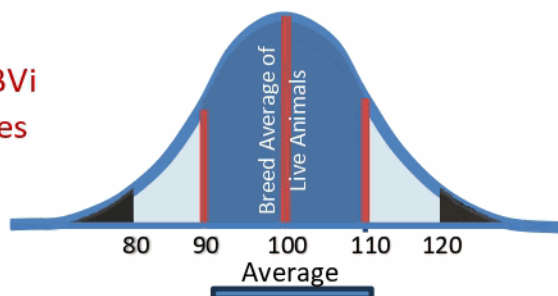
- WeanerCalf / Growth Value > 120
 - Cow Value and Fertility Value average to high
- Growers are usually heavier at birth (lower Calving Ease Value), and maturity (lower Maintenance Value).

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

Contemporary Groups

The correct composition of contemporary groups is one of the cornerstones of BLUP breeding value estimation. Breeding values are estimated from the differences between animals exposed to the same environment, *as these differences are caused by genetics*. The following aspects are important:

1. Animals at the same time, place and treatment

A contemporary group is a comparable group of animals measured at the same time in the same environment. It is therefore a comparable group of animals that were together on the same farm or camp in the same year and season. If there are animals in the group that were treated differently, they should be given a separate treatment code because their performance is influenced by other environmental influences than the rest of the group. Examples of possible different treatments are when some animals received supplements or creep feed, sale or show animals, embryo donors, sick or foster calves or even purchased cows and calves. If bull and heifer calves or older cows and young heifers were in the same camp, they should be placed in the same group – corrections for sex, age and first calving of cows are automatically made during breeding value estimation.

2. Progeny of at least two sires, of which one is a link sire

The progeny of different sires needs to be compared in the same group in order to determine the sires' genetic merit relative to each other. At least one sire should be a link sire with progeny in other herds. Genetic links between herds are used to determine the position of sires in the breed. All sires are good link sires. Smaller herds could artificially inseminate some cows or allow some cows to be covered by another herd's bull.

3. Larger groups stabilise Breeding Values

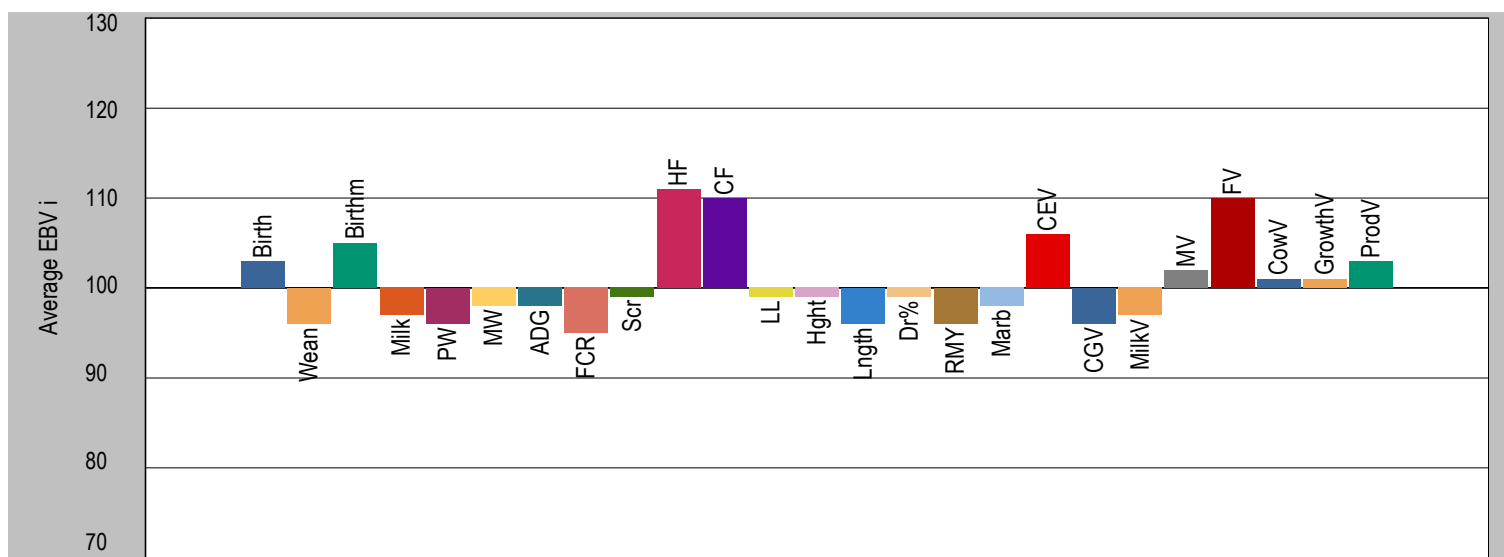
Larger groups result in more accurate and stable breeding values, as the mean and distribution of the group can be more accurately determined and are thus more representative. Groups should preferably have more than 5 animals. Weigh all the animals in the same group on the same day, as corrections for age differences are made during genetic evaluation. The use of breeding seasons rather than through the year calving will also increase contemporary group size. Groups with less than 3 animals are not included in breeding value estimation. An accidental mistake in a small group affects the animal itself, its family, all the other animals in the group and their families. The effect could be much less in large groups.

4. Measure all animals in the contemporary group

Weigh ALL the animals in the contemporary group, the good as well as the poor performers. Weigh animals before they are culled, so their parents can be penalized for their poor breeding.



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	Dr%:	Dressing%
FCR:	Feed Conversion Ratio	RMY:	Red Meat Yield
		Marb:	Marbling

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	-0.25	103	0.10
	Wean Weight	8.3	96	10.5
	Birth Mat.	-0.06	105	0.17
	Milk (Wn.Mat.)	2.3	97	3.3
Postwean Growth	Postwean Wt	16.6	96	19.8
	Mature Weight	9	98	11
	ADG	65	98	71
	FCR	-41	95	-50
Fertility	Scrotal Circumf.	10.8	99	11.3
	Heifer Fertility	-10.3	111	-2.3
	Cow Fertility	-3.8	110	-1.7
	Longevity	24.3	99	24.7
Frame	Height	-1	99	-1
	Length	9	96	12
Carcass	EMA	0.38	99	0.48
	Fat	-0.41	97	-0.20
	Marbling	0.02	98	0.16

Selection Value	Ave. Herd
Calving Ease	106
Calf Growth	96
Milk	97
Maintenance	102
Fertility	110
Cow Value	101
Growth Value	101
Production Value	103
Carcass Value	96

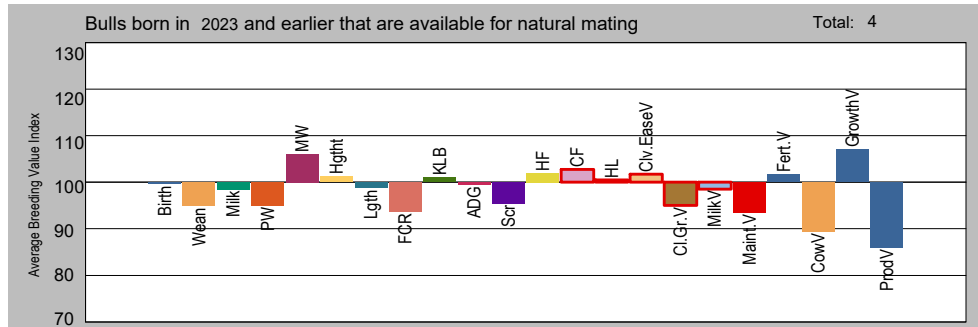
- Average of live animals in the breed: 100
- Above 100: **more favourable**,
- Below 100: **less favourable**

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

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

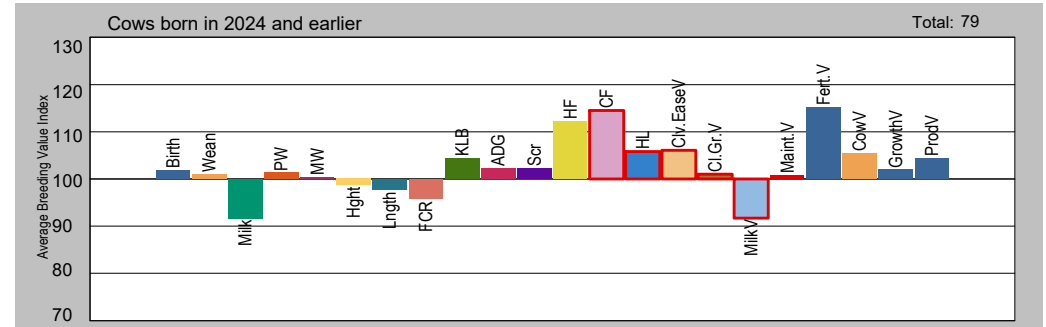
Genetic Windows

Bulls on the farm



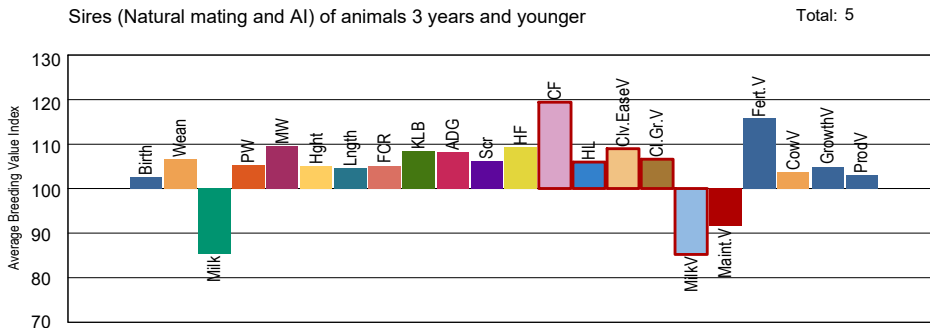
Animals available for breeding

Cow Herd

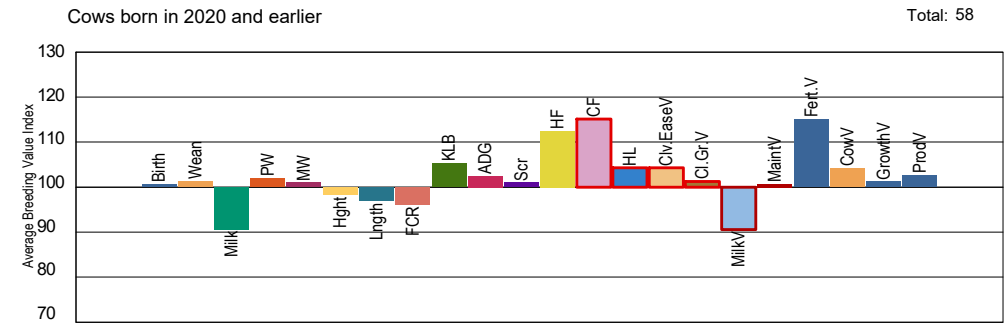


Results of previous selection decisions

Sires of young animals

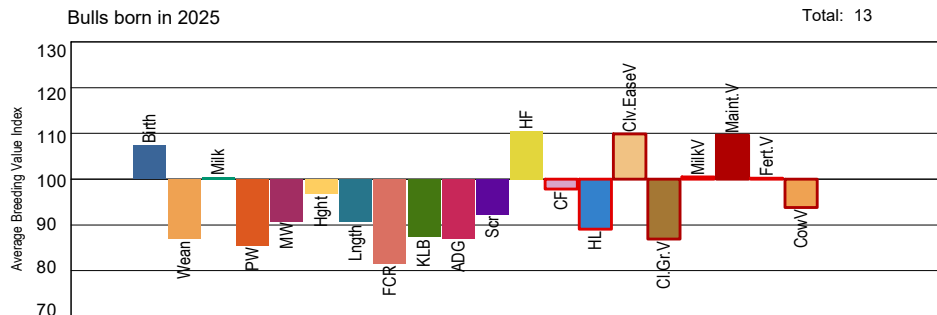


Cows older than 6 years

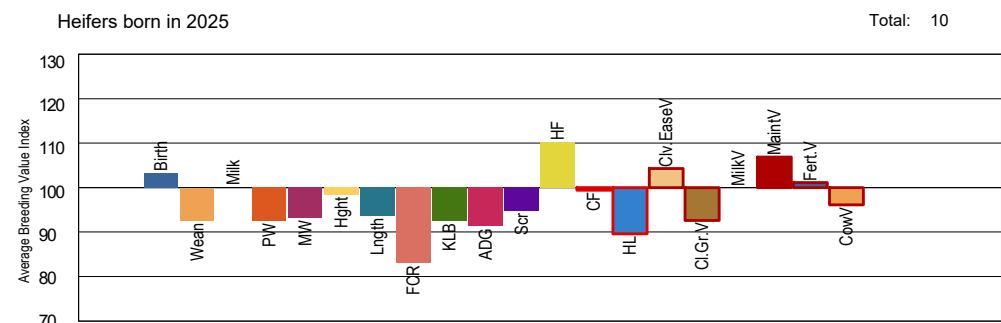


Selection possibilities

Bull calves



Heifer calves

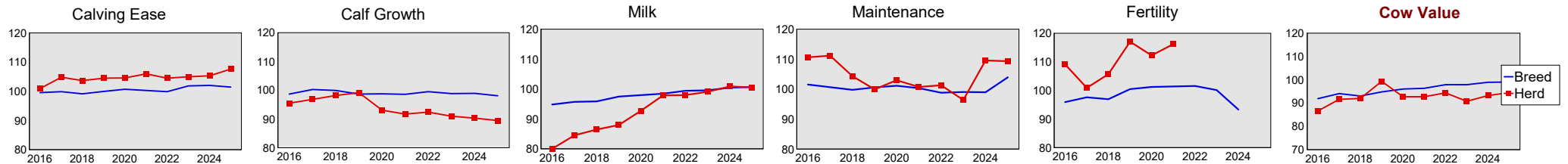


Summary of Cow Herd

			Selection Values (SV)								Calf Weight		Dam		Growth & Efficiency				Fertility				Frame		
Birth Year	No. Cows	Average Cow Value	Calving Ease	Calf Grwth	Milk	Maint.	Fertility	Cow Value	Growth Value	Prod Value	Birth Weight	Wean Weight	Birth Mat.	Milk (Wn.Mat)	Postwn Weight	Mature Weight	ADG	Kleiber	Scrotal Circumf.	Heifer Fertility	Cow Fertility	Longevity	Height	Length	
Cows in Breed Average:			100	100	100	101	101	101	99	100	100	100	100	100	100	99	99	100	99	100	100	100	100	100	99
2011	2	★★★★	118	87	88	123	91	90	97	90	109	87	135	88	85	79	98	104	90	86	116	85	92	89	
2012	2	★★★★☆	96	101	65	94	114	81	87	80	84	101	120	65	98	109	92	100	94	102	136	92	89	82	
2014	6	★★★★☆	113	97	98	107	114	109	102	107	113	97	103	98	100	96	102	105	105	112	120	97	92	92	
2015	5	★★★★☆	98	108	87	92	119	105	106	104	92	108	111	87	107	112	107	109	102	111	123	109	101	100	
2016	13	★★★★☆	100	91	110	99	107	101	104	104	101	91	97	110	93	101	106	107	103	110	99	100	107	101	
2017	14	★★★★☆	106	92	93	111	114	102	97	100	105	92	106	93	91	90	100	104	98	117	111	97	96	95	
2018	3	★★★★☆	98	107	86	98	110	101	96	98	96	107	102	86	106	101	100	103	110	106	110	107	94	95	
2019	15	★★★★☆	104	103	94	95	119	108	107	107	100	103	107	94	105	106	104	106	101	114	116	111	103	102	
2020	12	★★★★☆	108	101	91	101	115	105	98	103	104	101	106	91	101	99	102	103	100	114	111	107	98	97	
2021	12	★★★★★	112	101	97	103	119	114	108	112	107	101	111	97	100	98	103	103	106	113	113	115	101	101	
2022	4	★★★★☆	108	94	92	107	116	103	90	104	102	94	112	92	94	93	95	96	101	118	112	103	96	94	
2023	15	★★★★	103	95	100	97	99	93	97	94	103	95	99	100	94	102	97	97	101	103	101	92	100	98	
2024	15	★★★★	105	94	100	105	101	97	92	100	103	94	103	100	92	95	91	92	93	107	104	88	98	93	
2025	10	★★★★	104	93	100	107	101	96			103	93	101	100	92	93	91	93	95	110	99	90	98	94	
2026	1	★★★★	106	90	90	112	100	90	100	90	96	90	135	90	92	89	103	109	84	102	116	81	93	92	
Cows in Herd Average:			105	97	93	103	109	100	99	100	101	97	110	93	97	98	99	102	99	108	112	98	97	95	

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.



