

DRAKENSBERGER

GENOMIC BREEDING VALUE REPORT

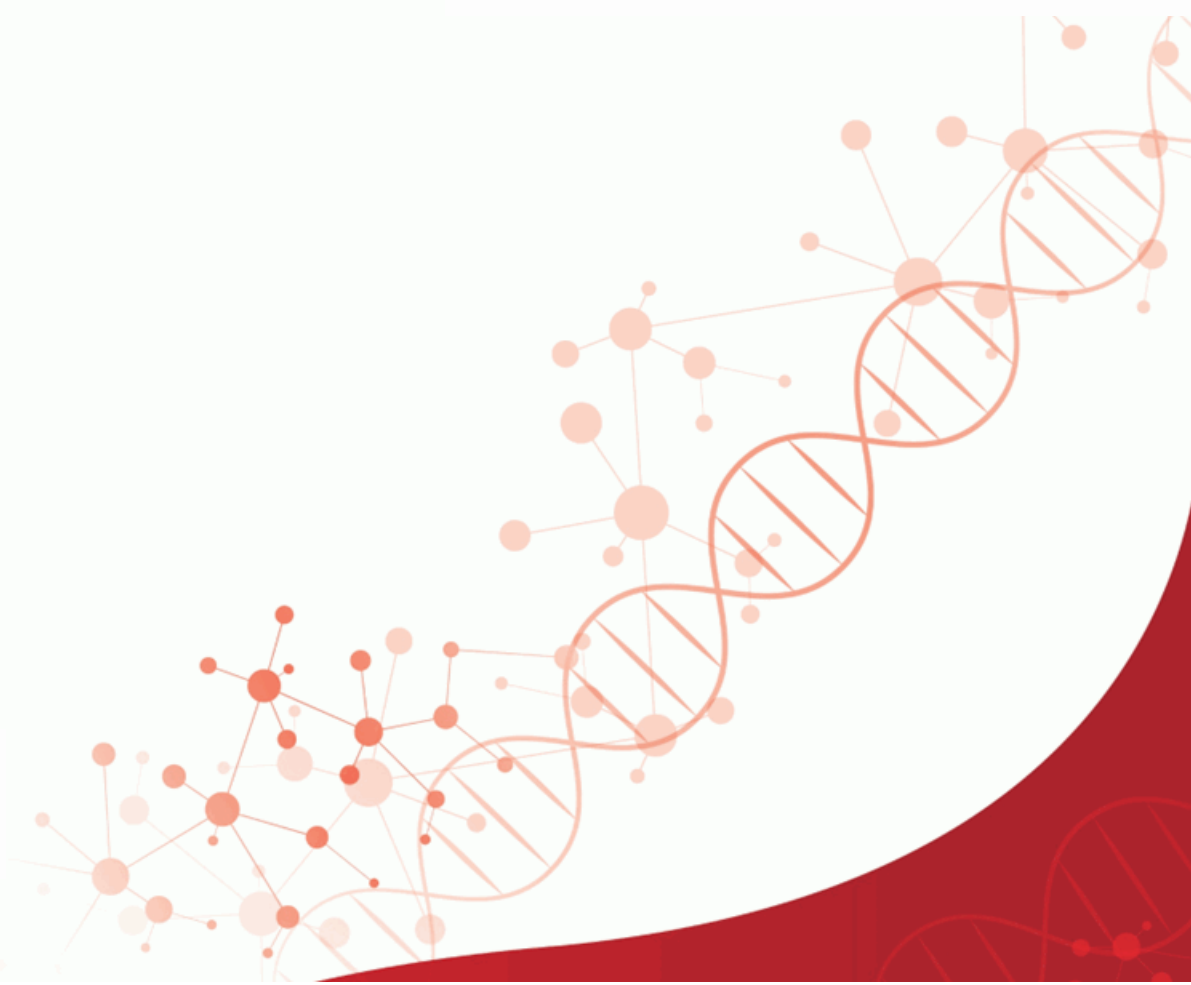
September 2026



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EBVs, EBVi's and GEBVs

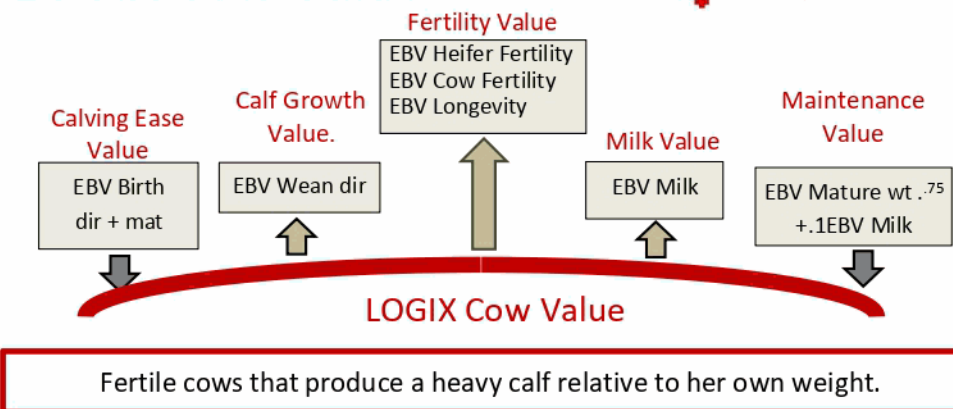
EBVi (Breeding Value Index): Genetic potential relative to the average (100) of the live (active) animals in the breed. Roughly 50% of the animals have values between 90 and 110. Values above 100, depending on the trait, tend to be in the more favourable direction.

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)

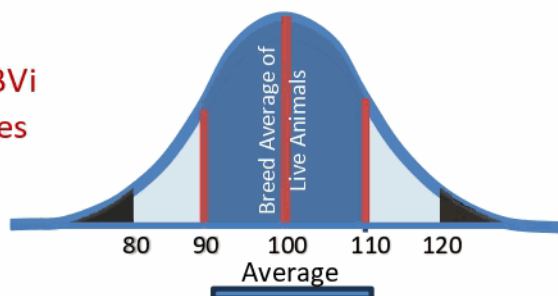
- WeanerCalf / Growth Value > 120
 - Cow Value and Fertility Value average to high
- Growers are usually heavier at birth (lower Calving Ease Value), and maturity (lower Maintenance Value).