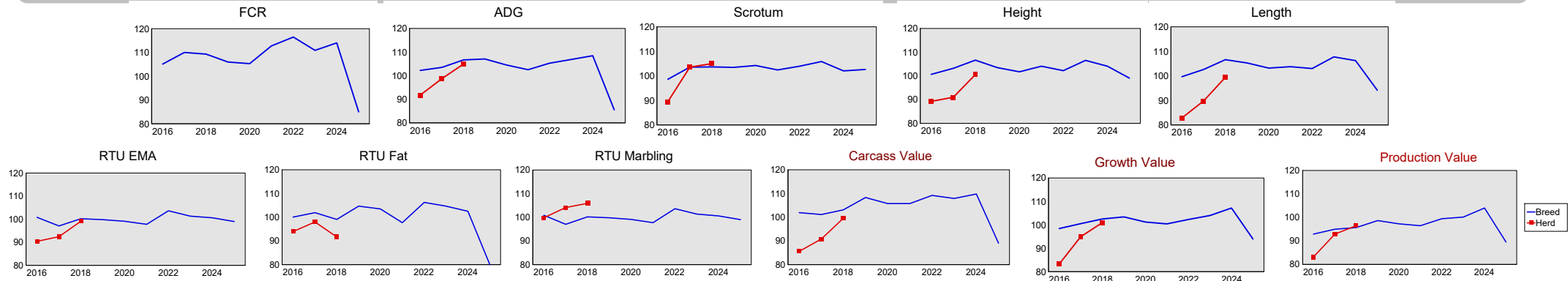
Herd

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		Mainte-nance	Heifer Fert.		Cow Fert.		Longevity		Ferti-lity		
	Number	Dir EBV			Number	EBV		Number	EBV	Milk	Number	EBV	Number		EBV	Number	EBV	Number	EBV	Number		EBV	
2016	90	0.71	-0.40	101	71	8.1	95	71	-5.77	73	72	13.0	18	9	111	21	-11.7	13	-4.7	93	16.9	109	87
2017	121	0.13	-0.32	105	101	8.9	97	101	-1.88	85	97	16.1	29	4	111	35	-6.0	20	-2.9	117	18.8	101	92
2018	114	0.21	-0.29	104	103	9.6	98	103	-1.22	86	86	18.6	24	9	104	19	-6.7	18	-3.8	106	20.1	106	92
2019	154	0.09	-0.23	104	121	10.1	99	121	-0.73	88	78	21.7	23	15	100	24	-11.4	17	-5.7	146	22.4	117	99
2020	131	-0.20	-0.05	105	101	6.9	93	101	0.85	93	21	18.3	26	10	103	15	-8.7	9	-4.6	126	18.2	112	93
2021	112	-0.36	0.02	106	97	6.1	92	97	2.58	98	25	16.5	13	11	101	9	-9.5			101	17.6	116	93
2022	124	-0.20	0.07	105	95	6.5	92	95	2.65	98	43	14.9			101					78	19.4		94
2023	122	-0.31	0.11	105	102	5.8	91	102	2.99	99	13	12.4			96								91
2024	90	-0.48	0.15	105	78	5.4	90	78	3.61	101	9	9.8			110								93
2025	26	-0.51	0.06	108	22	5.0	90	22	3.53	101	10	8.3			109								95

Breed

Birth Year	Calving Ease				Calf Growth			Milk			Maintenance						Fertility								Cow Value
	Birth Weight		Mat EBV	Calv. Ease	Weaning Weight		Calf Growth	Milk (Wn.Mat.)		Milk	Postwean Weight		Mature Weight		Maintenance	Heifer Fert.		Cow Fert.		Longevity		Fertility			
	Number	Dir EBV			Number	EBV		Number	EBV		Number	EBV	Number	EBV		Number	EBV	Number	EBV	Number	EBV		Number	EBV	
2016	3646	0.21	0.12	100	2841	9.8	99	2841	1.58	95	2243	18.0	536	11	101	786	-0.9	490	-1.6	4039	18.4	96	92		
2017	3747	0.22	0.09	100	2879	10.7	100	2879	1.88	96	2328	19.3	551	12	101	731	-1.1	516	-2.1	4171	18.7	98	94		
2018	4020	0.24	0.13	99	3347	10.5	100	3347	1.94	96	2574	19.5	538	13	100	750	0.0	524	-2.2	4320	18.8	97	93		
2019	3716	0.16	0.11	100	3312	9.8	99	3312	2.49	98	2449	19.4	499	12	101	743	-3.0	485	-2.0	4312	19.0	101	95		
2020	4077	0.11	0.10	101	3575	9.9	99	3575	2.62	98	2781	19.0	510	10	101	772	-2.6	446	-2.4	4146	19.5	101	96		
2021	4035	0.14	0.09	100	3588	9.8	99	3588	2.80	98	2633	18.8	482	11	100	679	-2.1	369	-2.3	3913	19.6	101	96		
2022	4015	0.16	0.10	100	3442	10.3	100	3442	3.11	99	2315	21.0	400	13	99	558	-1.5	29	-3.3	1635	19.2	102	98		
2023	4207	-0.03	0.10	102	3319	9.9	99	3319	3.19	100	2252	20.6	53	10	99	201	-1.3					100	98		
2024	3580	-0.07	0.13	102	3060	10.0	99	3060	3.46	100	2232	20.1			99	7	-1.8					93	99		
2025	3286	-0.02	0.14	101	2447	9.5	98	2447	3.55	101	207	13.3			104								99		
2026	694	-0.11	0.07	103	19	14.0	107	19	2.57	98													95		

Genetic Trends for Growth Test Traits



Herd

Birth Year	Growth									Frame						Carcass						Selection Values			
	FCR			ADG			Scrotum			Height			Length			EMA			Fat		Marbling		Carcass Value	Growth Value	Prod Value
	Number	EBV	EBVi	Number	EBV	EBVi	Number	EBV	EBVi	Number	EBV	EBVi	Number	EBV	EBVi	RTU Number	EBV	EBVi	EBV	EBVi	EBV	EBVi			
2017				39	66	99	37	13.3	104	39	-7	91	39	2	90	39	-0.31	92	-0.37	98	0.40	104	91	95	93
2018				16	90	105	16	14.0	105	16	0	101	16	12	99	16	0.37	99	-0.88	92	0.51	106	100	101	97
2019																									
2020																									
2021																									
2022																									
2023																									
2024																									
2025																									

Breed

Birth Year	Growth									Frame						Carcass						Selection Values			
	FCR			ADG			Scrotum			Height			Length			RTU Number	EMA		Fat		Marbling		Cracss Value	Growth Value	Prod Value
	Number	EBV	EBVi	Number	EBV	EBVi	Number	EBV	EBVi	Number	EBV	EBVi	Number	EBV	EBVi		EBV	EBVi	EBV	EBVi					
2017	81	-67	110	594	85	103	560	13.2	104	551	1	103	551	15	103	384	0.51	100	-0.04	102	-0.02	97	101	100	95
2018	115	-66	109	553	97	107	507	13.3	104	469	4	107	469	18	107	290	1.00	105	-0.27	99	0.17	100	103	103	96
2019	104	-60	106	545	99	107	532	13.2	103	341	2	103	341	17	105	311	1.58	111	0.19	105	0.15	100	108	103	99
2020	116	-59	105	714	89	104	687	13.6	104	504	1	102	505	15	103	438	0.97	105	0.09	104	0.11	99	106	101	97
2021	108	-72	113	739	81	102	742	12.6	102	648	2	104	648	16	104	345	1.05	106	-0.39	98	0.03	98	106	100	96
2022	74	-78	117	651	92	105	630	13.5	104	401	1	102	401	15	103	280	1.07	106	0.32	106	0.37	104	109	102	99
2023	94	-69	111	663	98	107	657	14.4	106	617	4	107	617	20	108	350	1.16	107	0.19	105	0.24	101	108	104	100
2024	82	-74	114	449	104	108	639	12.4	102	400	2	104	400	18	106	316	1.46	109	0.01	103	0.19	101	110	107	104
2025	1	-23	85	2	14	86	5	12.8	103	5	-1	99	5	7	94	1	1.84	113	-4.77	44	0.11	99	89	94	90
2026																									

Sires

Bull				Selection Values							Calf		Dam		Growth				Fertility				Frame		Carcass			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	FCR	Scrotal	Heifer Fertility	Cow Fertility	Long-evi ty	Height	Length	EMA	Fat	Marbling	Birth Grwth Test	Wean Dgt/Calvs.	
AAD 190022		AAD 130081 AAD 150070	112	105	79	97	102	94	98	93	109	105	104	79	101	104	98	97	130	92	107	110	104	104	91	94	100	1		
LEUVEN 19-22			69	73	61	41	52	55	70	58	-0.86	13.2	-0.03	-3.7	20.3	15	62	-44	27.4	3.7	-3.3	29.6	2	16	-0.48	-0.70	0.14			
											76	73	58	61	59	41	64	70	72	47	30	57	74	71	66	61	60			
BE 040068		BV 990152 BE 000014	107	117	74	78	119	102	116	104	114	117	87	74	117	129	112	95	126	113	135	92	98	111	117	118	116	199	165	
OUJAAR K			97	98	95	88	92	85	90	86	-1.37	19.5	0.76	-5.5	33.5	40	119	-41	25.2	-12.0	-9.4	20.4	-2	23	2.25	1.32	1.10	38	42 148	
											98	98	95	95	95	88	93	84	95	92	86	96	95	95	87	86	86			
BF 110085		L 050032 BF 080063	110	100	92	133	74	100	103	99	104	100	111	92	96	70	99	94	123	76	79	97	81	89	80	107	129	77	66	
BF110085			92	95	87	63	78	76	56	72	-0.30	10.6	-0.34	0.6	16.3	-18	67	-38	23.7	16.3	3.0	23.3	-13	2	-1.63	0.35	1.83	17	19 48	
											96	95	86	87	90	63	85	24	89	80	53	89	90	89	81	77	76			
BF 120060		CL 040048 BF 080022	95	97	95	95	61	65	96	68	82	97	130	95	94	104	100	103	121	68	78	78	92	88	99	83	117	46	42	
BF 120060			88	93	78	59	72	72	64	70	1.98	9.0	-1.20	1.8	15.1	16	72	-54	22.9	22.0	3.1	13.6	-6	0	0.36	-1.57	1.18	10	7 14	
											94	93	77	78	86	59	80	44	85	67	49	85	86	84	76	72	71			
BF 150163		BF 100029 BF 090025	109	111	78	116	112	115	92	110	99	111	117	78	105	87	89	75	106	98	128	104	86	92	95	98	149	78	61	
15 0163			92	95	85	68	73	76	88	78	0.23	16.4	-0.62	-4.3	24.1	-1	28	-6	14.5	-1.1	-7.7	26.7	-10	5	-0.08	-0.35	3.05	24	18 35	
											96	95	85	85	88	68	85	88	90	75	47	80	90	89	86	83	82			
BV 080318		JJ 040226 BV 030072	105	99	69	87	111	80	93	80	94	99	69	133	69	96	116	99	88	105	106	134	84	103	98	79	64	112	275	231
TANDARTS			98	98	96	93	94	87	93	88	0.71	9.9	-1.34	-7.0	17.0	27	66	-28	14.2	-6.5	-9.1	16.5	1	10	-1.68	-3.13	0.85	39	29 131	
											99	98	96	96	96	93	95	90	96	93	91	97	96	96	92	91	91			
BV 080373		BV 050104 BJM 040006	123	80	100	123	81	86	115	91	113	80	118	100	84	80	113	104	84	91	103	65	108	103	104	106	97	62	39	
SKUTTER 1			93	93	88	71	74	76	47	70	-1.22	-0.1	-0.64	3.3	7.4	-8	122	-57	2.9	4.5	-2.3	7.2	5	15	0.92	0.27	-0.03		19 69	
											96	93	88	88	88	71	75	13	81	77	51	89	81	79	51	46	45			
BV 090423		BV 060127 BV 050211	83	128	74	86	100	98	111	100	54	128	123	74	122	117	109	103	120	100	109	91	126	115	110	78	124	176	134	
UTMOST			97	98	96	93	94	87	91	88	4.84	25.3	-0.89	-5.5	37.2	28	108	-54	21.9	-2.6	-3.6	20.3	17	27	1.57	-2.03	1.58	9	47 126	
											98	98	96	96	96	93	92	89	94	94	91	96	94	93	90	89	89			
BV 100467		BV 070259 BV 040122	100	97	67	131	106	95	74	88	89	97	117	67	81	75	82	85	83	122	105	77	106	81	94	85	111	109	69	
SHAVER 3			97	96	94	90	91	85	88	86	1.20	8.7	-0.63	-7.9	4.5	-13	-2	-23	2.0	-19.3	-2.8	13.3	3	-6	-0.18	-1.43	0.81	11	30 73	
											98	96	94	94	94	90	90	86	91	91	87	94	92	91	89	89	88			
BV 100472		BV 070214 BV 060294	125	71	88	151	113	105	88	100	111	71	125	88	76	46	83	85	82	127	106	88	75	57	61	98	97	41	29	
UITDRAAI 1			88	90	78	56	65	69	42	64	-1.07	-4.8	-0.99	-0.8	0.5	-41	5	-24	1.8	-22.4	-3.1	18.4	-17	-29	-3.63	-0.39	-0.03	6	8 20	
											94	90	79	78	85	56	68	11	74	69	35	83	76	73	53	48	47			
BV 100502		BV 060175 BV 000292	100	106	83	122	127	122	96	116	99	106	102	83	115	83	122	118	110	139	121	88	100	108	114	104	90	32	22	
OOSIE 3			85	89	74	55	66	68	48	64	0.22	13.7	0.08	-2.4	31.5	-5	157	-80	16.5	-32.2	-6.2	18.4	0	20	1.94	0.17	-0.42	14	6 17	
											92	89	74	74	79	55	77	14	83	63	36	81	84	82	72	67	66			

Sires

Bull			Selection Values							Calf		Dam		Growth				Fertility				Frame		Carcass			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	FCR	Scrotal	Heifer Fertility	Cow Fertility	Long-evi ty	Height	Length	EMA	Fat	Marbling	Birth Grwth Test	Wean Dgt/Calvs.
BV 110519		TTT 910015 BV 050218	102	97	103	112	96	101	91	98	102	97	99	103	92	88	98	103	123	108	98	84	105	97	98	95	89	56	37
TEOTONIC 1			93	94	88	84	86	81	83	81	-0.13	9.0	0.21	4.2	13.6	0	64	-55	23.9	-8.7	-1.1	16.4	3	10	0.27	-0.64	-0.46	4	18
BV 110534		HJM 030189 BV 050188	113	91	83	127	88	91	81	87	112	91	102	83	95	78	82	83	88	97	94	84	77	69	75	102	99	19	13
WENNER			84	85	75	54	56	65	32	58	-1.13	5.6	0.06	-2.3	16.2	-10	-1	-20	4.7	0.3	-0.4	16.3	-16	-17	-2.17	-0.01	0.11	4	21
BV 120797		BV 080373 BV 050202	121	80	98	124	86	88	98	88	117	80	107	98	82	80	102	93	90	91	102	78	111	100	94	107	96	48	34
TARGET 3			88	90	79	63	66	71	44	66	-1.63	-0.2	-0.14	2.7	6.0	-8	77	-38	5.7	4.9	-2.1	13.8	7	13	-0.20	0.41	-0.10	7	10
CL 040048		CL 010065 CL 000018	97	95	113	84	38	56	114	64	98	95	96	113	95	116	110	113	100	46	41	94	79	78	90	74	107	443	362
KOK 2			99	99	99	97	98	89	98	91	0.28	8.0	0.37	7.9	16.3	27	110	-72	11.2	39.1	11.3	21.5	-15	-9	-0.55	-2.36	0.56	110	118
EMB 140176		EMB 110087 EMB 080022	110	101	81	119	134	121	110	119	110	101	100	81	107	85	108	98	125	136	127	102	100	99	107	118	84	71	60
RENOSTER 2			95	96	92	88	90	84	88	85	-0.88	11.1	0.15	-3.0	25.6	-3	102	-46	24.7	-29.4	-7.6	25.9	-1	12	1.17	1.28	-0.78	11	22
GR 190173		GR 160292 GR 170769	121	112	82	97	137	127	106	123	107	112	127	82	110	103	114	108	98	131	120	126	112	113	108	124	102	109	97
MANUS			93	96	89	85	88	82	94	84	-0.62	16.9	-1.08	-2.8	27.5	14	125	-63	10.2	-25.6	-5.9	37.7	7	24	1.32	1.80	0.28	27	6
HN 120088		CB 070190 HN 050035	82	109	100	88	101	94	96	93	72	109	115	100	108	112	103	110	103	110	98	94	108	94	100	97	100	21	23
PD1288			84	89	75	50	61	66	46	62	2.92	15.0	-0.51	3.2	26.1	23	83	-66	13.1	-9.5	-1.2	21.5	5	6	0.47	-0.47	0.15	2	4
IR 170160		PU 080148 BV 110614	97	103	91	90	96	86	113	90	90	103	141	91	106	111	121	115	100	85	122	89	102	106	121	105	105	105	97
PIKKIE 1			95	97	92	90	91	85	90	86	1.12	11.9	-1.75	0.2	24.3	22	155	-75	11.5	9.1	-6.4	19.4	1	18	2.61	0.19	0.48	15	11
IR 170162		PU 080148 BV 120081	113	96	75	124	121	109	90	104	99	96	125	75	95	82	101	105	91	124	107	110	98	93	99	117	123	61	54
CEASER 3			93	95	89	85	85	81	82	81	0.23	8.5	-0.98	-5.2	16.1	-6	76	-58	6.4	-20.7	-3.2	29.6	-2	5	0.41	1.22	1.53	21	29
IR 170171		ZP 140006 JA 140076	105	108	107	79	124	115	108	113	129	108	73	107	116	124	118	112	109	125	117	106	104	115	116	78	94	11	11
PABLO			88	89	84	81	82	77	81	78	-2.90	14.9	1.42	5.7	32.3	34	141	-71	16.3	-21.2	-5.4	27.9	2	26	2.19	-1.98	-0.22	5	9
IR 170180		BF 110085 JA 080013	121	107	102	97	117	122	125	123	115	107	112	102	104	101	108	95	118	108	114	118	109	112	114	86	113	25	18
PAU 3			90	91	86	82	84	79	82	80	-1.39	14.2	-0.41	4.0	22.8	13	103	-40	20.9	-8.1	-4.6	33.6	5	24	1.95	-1.31	0.93	12	13