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

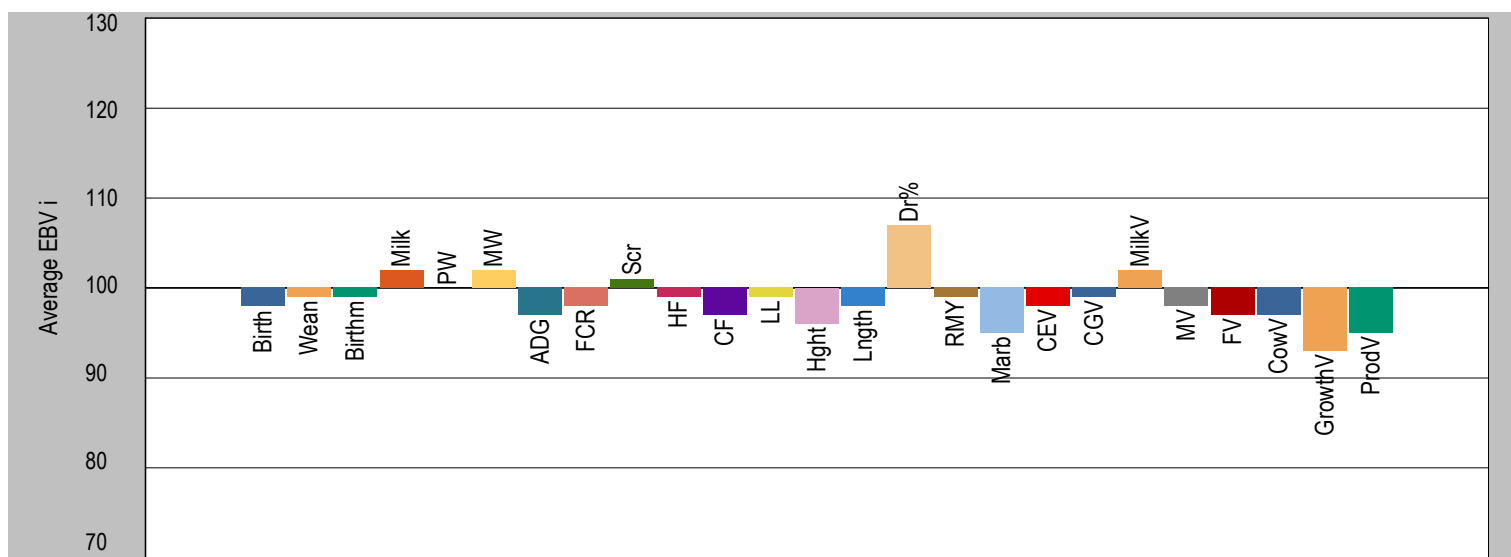
Larger groups result in more accurate and stable breeding values, as the mean and distribution of the group can be more accurately determined and are thus more representative. Groups should preferably have more than 5 animals. Weigh all the animals in the same group on the same day, as corrections for 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	0.29	98	0.10
	Wean Weight	9.9	99	10.5
	Birth Mat.	0.22	99	0.17
	Milk (Wn.Mat.)	4.0	102	3.3
Postwean Growth	Postwean Wt	19.6	100	19.8
	Mature Weight	13	102	11
	ADG	61	97	71
	FCR	-47	98	-50
Fertility	Scrotal Circumf.	12.0	101	11.3
	Heifer Fertility	-1.2	99	-2.3
	Cow Fertility	-1.0	97	-1.7
	Longevity	24.0	99	24.7
Frame	Height	-3	96	-1
	Length	10	98	12
Carcass	EMA	1.27	108	0.48
	Fat	-1.07	89	-0.20
	Marbling	-0.13	95	0.16

Selection Value	Ave. Herd
Calving Ease	98
Calf Growth	99
Milk	102
Maintenance	98
Fertility	97
Cow Value	97
Growth Value	93
Production Value	95
Carcass Value	99

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

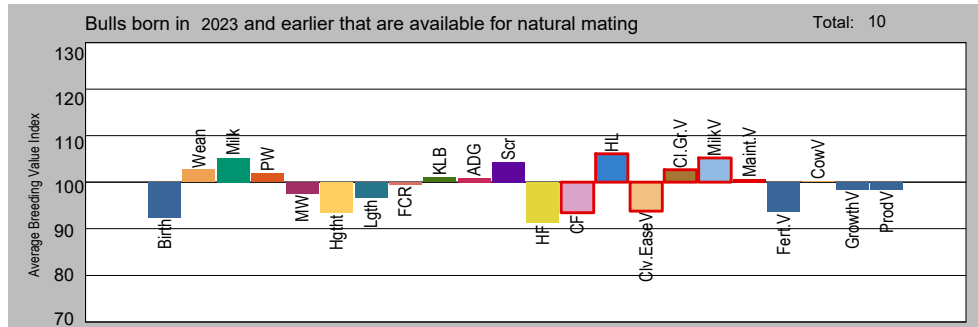
What does a sub-selection value above breed average (100) mean?:

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

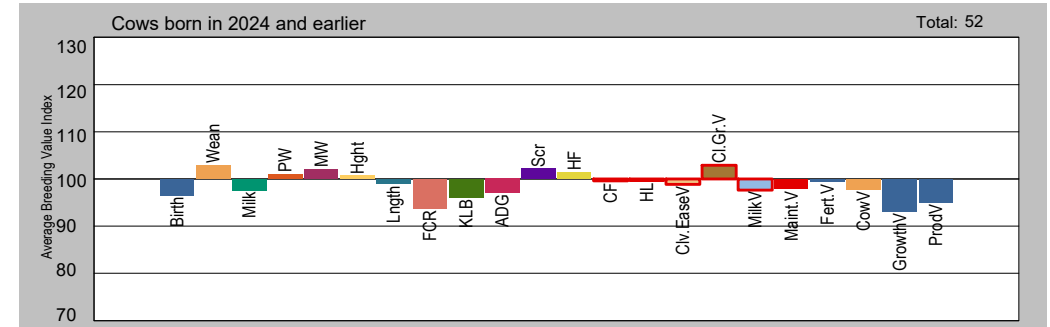
Genetic Windows

Animals available for breeding

Bulls on the farm

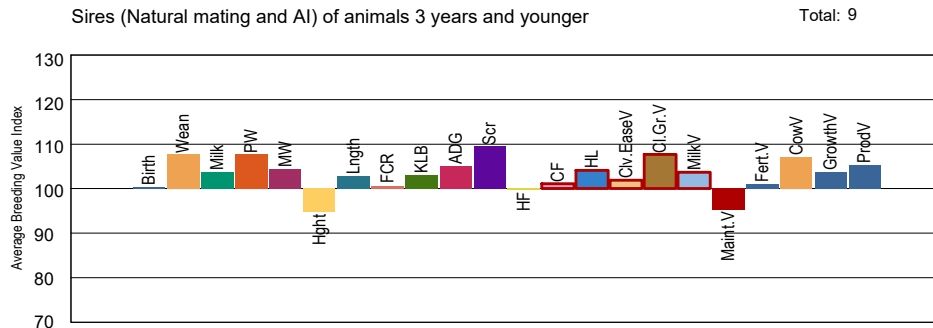


Cow Herd

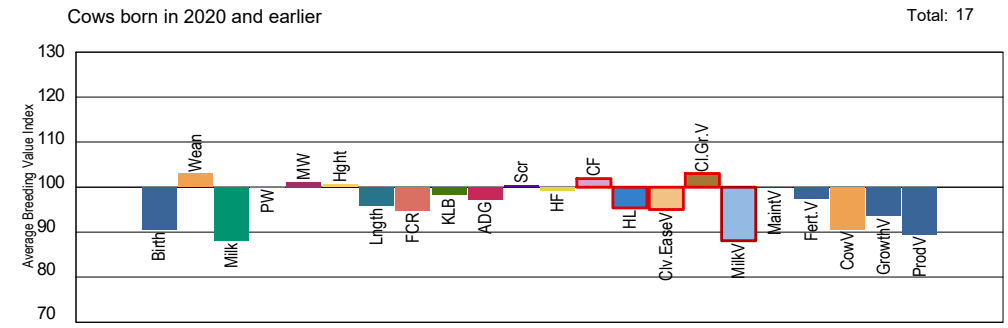


Results of previous selection decisions

Sires of young animals

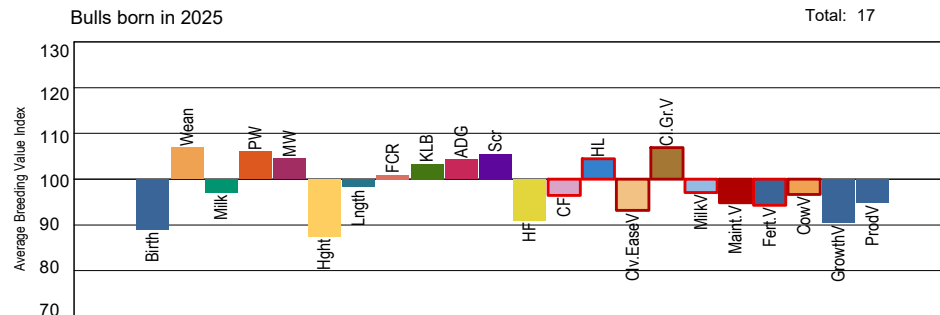


Cows older than 6 years

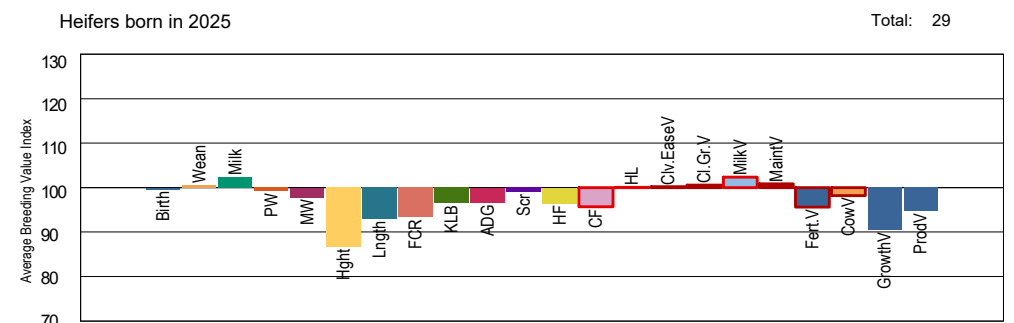


Selection possibilities

Bull calves



Heifer calves

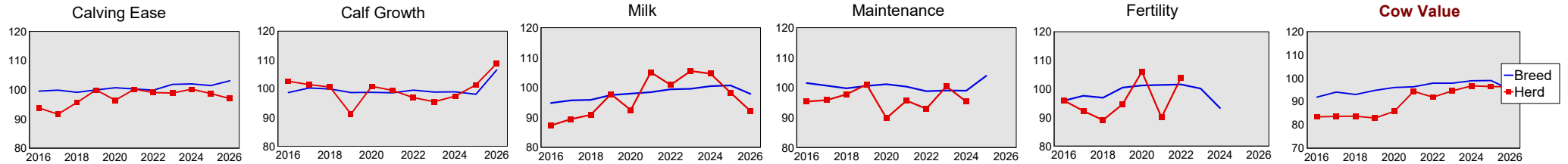


Summary of Cow Herd

			Selection Values (SV)								Calf Weight		Dam		Growth & Efficiency				Fertiity				Frame	
Birth Year	No. Cows	Average Cow Value	Calving Ease	Calf Grwth	Milk	Maint.	Fertility	Cow Value	Growth Value	Prod Value	Birth Weight	Wean Weight	Birth Mat.	Milk (Wn.Mat)	Postwn Weight	Mature Weight	ADG	Kleiber	Scrotal Circumf.	Heifer Fertility	Cow Fertility	Longevity	Height	Length
			Cows in Breed Average:								100	100	100	100	100	100	99	100	99	100	100	100	100	100
2014	5	★★★★	80	101	108	94	95	95	92	93	89	101	80	108	99	107	95	94	100	97	101	93	105	100
2015	3	★★★★	113	90	96	97	102	92	91	90	105	90	117	96	88	102	96	98	93	102	97	97	97	94
2016	3	★★★★☆	86	101	107	96	106	100	93	98	91	101	85	107	100	104	92	89	96	110	110	94	101	98
2017	8	★★★★☆	99	95	91	102	99	89	90	89	98	95	106	91	96	100	93	95	95	103	101	91	99	92
2018	4	★★★★☆	85	102	99	95	85	88	97	88	87	102	93	99	98	105	101	99	105	87	93	96	112	106
2019	7	★★★★	96	91	100	102	100	91	87	86	98	91	95	100	90	97	92	92	93	106	95	96	102	95
2020	7	★★★★	100	95	101	96	102	94	97	93	97	95	107	101	98	105	100	100	108	98	108	98	99	98
2021	10	★★★★☆	103	89	110	95	98	109	99	106	104	89	99	110	96	103	97	93	108	99	96	96	109	105
2022	16	★★★★	104	90	103	92	102	96	96	96	101	90	103	103	101	108	98	98	109	103	105	93	96	97
2023	18	★★★★	103	93	106	102	96	97	91	96	102	93	100	106	94	98	94	94	103	99	96	96	96	94
2024	19	★★★★☆	100	104	101	96	101	102	92	99	103	104	94	101	103	103	96	92	97	105	96	102	104	103
2025	29	★★★★	100	101	102	101	96	98	90	95	100	101	100	102	99	98	97	97	99	96	96	100	87	93
2026	4	★★★★	102	108	91	97	92	94	93	92	101	108	102	91	104	102	101	102	106	89	94	100	78	93