Sires

Bull			Selection Values							Calf		Dam		Growth				Fertility				Frame		Carcass			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	FCR	Scrotal	Heifer Fertility	Cow Fertility	Long-evi ty	Height	Length	EMA	Fat	Marbling	Birth Grwth Test	Wean Dgt/Calvs.
IR 180371		BV 150265 JA 090006	127	104	92	87	134	120	110	118	131	104	116	92	103	115	109	102	113	124	140	108	107	101	93	100	90	90	82
POLO 1			95	97	90	89	91	84	92	86	-3.06	12.8	-0.58	0.6	21.8	26	105	-53	18.6	-20.5	-10.4	28.6	4	13	-0.22	-0.23	-0.45	57	
IR 190385		IR 170160 IR 160153	110	90	93	105	112	96	97	95	98	90	121	93	92	94	106	103	96	113	111	101	94	95	104	101	95	16	13
SAMPIE			77	83	58	39	46	57	28	51	0.29	5.1	-0.79	0.8	13.5	5	96	-54	9.2	-11.9	-4.2	25.0	-4	8	0.88	-0.13	-0.14		
IR 190499		EMB 140176 JA 140079	102	111	87	100	120	113	114	113	102	111	99	87	115	99	113	100	128	117	116	108	104	110	112	112	94	8	7
IR 190499			76	81	61	43	48	57	36	53	-0.09	16.1	0.20	-1.1	31.3	11	122	-50	26.6	-15.5	-5.2	28.8	2	22	1.68	0.80	-0.20		
IR 200050		IR 170160 KZ 150055	98	108	91	84	85	83	107	86	89	108	114	91	109	119	114	111	111	73	106	98	104	107	110	102	109	9	9
RUDI1			73	82	56	37	45	55	30	50	1.21	14.9	-0.50	0.5	27.0	29	127	-68	17.0	18.3	-2.9	23.9	2	19	1.54	-0.04	0.71		
JA 110015		AAD 040031 JA 080032	98	102	97	85	103	90	121	95	101	102	93	97	111	117	126	128	93	94	115	102	88	91	105	119	83	26	25
JA110015			89	91	85	69	71	74	70	73	0.00	11.3	0.48	2.2	28.2	28	174	-99	7.4	2.3	-5.0	25.5	-9	4	0.96	1.40	-0.82	4	
JA 120028		BE 040068 JA 090035	102	121	79	79	128	112	110	111	97	121	108	79	117	128	113	103	121	118	128	114	100	108	115	126	109	27	18
JA120028			87	89	81	63	67	71	53	67	0.41	21.4	-0.20	-3.9	33.1	38	121	-54	22.4	-15.8	-7.7	31.8	-1	20	2.09	1.91	0.70	1	
JA 150075		JA 120028 JA 080057	106	110	106	77	131	119	121	120	104	110	103	106	117	128	114	95	95	115	128	126	106	111	110	112	93	50	46
JA150075			91	93	85	70	68	75	48	70	-0.32	15.9	0.06	5.2	33.0	38	127	-41	8.8	-14.0	-7.8	37.9	3	22	1.52	0.79	-0.24		
KZ 120108		KZ 080006 KZ 070009	93	107	86	87	113	95	99	94	96	107	94	86	116	115	97	97	93	106	121	101	95	97	93	95	98	57	20
KZ12108			87	88	74	43	50	63	28	56	0.54	14.1	0.44	-1.3	32.4	25	59	-45	7.8	-7.1	-6.2	25.3	-4	9	-0.30	-0.63	0.06		
PU 080148		PU 050017 PU 030008	87	104	82	93	121	95	104	95	77	104	136	82	104	107	106	108	79	127	124	88	99	98	107	113	117	188	200
08148			98	98	97	94	95	87	94	88	2.40	12.4	-1.51	-2.8	23.4	18	96	-63	0.2	-22.8	-7.0	18.5	-1	10	1.23	0.84	1.17		
PU 140204		PU 100031 CB 100168	119	84	78	119	127	101	66	92	109	84	135	78	81	86	79	83	85	134	132	83	66	69	82	97	101	244	149
PU 140204			97	98	93	89	89	85	86	85	-0.83	2.3	-1.44	-4.0	4.7	-3	-10	-20	3.4	-28.4	-8.6	16.1	-23	-18	-1.39	-0.48	0.21		
PU 200071		PU 140204 PU 050058	116	80	95	119	123	104	51	91	105	80	133	95	77	85	64	63	78	134	124	83	83	79	75	112	98	62	46
PU 200071			88	92	78	60	65	71	46	66	-0.43	0.0	-1.36	1.7	1.4	-3	-70	15	-0.7	-28.3	-6.8	16.3	-12	-8	-2.13	0.82	0.02		
											95	92	76	78	76	60	79	9	85	73	29	73	85	83	13	11	11	16	

Sires

Bull			Selection Values								Calf		Dam		Growth				Fertility				Frame		Carcass			Measured Progeny			
ID	Index EBV Acc	Sire ID  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	FCR	Scrotal	Heifer Fertility	Cow Fertility	Long-evi ty	Height	Length	EMA	Fat	Marbling	Birth Grwth Test	Wean Dgt/Calvs.		
RJ 010262		BV 970074 BV 970134	91	117	77	81	96	86	86	132	94	78	117	131	77	119	124	136	117	113	94	112	88	96	100	106	104	91	223	181	
GROOTPRAAT			97	98	94	80	86	83	72	81	99	98	94	94	96	80	93	49	95	91	60	96	95	95	51	47	46	56	47	125	
SS 120015		 SS 060001  SS 090077	102	102	110	98	129	86	86	123	105	119	106	102	91	110	102	99	103	91	65	127	132	100	112	108	92	128	122	43	36
1215			92	94	89	84	86	81	88	82	95	94	88	89	21.8	10	82	-34	-7.8	-22.4	-8.7	24.8	8	19	-0.30	2.08	1.45	8	9	30	
ZP 140006		 TTT 060031  ZP 070009	103	106	93	101	123	89	89	114	111	113	129	106	69	93	108	98	113	103	125	139	103	97	114	120	102	71	101	30	22
B42 WOLF 2			93	94	90	87	89	82	88	83	95	94	90	90	25.9	9	122	-56	24.5	-31.8	-2.4	23.3	9	32	0.69	-2.56	0.20	11	9	24	

Breeding Values and Accuracies: Bulls

Inbreeding in red is high

Value <80 Value >120

Breeding values with an accuracy < 5% are not printed

Animal			Selection Values									Birth		Wean				Growth			Fertility				Frame		Carcass		
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	Carcass Value	Birth wt dir	Birth mat	Mature wt	Wean wt	Wean mat	Cow-Calf Ratio (Wean)	Postwean wt	ADG	FCR	Scrotal Circ.	Heifer Fertility	Cow Fertility	Longevity	Height	Length	EMA	Fat	Marbling
ID Number Name																													
IR 200050 90666553 RUDI1	3	IR 170160 KZ 150055	98 73	108 82	91 56	84 37	85 45	83 55	107 30	86 50	111 38	89 1.21 84	114 -0.50 55	119 29 37	108 14.9 82	91 0.5 56	93 45 58	109 27.0 54	114 127 45	111 -68 11	111 17.0 49	73 18.3 46	106 -2.9 25	98 23.9 60	104 2 49	107 19 48	110 1.54 40	102 -0.04 37	109 0.71 36
IR 230375 95341905 IR 230375		IR 190463	92 56	102 63	99 38	92 29	100 26	92 40			100 13	94 0.66 67	94 0.46 36	107 18 29	102 11.6 63	99 2.9 38	97 58 43	100 19.6 33	103 82 22	95 -41 7	96 9.2 25	105 -6.1 28	102 -2.1 17	92 20.8 32	111 7 25	105 17 24	106 1.06 14	101 -0.12 12	93 -0.26 12
IR 230389 95531448 IR 230389		IR 190490	113 56	84 62	101 37	95 28	110 26	89 39			86 10	108 -0.77 67	109 -0.23 36	103 14 28	84 1.8 62	101 3.6 37	84 24 42	84 7.3 34	91 36 20	84 -21 10	85 3.1 22	110 -9.7 29	106 -3.1 17	105 27.4 36	95 -4 23	91 3 22	94 -0.20 11	95 -0.57 10	87 -0.62 10
IR 230410 95636601 IR 230410		IR 200019	104 54	86 61	103 35	103 25	112 21	94 37			87 18	108 -0.75 67	92 0.55 32	95 7 25	86 2.9 61	103 4.3 35	90 40 40	87 9.7 22	90 31 19	85 -23 5	90 6.2 21	120 -17.3 19	97 -1.0 12	107 28.1 33	95 -4 22	92 5 21	96 0.03 19	84 -1.50 17	86 -0.64 16
IR 240477 96818000 IR 240477	3	IR 180371 IR 210108	117 64	106 70	93 50	99 27	129 39	122 47	112 32	120 44	106 48	109 -0.83 73	115 -0.52 48	99 11 27	106 13.4 70	93 0.8 50	97 58 49	102 21.6 48	111 113 50	103 -54 12	109 16.0 51	123 -19.8 42	127 -7.6 19	110 29.7 45	102 1 53	101 13 52	102 0.67 49	99 -0.32 47	98 0.03 47
IR 240567 98695992 IR 240567		IR 200020	102 54	96 62	103 36	94 26	103 23	95 38			96 17	102 -0.15 67	98 0.26 33	104 15 26	96 8.3 62	103 4.5 36	97 57 41	95 16.1 31	96 54 20	91 -33 7	99 10.6 22	115 -13.6 27	97 -1.1 14	90 19.9 30	104 2 22	100 12 21	98 0.30 18	94 -0.72 16	96 -0.05 16
IR 240580 98696214 IR 240580		IR 200007	107 50	71 52	109 29	124 29						107 -0.65 64	99 0.21 27	79 -9 29	71 -5.0 52	109 6.3 29	88 34 37							83 16.1 24					
AAD 250095 99803975 YSTER 25-95	1	GR 190173 AAD 200034	111 66	104 60	90 48	103 35	122 38	115 45	94 53	110 47	99 50	105 -0.43 75	111 -0.33 51	95 7 35	104 12.8 60	90 -0.2 48	95 52 48	103 21.9 54	100 73 50	96 -43 53	100 11.3 54	116 -14.6 36	112 -4.3 20	119 34.3 42	104 2 54	103 15 53	104 0.89 51	111 0.68 49	107 0.56 48
IR 250002 98938467 IR 250002		PU 200085	110 56	86 61	104 36	107 24	96 24	91 38			83 11	108 -0.76 69	102 0.07 35	91 3 24	86 3.1 61	104 4.5 36	93 46 40	86 9.1 40	85 10 24	82 -18 9	90 5.8 26	110 -10.1 26	96 -0.8 13	83 16.2 32	91 -7 23	87 0 22	92 -0.34 11	89 -1.11 11	93 -0.28 11
IR 250003 98938475 IR 250003		IR 210140	113 53	86 57	104 31	103 18	100 20	92 34			87 16	111 -1.07 66	103 0.02 32	95 6 18	86 3.3 57	104 4.6 31	92 44 35	82 5.9 33	87 19 17	78 -11 5	93 7.5 19	113 -11.8 25	93 0.0 8	93 21.1 27	102 1 19	96 8 18	99 0.35 16	83 -1.62 15	92 -0.28 15
IR 250007 98963416 IR 250007		IR 160317	114 54	82 59	118 38							116 -1.59 65	95 0.39 34		82 0.9 59	118 9.5 38								84 16.6 26					
IR 250008 98963424 IR 250008		IR 170178	127 57	78 64	98 41	124 27	95 28	94 41			76 22	121 -2.06 68	111 -0.35 39	79 -9 27	78 -1.2 64	98 2.8 41	84 24 44	77 1.3 44	78 -17 26	72 0 7	92 6.8 27	107 -7.5 31	94 -0.3 18	88 18.7 36	84 -11 28	79 -8 27	82 -1.36 22	87 -1.26 21	96 -0.10 21

Breeding Values and Accuracies: Bulls

Inbreeding in red is high

Value <80 Value >120

Breeding values with an accuracy < 5% are not printed

Animal				Selection Values								Birth		Wean				Growth			Fertility				Frame		Carcass			
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	Carcass Value	Birth wt dir	Birth mat	Mature wt	Wean wt	Wean mat	Cow-Calf Ratio (Wean)	Postwean wt	ADG	FCR	Scrotal Circ.	Heifer Fertility	Cow Fertility	Longevity	Height	Length	EMA	Fat	Marbling
ID Number Name																														
IR 250010	99063711	JA	150060	104	102	105	88	101	99	100	97	106	-0.14	103	112	102	105	101	99	102	94	106	108	103	90	110	107	105	97	97
99063711				58	66	42	30	28	42	20	38	20	-0.14	0.05	22	11.4	5.2	68	18.8	78	-39	14.8	-8.5	-2.2	19.6	6	19	0.99	-0.42	-0.04
IR 250010													69	40	30	66	42	46	44	26	11	29	30	19	35	29	28	21	19	19
IR 250011	99063729	IR	160153	99	86	99	116	104	93			86	100	97	87	86	99	90	85	89	84	92	122	92	89	97	91	94	90	86
99063729				56	63	40	25	25	40		18	0.05	0.31	-1	3.0	3.1	39	8.3	27	-21	6.8	-18.7	0.1	19.3	-3	4	-0.16	-1.04	-0.63	
IR 250011													67	38	25	63	40	43	39	21	6	22	29	14	34	23	22	19	17	17
IR 250017	99324444	IR	220310	124	72	102	120	103	91			72	119	111	83	72	102	81	72	72	69	80	117	98	86	85	78	83	92	90
99324444				50	57	32	19	21	34		6	-1.81	-0.32	-5	-4.1	4.0	17	-2.1	-38	5	0.3	-15.4	-1.1	17.8	-11	-9	-1.32	-0.85	-0.44	
IR 250017													62	30	19	57	32	36	36	23	5	25	22	10	28	24	24	7	6	6
IR 250018	99324451	BV	140221	102	83	106	122	96	95			80	103	97	81	83	106	96	87	84	78	93	113	92	82	95	84	81	90	90
99324451				56	63	38	20	25	38		18	-0.25	0.30	-7	1.8	5.2	56	9.3	9	-12	7.5	-12.2	0.0	15.8	-4	-3	-1.53	-1.02	-0.45	
IR 250018													67	37	20	63	38	40	44	22	5	25	28	12	34	25	24	19	17	17
IR 250020	99324469	BV	120085	102	94	86	103	102	87	82	83	81	95	111	96	94	86	82	88	87	79	96	108	112	82	98	89	90	74	88
99324469				58	64	45	29	31	43	22	39	24	0.63	-0.34	7	7.1	-1.4	18	10.1	19	-13	9.1	-8.3	-4.4	15.7	-2	2	-0.55	-2.38	-0.51
IR 250020													68	42	29	64	45	46	48	31	11	33	33	21	38	33	33	25	23	22
IR 250023	6020479728	IR	170503	113	76	103							113	102		76	103		73				109		86					
6020479728				52	26	34																								
IR 250023													63	34		-1.9	4.4		-1.4				-9.0		17.4					
IR 250032	99324477	BV	110601	110	93	91	109	93	89			88	102	115	91	93	91	87	87	88	83	88	98	103	83	99	92	95	88	91
99324477				59	64	45	30	29	43		16	-0.07	-0.51	2	6.7	0.2	32	9.8	26	-20	5.1	-1.0	-2.4	16.2	-1	5	-0.01	-1.21	-0.34	
IR 250032													68	43	30	64	45	46	48	24	5	26	34	19	38	26	25	16	15	14
IR 250582	98695984	IR	190550	100	88	100	111	90	86			85	100	100	89	88	100	92	86	85		86	105	81	93	99	91	95	90	95
98695984				54	36	34	24	21	30		10	0.10	0.18	0	4.4	3.2	45	8.4	12		3.9	-5.9	2.5	21.3	-1	3	-0.05	-0.99	-0.14	
IR 250582													65	34	24	36	34	31	28	13		14	25	14	30	14	14	10	10	9
AAD 260001	6020037146	GR	190173	128	100	99	86	128	116	112	115	109	122	112	115	100	99	93	107	117	107	95	120	124	116	100	105	111	122	85
6020037146				70	63	55	42	42	50	54	51	50	-2.14	-0.38	26	10.5	3.1	47	25.0	139	-62	8.9	-17.6	-7.0	32.6	-1	17	1.64	1.59	-0.74
YSTER 26-01																77	57	42	63	55	53	56	52	53	56	44	23	47	56	55