Cows in Herd Average:			98	97	101	97	98	96	93	94	98	97	99	101	97	102	96	96	101	100	99	96	99	98

Genetic Trends for On-Farm Traits

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



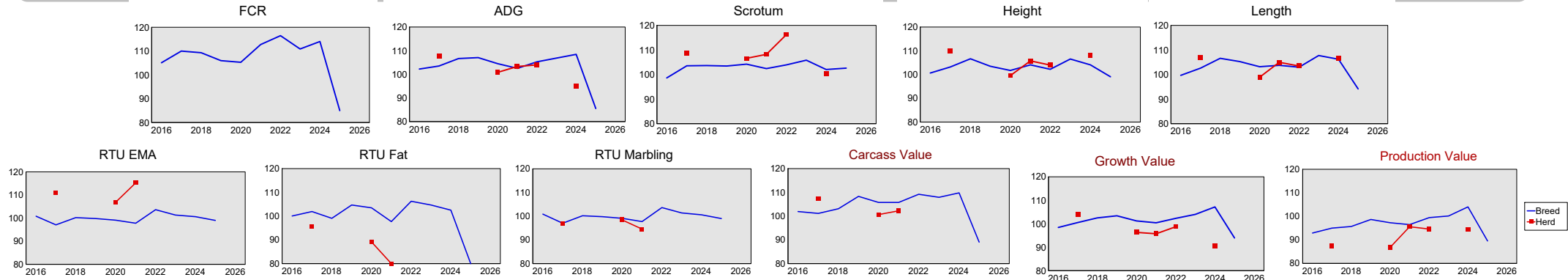
Herd

Birth Year	Calving Ease				Calf Growth			Milk			Maintenance					Fertility							Cow Value
	Birth Weight		Mat EBV	Calv. Ease	Weaning Weight		Calf Growth	Milk (Wn.Mat.)		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	62	1.12	-0.12	94	62	11.9	103	62	-0.93	87	31	20.1	11	16	95	9	-2.8	6	-2.1	66	14.9	96	84
2017	67	1.31	-0.10	92	79	11.3	101	79	-0.27	89	50	20.6	18	16	96	19	-0.5	14	-2.2	83	14.7	92	84
2018	73	1.05	-0.17	96	71	10.9	101	71	0.24	91	43	19.2	11	13	98	14	2.4	5	-1.8	82	16.3	89	84
2019	72	0.04	0.20	100	62	5.9	91	62	2.56	98	22	14.1	8	9	101	8	-0.8	3	-0.6	80	15.7	95	83
2020	81	1.00	-0.21	96	79	11.0	101	79	0.78	92	35	22.3	4	17	90	3	-8.0	2	-4.5	88	17.2	106	86
2021	67	0.33	0.00	100	63	10.2	99	63	5.04	105	26	21.6	4	15	96	3	4.5	1	-0.2	71	19.8	90	94
2022	75	0.45	0.03	99	64	8.9	97	64	3.62	101	23	18.9	6	19	93	4	-4.4			9	16.4	104	92
2023	48	0.25	0.19	99	53	8.1	95	53	5.18	105	26	18.1	1	12	100								95
2024	62	-0.31	0.42	100	56	9.2	97	56	4.91	105	30	20.6			95								97
2025	66	0.53	-0.01	99	63	11.3	101	63	2.74	98													97
2026	7	0.67	-0.04	97	5	15.1	109	5	0.74	92													96

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		Mainte-nance	Heifer Fert.		Cow Fert.		Longevity		Ferti-lity	
	Number	Dir EBV			Number	EBV		Number	EBV		Number	EBV	Number	EBV		Number	EBV	Number	EBV	Number	EBV		
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				13	101	108	13	16.1	109	13	6	110	13	19	107	13	1.59	111	-0.56	96	-0.03	97	107	104	87
2018																									
2019																									
2020				17	75	101	17	14.9	107	17	-1	100	17	11	99	17	1.20	107	-1.09	89	0.07	98	101	96	87
2021				14	84	103	14	15.7	108	14	3	106	14	17	105	14	2.06	115	-1.91	79	-0.16	95	102	96	96
2022				11	87	104	11	20.1	116	11	2	104	11	16	104									99	95
2023																									
2024				13	51	95	13	11.4	100	13	5	108	13	19	107									91	94
2025																									
2026																									