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Animal				Selection Values								Birth		Wean				Growth			Fertility				Frame		Carcass			
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	Carcass Value	Birth wt dir	Birth mat	Mature wt	Wean wt	Wean mat	Cow-Calf Ratio (Wean)	Postwean wt	ADG	FCR	Scrotal Circ.	Heifer Fertility	Cow Fertility	Longevity	Height	Length	EMA	Fat	Marbling
ID Number Name																														
BV 110601 73428682 RIEMPIES 3B1A2A	5	BV 080373 BV 070337		111 86	96 84	77 88	114 60	104 57	94 68	96 30	93 60	92 30	102 -0.06 87	136 -1.48 85	88 0 60	96 8.5 84	77 -4.5 88	78 8 77	90 12.3 76	95 52 48	92 -35 10	90 6.0 51	94 2.0 67	124 -6.8 39	95 22.3 72	97 -3 51	91 4 50	95 -0.09 32	94 -0.73 29	96 -0.06 29
BV 110614 73525438 GLOSSY 2C2D2A	6	BV 080373 BV 070347		125 84	77 83	98 85	132 54	78 60	86 67	97 36	86 61	89 40	115 -1.41 86	134 -1.42 81	70 -17 54	77 -1.9 83	98 2.5 85	85 27 74	79 3.4 74	100 72 56	95 -41 12	89 5.7 60	77 15.6 66	107 -3.2 41	75 11.8 72	87 -9 60	86 -1 59	99 0.40 42	95 -0.64 39	89 -0.48 38
BV 120085 75576827 JESSICA 2B1	6	BV 080318 BV 070351		105 85	103 84	68 87	100 59	123 62	97 69	89 44	94 64	81 47	91 1.05 86	124 -0.93 83	101 12 59	103 12.1 84	68 -7.4 87	73 -6 77	100 19.6 76	93 44 61	86 -24 21	107 14.9 66	112 -11.6 67	142 -10.9 43	94 21.8 71	96 -3 67	87 0 65	86 -0.94 49	66 -3.03 45	91 -0.34 44
BV 120109 75984591 GRACE 1D6B1C	12	BV 080318 BV 070331		87 91	98 90	62 91	88 85	104 86	64 80	85 84	65 81	75 83	77 2.44 91	116 -0.56 90	117 28 85	98 9.3 90	62 -9.5 91	60 -40 89	95 15.8 88	90 33 85	85 -24 82	81 0.9 86	92 4.0 86	130 -8.3 83	90 19.8 88	81 -13 86	76 -11 85	75 -2.12 83	64 -3.15 83	88 -0.54 83
BV 140221 80041015 ALICE	3	BV 100472 BJM 110037		113 77	76 76	103 74	133 40	111 48	104 58	94 30	100 52	76 37	113 -1.24 80	101 0.15 72	69 -18 40	76 -2.1 76	103 4.4 74	91 42 63	82 5.8 67	85 13 44	82 -18 11	98 10.1 49	123 -20.1 56	102 -2.1 23	93 21.2 63	86 -10 51	73 -14 48	66 -3.08 39	98 -0.34 35	93 -0.26 34
BV 140228 80090194 RIEMPIES 3B1A2A1	4	BV 110534 BV 110601		118 83	95 82	70 84	120 59	108 49	97 65	89 23	94 57	85 20	106 -0.51 84	131 -1.27 80	85 -3 59	95 7.7 82	70 -6.8 84	71 -10 75	91 12.7 70	89 29 31	88 -29 13	90 5.9 33	102 -3.9 61	121 -6.2 37	98 23.4 66	88 -8 33	82 -5 32	86 -1.01 21	98 -0.35 19	98 0.06 19
BV 140244 80202054 RONEL1CB2A	6	BV 110519 BV 100562		120 79	95 74	96 67	152 47	113 52	133 58	97 33	126 53	98 34	119 -1.87 82	102 0.08 74	43 -44 47	95 7.7 74	96 1.9 67	117 108 63	92 13.5 66	101 75 43	101 -52 18	125 24.9 48	124 -20.4 57	111 -4.1 35	87 18.2 66	88 -8 49	88 1 47	100 0.45 36	97 -0.45 33	99 0.08 32
JA 140063 80318603 JA140063	3	BE 040068 JA 090068		98 83	114 82	100 84	82 62	112 60	109 68	107 44	108 63	109 38	102 -0.15 84	92 0.57 80	120 31 62	114 17.7 82	100 3.5 84	104 74 76	118 34.3 72	105 90 55	91 -34 31	122 22.9 58	107 -7.3 66	123 -6.8 46	97 23.1 69	102 1 58	108 20 57	113 1.80 39	111 0.68 37	102 0.31 36
JA 140076 80318827 JA140076	2	BE 040068 JA 070049		108 84	105 83	102 84	76 57	118 59	104 67	106 44	103 62	108 41	113 -1.25 85	91 0.58 81	129 40 57	105 13.1 83	102 3.8 84	95 51 75	107 25.5 72	109 108 57	102 -53 28	102 12.3 62	108 -8.7 62	131 -8.4 42	100 24.6 70	100 -1 62	105 17 61	115 2.05 43	99 -0.25 39	98 0.06 39
JA 140097 80319023 JA140097	5	JA 110015 JA 080057		122 91	94 90	115 90	76 85	120 84	107 80	119 84	109 81	108 82	122 -2.15 91	100 0.15 90	128 38 85	94 7.4 90	115 8.4 90	98 59 88	108 25.9 86	120 152 84	106 -60 83	93 7.5 85	110 -9.7 84	129 -8.1 81	106 27.6 86	87 -9 85	98 10 85	114 1.96 83	119 1.37 82	67 -1.76 82
BV 150357 82892605 WILDEMIJS 4B2C1B	7	BV 100467 BV 110577		85 80	113 79	73 81	123 59	114 54	111 64	98 33	108 58	96 43	82 1.96 82	103 0.03 76	82 -6 59	113 17.6 79	73 -5.9 81	92 45 73	103 22.3 60	102 79 49	96 -42 12	99 10.9 54	121 -18.5 58	108 -3.4 38	97 23.2 66	116 10 55	105 17 53	105 0.98 45	88 -1.23 41	109 0.68 40
JA 150060 82442161 JA150060	1	JA 120028 JA 080100		101 81	124 80	103 82	76 60	121 55	124 65	123 40	124 60	127 41	94 0.72 83	112 -0.36 77	129 40 60	124 23.0 80	103 4.5 82	111 93 74	121 36.6 69	121 154 52	112 -70 22	125 25.0 58	112 -11.1 59	124 -6.8 38	110 29.9 64	116 10 59	120 31 57	113 1.82 43	113 0.84 39	106 0.52 38

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Animal			Selection Values									Birth		Wean				Growth			Fertility				Frame		Carcass		
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	Carcass Value	Birth wt dir	Birth mat	Mature wt	Wean wt	Wean mat	Cow-Calf Ratio (Wean)	Postwean wt	ADG	FCR	Scrotal Circ.	Heifer Fertility	Cow Fertility	Longevity	Height	Length	EMA	Fat	Marbling
ID Number Name																													
KZ 150032 82026147 KZ150032	3	RJ 010262 KZ 080024	102 82	95 80	80 82	96 53	119 56	90 64	104 39	91 59	92 27	88 1.34 83	128 -1.14 79	104 15 53	95 7.6 80	80 -3.5 82	75 0 72	95 15.8 70	104 88 49	95 -41 28	90 6.2 50	111 -10.5 66	123 -6.6 40	109 29.3 68	84 -11 50	83 -4 50	91 -0.45 28	103 0.06 26	90 -0.40 26
KZ 150046 82135849 KZ150046	3	RJ 010262 KZ 100024	104 80	112 79	90 80	80 59	119 58	106 65	111 39	106 60	109 26	98 0.27 82	110 -0.28 77	124 35 59	112 16.7 79	90 0.1 80	93 46 73	113 29.9 70	115 129 51	105 -59 25	103 12.8 53	102 -3.5 65	132 -8.6 44	111 30.2 68	97 -3 53	100 12 52	100 0.45 27	107 0.38 25	96 -0.08 24
KZ 150079 82390873 KZ150079	8	KZ 120108 KZ 080029	99 79	98 72	89 79	84 43	121 40	93 57	94 23	92 50	91 18	97 0.36 82	102 0.10 73	119 29 43	98 9.7 72	89 -0.3 79	83 20 65	103 22.3 55	93 44 26	92 -35 18	93 7.3 28	107 -7.5 42	127 -7.5 25	116 32.6 64	90 -7 28	92 5 27	91 -0.45 19	95 -0.60 17	97 -0.03 16
IR 160110 84215300 HONEY 4E	1	CL 040048 BV 070335	100 73	101 72	99 77	79 55	79 59	75 61	110 52	80 59	96 53	100 0.13 73	100 0.20 74	125 35 55	101 11.2 72	99 3.0 77	91 42 68	104 23.2 66	103 82 59	97 -45 44	105 14.0 61	80 13.1 59	81 2.4 49	102 25.7 68	100 -1 61	92 4 61	87 -0.86 54	99 -0.28 52	110 0.75 52
IR 160111 84218098 ODETTE	4	BV 090423 JA 060069	72 80	125 78	103 73	80 48	110 55	111 61	116 36	112 56	114 24	63 3.85 83	103 0.03 76	122 33 48	125 23.9 78	103 4.2 73	114 102 66	125 39.4 70	118 141 50	108 -63 19	121 22.6 53	107 -7.6 64	116 -5.2 37	99 24.3 67	127 17 55	117 28 53	108 1.35 26	93 -0.73 23	116 1.09 22
IR 160117 84313014 OPRAH	1	SS 120015 JA 080013	106 79	107 80	117 81	84 58	145 52	134 64	119 46	132 60	114 43	115 -1.44 82	83 0.98 75	116 26 58	107 14.2 80	117 9.0 81	114 101 73	110 27.9 68	116 133 50	105 -58 38	97 9.5 54	139 -32.1 58	142 -10.8 33	108 28.9 65	120 13 55	117 29 54	112 1.77 44	108 0.45 42	114 0.98 41
IR 160140 84488394 FRIENA E1	1	HN 120088 KZ 080029	82 78	105 78	91 76	91 33	112 46	93 57	91 30	91 52	88 25	74 2.77 81	112 -0.36 73	109 20 33	105 13.1 78	91 0.2 76	92 44 62	104 22.9 66	94 48 36	96 -43 21	95 8.9 38	103 -4.7 55	116 -5.1 30	111 30.0 62	95 -4 37	88 1 35	93 -0.26 26	96 -0.55 24	97 -0.04 23
IR 160153 84931633 ALICE 2	3	BV 100502 BJM 110037	91 80	95 73	90 78	122 49	126 49	111 60	86 28	105 54	91 36	91 1.01 83	99 0.24 74	82 -6 49	95 7.9 73	90 0.1 78	92 45 67	98 18.1 58	97 59 41	95 -40 11	97 10.0 45	138 -31.1 57	103 -2.2 29	108 28.8 64	92 -6 45	91 4 44	93 -0.22 38	98 -0.37 35	87 -0.59 34
IR 160305 88546270 AVN 16305			114 66	72 61	85 76	134 29						110 -0.95 65	107 -0.15 69	70 -18 29	72 -4.2 61	85 -1.8 76	68 -18 55	65 -7.4 17				78 3.1 5	95 22.3 43						
IR 160307 88546213 AVN 16307			106 66	87 57	126 73							110 -0.95 65	92 0.55 68		87 3.6 57	126 12.0 73		87 9.6 31					96 22.7 42						
IR 160309 88546262 AVN 16309			104 66	80 57	106 73	105 25						107 -0.58 65	95 0.43 69	93 4 25	80 0.1 57	106 5.3 73	89 37 52	77 1.6 25			115 -13.5 22		98 23.5 44						
IR 160310 88546254 AVN 16310			109 62	78 50	109 66							109 -0.85 61	98 0.25 64		78 -1.0 50	109 6.5 66		75 0.4 12					89 19.1 40						

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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	Carcass Value	Birth wt dir	Birth mat	Mature wt	Wean wt	Wean mat	Cow-Calf Ratio (Wean)	Postwean wt	ADG	FCR	Scrotal Circ.	Heifer Fertility	Cow Fertility	Longevity	Height	Length	EMA	Fat	Marbling		
ID Number Name																															
IR 160312 88546205 AVN 16312				106 65	82 57	117 72						109 -0.83 64	95 0.43 67		82 1.0 57	117 9.2 72							93 21.0 48								
IR 160313 88546221 AVN 16313				102 60	87 58	132 74	96 41	95 20	98 46			108 -0.75 58	89 0.71 63	100 11 41	87 3.4 58	132 14.0 74	116 106 58		88 10.0 30				104 -5.4 30	84 1.8 5	102 25.8 46						
IR 160317 88545959 AVN16317				116 61	81 57	129 73						116 -1.50 60	100 0.15 64		81 0.6 57	129 13.2 73								94 21.9 46							
IR 160504 88576889 16 0504 A				92 64	88 59	120 74	103 29	84 18	87 45			102 -0.07 63	82 1.01 67	94 5 29	88 4.3 59	120 10.0 74	109 88 54		87 9.4 37				96 0.5 21	74 4.1 9	99 24.0 42						
IR 170155 84865005 SALOMIE A1		5	BV 100502 BV 120114	108 79	96 67	90 73	124 38	110 47	110 55	98 29	106 50	99 36	110 -0.94 82	96 0.34 75	80 -8 38	96 8.4 67	90 -0.2 73	93 47 59	101 21.0 48	103 82 44	96 -43 10	102 12.2 48	117 -15.3 53	103 -2.2 24	98 23.9 63	96 -4 49	97 10 48	100 0.51 37	105 0.25 34	96 -0.07 33	
IR 170161 85294130 CORRIE 1			PU 080148 BJM 110065	109 78	89 77	98 74	102 44	101 54	90 60	101 34	91 55	98 38	103 -0.23 81	110 -0.29 74	96 8 44	89 4.8 77	98 2.7 74	89 36 65	92 13.1 58	99 69 51	96 -42 16	86 3.8 52	107 -7.8 62	101 -1.9 35	93 21.1 65	97 -3 53	95 7 52	97 0.17 39	113 0.89 37	110 0.72 36	
IR 170164 85294163 FERDA H1			PU 080148 BV 070333	104 81	81 80	58 80	105 62	125 57	71 66	86 40	71 61	75 42	97 0.43 82	141 -1.71 78	96 8 62	81 0.4 80	58 -10.8 80	45 -77 74	80 3.9 66	84 8 55	84 -21 22	73 -3.1 56	140 -32.5 64	112 -4.2 41	92 20.4 68	77 -16 57	69 -17 57	80 -1.59 44	103 0.03 41	100 0.18 41	
IR 170170 85570729 PETRA			PU 080148 JA 140063	88 88	118 88	95 88	90 83	113 83	111 78	109 81	110 79	111 81	75 2.64 89	120 -0.76 87	110 21 83	118 19.9 88	95 1.8 88	107 82 86	119 34.8 86	106 93 83	97 -44 79	112 17.7 83	114 -12.7 83	116 -5.1 80	96 22.5 85	109 5 83	109 21 83	114 1.95 81	117 1.18 81	109 0.69 80	
IR 170174 85688455 PAGE		3	BV 120797 KZ 070082	120 79	78 71	92 78	121 42	115 46	97 57	94 31	95 52	90 36	134 -3.33 82	108 -0.22 74	83 -5 42	78 -1.0 71	92 0.6 78	77 5 64	79 3.5 55	99 67 41	94 -38 17	90 5.7 45	113 -12.1 46	118 -5.5 28	100 24.7 63	98 -2 45	93 5 43	90 -0.56 38	106 0.30 35	93 -0.27 34	
IR 170178 85688489 RIEMPIES 2B		1	BF 110085 BV 070337	130 80	95 80	82 80	127 55	108 55	112 64	87 34	106 58	81 43	118 -1.71 83	129 -1.16 76	78 -10 55	95 7.6 80	82 -2.6 80	85 27 72	89 11.4 72	84 7 52	80 -15 14	106 14.8 54	103 -4.7 63	110 -3.8 36	106 27.7 66	76 -16 55	78 -9 54	79 -1.66 44	94 -0.68 42	109 0.71 42	
IR 170185 85758456 WILDEMIJS I1		3	BV 120797 BV 120108	91 79	102 78	97 76	137 44	100 49	115 60	107 28	113 54	106 32	85 1.60 82	109 -0.24 73	64 -23 44	102 11.6 78	97 2.2 76	113 99 66	99 19.1 66	117 136 43	109 -64 11	97 9.7 46	100 -1.9 58	110 -3.9 30	92 20.6 62	106 3 48	103 15 46	107 1.19 34	109 0.54 31	100 0.15 30	
IR 170193 85784536 RIEMPIES 2A1		3	ZP 140006 BV 140228	107 79	103 77	88 75	109 53	126 48	116 61	101 28	112 54	98 36	112 -1.16 82	90 0.65 73	91 2 53	103 12.0 77	88 -0.8 75	94 49 68	103 22.2 66	101 77 41	96 -43 13	108 15.4 44	127 -22.7 56	120 -5.9 29	105 27.4 61	101 0 44	101 13 43	94 -0.14 37	85 -1.45 35	99 0.13 34	