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	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.	Calf	Milk	Maint.	Fertility	Cow	Growth	Prod	Birth	Wean	Birth	Wean	Post wn	Mature	ADG	FCR	Scrotal	Heifer	Cow	Long-evi	Height	Length	EMA	Fat	Marbling	Birth	Wean
				Value	Value	Value	Value	Value	Value	Value	Dir	Dir	Mat.	Mat.	wt	weight					Fertility	Fertility	ty							Grwth
BH 170027		HN 130186	BH 140402	113	98	127	106	86	112	94	107	113	98	100	127	100	91	100	98	118	86	88	102	90	97	119	49	83	102	102
ANKER				96	97	94	91	93	85	92	86	-1.23	9.5	0.19	12.3	19.5	2	73	-47	20.9	8.4	1.0	25.7	-7	9	2.44	-4.41	-0.85	21	16
FD 160081		BF 080116	FD 100045	84	112	114	97	90	105	131	110	99	112	71	114	119	100	126	113	95	87	86	113	111	119	113	107	66	39	34
SOUS				93	94	90	86	88	82	87	83	0.17	16.6	1.54	8.2	35.2	11	173	-73	8.5	7.9	1.4	31.3	6	30	1.88	0.39	-1.85	13	16
FD 200011		GR 150239	FD 170024	88	119	86	97	90	98	101	97	79	119	114	86	114	102	112	111	109	80	93	115	56	90	133	108	91	50	46
GEORGE				92	94	86	83	85	80	85	81	2.21	20.4	-0.48	-1.5	30.6	14	118	-68	16.2	12.6	-0.2	32.4	-30	3	3.93	0.47	-0.39	2	
FD 210042		FD 160081	FD 140071	80	109	111	112	86	106	126	109	92	109	76	111	113	88	112	104	92	83	85	110	93	102	104	94	69	4	4
BRUNOU				87	88	84	81	83	77	82	78	0.87	15.4	1.30	7.1	30.4	0	117	-56	7.1	10.5	1.7	29.9	-5	14	0.95	-0.66	-1.64		
GR 150239		GR 110313	GR 110145	109	117	73	114	92	106	124	109	103	117	111	73	120	88	128	112	95	83	100	109	91	118	150	141	76	91	80
313 OKTOBER				97	98	97	94	95	87	95	89	-0.22	19.4	-0.32	-5.9	35.8	0	183	-70	8.6	10.4	-1.7	29.0	-7	29	5.67	3.22	-1.25	29	54
LL 210016		HN 130066	LL 110020	112	101	98	94	102	100	88	96	120	101	86	98	101	105	92	94	102	109	92	103	107	110	99	114	117	21	20
TARKA				90	92	86	83	84	79	84	80	-1.97	10.8	0.84	2.8	21.0	16	41	-39	12.4	-9.1	0.0	26.0	4	21	0.42	0.93	1.17	8	
LL 210030		HN 160096	LL 180034	108	125	116	81	118	136	121	134	119	125	80	116	126	120	121	110	105	117	109	112	123	133	128	111	99	10	9
TAT				87	89	84	81	82	77	80	78	-1.86	23.6	1.12	8.7	40.6	31	152	-67	14.2	-15.1	-3.5	30.7	14	43	3.43	0.71	0.08	2	
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	65	59
PU 100057		PU 060260	PU 020088	96	113	69	80	100	81	119	87	83	113	121	69	115	127	118	107	97	103	117	79	103	103	129	99	83	176	181
PUM1057				97	98	95	91	92	86	88	86	1.83	17.6	-0.81	-7.1	31.6	37	142	-61	9.8	-4.7	-5.4	14.1	2	15	3.50	-0.24	-0.86	31	45
PU 120091		BMR 080122	PU 080233	83	123	70	97	73	81	112	85	59	123	129	70	116	105	111	107	113	80	95	71	112	108	102	102	102	77	80
PU120091				91	95	87	63	72	75	48	70	4.27	22.7	-1.17	-6.8	32.2	16	115	-63	18.1	13.0	-0.6	10.3	7	20	0.71	-0.01	0.30	9	19
PU 150184		BF 090026	PU 110244	109	103	82	97	76	78	93	78	98	103	119	82	96	103	99	106	97	81	90	83	113	107	109	88	78	48	48
PU 150184				91	94	87	81	84	80	82	80	0.34	12.1	-0.71	-2.9	16.6	14	68	-59	9.9	12.1	0.6	16.3	8	19	1.37	-1.18	-1.12	4	7

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.	
	Name																													
QH 100038		RJ 030489 QH 050082	72	112	113	75	117	104	96	101	80	112	83	113	110	129	109	104	116	111	115	111	110	113	119	84	106	2	4	
QH 100038			79	81	79	42	58	62	50	60	2.13	16.8	0.96	7.6	28.0	39	106	-57	20.1	-10.4	-4.8	30.4	6	25	2.44	-1.49	0.50		6	35
QH 100043		RJ 030489 QH 060028	85	106	92	91	95	87	84	84	89	106	92	92	101	109	95	98	123	98	102	92	107	102	97	93	108	12	16	
QH 100043			84	87	79	49	62	67	52	64	1.22	13.9	0.57	0.7	20.3	20	52	-46	23.5	-0.9	-2.0	20.7	4	14	0.18	-0.80	0.60	3	5	29
QH 100070		JA 030071 QH 020010	104	94	83	99	82	72	80	71	116	94	77	83	93	101	100	101	89	83	104	77	96	98	92	102	94	3	5	
QH 100070			77	82	70	44	57	61	58	60	-1.55	7.5	1.23	-2.5	14.7	12	72	-51	5.5	10.4	-2.6	13.1	-3	11	-0.35	-0.07	-0.19	1	2	9
QH 140004		PU 100057 QH 110119	118	83	73	106	97	72	82	71	108	83	133	73	78	95	87	84	89	103	101	89	85	74	96	89	79	2	2	
1404			72	74	68	48	52	58	40	54	-0.67	1.6	-1.34	-5.9	2.8	6	19	-21	5.4	-4.7	-1.9	19.0	-10	-12	0.06	-1.10	-1.08		2	10
QH 150013		PU 100057 QH 100042	91	101	61	102	89	68	103	72	80	101	118	61	102	99	103	97	95	90	104	86	95	92	106	99	87	17	18	
QH 150013			81	87	72	51	62	65	47	61	2.16	11.0	-0.64	-9.8	21.3	10	84	-44	8.7	5.0	-2.5	17.5	-4	5	1.07	-0.29	-0.61		5	12
QH 170035		PU 120091 QH 110021	82	118	68	81	90	76	96	77	58	118	131	68	106	125	99	102	93	91	109	82	84	89	105	91	89	21	18	
QH 170035			80	87	66	45	57	62	47	59	4.36	19.9	-1.25	-7.3	24.4	35	67	-54	7.8	4.3	-3.6	15.4	-11	1	0.97	-0.93	-0.50	4	2	3
QH 170058		PU 100057 QH 110064	92	116	89	80	106	98	114	100	83	116	114	89	117	125	116	110	142	102	124	88	96	104	122	87	114	61	54	
QH 170058			93	95	90	87	89	83	88	84	1.83	19.1	-0.48	-0.5	33.1	35	133	-67	33.9	-4.1	-6.9	18.5	-3	16	2.77	-1.25	0.97	14	7	11
QH 180059		PU 120091 QH 140075	80	121	97	83	94	98	112	100	64	121	118	97	116	120	117	109	140	93	101	97	130	126	129	87	117	16	16	
QH 180059			78	85	65	33	50	58	37	54	3.82	21.5	-0.65	2.2	32.3	30	139	-65	32.6	3.2	-1.9	23.3	19	37	3.47	-1.23	1.15	3	2	3
QH 200033		QH 170058 QH 150140	87	101	90	91	109	89	95	88	77	101	115	90	99	109	98	96	107	108	109	102	85	86	109	75	97	8	6	
2033			70	78	55	28	46	52	41	50	2.41	11.1	-0.51	-0.1	19.1	20	65	-43	15.0	-8.7	-3.5	25.7	-11	-2	1.42	-2.29	0.00			
QH 210018		BH 170027 QH 160056	110	101	111	95	100	107	109	106	98	101	119	111	100	103	100	86	100	102	97	103	114	113	118	68	99	4	6	
2018			71	79	59	42	52	56	43	53	0.27	11.3	-0.73	7.1	20.0	14	70	-26	11.3	-3.6	-1.0	26.2	8	25	2.32	-2.83	0.12	1		
QH 210056		BH 170027 QH 160001	127	99	105	102	112	118	85	111	122	99	109	105	99	96	95	97	110	110	113	102	89	90	112	53	91	15	15	
QH210056			89	91	86	82	84	79	84	80	-2.20	10.2	-0.25	5.1	18.8	7	50	-45	16.8	-9.7	-4.5	25.7	-8	3	1.70	-4.09	-0.37			
											92	91	85	86	84	82	85	80	87	82	81	85	87	87	85	84	84			

Growth Tests

Animal					Weight		Frame				Growth					Carcass			
Test Code	Sex	Test no	Sire ID	Cow	Wean	End-	Length	Height	Length/	Scrotum	Intake	ADG	FCR	Growth	EMA	Fat	Marbling	Carcass	
Test station		ID	Dam ID	Value	dir	weight			Height					Value				Value	
202501 D11 M		0565663DRB																	
FOSTER		QH 240017 97711089	QH 140077	88	90	91	91	91	98	83	111	91	92	70	102	83	93	89	
				39	61	10	4	-7	1.14	2.1	0.07	37	-35	7	0.72	-1.63	-0.23	17	
					91	95	100	111	82	121		87							
		QH 240021 97711147	QH 210114		55	13	13	7	1.10	22.5		19							
					64	65	64	69	66	66		54							
		QH 240033 97898019	LL 210030 QH 150215	106	94	109	118	115	108	84	91	99	86	102	112	96	92	108	
				45	68	26	30	10	1.16	3.0	0.45	67	-26	36	1.73	-0.53	-0.29	8	
					65	67	65	70	68	68	6	57	6		9	8	8		
		QH 240037 97898050	LL 210016 QH 160113	90	94	92	104	106	98	80	106	81	68	92	97	97	103	93	
				47	69	11	16	3	1.14	0.8	0.16	-5	6	36	0.14	-0.45	0.31	10	
					68	68	68	71	70	70	5	59	5		11	10	10		
		QH 240039 97908602	LL 210016 QH 180131	95	101	103	108	109	100	103	103	94	90	91	106	99	105	103	
				44	66	21	20	6	1.14	12.7	0.21	48	-32	36	1.15	-0.30	0.47	10	
					68	68	68	71	70	70	5	59	5		11	10	10		
		QH 240041 97898084	LL 210016 QH 140092	99	99	103	113	118	94	110	104	94	91	87	98	101	107	96	
				48	70	21	25	12	1.13	16.5	0.20	49	-34	36	0.32	-0.12	0.58	10	
					68	68	68	71	70	70	5	59	5		11	10	10		
		QH 240049 97898167	LL 210016 QH 150135	98	96	103	107	113	91	115	105	97	97	92	101	102	115	99	
				48	71	21	18	8	1.12	19.1	0.18	61	-44	39	0.56	-0.07	1.04	18	
					69	70	69	73	71	71	8	61	8		19	17	17		
		QH 240053 97898191	LL 210016 QH 160101	102	104	110	117	117	103	105	102	100	99	88	105	108	109	105	
				47	69	27	28	11	1.15	14.0	0.23	73	-48	36	0.97	0.42	0.72	10	
					68	68	68	71	70	70	5	59	5		11	10	10		
		QH 240054 97898209	LL 210016 QH 150160	96	100	103	108	109	101	102	105	98	98	88	102	99	107	98	
				49	71	20	20	5	1.14	12.2	0.17	62	-46	38	0.70	-0.31	0.58	23	
					69	70	69	73	71	71	7	62	7		24	22	21		
		QH 240056 97898225	LL 210030 QH 170130	104	111	106	109	109	102	81	99	102	99	92	111	97	92	106	
				44	67	24	21	6	1.14	1.4	0.30	78	-47	36	1.64	-0.45	-0.29	8	
					65	67	65	70	68	68	6	57	6		9	8	8		
		QH 240057 97898233	LL 210016 QH 170048	97	111	100	98	94	108	102	108	94	95	93	103	105	111	105	
				50	71	18	11	-5	1.16	12.4	0.12	48	-40	40	0.76	0.25	0.78	21	
					69	70	69	73	71	71	10	62	10		22	20	20		
		QH 240060 97921449	LL 210016 QH 140139	94	109	103	103	97	111	119	105	94	91	92	106	102	113	106	
				48	71	20	15	-3	1.17	21.6	0.18	47	-34	40	1.07	0.00	0.94	19	
					69	70	69	73	71	71	9	61	9		20	18	17		
		QH 240061 97921431	QH 210018 QH 190037	98	105	108	112	117	95	99	92	103	95	102	113	78	98	104	
				44	68	25	24	11	1.13	10.6	0.42	83	-40	38	1.88	-2.04	0.07	32	
					68	69	68	72	70	70	7	59	7		34	31	30		