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Animal			Selection Values								Birth		Wean				Growth			Fertility				Frame		Carcass				
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	Carcass Value	Birth wt dir	Birth mat	Mature wt	Wean wt	Wean mat	Cow-Calf Ratio (Wean)	Postwean wt	ADG	FCR	Scrotal Circ.	Heifer Fertility	Cow Fertility	Longevity	Height	Length	EMA	Fat	Marbling
IR 170199 86104429 HERMIE	ZP 140006 BV 140019			92 77	101 76	100 77	81 53	110 44	91 60	96 26	90 53	100 34	107 -0.66 80	72 1.48 71	122 33 53	101 11.0 76	100 3.2 77	92 44 69	100 19.8 61	100 71 37	92 -35 12	108 15.8 40	124 -20.4 51	96 -0.9 26	95 22.3 58	111 7 41	110 22 40	101 0.63 36	77 -2.10 33	95 -0.15 33
IR 170205 85839611 WILDEMUIS E5	BV 100502 BV 090442	8		106 79	99 79	66 77	122 54	134 50	110 62	93 30	106 56	97 40	95 0.62 82	119 -0.73 74	83 -5 54	99 9.8 79	66 -8.2 77	71 -10 70	100 20.1 65	108 102 47	105 -58 9	96 9.3 51	142 -33.9 57	127 -7.7 31	94 21.5 62	89 -8 52	92 5 50	98 0.24 41	107 0.37 38	95 -0.11 37
IR 170503 90266701 17503				120 61	73 52	99 69							115 -1.42 60	109 -0.25 64		73 -3.5 52	99 2.9 69		69 -4.4 23			113 -12.4 20		97 23.4 41						
IR 170520 90266735 17520				105 61	84 57	123 73							109 -0.84 60	93 0.52 64		84 2.0 57	123 11.0 73		83 6.7 12					95 22.3 42						
IR 170522 90266750 17522				105 61	82 56	107 72							108 -0.71 60	95 0.40 64		82 0.8 56	107 5.8 72		79 2.9 16					95 22.1 41						
IR 170705 90266834 17705				105 63	81 58	105 74	107 30						107 -0.65 62	95 0.41 65	91 3 30	81 0.6 58	105 5.0 74	90 39 54	78 2.3 23			105 -6.1 20		94 21.6 41						
IR 180279 87264024 REMBRANDT	ZP 140006 BV 150347	5		101 76	114 77	75 74	108 56	117 48	112 61	105 30	110 55	107 38	100 0.10 80	100 0.16 69	93 4 56	114 18.0 77	75 -5.1 74	91 43 69	109 26.8 65	110 110 43	103 -56 15	119 21.6 46	121 -18.2 56	107 -3.3 32	105 27.0 60	114 9 47	114 26 46	101 0.58 39	80 -1.82 36	101 0.21 35
IR 180298 87319380 CINDERELLA D4	BF 120060 BV 100557	6		94 77	107 79	89 77	93 53	88 53	86 62	88 39	84 57	90 42	90 1.10 81	106 -0.09 71	106 18 53	107 14.2 79	89 -0.3 77	93 47 70	105 23.8 70	95 51 49	94 -38 26	125 24.8 52	78 14.2 59	106 -2.9 38	98 23.7 63	92 -6 53	91 3 52	102 0.65 44	88 -1.21 41	106 0.54 41
IR 180334 87533535 LYNN 2	JA 150075 BV 090476	4		99 78	99 77	94 74	94 50	126 50	105 60	94 32	101 54	93 26	98 0.31 81	101 0.13 72	105 16 50	99 10.1 77	94 1.3 74	91 42 67	103 22.2 66	96 55 43	88 -29 16	87 4.3 49	120 -17.2 58	117 -5.4 34	118 33.8 60	75 -17 49	81 -6 47	105 0.99 27	106 0.29 25	98 0.07 24
IR 190389 88727581 GRAFIN A2A	JA 150075			102 62	95 60	98 69	93 35	111 36	95 48	95 24	93 43	92 14	103 -0.24 62	98 0.28 62	106 17 35	95 7.9 60	98 2.7 69	91 42 55	95 16.1 46	94 49 33	81 -17 12	87 4.6 37	111 -10.4 35	104 -2.6 22	108 28.9 50	100 -1 38	97 10 36	99 0.41 15	96 -0.50 14	88 -0.53 14
IR 190392 88727730 ROSYNTJIE A3	JA 150075 BJM 110007	3		112 77	100 76	106 72	88 37	124 45	113 57	108 27	112 51	103 18	106 -0.55 80	110 -0.29 71	111 22 37	100 10.7 76	106 5.3 72	100 66 62	102 21.6 62	105 89 36	94 -38 14	104 13.5 41	115 -14.0 54	114 -4.7 27	123 36.2 58	103 1 41	104 16 40	100 0.47 18	110 0.66 17	103 0.33 17
IR 190393 88727748 CINDERELLA 1A1	IR 170160 IR 160101	4		89 76	113 75	81 71	95 45	102 48	95 58	105 30	95 52	105 36	75 2.65 79	122 -0.85 70	106 17 45	113 17.3 75	81 -3.0 71	92 43 64	114 30.6 64	111 113 46	106 -60 10	109 16.4 49	97 -0.2 58	110 -3.8 27	101 25.1 60	106 4 50	105 17 49	111 1.58 37	100 -0.20 34	108 0.64 34

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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	Carcass Value	Birth wt dir	Birth mat	Mature wt	Wean wt	Wean mat	Cow-Calf Ratio (Wean)	Postwean wt	ADG	FCR	Scrotal Circ.	Heifer Fertility	Cow Fertility	Longevity	Height	Length	EMA	Fat	Marbling
ID Number Name																														
IR 190396 88727763 SALOMIE A2	3	JA 150075 BV 120114	108 77	98 77	103 76	92 45	107 48	99 59	110 29	100 53	97 16	109 -0.85 80	97 0.31 71	107 18 45	98 9.4 77	103 4.2 76	97 57 66	102 21.6 58	98 65 39	83 -21 14	94 8.1 45	102 -3.6 54	101 -1.8 33	116 32.5 59	98 -2 46	98 10 44	98 0.24 17	109 0.55 16	97 0.00 15	
IR 190447 89091649 OPSIT 2F	3	JA 150075 BV 110631	122 75	100 77	98 72	88 54	124 48	112 60	105 30	110 54	102 22	108 -0.75 79	124 -0.95 67	113 23 54	100 10.7 77	98 2.6 72	93 47 68	104 22.8 67	104 89 40	94 -40 17	100 11.4 44	116 -14.5 58	122 -6.5 30	113 31.4 58	103 2 45	101 13 44	94 -0.15 22	122 1.60 21	105 0.43 20	
IR 190449 89091664 SABRINA		IR 170162 IR 160508	97 71	99 71	100 71	122 42	116 40	117 54			98 20	96 0.49 75	101 0.15 64	81 -7 42	99 9.9 71	100 3.5 71	106 80 61	97 17.1 58	97 61 27	95 -41 8	95 8.4 28	128 -23.5 51	95 -0.6 29	107 28.3 54	106 4 28	100 13 28	103 0.84 20	100 -0.16 19	108 0.60 19	
IR 190456 89128540 FRIENA	2	JA 150075 KZ 150079	103 76	105 76	101 74	78 53	125 46	107 60	108 27	107 53	102 17	103 -0.16 80	100 0.17 68	126 37 53	105 13.4 76	101 3.5 74	95 53 68	111 28.4 64	105 89 35	94 -40 15	95 8.6 40	106 -7.1 53	128 -7.8 31	124 36.9 58	99 -1 40	103 15 39	102 0.64 18	104 0.11 16	95 -0.11 16	
IR 190463 89128417 GRACE 2	4	JA 150075 BV 120642	83 76	114 77	93 74	89 58	118 50	106 61	108 31	106 55	106 26	84 1.70 80	96 0.38 69	112 23 58	114 17.7 77	93 0.9 74	100 65 70	114 30.5 66	116 133 44	108 -63 13	97 9.9 50	109 -9.2 57	120 -6.0 34	112 30.8 59	111 7 50	107 18 48	107 1.19 28	119 1.34 25	96 -0.10 24	
IR 190467 89128565 JESSICA I2	4	JA 150075 BV 120085	94 76	118 78	100 75	82 56	124 51	119 62	110 32	117 56	103 28	89 1.25 80	108 -0.22 70	120 31 56	118 20.1 78	100 3.5 75	107 84 70	121 36.6 69	110 110 45	96 -42 16	107 15.1 50	104 -5.2 59	136 -9.5 35	115 32.4 59	108 5 51	107 19 49	104 0.91 29	90 -1.04 27	95 -0.14 26	
IR 190470 89128557 ECLIPSE I2D	4	JA 150075 BV 090457	104 76	104 78	82 75	85 59	126 50	100 62	103 30	99 56	97 20	95 0.61 80	114 -0.49 70	118 28 59	104 12.6 78	82 -2.7 75	81 16 71	103 22.3 67	103 84 42	92 -35 14	99 10.7 47	122 -18.7 60	123 -6.7 35	110 29.6 60	97 -3 48	99 11 46	102 0.64 20	103 0.03 19	92 -0.32 18	
IR 190473 89129456 SALOMIE	3	EMB 140176 IR 170155	117 77	95 68	88 75	127 54	125 44	121 57	103 30	117 52	100 40	118 -1.78 80	98 0.27 71	77 -11 54	95 8.1 68	88 -0.6 75	92 45 66	102 21.8 50	104 88 45	96 -43 12	112 18.0 49	126 -22.1 46	115 -5.0 23	108 28.9 59	97 -3 50	97 9 48	103 0.76 41	112 0.75 39	90 -0.45 38	
IR 190474 89129506 EDELWEIS A2	4	JA 150075 BV 120055	116 76	94 77	82 72	103 58	130 49	106 61	108 29	105 55	97 20	107 -0.59 80	136 -1.51 68	97 8 58	94 7.6 77	82 -2.8 72	79 9 69	95 15.6 66	105 90 40	92 -36 14	91 6.2 44	127 -23.0 59	128 -7.8 35	105 27.4 58	100 0 45	99 11 43	101 0.55 21	106 0.33 19	93 -0.24 19	
IR 190485 89129928 DAMSEL 1	5	JA 150075 BV 110574	119 78	107 79	93 77	77 60	129 52	112 63	112 34	112 57	102 26	116 -1.52 81	106 -0.12 72	128 38 60	107 14.1 79	93 1.0 77	90 39 72	108 26.2 68	107 97 44	97 -44 19	108 15.5 49	120 -17.2 60	127 -7.6 39	114 31.8 60	105 3 49	103 15 48	105 0.95 27	97 -0.41 24	84 -0.76 24	
IR 190488 89129936 OUJAAR 1	4	EMB 140176 JA 140063	97 78	115 79	96 77	96 59	130 52	125 63	112 35	123 57	111 40	100 0.11 81	94 0.44 72	102 14 59	115 18.3 79	96 2.1 77	108 85 72	120 35.3 68	111 115 48	99 -47 19	128 26.4 51	126 -21.8 60	130 -8.2 37	104 26.9 61	106 4 52	110 22 51	114 1.97 42	115 1.04 39	95 -0.12 39	
IR 190550 89128474 IR 190550		IR 170162 IR 160504	101 73	94 73	92 69	111 49	98 40	92 56			90 20	98 0.28 77	104 -0.01 66	89 1 49	94 7.2 73	92 0.8 69	90 40 64	92 13.4 55	92 38 27	90 -32 8	89 5.3 28	105 -6.1 51	80 2.7 28	111 30.5 53	100 -1 28	93 6 28	98 0.23 20	100 -0.24 19	105 0.45 19	

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Animal			Selection Values								Birth		Wean				Growth			Fertility				Frame		Carcass			
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	Carcass Value	Birth wt dir	Birth mat	Mature wt	Wean wt	Wean mat	Cow-Calf Ratio (Wean)	Postwean wt	ADG	FCR	Scrotal Circ.	Heifer Fertility	Cow Fertility	Longevity	Height	Length	EMA	Fat	Marbling
ID Number Name																													
AAD 200034		BF 150163	103	95	98	114	107	105	82	99	88	106	94	88	95	98	97	95	87	84	102	102	105	112	95	93	100	97	112
90557190		AAD 160042	74	71	65	43	44	54	57	55	52	-0.49	0.46	-1	8.1	2.6	58	15.7	20	-21	12.4	-3.7	-2.7	30.8	-4	6	0.46	-0.44	0.84
AAD200034												78	68	43	71	65	60	61	52	57	58	37	30	52	59	57	54	50	49
AAD 200037		BF 150163	121	107	92	88	119	112	110	111	110	116	109	113	107	92	93	108	110	96	104	102	130	113	92	102	110	109	111
90993395	4	JA 140097	75	73	60	48	48	56	54	56	49	-1.53	-0.23	24	14.1	0.6	48	26.5	110	-42	13.7	-3.6	-8.3	31.4	-6	14	1.49	0.58	0.78
KYLA 20-37												79	67	48	73	60	60	66	52	52	55	49	30	56	56	55	50	48	47
IR 200015		IR 170162	115	96	82	91	105	87	98	87	93	112	105	110	96	82	77	97	99	99	95	103	99	110	96	89	91	108	116
90387028	3	IR 160110	72	73	69	54	45	57	32	52	33	-1.13	-0.07	21	8.4	-2.8	4	17.8	68	-47	8.8	-4.9	-1.5	29.9	-3	2	-0.50	0.44	1.07
IR 200015												77	64	54	73	69	65	54	40	23	41	46	34	59	42	41	34	32	32
IR 200019		IR 170171	100	103	94	93	132	112	95	108	101	107	85	106	103	94	95	107	106	102	102	132	114	117	96	101	103	88	90
90511825	3	IR 160153	71	71	67	51	40	55	26	49	36	-0.64	0.85	17	12.3	1.4	51	25.6	94	-54	12.3	-26.8	-4.8	33.1	-3	13	0.83	-1.20	-0.44
IR 200019												77	62	51	71	67	63	44	38	11	43	38	24	54	43	42	37	34	33
IR 200020		IR 170171	111	104	101	86	123	112	101	109	107	112	99	115	104	101	98	108	109	106	110	127	112	106	105	106	100	105	106
90511833	2	BV 110631	73	75	69	52	46	58	29	52	34	-1.09	0.23	26	12.7	3.6	60	26.1	106	-59	16.5	-22.7	-4.3	27.8	3	18	0.47	0.25	0.51
IR 200020												78	64	52	75	69	65	62	39	15	44	54	29	55	45	43	36	33	32
IR 200040		IR 170162	113	83	80	138	108	98			78	105	114	64	83	80	76	79	82	80	79	116	91	108	89	80	88	98	101
90643669		IR 160305	71	72	69	48	35	54			20	-0.43	-0.47	-23	1.4	-3.4	2	3.5	-2	-15	0.1	-14.4	0.3	28.9	-8	-7	-0.78	-0.36	0.20
IR 200040												76	63	48	72	69	63	43	27	8	28	36	24	53	28	28	20	19	19
IR 200046		IR 170160	99	107	81	82	108	88	101	89	102	86	122	123	107	81	82	106	110	104	96	101	122	96	101	100	101	97	108
90666512	4	BV 110605	74	67	69	54	48	57	33	52	40	1.57	-0.85	33	14.2	-3.0	18	24.7	111	-57	9.4	-2.7	-6.4	22.7	0	12	0.55	-0.45	0.65
IR 200046												79	66	54	67	69	63	58	49	15	51	49	30	60	52	51	41	38	38
IR 200080		IR 170162	90	112	92	101	124	117	105	114	105	85	108	97	112	92	104	113	112	107	99	123	116	110	98	98	106	108	109
90850413	3	KZ 150035	73	75	68	53	45	58	28	52	27	1.67	-0.20	9	17.0	0.6	74	30.1	118	-62	10.6	-19.6	-5.1	29.7	-2	10	1.06	0.49	0.71
IR 200080												78	64	53	75	68	65	54	39	15	40	56	29	56	41	40	28	26	25
IR 200083		JA 150049	109	104	97	106	116	116	90	110	98	110	98	92	104	97	103	101	95	87	99	118	115	99	98	96	98	107	96
90659657			66	64	54	38	30	46	22	41	22	-0.89	0.26	4	12.5	2.3	72	20.7	49	-26	10.8	-16.3	-5.0	24.0	-2	9	0.29	0.36	-0.08
IR 200083												73	54	38	64	54	52	33	27	13	30	28	19	42	30	29	23	21	21
IR 200087		IR 170162	120	102	87	102	117	110	111	109	108	105	126	97	102	87	89	99	112	107	108	114	109	113	120	111	96	115	110
91046847		JA 080100	75	76	71	52	47	59	31	53	31	-0.45	-1.03	9	11.4	-1.1	37	19.4	117	-62	15.8	-13.2	-3.6	31.3	13	22	0.04	1.00	0.73
IR 200087												79	67	52	76	71	66	56	41	18	44	57	29	58	45	44	32	30	29
IR 200098		IR 170162	107	103	84	108	112	105	101	104	103	103	105	92	103	84	90	102	105	100	107	113	105	107	98	101	104	111	112
91215301	2	JA 140079	69	62	57	43	44	50	30	46	28	-0.25	-0.08	3	12.1	-2.0	39	21.7	92	-50	15.2	-12.4	-2.8	28.3	-2	13	0.84	0.72	0.85
IR 200098												77	56	43	62	57	54	56	39	19	41	48	30	56	41	41	28	27	26
PU 200085		PU 140204	110	94	99	104	111	103	82	97	88	104	111	94	94	99	95	97	91	93	96	116	110	95	83	85	92	97	100
90660192	2	PU 160052	73	75	70	48	47	58	35	53	22	-0.28	-0.35	6	7.3	2.9	51	17.7	34	-38	9.0	-14.3	-3.9	21.9	-12	-2	-0.34	-0.48	0.18
PU 200085												77	66	48	75	70	64	58	49	19	51	51	28	58	46	45	23	22	21