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
FD 200011 90826728 GEORGE	1	GR 150239 FD 170024		88 92	119 94	86 86	97 83	90 85	98 80	101 85	97 81	115 86	79 2.21 95	114 -0.48 86	102 14 83	119 20.4 94	86 -1.5 86	102 69 88	114 30.6 86	112 118 86	111 -68 82	109 16.2 88	80 12.6 84	93 -0.2 82	115 32.4 86	56 -30 89	90 3 88	133 3.93 87	108 0.47 86	91 -0.39 85
FD 210042 92289909 BRUNOU	20	FD 160081 FD 140071		80 87	109 88	111 84	112 81	86 83	106 77	126 82	109 78	110 84	92 0.87 89	76 1.30 84	88 0 81	109 15.4 88	111 7.1 84	123 124 84	113 30.4 84	112 117 85	104 -56 79	92 7.1 87	83 10.5 82	85 1.7 80	110 29.9 84	93 -5 87	102 14 86	104 0.95 85	94 -0.66 84	69 -1.64 84
QH 230022 96224779 QH230022		BH 170027 QH 150160		97 67	109 72	107 59	98 35	95 43	106 51	97 32	103 47	103 47	93 0.85 74	106 -0.10 56	100 11 35	109 15.3 72	107 5.7 59	113 100 55	107 25.3 64	103 83 50	99 -48 11	111 17.3 53	95 1.7 42	94 -0.3 24	105 27.3 52	99 -1 54	103 15 53	117 2.24 48	67 -2.93 46	92 -0.29 46
QH 230026 96224795 QH230026	1	BH 170027 QH 160024		91 68	104 73	107 58	107 38	91 44	102 52	97 32	100 48	100 46	89 1.26 75	103 0.02 55	91 3 38	104 12.8 73	107 5.7 58	113 99 56	101 20.4 65	103 83 49	102 -52 12	113 18.3 52	88 7.1 46	92 0.2 25	109 29.1 54	101 0 52	102 14 51	109 1.46 47	74 -2.35 45	90 -0.43 45
QH 230030 96224829 QH230030		BH 170027 QH 150036		116 86	93 87	113 84	99 81	83 82	94 76	90 81	91 77	93 82	113 -1.22 87	106 -0.08 83	98 9 81	93 6.8 87	113 7.7 84	105 79 84	97 17.5 84	98 63 82	100 -50 79	107 14.8 83	88 7.0 82	79 3.0 80	102 25.7 83	89 -8 83	90 3 83	103 0.76 82	83 -1.58 82	92 -0.31 82
QH 230048 96980560 QH230048		QH 140142		69 56	95 63	105 42							74 2.73 67	89 0.70 38		95 7.7 63	105 4.9 42		88 10.0 50	85 12 14		91 6.6 17			96 22.5 32	104 2 18	95 8 17			
QH 230050 96739735 QH230050	2	BH 170027 QH 150135		100 83	110 86	115 83	92 80	100 81	113 75	104 80	111 76	109 81	103 -0.21 83	95 0.42 82	106 17 80	110 15.9 86	115 8.4 83	119 114 83	114 31.0 84	114 125 81	110 -68 78	115 19.5 82	95 1.4 80	107 -3.2 79	101 25.4 82	112 7 82	112 23 82	129 3.48 81	68 -2.86 81	106 0.52 81
QH 230060 96147228 QH230060		QH 200033 QH 150215		104 48	91 67	103 48	101 16	107 28	97 40	87 22	93 36	91 30	97 0.38 52	110 -0.30 42	97 8 16	91 5.9 67	103 4.4 48	95 53 44	90 12.2 54	91 34 34	84 -22 6	94 8.2 40	110 -9.5 19	97 -1.0 10	110 29.7 41	96 -3 41	93 5 38	103 0.83 32	78 -2.00 29	92 -0.29 28
QH 230070 96224373 QH230070	1	BH 170027 QH 130064		103 68	97 73	115 59	104 38	86 43	99 52	92 32	96 48	93 44	106 -0.55 75	94 0.47 57	93 5 38	97 8.8 73	115 8.5 59	113 99 57	97 17.6 64	95 53 49	93 -37 14	111 17.4 51	85 9.2 42	87 1.2 25	105 27.3 54	96 -4 52	95 7 51	104 0.88 45	73 -2.45 43	92 -0.30 43
QH 230071 96224381 QH230071	4	QH 200033 QH 170019		90 63	100 69	90 48	96 30	104 34	87 46	92 24	86 42	92 34	79 2.30 73	118 -0.66 45	103 15 30	100 10.3 69	90 -0.1 48	88 35 49	98 18.0 58	96 56 38	93 -38 7	100 11.5 43	97 0.2 31	107 -3.3 18	108 28.7 44	88 -9 44	85 -2 42	105 1.03 35	83 -1.62 32	95 -0.11 31
QH 240017 97711089 QH240017		QH 140077		87 57	90 61	112 42	97 15	100 32	88 39	70 36	82 38	89 17	90 1.15 67	93 0.49 39	100 11 15	90 5.2 61	112 7.4 42	101 67 39	87 9.3 40	91 37 56	92 -35 7	83 2.1 68	114 -13.0 18	93 -0.1 10	91 19.9 33	91 -7 70	91 4 66	102 0.72 18	83 -1.63 16	93 -0.23 16
QH 240021 97711147 QH240021		QH 210114		92 46	91 55	109 24							96 0.51 62	91 0.58 20		91 5.8 55	109 6.4 24		85 8.3 26	87 19 54		121 22.5 66		85 17.1 12	111 7 69	100 13 64				