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ID Number Name																													
IR 210104 91734343 IR 210104	3	IR 170180 BV 110571	113 75	105 62	91 63	96 39	111 46	107 52	111 34	107 48	100 36	106 -0.56 79	112 -0.40 68	103 15 39	105 13.0 62	91 0.4 63	94 50 55	100 19.9 51	104 85 45	97 -45 18	119 21.8 50	101 -3.3 47	114 -4.7 30	112 31.0 57	108 5 50	107 18 49	110 1.51 37	86 -1.36 34	103 0.31 33
IR 210108 91954487 IR 210108	2	IR 170180 BV 120108	103 73	105 73	94 69	122 35	124 46	126 55	113 30	123 50	103 32	96 0.47 78	111 -0.32 64	82 -6 35	105 13.0 73	94 1.2 69	105 77 59	101 20.5 55	111 114 42	102 -53 13	102 12.5 47	122 -19.0 55	115 -4.8 26	112 30.8 55	95 -4 48	98 10 46	108 1.36 34	97 -0.43 31	105 0.45 30
IR 210109 91954495 IR 210109	3	IR 170180 BV 090502	107 71	98 72	101 64	98 46	107 46	102 55	104 30	101 50	93 34	109 -0.81 77	96 0.36 61	100 11 46	98 9.4 72	101 3.6 64	98 60 61	100 19.6 57	99 68 43	93 -37 14	108 15.9 47	96 0.7 56	109 -3.6 28	116 33.0 54	91 -7 48	92 4 46	100 0.50 35	92 -0.86 32	103 0.33 32
IR 210111 92175082 IR 210111	3	IR 170180 BV 110631	125 71	101 72	97 64	96 39	125 45	119 54	110 30	117 49	104 34	114 -1.32 77	121 -0.80 61	103 14 39	101 11.0 72	97 2.4 64	96 55 58	98 18.4 57	105 92 40	98 -45 15	115 19.4 44	123 -19.6 56	118 -5.6 27	111 30.2 54	109 5 45	106 18 44	100 0.50 36	110 0.60 33	116 1.12 33
IR 210114 92174846 IR 210114	2	IR 170180 BV 140229	104 70	96 73	104 62	126 44	111 40	118 53	105 28	115 48	90 34	105 -0.41 77	97 0.31 58	77 -10 44	96 8.5 73	104 4.7 62	109 87 60	96 17.0 49	97 59 40	90 -33 11	100 11.1 44	113 -12.4 44	98 -1.3 22	112 31.0 52	96 -3 45	92 4 43	95 -0.09 36	96 -0.56 33	105 0.43 32
IR 210119 92174887 IR 210119	2	IR 170180 JA 150049	131 72	102 73	92 61	94 46	132 43	122 54	112 32	120 50	105 38	130 -2.94 78	122 -0.83 63	105 16 46	102 11.4 73	92 0.7 61	92 44 60	101 20.3 50	105 91 43	94 -39 16	112 17.8 48	122 -19.2 44	129 -8.1 26	117 33.1 53	99 -1 49	103 15 47	105 0.99 40	109 0.52 36	108 0.64 36
IR 210130 92211788 IR 210130		PU 080148 IR 180348	88 71	117 72	92 60	83 51	129 49	114 56	109 34	113 52	110 38	83 1.84 76	108 -0.18 63	120 31 51	117 19.6 72	92 0.7 60	100 64 61	118 33.7 66	110 110 50	104 -57 15	92 7.0 52	123 -19.7 52	129 -8.0 34	107 28.4 59	106 4 53	108 20 52	109 1.41 40	111 0.71 37	107 0.56 37
IR 210133 92419233 IR 210133	2	IR 170180 KZ 150032	114 71	96 75	90 64	102 44	114 46	102 55	110 31	102 50	92 34	100 0.08 77	124 -0.92 60	97 8 44	96 8.2 75	90 -0.2 64	87 31 61	94 15.5 50	101 75 41	90 -33 17	99 10.7 45	103 -4.2 58	114 -4.8 26	119 34.1 53	90 -7 46	91 3 44	97 0.19 35	94 -0.69 32	99 0.13 32
IR 210140 92419290 IR 210140		IR 170180 IR 160309	117 70	94 70	100 60	97 36	119 38	107 51	101 24	105 46	95 32	110 -0.90 75	113 -0.43 61	101 12 36	94 7.5 70	100 3.3 60	94 48 55	90 11.8 40	95 53 33	85 -23 10	103 12.8 37	121 -18.3 51	103 -2.3 17	115 32.4 49	106 3 38	103 15 37	105 1.05 33	84 -1.50 30	100 0.16 29
IR 210178 92421189 IR 210178	2	IR 170180 BV 110601	129 72	102 75	83 65	103 46	108 46	107 56	110 28	107 50	98 34	116 -1.51 78	128 -1.10 61	96 8 46	102 11.8 75	83 -2.4 65	87 32 62	97 17.6 58	101 76 41	93 -37 11	104 13.3 45	92 4.0 58	116 -5.2 26	116 32.7 54	102 1 46	101 14 44	104 0.92 36	90 -1.02 33	105 0.43 32
IR 210191 92421510 IR 210191		IR 170180 IR 160313	108 67	102 70	123 61	93 37	115 38	122 51	107 24	119 46	104 32	108 -0.76 73	99 0.20 56	103 14 37	102 11.4 70	123 11.3 61	120 117 56	101 20.8 47	103 82 33	92 -35 10	110 16.7 37	112 -11.4 52	103 -2.3 17	120 34.6 47	114 8 38	113 24 37	113 1.81 33	85 -1.40 30	103 0.35 29
IR 210194 92421536 IR 210194	2	IR 170180 IR 160153	105 70	99 72	95 62	120 44	128 44	123 54	103 27	119 49	95 36	103 -0.16 76	104 -0.02 59	84 -4 44	99 9.9 72	95 1.7 62	100 64 59	100 19.7 52	100 73 39	93 -37 11	105 14.3 43	128 -23.2 56	109 -3.6 23	122 35.6 52	98 -2 44	99 11 43	102 0.64 38	92 -0.87 34	99 0.11 34

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ID Number Name																													
IR 220247 93550085 IR 220247	1	IR 190499 IR 190449	95 66	107 69	99 56	106 30	120 32	117 47	103 20	114 42	107 22	96 0.53 74	97 0.31 53	93 4 30	107 14.1 69	99 3.0 56	107 83 52	108 26.1 54	107 99 28	99 -49 11	113 18.5 29	122 -18.8 35	106 -3.0 20	113 31.4 46	107 4 30	108 19 29	109 1.46 23	107 0.35 22	102 0.25 21
IR 220265 93797074 IR 220265		IR 190385 IR 160310	112 61	80 63	101 45	107 20	101 25	86 40			89 19	106 -0.52 71	111 -0.33 44	91 3 20	80 0.0 63	101 3.6 45	85 25 43	79 2.9 42	93 42 22		90 6.0 24	109 -8.8 23	97 -0.9 12	95 22.3 40	97 -3 24	92 5 24	98 0.31 20	91 -0.93 18	90 -0.42 18
IR 220310 94099322 IR 220310	14	PU 200071 PU 200085	121 61	84 62	91 60	114 38	122 41	104 48	65 30	95 44	75 12	107 -0.65 64	128 -1.13 56	88 -1 38	84 2.1 62	91 0.4 60	81 15 53	83 6.5 49	76 -24 46	77 -10 10	85 3.3 50	126 -21.9 45	116 -5.3 20	101 25.2 50	82 -13 48	80 -7 47	82 -1.39 13	104 0.15 12	98 0.06 12
IR 220332 94235827 IR 220332	5	IR 190499 BV 120085	104 67	104 71	78 54	101 36	122 40	104 50	101 28	102 46	93 31	97 0.45 76	112 -0.40 52	98 10 36	104 12.6 71	78 -4.0 54	83 22 54	105 23.7 52	102 77 39	92 -35 15	116 19.9 42	115 -14.1 41	129 -7.9 26	102 25.8 49	98 -2 43	96 9 42	97 0.20 32	89 -1.14 30	92 -0.31 29
IR 230360 95189858 ELNA	4	AAD 190022 AAD 200037	118 61	105 51	86 43	92 32	113 36	105 41	104 44	103 42	103 40	114 -1.37 70	106 -0.11 45	108 19 32	105 13.3 51	86 -1.5 43	88 34 42	104 23.0 44	104 86 41	96 -43 44	117 20.5 46	97 0.0 34	119 -5.8 22	118 34.0 44	98 -2 46	103 15 45	100 0.50 41	102 -0.06 39	105 0.46 38
IR 230365 95310728 IR 230365	4	IR 200050 IR 190473	105 63	105 68	89 48	101 34	104 32	101 46	105 21	101 41	105 28	101 -0.04 73	106 -0.11 46	98 9 34	105 13.1 68	89 -0.3 48	94 50 50	108 26.3 38	109 106 32	103 -55 8	111 17.3 35	99 -1.4 33	111 -4.0 17	102 25.7 43	100 0 35	102 14 34	106 1.11 29	107 0.35 27	99 0.12 26
IR 230381 95372470 IR 230381		IR 200050 IR 160310	106 61	93 60	101 44	93 19	87 24	82 39			97 19	103 -0.24 71	105 -0.06 43	106 17 19	93 6.6 60	101 3.5 44	91 42 41	92 13.4 28	98 63 23	93 -38 6	99 10.6 24	88 6.8 23	94 -0.4 12	94 21.6 38	103 2 25	100 12 24	103 0.80 20	92 -0.87 18	98 0.04 18
IR 230385 95531414 IR 230385		IR 190478	104 56	92 62	102 37	103 28	101 27	95 40			89 20	107 -0.59 67	95 0.43 37	94 6 28	92 6.5 62	102 4.0 37	96 55 42	93 14.4 45	93 42 25	82 -18 11	96 9.0 27	109 -9.0 30	104 -2.6 17	87 18.3 34	97 -3 28	94 7 27	98 0.30 21	94 -0.67 19	84 -0.77 19
IR 230386 95531422 IR 230386		IR 170199	94 57	96 63	102 40	93 26	96 22	87 39			90 18	103 -0.24 68	83 0.97 37	105 16 26	96 8.4 63	102 4.0 40	96 53 43	93 14.3 42	89 27 19	81 -16 6	95 8.9 20	113 -12.2 25	90 0.5 13	84 16.7 32	104 2 20	99 11 20	97 0.14 18	79 -1.92 17	90 -0.44 16
IR 230390 95531455 IR 230390		IR 200080	90 54	107 60	97 36	101 27	102 23	101 38			97 14	89 1.23 67	101 0.15 33	97 9 27	107 14.0 60	97 2.3 36	103 73 41	103 22.6 27	100 69 19	94 -39 7	95 8.8 20	111 -10.6 28	101 -1.8 14	90 19.5 31	103 1 21	99 11 20	103 0.79 14	95 -0.57 13	99 0.10 13
IR 230391 96014741 IR 230391		IR 190396	103 57	91 63	104 39	100 23	94 24	89 39			88 8	105 -0.40 68	97 0.32 37	98 9 23	91 5.7 63	104 4.7 39	96 53 42	90 12.1 40	89 26 20	77 -10 7	89 5.3 22	102 -4.1 27	92 0.1 16	93 21.1 32	98 -2 23	93 6 22	95 -0.05 8	95 -0.60 8	91 -0.36 8
IR 230420 95636684 IR 230420		IR 160307	101 55	89 61	116 38							105 -0.42 66	92 0.53 35		89 4.9 61	116 8.6 38		88 10.2 32					86 17.8 24						

Breeding Values and Accuracies: Cows

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Animal				Selection Values								Birth		Wean				Growth			Fertility				Frame		Carcass			
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	Carcass Value	Birth wt dir	Birth mat	Mature wt	Wean wt	Wean mat	Cow-Calf Ratio (Wean)	Postwean wt	ADG	FCR	Scrotal Circ.	Heifer Fertility	Cow Fertility	Longevity	Height	Length	EMA	Fat	Marbling
ID Number Name				Calv. Ease V	Calf Growth V	Milk V	Maint. V	Fertility V	Cow Value	Growth Value	Prod. Value	Carcass Value	Birth wt dir	Birth mat	Mature wt	Wean wt	Wean mat	Cow-Calf Ratio (Wean)	Postwean wt	ADG	FCR	Scrotal Circ.	Heifer Fertility	Cow Fertility	Longevity	Height	Length	EMA	Fat	Marbling
IR 230427 96004387 IR 230427		IR	180298	90 57	110 64	93 40	94 26	84 27	88 40	87 20	86 36	94 22	90 1.17 68	99 0.24 37	106 17 26	110 15.9 64	93 0.8 40	99 63 43	103 22.1 45	94 48 25	89 -31 13	111 17.4 26	87 7.7 29	97 -1.0 19	86 17.6 34	103 1 26	99 11 26	104 0.94 22	86 -1.38 21	99 0.10 20
IR 230432 96004437 IR 230432		JA	140079	96 59	98 40	100 39	103 29	92 30	92 35	93 24	90 33	94 20	100 0.10 70	92 0.54 40	95 7 29	98 9.7 40	100 3.3 39	99 63 36	96 16.6 36	94 47 28	83 -21 18	103 13.2 30	103 -4.8 32	92 0.0 21	85 17.3 37	98 -2 30	99 11 30	100 0.47 20	93 -0.76 19	92 -0.28 18
IR 230437 96004585 IR 230437		IR	170522	106 54	78 60	108 38							108 -0.72 66	96 0.36 34		78 -1.1 60	108 6.1 38		75 0.1 24					86 17.6 24						
IR 230440 96004486 IR 230440		JA	140071	110 59	87 66	100 42	90 30	98 27	82 42	87 20	81 38	86 16	110 -0.89 70	101 0.13 41	109 20 30	87 3.7 66	100 3.5 42	85 27 46	87 9.2 44	92 40 23	90 -33 17	86 3.9 25	108 -8.2 30	100 -1.6 19	87 18.3 35	96 -4 25	90 2 24	92 -0.35 16	95 -0.58 15	87 -0.59 14
IR 230445 96004916 IR 230445		IR	170705	107 54	80 61	107 38	109 15						111 -0.99 66	94 0.46 34	90 2 15	80 -0.1 61	107 5.5 38	91 41 38	77 1.7 12			104 -5.6 10		86 17.3 24						
IR 230820 95324075 IR 230820		IR	190392	108 56	91 38	107 36	98 19	103 23	96 31			91 8	107 -0.58 67	102 0.06 37	100 11 19	91 5.6 38	107 5.6 36	97 57 31	90 11.9 32	92 38 18	82 -19 7	94 7.9 20	110 -9.8 27	98 -1.2 13	98 23.7 32	101 0 21	96 9 20	96 0.07 9	96 -0.54 8	94 -0.20 8
IR 230846 95310819 IR 230846	2	IR 200050 IR 190454		105 62	107 69	91 46	86 33	109 34	100 46	108 22	100 41	108 28	99 0.19 73	111 -0.32 44	115 26 33	107 14.3 69	91 0.2 46	92 44 49	109 26.8 43	110 111 33	104 -57 10	114 18.7 35	105 -5.9 37	115 -4.9 20	100 24.8 44	102 1 36	103 15 35	106 1.12 29	108 0.46 27	101 0.19 26
IR 240476 96407705 IR 240476		IR	190393	92 56	99 61	94 37	103 22	93 25	89 38			89 18	85 1.59 67	110 -0.27 36	95 7 22	99 10.2 61	94 1.2 37	94 51 40	98 17.9 32	92 40 23	87 -26 5	94 8.2 24	101 -2.7 29	96 -0.8 13	89 19.1 33	100 -1 25	94 6 24	99 0.40 18	90 -1.00 17	96 -0.10 17
IR 240478 96818018 IR 240478	3	IR 180371 PU 200085		121 68	106 72	92 51	93 32	126 40	118 49	98 34	113 46	101 47	113 -1.18 76	116 -0.55 55	107 18 32	106 13.7 72	92 0.7 51	95 52 52	105 23.9 48	102 80 52	100 -50 14	107 15.2 52	118 -15.9 40	127 -7.5 20	109 29.5 48	98 -2 53	96 9 52	96 0.01 48	99 -0.32 46	96 -0.06 46
IR 240496 97203533 IR 240496		KZ	120074	110 59	90 67	101 43	106 19	107 28	99 41			82 16	112 -1.18 70	95 0.43 41	92 4 19	90 5.4 67	101 3.6 43	94 49 43	88 10.2 36	83 2 23	77 -9 8	86 3.8 26	115 -13.9 31	104 -2.6 17	92 20.9 36	96 -3 26	91 4 25	88 -0.79 17	92 -0.88 15	86 -0.65 15
IR 240505 97203764 IR 240505		JA	150060	100 59	115 67	102 42	85 30	101 28	107 43	103 20	105 38	111 20	100 0.07 70	99 0.23 40	116 27 30	115 18.3 67	102 4.0 42	107 84 46	110 27.7 34	106 94 26	98 -45 11	110 16.9 29	104 -5.6 30	105 -2.8 19	93 21.3 35	114 9 29	112 24 28	109 1.41 21	98 -0.37 19	98 0.06 19
IR 240532 97665038 IR 240532		IR	160140	92 57	96 63	99 39	99 16	98 24	88 38			83 12	90 1.12 68	102 0.09 38	99 10 16	96 8.2 63	99 3.0 39	95 51 39	94 15.2 43	86 17 18	84 -21 11	90 5.7 19	103 -4.9 28	99 -1.5 14	93 21.2 34	97 -3 18	88 1 18	93 -0.29 13	88 -1.15 12	91 -0.38 12

Breeding Values and Accuracies: Cows

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Animal			Selection Values								Birth		Wean				Growth			Fertility				Frame		Carcass				
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	Carcass Value	Birth wt dir	Birth mat	Mature wt	Wean wt	Wean mat	Cow-Calf Ratio (Wean)	Postwean wt	ADG	FCR	Scrotal Circ.	Heifer Fertility	Cow Fertility	Longevity	Height	Length	EMA	Fat	Marbling
ID Number Name																														
IR 240533 97665046 IR 240533		AAD 200037	114 57	93 36	100 30	97 24	101 24		95 30	91 26	93 29	94 24	114 -1.28 70	101 0.12 35	101 12 24	93 6.8 36	100 3.3 30	93 46 30	92 13.9 33	94 48 26	84 -21 26	94 8.1 28	103 -4.6 24	106 -3.0 15	95 22.1 31	95 -4 28	95 8 27	101 0.58 25	95 -0.58 24	98 0.03 23
IR 240534 97665053 IR 240534		IR 160305	104 55	74 61	96 40	128 14							101 0.02 66	106 -0.08 36	75 -13 14	74 -3.2 61	96 1.9 40	80 12 38	67 -6.1 25					88 18.6 25						
IR 240539 97665103 IR 240539		IR 200031	101 54	96 62	99 36	91 24	105 24		91 38			87 18	104 -0.32 67	95 0.42 33	108 19 24	96 8.4 62	99 3.0 36	92 43 41	97 17.2 42	88 25 21	82 -18 7	94 8.1 24	113 -11.8 27	106 -2.9 14	89 19.0 32	94 -5 24	92 5 23	93 -0.24 19	84 -1.55 17	91 -0.39 17
IR 240547 97667059 IR 240547		IR 190467	106 56	99 63	104 39	94 28	102 26		99 40			91 14	106 -0.55 67	99 0.24 36	105 16 28	99 9.9 63	104 4.6 39	100 64 43	99 19.1 44	95 51 22	84 -22 8	96 9.1 25	104 -5.0 30	109 -3.7 17	92 20.5 33	104 2 25	99 11 24	98 0.32 14	86 -1.39 13	90 -0.43 13
IR 240551 97667091 IR 240551		IR 170174	111 57	90 63	97 40	114 21	98 23		95 39			87 18	110 -0.95 68	102 0.09 38	88 0 21	90 5.0 63	97 2.3 40	91 42 41	87 9.2 38	90 34 21	84 -22 9	88 5.0 22	106 -7.2 23	101 -1.9 14	86 17.4 34	100 -1 22	93 5 22	93 -0.25 19	94 -0.70 17	90 -0.45 17
IR 240553 97667117 IR 240553		BV 100532	98 59	85 67	97 44	125 29	85 30		86 43	74 20	81 38	77 18	97 0.36 70	101 0.15 41	78 -10 29	85 2.8 67	97 2.4 44	91 42 47	85 8.0 46	81 -4 27	81 -16 9	84 2.7 31	100 -2.4 31	83 2.0 21	84 16.8 36	89 -8 31	80 -7 30	87 -0.84 19	90 -0.99 17	89 -0.50 17
IR 240572 98696073 IR 240572		IR 160117	102 57	100 64	111 42	95 29	112 27		110 41	96 23	106 37	96 22	110 -0.88 67	87 0.80 39	102 13 29	100 10.5 64	111 7.2 42	108 87 45	100 20.2 42	97 59 25	89 -30 19	90 5.9 27	120 -17.6 29	113 -4.5 17	89 19.0 35	109 6 28	103 15 27	102 0.72 22	95 -0.65 21	99 0.13 20
IR 240576 98696156 IR 240576		BV 110614	114 59	73 67	103 43	132 27	81 30		84 43			72 20	103 -0.17 69	120 -0.76 42	70 -18 27	73 -3.5 67	103 4.4 43	88 35 46	72 -2.2 45	81 -5 28	74 -5 6	78 -0.5 30	93 3.3 33	93 -0.1 21	74 11.4 38	84 -11 30	76 -10 30	87 -0.91 21	86 -1.31 19	83 -0.83 19
IR 250004 98938483 IR 250004		IR 210108	107 54	91 62	101 36	120 18	103 23		104 37			89 16	105 -0.45 66	102 0.10 33	83 -5 18	91 6.0 62	101 3.7 36	98 61 39	88 10.6 28	93 44 21	85 -24 6	91 6.7 23	113 -12.2 27	98 -1.3 13	92 20.6 30	95 -4 24	91 4 23	99 0.36 17	89 -1.11 15	94 -0.18 15
IR 250005 98938491 IR 250005		IR 190485	110 56	94 63	100 40	93 30	105 26		94 41			88 12	109 -0.78 67	102 0.10 37	105 17 30	94 7.3 63	100 3.5 40	92 45 44	93 14.2 34	90 32 22	82 -18 10	93 7.6 24	112 -11.5 30	104 -2.6 19	92 20.7 33	99 -1 25	93 5 24	96 0.06 13	89 -1.11 12	84 -0.80 12
IR 250006 98938509 IR 250006		IR 190392	106 56	86 62	108 38	104 19	103 23		94 38			84 8	103 -0.21 67	105 -0.08 37	94 5 19	86 3.0 62	108 6.1 38	96 55 40	86 8.6 32	87 19 18	78 -11 7	89 5.4 20	111 -11.0 27	97 -1.0 13	96 22.8 32	96 -4 21	90 3 20	91 -0.50 9	95 -0.61 8	91 -0.34 8
IR 250012 99063737 IR 250012		IR 190473	109 55	92 62	97 39	120 27	103 23		103 39			90 20	111 -1.01 66	96 0.38 37	84 -4 27	92 6.4 62	97 2.2 39	95 52 43	93 14.7 25	92 39 23	84 -22 6	98 10.4 25	114 -13.2 23	99 -1.5 12	90 19.4 32	98 -2 25	93 6 24	98 0.27 21	96 -0.49 19	87 -0.57 19

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Animal			Selection Values								Birth		Wean				Growth			Fertility				Frame		Carcass			
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	Carcass Value	Birth wt dir	Birth mat	Mature wt	Wean wt	Wean mat	Cow-Calf Ratio (Wean)	Postwean wt	ADG	FCR	Scrotal Circ.	Heifer Fertility	Cow Fertility	Longevity	Height	Length	EMA	Fat	Marbling
IR 250014 99063752 IR 250014		IR 190396	105 55	95 63	103 39	97 23	93 24	91 39			92 8	108 -0.70 66	94 0.45 37	101 12 23	95 7.8 63	103 4.5 39	97 58 42	95 15.6 30	91 37 20	80 -14 7	91 6.7 22	101 -3.2 27	93 -0.1 16	93 21.1 32	101 0 23	97 9 22	98 0.25 8	96 -0.56 8	92 -0.29 8
IR 250029 99162075 IR 250029		IR 190488	95 56	108 63	99 40	99 30	105 27	106 41			100 20	98 0.29 67	93 0.51 37	99 11 30	108 15.0 63	99 3.0 40	106 80 44	107 25.6 34	99 66 24	89 -30 9	110 16.5 26	112 -11.6 30	108 -3.4 18	88 18.4 34	106 4 26	104 16 25	107 1.22 21	99 -0.30 20	92 -0.32 19
IR 250583 98765928 IR 250583		IR 210104	108 55	90 58	100 33	105 20	97 24	91 36			87 18	105 -0.43 67	105 -0.06 35	93 5 20	90 5.1 58	100 3.4 33	93 46 37	86 9.0 26	88 25 23	82 -18 9	99 10.7 25	104 -5.2 23	97 -1.1 15	92 20.4 32	100 0 25	94 7 24	99 0.34 18	83 -1.58 17	93 -0.27 17
IR 250584 98766298 IR 250584		IR 160312	105 54	85 59	111 38							108 -0.74 65	93 0.49 35		85 2.6 59	111 7.2 38							84 16.5 27						
IR 250585 98793979 IR 250585		IR 170205	101 57	95 62	85 40	117 27	108 26	98 40			89 20	96 0.47 68	107 -0.14 38	87 -1 27	95 8.1 62	85 -1.7 40	86 28 43	94 14.8 32	93 45 24		90 6.0 25	122 -19.0 29	105 -2.8 16	83 16.2 34	94 -5 26	91 4 25	95 0.00 20	94 -0.68 19	90 -0.41 18
IR 250596 98793987 IR 250596		IR 190393	97 56	90 61	96 37	107 22	93 25	84 38			85 18	90 1.11 67	111 -0.34 36	92 3 22	90 5.4 61	96 2.1 37	90 39 40	90 12.0 32	89 29 23	84 -22 5	91 6.7 24	103 -4.5 29	94 -0.4 13	86 17.6 33	97 -3 25	90 3 24	96 0.10 18	90 -1.04 17	94 -0.17 17
IR 260056 6020662315 IR 260056		PU 080148 BV 110614	106 64	90 64	90 63	112 51	100 52	90 54	100 35	90 50	97 42	96 0.49 65	135 -1.46 62	89 1 51	90 5.3 64	90 -0.2 63	84 24 59	92 13.4 60	103 84 54	101 -52 14	84 2.9 55	102 -3.6 55	116 -5.1 36	81 15.2 60	93 -5 56	92 4 56	103 0.81 44	104 0.10 41	103 0.35 40

Selection List on Cow Value
Bulls 2 years and older

ID Sorted on ID		Name	Sire ID	Dam ID	% Inbreeding	Horned / Polled	Myostatin				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	IR 240477	IR 240477	IR 180371	IR 210108	3.4					117	64	106	70	93	50	99	27	129	39	122	47	112	32	120	44
										★★★★☆															
1	IR 230375	IR 230375		IR 190463	0.0					92	56	102	63	99	38	92	29	100	26	92	40				
2	IR 230410	IR 230410		IR 200019	0.0					104	54	86	61	103	35	103	25	112	21	94	37				
3	IR 240567	IR 240567		IR 200020	0.0					102	54	96	62	103	36	94	26	103	23	95	38				
										★★★															
1	IR 200050	RUDI1	IR 170160	KZ 150055	3.3					98	73	108	82	91	56	84	37	85	45	83	55	107	30	86	50
2	IR 230389	IR 230389		IR 190490	0.0					113	56	84	62	101	37	95	28	110	26	89	39				

Selection List on Cow Value

Cows 2 years and older

ID Sorted on ID	Name	Sire ID	Dam ID	% Inbreeding	Horned / Polled	Myostatin nt821 Q204X F94L Genomic tested	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	BV 140244 RONEL1CB2A	BV 110519	BV 100562	6.1			120 79	95 74	96 67	152 47	113 52	133 58	97 33	126 53	
2	IR 160117 OPRAH	SS 120015	JA 080013	0.6			106 79	107 80	117 81	84 58	145 52	134 64	119 46	132 60	
											★★★★★				
1	IR 190473 SALOMIE	EMB 140176	IR 170155	2.9			117 77	95 68	88 75	127 54	125 44	121 57	103 30	117 52	
2	IR 190488 OUJAAR 1	EMB 140176	JA 140063	3.9			97 78	115 79	96 77	96 59	130 52	125 63	112 35	123 57	
3	IR 210108 IR 210108	IR 170180	BV 120108	2.3			103 73	105 73	94 69	122 35	124 46	126 55	113 30	123 50	
4	IR 210119 IR 210119	IR 170180	JA 150049	2.4			131 72	102 73	92 61	94 46	132 43	122 54	112 32	120 50	
5	IR 210191 IR 210191	IR 170180	IR 160313	0.0			108 67	102 70	123 61	93 37	115 38	122 51	107 24	119 46	
6	IR 210194 IR 210194	IR 170180	IR 160153	1.8			105 70	99 72	95 62	120 44	128 44	123 54	103 27	119 49	
7	JA 150060 JA150060	JA 120028	JA 080100	0.6			101 81	124 80	103 82	76 60	121 55	124 65	123 40	124 60	
											★★★★★				
1	AAD 200037 KYLA 20-37	BF 150163	JA 140097	3.6			121 75	107 73	92 60	88 48	119 48	112 56	110 54	111 56	
2	BV 150357 WILDEMUIS 4B2C1B	BV 100467	BV 110577	7.3			85 80	113 79	73 81	123 59	114 54	111 64	98 33	108 58	
3	IR 160111 ODETTE	BV 090423	JA 060069	4.2			72 80	125 78	103 73	80 48	110 55	111 61	116 36	112 56	
4	IR 160153 ALICE 2	BV 100502	BJM 110037	3.2			91 80	95 73	90 78	122 49	126 49	111 60	86 28	105 54	
5	IR 170155 SALOMIE A1	BV 100502	BV 120114	4.9			108 79	96 67	90 73	124 38	110 47	110 55	98 29	106 50	
6	IR 170170 PETRA	PU 080148	JA 140063	0.1		0	88 88	118 88	95 88	90 83	113 83	111 78	109 81	110 79	
7	IR 170178 RIEMPIES 2B	BF 110085	BV 070337	1.5			130 80	95 80	82 80	127 55	108 55	112 64	87 34	106 58	
8	IR 170185 WILDEMUIS I1	BV 120797	BV 120108	3.2			91 79	102 78	97 76	137 44	100 49	115 60	107 28	113 54	
9	IR 170193 RIEMPIES 2A1	ZP 140006	BV 140228	2.8			107 79	103 77	88 75	109 53	126 48	116 61	101 28	112 54	
10	IR 170205 WILDEMUIS E5	BV 100502	BV 090442	7.9			106 79	99 79	66 77	122 54	134 50	110 62	93 30	106 56	
11	IR 180279 REMBRANDT	ZP 140006	BV 150347	4.9			101 76	114 77	75 74	108 56	117 48	112 61	105 30	110 55	
12	IR 190392 ROSYNTJIE A3	JA 150075	BJM 110007	2.6			112 77	100 76	106 72	88 37	124 45	113 57	108 27	112 51	
13	IR 190447 OPSIT 2F	JA 150075	BV 110631	3.3			122 75	100 77	98 72	88 54	124 48	112 60	105 30	110 54	
14	IR 190449 SABRINA	IR 170162	IR 160508	0.0			97 71	99 71	100 71	122 42	116 40	117 54			
15	IR 190467 JESSICA I2	JA 150075	BV 120085	3.9			94 76	118 78	100 75	82 56	124 51	119 62	110 32	117 56	
16	IR 190485 DAMSEL 1	JA 150075	BV 110574	5.3			119 78	107 79	93 77	77 60	129 52	112 63	112 34	112 57	
17	IR 200019 IR 200019	IR 170171	IR 160153	3.0			100 71	103 71	94 67	93 51	132 40	112 55	95 26	108 49	

Selection List on Cow Value

Cows 2 years and older

ID Sorted on ID			Name	Sire ID	Dam ID	% Inbreeding	Horned / Polled	Myostatin				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									
								nt821	Q204X	F94L	Genomic tested	★★★★☆																
18	IR	200020	IR 200020	IR 170171	BV 110631	2.4						111	73	104	75	101	69	86	52	123	46	112	58	101	29	109	52	
19	IR	200080	IR 200080	IR 170162	KZ 150035	3.2						90	73	112	75	92	68	101	53	124	45	117	58	105	28	114	52	
20	IR	200083	IR 200083		JA 150049	0.0						109	66	104	64	97	54	106	38	116	30	116	46	90	22	110	41	
21	IR	200087	IR 200087	IR 170162	JA 080100	0.4						120	75	102	76	87	71	102	52	117	47	110	59	111	31	109	53	
22	IR	210111	IR 210111	IR 170180	BV 110631	3.0						125	71	101	72	97	64	96	39	125	45	119	54	110	30	117	49	
23	IR	210114	IR 210114	IR 170180	BV 140229	1.8						104	70	96	73	104	62	126	44	111	40	118	53	105	28	115	48	
24	IR	210130	IR 210130	PU 080148	IR 180348	0.1						88	71	117	72	92	60	83	51	129	49	114	56	109	34	113	52	
25	IR	220247	IR 220247	IR 190499	IR 190449	1.3						95	66	107	69	99	56	106	30	120	32	117	47	103	20	114	42	
26	IR	240478	IR 240478	IR 180371	PU 200085	2.7						121	68	106	72	92	51	93	32	126	40	118	49	98	34	113	46	
27	IR	240572	IR 240572		IR 160117	0.0						102	57	100	64	111	42	95	29	112	27	110	41	96	23	106	37	
												★★★★																
1	AAD	200034	AAD200034	BF 150163	AAD 160042	0.0						103	74	95	71	98	65	114	43	107	44	105	54	82	57	99	55	
2	BV	140221	ALICE	BV 100472	BJM 110037	2.8						113	77	76	76	103	74	133	40	111	48	104	58	94	30	100	52	
3	IR	180334	LYNN 2	JA 150075	BV 090476	4.0						99	78	99	77	94	74	94	50	126	50	105	60	94	32	101	54	
4	IR	190456	FRIENA	JA 150075	KZ 150079	1.8						103	76	105	76	101	74	78	53	125	46	107	60	108	27	107	53	
5	IR	190463	GRACE 2	JA 150075	BV 120642	4.0						83	76	114	77	93	74	89	58	118	50	106	61	108	31	106	55	
6	IR	190470	ECLIPSE I2D	JA 150075	BV 090457	3.9						104	76	104	78	82	75	85	59	126	50	100	62	103	30	99	56	
7	IR	190474	EDELWEIS A2	JA 150075	BV 120055	4.0						116	76	94	77	82	72	103	58	130	49	106	61	108	29	105	55	
8	IR	200098	IR 200098	IR 170162	JA 140079	2.4						107	69	103	62	84	57	108	43	112	44	105	50	101	30	104	46	
9	IR	210104	IR 210104	IR 170180	BV 110571	2.9						113	75	105	62	91	63	96	39	111	46	107	52	111	34	107	48	
10	IR	210109	IR 210109	IR 170180	BV 090502	3.1						107	71	98	72	101	64	98	46	107	46	102	55	104	30	101	50	
11	IR	210133	IR 210133	IR 170180	KZ 150032	1.5						114	71	96	75	90	64	102	44	114	46	102	55	110	31	102	50	
12	IR	210140	IR 210140	IR 170180	IR 160309	0.0						117	70	94	70	100	60	97	36	119	38	107	51	101	24	105	46	
13	IR	210178	IR 210178	IR 170180	BV 110601	1.9						129	72	102	75	83	65	103	46	108	46	107	56	110	28	107	50	
14	IR	220310	IR 220310	PU 200071	PU 200085	14.0						121	61	84	62	91	60	114	38	122	41	104	48	65	30	95	44	
15	IR	220332	IR 220332	IR 190499	BV 120085	4.9						104	67	104	71	78	54	101	36	122	40	104	50	101	28	102	46	
16	IR	230360	ELNA	AAD 190022	AAD 200037	3.7						118	61	105	51	86	43	92	32	113	36	105	41	104	44	103	42	
17	IR	230365	IR 230365	IR 200050	IR 190473	3.5						105	63	105	68	89	48	101	34	104	32	101	46	105	21	101	41	
18	IR	230390	IR 230390		IR 200080	0.0						90	54	107	60	97	36	101	27	102	23	101	38					
19	IR	230846	IR 230846	IR 200050	IR 190454	2.2						105	62	107	69	91	46	86	33	109	34	100	46	108	22	100	41	

Selection List on Cow Value

Cows 2 years and older

ID		Name	Sire ID	Dam ID	Inbreeding	Myostatin	Calving Ease	Calf Growth	Milk Value	Maint. Value	Fertility Value	Cow Value	Growth Value	Prod Value	
Sorted on ID					%	nt821 Horned / Polled Q204X F94L Genomic tested	Value Acc	Value Acc	Value Acc	Value Acc	Value Acc	Value Acc	Value Acc	Value Acc	
							★★★★								
20	IR 240505	IR 240505		JA 150060	0.0		100 59	115 67	102 42	85 30	101 28	107 43	103 20	105 38	
21	JA 140063	JA140063	BE 040068	JA 090068	3.5		98 83	114 82	100 84	82 62	112 60	109 68	107 44	108 63	
22	JA 140076	JA140076	BE 040068	JA 070049	2.2		108 84	105 83	102 84	76 57	118 59	104 67	106 44	103 62	
23	JA 140097	JA140097	JA 110015	JA 080057	5.2	0	122 91	94 90	115 90	76 85	120 84	107 80	119 84	109 81	
24	KZ 150046	KZ150046	RJ 010262	KZ 100024	2.5		104 80	112 79	90 80	80 59	119 58	106 65	111 39	106 60	
25	PU 200085	PU 200085	PU 140204	PU 160052	2.2		110 73	94 75	99 70	104 48	111 47	103 58	82 35	97 53	
							★★★★☆								
1	BV 110601	RIEMPIES 3B1A2A	BV 080373	BV 070337	4.9		111 86	96 84	77 88	114 60	104 57	94 68	96 30	93 60	
2	BV 120085	JESSICA 2B1	BV 080318	BV 070351	5.7		105 85	103 84	68 87	100 59	123 62	97 69	89 44	94 64	
3	BV 140228	RIEMPIES 3B1A2A1	BV 110534	BV 110601	4.3		118 83	95 82	70 84	120 59	108 49	97 65	89 23	94 57	
4	IR 160140	FRIENA E1	HN 120088	KZ 080029	1.1		82 78	105 78	91 76	91 33	112 46	93 57	91 30	91 52	
5	IR 160313	AVN 16313			0.0		102 60	87 58	132 74	96 41	95 20	98 46			
6	IR 170161	CORRIE 1	PU 080148	BJM 110065	0.3		109 78	89 77	98 74	102 44	101 54	90 60	101 34	91 55	
7	IR 170174	PAGE	BV 120797	KZ 070082	3.3		120 79	78 71	92 78	121 42	115 46	97 57	94 31	95 52	
8	IR 170199	HERMIE	ZP 140006	BV 140019	0.0		92 77	101 76	100 77	81 53	110 44	91 60	96 26	90 53	
9	IR 190389	GRAFIN A2A	JA 150075		0.0		102 62	95 60	98 69	93 35	111 36	95 48	95 24	93 43	
10	IR 190393	CINDERELLA 1A1	IR 170160	IR 160101	4.0		89 76	113 75	81 71	95 45	102 48	95 58	105 30	95 52	
11	IR 190396	SALOMIE A2	JA 150075	BV 120114	2.8		108 77	98 77	103 76	92 45	107 48	99 59	110 29	100 53	
12	IR 190550	IR 190550	IR 170162	IR 160504	0.0		101 73	94 73	92 69	111 49	98 40	92 56			
13	IR 200040	IR 200040	IR 170162	IR 160305	0.0		113 71	83 72	80 69	138 48	108 35	98 54			
14	IR 230385	IR 230385		IR 190478	0.0		104 56	92 62	102 37	103 28	101 27	95 40			
15	IR 230432	IR 230432		JA 140079	0.0		96 59	98 40	100 39	103 29	92 30	92 35	93 24	90 33	
16	IR 230820	IR 230820		IR 190392	0.0		108 56	91 38	107 36	98 19	103 23	96 31			
17	IR 240496	IR 240496		KZ 120074	0.0		110 59	90 67	101 43	106 19	107 28	99 41			
18	IR 240533	IR 240533		AAD 200037	0.0		114 57	93 36	100 30	97 24	101 24	95 30	91 26	93 29	
19	IR 240539	IR 240539		IR 200031	0.0		101 54	96 62	99 36	91 24	105 24	91 38			
20	IR 240547	IR 240547		IR 190467	0.0		106 56	99 63	104 39	94 28	102 26	99 40			
21	IR 240551	IR 240551		IR 170174	0.0		111 57	90 63	97 40	114 21	98 23	95 39			
22	KZ 150032	KZ150032	RJ 010262	KZ 080024	2.5		102 82	95 80	80 82	96 53	119 56	90 64	104 39	91 59	
23	KZ 150079	KZ150079	KZ 120108	KZ 080029	8.1		99 79	98 72	89 79	84 43	121 40	93 57	94 23	92 50	

Selection List on Cow Value

Cows 2 years and older

ID		Name	Sire ID	Dam ID	% Inbreeding	Horned / Polled	Myostatin				Calving Ease Value	Calf Growth Value	Milk Value	Maint. Value	Fertility Value	Cow Value	Growth Value	Prod Value									
Sorted on ID							nt821	Q204X	F94L	Genomic tested	Acc	Acc	Acc	Acc	Acc	Acc	Acc	Acc									
										★★																	
1	BV 110614	GLOSSY 2C2D2A	BV 080373	BV 070347	5.9						125	84	77	83	98	85	132	54	78	60	86	67	97	36	86	61	
2	IR 160504	16 0504 A			0.0						92	64	88	59	120	74	103	29	84	18	87	45					
3	IR 180298	CINDERELLA D4	BF 120060	BV 100557	5.7						94	77	107	79	89	77	93	53	88	53	86	62	88	39	84	57	
4	IR 200015	IR 200015	IR 170162	IR 160110	3.0						115	72	96	73	82	69	91	54	105	45	87	57	98	32	87	52	
5	IR 200046	IR 200046	IR 170160	BV 110605	3.9						99	74	107	67	81	69	82	54	108	48	88	57	101	33	89	52	
6	IR 220265	IR 220265	IR 190385	IR 160310	0.0						112	61	80	63	101	45	107	20	101	25	86	40					
7	IR 230381	IR 230381	IR 200050	IR 160310	0.0						106	61	93	60	101	44	93	19	87	24	82	39					
8	IR 230386	IR 230386		IR 170199	0.0						94	57	96	63	102	40	93	26	96	22	87	39					
9	IR 230391	IR 230391		IR 190396	0.0						103	57	91	63	104	39	100	23	94	24	89	39					
10	IR 230427	IR 230427		IR 180298	0.0						90	57	110	64	93	40	94	26	84	27	88	40	87	20	86	36	
11	IR 230440	IR 230440		JA 140071	0.0						110	59	87	66	100	42	90	30	98	27	82	42	87	20	81	38	
12	IR 240476	IR 240476		IR 190393	0.0						92	56	99	61	94	37	103	22	93	25	89	38					
13	IR 240532	IR 240532		IR 160140	0.0						92	57	96	63	99	39	99	16	98	24	88	38					
14	IR 240553	IR 240553		BV 100532	0.0						98	59	85	67	97	44	125	29	85	30	86	43	74	20	81	38	
15	IR 240576	IR 240576		BV 110614	0.0						114	59	73	67	103	43	132	27	81	30	84	43					
										★★★																	
1	IR 160110	HONEY 4E	CL 040048	BV 070335	0.7						100	73	101	72	99	77	79	55	79	59	75	61	110	52	80	59	
2	IR 170164	FERDA H1	PU 080148	BV 070333	0.0						104	81	81	80	58	80	105	62	125	57	71	66	86	40	71	61	
										★																	
1	BV 120109	GRACE 1D6B1C	BV 080318	BV 070331	11.6				0		87	91	98	90	62	91	88	85	104	86	64	80	85	84	65	81	

Selection List on Cow Value

Bull Calves younger than 2 years

ID Sorted on ID	Name	Sire ID	Dam ID	% Inbreeding	Horned / Polled	Myostatin	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	AAD 250095	YSTER 25-95	GR 190173	AAD 200034	0.9		111 66	104 60	90 48	103 35	122 38	115 45	94 53	110 47	
2	AAD 260001	YSTER 26-01	GR 190173	JA 140097	3.4		128 70	100 63	99 55	86 42	128 42	116 50	112 54	115 51	
1	IR 250002	IR 250002		PU 200085	0.0		110 56	86 61	104 36	107 24	96 24	91 38			
2	IR 250003	IR 250003		IR 210140	0.0		113 53	86 57	104 31	103 18	100 20	92 34			
3	IR 250008	IR 250008		IR 170178	0.0		127 57	78 64	98 41	124 27	95 28	94 41			
4	IR 250010	IR 250010		JA 150060	0.0		104 58	102 66	105 42	88 30	101 28	99 42	100 20	97 38	
5	IR 250011	IR 250011		IR 160153	0.0		99 56	86 63	99 40	116 25	104 25	93 40			
6	IR 250017	IR 250017		IR 220310	0.0		124 50	72 57	102 32	120 19	103 21	91 34			
7	IR 250018	IR 250018		BV 140221	0.0		102 56	83 63	106 38	122 20	96 25	95 38			
1	IR 250020	IR 250020		BV 120085	0.0		102 58	94 64	86 45	103 29	102 31	87 43	82 22	83 39	
2	IR 250032	IR 250032		BV 110601	0.0		110 59	93 64	91 45	109 30	93 29	89 43			
3	IR 250582	IR 250582		IR 190550	0.0		100 54	88 36	100 34	111 24	90 21	86 30			

Selection List on Cow Value
Heifers younger than 2 years

ID Sorted on ID		Name	Sire ID	Dam ID	% Inbreeding	Horned / Polled	Myostatin			Genomic tested	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	IR 250004	IR 250004		IR 210108	0.0						107	54	91	62	101	36	120	18	103	23	104	37				
2	IR 250012	IR 250012		IR 190473	0.0						109	55	92	62	97	39	120	27	103	23	103	39				
3	IR 250029	IR 250029		IR 190488	0.0						95	56	108	63	99	40	99	30	105	27	106	41				
											★★★★☆															
1	IR 250005	IR 250005		IR 190485	0.0						110	56	94	63	100	40	93	30	105	26	94	41				
2	IR 250006	IR 250006		IR 190392	0.0						106	56	86	62	108	38	104	19	103	23	94	38				
3	IR 250014	IR 250014		IR 190396	0.0						105	55	95	63	103	39	97	23	93	24	91	39				
4	IR 250583	IR 250583		IR 210104	0.0						108	55	90	58	100	33	105	20	97	24	91	36				
5	IR 250585	IR 250585		IR 170205	0.0						101	57	95	62	85	40	117	27	108	26	98	40				
6	IR 260056	IR 260056	PU 080148	BV 110614	0.0						106	64	90	64	90	63	112	51	100	52	90	54	100	35	90	50
											★★★★															
1	IR 250596	IR 250596		IR 190393	0.0						97	56	90	61	96	37	107	22	93	25	84	38				

	EBVi	Description / Measurement	Goal	Low Value	High Value
Selection Values	Calving Ease Value	Difficult calving due to high birth weight	Average birth weight	High	Low
	Calf Growth Value	Calf's genetic ability for prewean growth	Heavy weaner	Light	Heavy
	Milk Value	Cow's genetic mothering and milking ability	Enough milk for calf	Less	More
	Maintenance Value	Maintenance requirement of cow (weight and milk)	Low cow maintenance	High	Low
	Fertility Value	Fertility and retention of cows and heifers	Fertile cows	Low	High
	Cow Value	Combination of calving ease, calf growth, milk, maintenance and fertility values (Rand-value per Ha)	Profitable cows	Loss	Profit
	Weaner Calf Value	Heavier weaners and more milk, with lower birth and cow weights	Heavy weaner	Light	Heavy
	Growth Value	Efficient growth on veld and in feedlot (Rand-value per animal)	Profitable growth	Loss	Profit
	Production Value	Combination of Cow- and Growth Values (Rand-value)	Profitable animals	Loss	Profit
	Carcass Value	Meat on carcass (Weight and RTU EBVs)	Meat on carcass	Less	More
Birth	Cow weight - birth	Cow weight at birth of calves	Mature cow weight	Light	Heavy
	Birth weight direct	Birth weight (Calf's genetic ability)	Average birth weight	Heavy	Light
	Cow-Calf birth	EBV Birth dir / EBV Mature cow weight	Average	Low	High
Wean	Cow Weight wean	Cow weight at weaning of calves	Mature cow weight	Light	Heavy
	Weaning weight direct	Weaning weight (Calf's genetic ability)	Heavy weaners	Light	Heavy
	Weaning weight mat	Weaning weight (Dam's genetic ability)	Good mothers	Poor	Good
	Cow-Calf Wean	EBV Wean dir / EBV Mature cow weight	High cow-calf ratio	Low	High
Growth & Adaptation	Post-Wean weight	12- and 18mth weights	Post-wean growth	Low	High
	Ave. Daily Gain	Average daily gain in growth test (Phase C and D)	Good growth	Poor	Good
	Veld Growth	ADG on veld (Phase B)	Good adaptation	Poor	Good
	Feed Conversion Ratio	100g feed intake /g weight gain	Feed Efficiency	Poor	Good
	Final Test Weight	Final weight in growth test (Phase C and D)	Heavy Carcasses	Light	Heavy
	Skin Thickness	Measured in growth tests	Thicker skin	Thin	Thick
Fertility	Scrotal Circumference	Scrotal circumference in growth test	Fertile bulls	Less	More
	Heifer Fertility	Age at first calving	Fertile heifers	Less	More
	Cow Fertility	First 3 inter-calving periods (ICPs)	Fertile cows	Less	More
	Longevity	Retention of progeny	Acceptable progeny	Poor	Good
Frame	Height	Shoulder / Hip height in growth test	Average height	Short	Tall
	Length	Length in growth test	Longer (more meat)	Short	Long
	Length:Height	EBV Length / EBV Height	Longer, not higher	Less desirable	More desirable
Carcass	Eye Muscle Area	RTU Eye muscle area	Muscle in carcass	Small	Big
	Fat	RTU P8 Backfat Thickness	Carcass quality & adaptability	Thin	Thick
	Marbling	RTU % Marbling	Juicy meat	Low	High
	Dressing%	Carcass weight / Live weight	High dressing %	Low	High

Notes on the interpretation of EBVs, EBVi's, sub-values and selection values

EBVi (EBVindex) is the breeding value index and is easier to interpret than the breeding value, especially for commercial farmers buying from stud farmers. The base of a breeding value index is 100, which is the average of all the live animals in the breed, and all values are expressed relative to this value. Values above 100 are always in a more desirable direction: an index of 105 for AFC indicates a genetic potential to calve earlier. Note that a very high index is not always desirable. For certain traits, such as birth weight, average values can be better.

EBV: (Estimated Breeding Value) indicates the genetic potential of the animal for a specific trait. It is presented in the unit of measurement and relative to the average of animals born in the base year (1990 for most breeds and traits). Higher values for certain traits are better while lower values for other traits are better, for example, an EBV of -2 for AFC (age at first calving) indicates that the animal has the genetic potential to calve 2 days earlier than the average heifer in 1990 (the base year). Earlier calving is better and therefore low breeding values (high breeding value indices) are better. For weaning weight, higher values are better.

Sub-values combine similar breeding values in a scientific manner to simplify the selection of animals. For example, AFC (age at first calving) and ICP (inter-calving period) are combined to form the sub-value Fertility by taking the heritability and economic importance in consideration. The sub-value is expressed in an index format, thus an animal with a sub-value of 110 for Fertility will genetically be above average compared to the live animals in the breed.

Selection Values (Cow Value and Growth Value) combine the sub-values into a single value. This gives a quick and easy indication of the combined genetic value of an animal compared to the breed. It is advised to still look at the sub-values to see where the strengths and weaknesses lie.

How to use breeding values to select animals

Selecting animals on breeding values is easy if you know how. There is a common saying that “good nutrition can mask poor breeding”. This is very true. If an animal that is genetically inferior is fed well, it can appear as a great animal. This great performance will not be passed over to future generations. An animal that is genetically superior can appear to be inferior if its environment did not allow it to reach its true potential. It is best to select animals that are most adapted to the environment and can reach their full potential. To continuously adapt the environment to the animal can be expensive.

The reason why the use of breeding values is such a valuable tool is because it “removes” the environmental effect that contributes to the performance.

Scientific methods are used to determine how much of the performance is due to genetics and to identify genetically superior animals. This involves the measurement of animals under controlled environments, complete record keeping and pedigree information. *If performance recording and pedigree information are not done correctly, breeding values of these animals will not be useful.* Keep in mind that breeding is a long-term option: the effect of a bull selected/bought today will only show much later. If it is a good decision, his daughters will become part of the breeding herd and contribute to overall profitability in future.

Even if a bull is not perfect in all aspects, knowing the shortcomings will allow strategic selection with suitable cows. Traits are genetically correlated, meaning that a change in one trait can lead to a change in another. This change can be favourable or unfavourable. An increase in weaning weight can lead to an increase in birth weight, which can lead to calving difficulty. It is therefore advisable to not only select on a single trait. Take other traits in consideration to avoid negative effects.

How to improve the herd genetically

The first and most important aspect is to know what type of animal will improve the herd genetically. This can be determined through the following factors:

What happens to the calves? For example: used as replacement heifers, sold as stud animals or sold to commercial breeders who sell weaner calves.

How much feed is available? The availability of feed (or the hardness of the environment) determines the optimal frame size. If feed is abundant and the environment is less harsh, larger animals would be ideal. If not, medium framed animals would be ideal.

What is the genetics of the cow herd? Are they the wrong frame type, grow too slowly, do not have enough milk, etc.? Always aim to breed a calf that is superior to its dam.

Conclusion

Different types of bulls are suitable for different types of cows, environments and breeding objectives. Inbreeding should be avoided or limited as much as possible. Mating programs are available to aid in the pairing of bulls and cows.

The data used for this evaluation is pedigree information and performance data found on LOGIX as provided by breeders. All attempts are made to present accurate information. SA Stud Book takes no responsibility for the use and interpretation of information presented in this report.