Breeding Values and Accuracies: Bulls

Inbreeding in red is high

Value <80 Value >120

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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																													
QH 240033 97898019 QH240033		LL 210030 QH 150215	98 61	94 68	118 50	97 23	109 38	106 45	102 36	104 43	108 8	143 -4.33 71	86 0.83 45	100 11 23	94 7.5 68	118 9.5 50	111 92 47	98 18.2 47	99 67 57	86 -26 6	84 3.0 68	115 -13.3 27	96 -0.9 16	108 28.7 40	115 10 70	118 30 65	112 1.73 9	96 -0.53 8	92 -0.29 8
QH 240037 97898050 QH240037		LL 210016 QH 160113	99 63	94 69	101 52	99 26	97 39	90 47	92 36	88 45	93 10	107 -0.58 72	85 0.88 47	98 10 26	94 7.4 69	101 3.7 52	95 53 49	92 13.6 47	81 -5 59	68 6 5	80 0.8 70	106 -7.1 26	87 1.1 17	99 24.2 42	106 3 71	104 16 68	97 0.14 11	97 -0.45 10	103 0.31 10
QH 240039 97908602 QH240039		LL 210016 QH 180131	99 60	101 66	108 47	92 26	94 38	95 44	91 36	93 42	103 10	103 -0.20 70	91 0.58 43	106 17 26	101 11.1 66	108 6.0 47	105 77 46	100 19.6 46	94 48 59	90 -32 5	103 12.7 70	103 -4.6 26	90 0.6 17	94 21.7 39	109 6 71	108 20 68	106 1.15 11	99 -0.30 10	105 0.47 10
QH 240041 97898084 QH240041		LL 210016 QH 140092	100 64	99 70	102 53	99 27	102 40	99 48	87 36	95 46	96 10	106 -0.52 73	88 0.71 50	99 10 27	99 10.0 70	102 4.0 53	100 66 50	97 17.6 50	94 49 59	91 -34 5	110 16.5 70	109 -9.2 28	95 -0.6 17	101 25.0 43	118 12 71	113 25 68	98 0.32 11	101 -0.12 10	107 0.58 10
QH 240049 97898167 QH240049	1	LL 210016 QH 150135	109 62	96 71	108 53	93 28	100 40	98 48	92 39	95 46	99 18	118 -1.75 72	84 0.94 46	105 16 28	96 8.5 71	108 6.0 53	101 68 51	99 18.9 51	97 61 61	97 -44 8	115 19.1 71	103 -4.8 28	97 -1.0 19	100 24.7 44	113 8 73	107 18 69	101 0.56 19	102 -0.07 17	115 1.04 17
QH 240053 97898191 QH240053		LL 210016 QH 160101	89 63	104 69	117 51	86 26	102 39	102 47	88 36	97 45	105 10	105 -0.42 72	61 1.99 47	114 24 26	104 12.6 69	117 9.2 51	112 97 49	106 24.7 48	100 73 59	99 -48 5	105 14.0 70	107 -7.8 26	95 -0.7 17	101 25.2 42	117 11 71	117 28 68	105 0.97 11	108 0.42 10	109 0.72 10
QH 240054 97898209 QH240054	1	LL 210016 QH 150160	105 64	100 71	94 53	97 31	101 42	96 49	88 38	92 47	98 23	105 -0.42 73	100 0.16 49	102 13 31	100 10.6 71	94 1.3 53	93 47 52	99 19.3 53	98 62 62	98 -46 7	102 12.2 71	109 -8.9 33	94 -0.4 20	99 24.4 46	109 5 73	108 20 69	102 0.70 24	99 -0.31 22	107 0.58 21
QH 240056 97898225 QH240056		LL 210030 QH 170130	73 59	111 67	111 47	91 22	104 37	104 44	92 36	101 42	106 8	86 1.54 69	75 1.33 41	107 18 22	111 16.5 67	111 7.0 47	116 106 45	108 26.3 44	102 78 57	99 -47 6	81 1.4 68	111 -10.3 25	95 -0.6 16	103 26.3 38	109 6 70	109 21 65	111 1.64 9	97 -0.45 8	92 -0.29 8
QH 240057 97898233 QH240057	1	LL 210016 QH 170048	102 64	111 71	88 52	94 35	96 45	97 50	93 40	95 48	105 21	101 0.01 74	101 0.13 48	105 16 35	111 16.1 71	88 -0.7 52	96 54 53	107 25.2 56	94 48 62	95 -40 10	102 12.4 71	96 0.7 38	100 -1.7 24	98 23.5 47	94 -5 73	98 11 69	103 0.76 22	105 0.25 20	111 0.78 20
QH 240060 97921449 QH240060	1	LL 210016 QH 140139	78 62	109 71	104 53	87 29	97 41	94 48	92 40	92 46	106 19	89 1.25 72	79 1.14 46	113 24 29	109 15.5 71	104 4.6 53	106 79 51	107 25.5 50	94 47 61	91 -34 9	119 21.6 71	103 -4.6 29	94 -0.2 19	99 24.2 45	97 -3 73	103 15 69	106 1.07 20	102 0.00 18	113 0.94 17
QH 240061 97921431 QH240061		QH 210018 QH 190037	86 61	105 68	110 44	91 23	97 38	98 44	102 38	98 43	104 32	85 1.60 72	100 0.17 43	107 18 23	105 13.3 68	110 6.8 44	110 91 45	104 23.0 45	103 83 59	95 -40 7	99 10.6 70	99 -1.7 26	94 -0.2 15	103 26.4 39	117 11 72	112 24 68	113 1.88 34	78 -2.04 31	98 0.07 30
QH 250006 99176976 QH250006	1	QH 210018 QH 170027	98 52	111 55	105 48	82 34	95 37	99 42	109 26	100 39	106 36	93 0.84 56	108 -0.21 45	120 31 34	111 16.4 55	105 5.0 48	105 79 46	111 28.4 46	104 85 41	95 -42 8	105 13.8 46	94 2.5 37	103 -2.4 20	95 22.2 44	115 10 47	112 24 45	110 1.55 37	82 -1.67 35	106 0.51 34

Breeding Values and Accuracies: Bulls

Inbreeding in red is high

Value <80 Value >120

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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																													
QH 250009 99181968 QH250009		FD 210042 QH 200128	91 57	108 63	124 41	88 22	88 29	104 40	117 24	106 37	119 32	103 -0.19 68	78 1.17 39	109 20 22	108 14.6 63	124 11.4 41	123 125 42	110 27.5 31	115 131 33	105 -59 11	108 15.4 37	87 7.9 26	88 0.9 18	106 27.6 35	117 11 38	121 32 36	118 2.34 34	91 -0.95 31	86 -0.68 30
QH 250012 99177008 QH250012	2	FD 200011 QH 180036	72 64	125 71	93 51	89 31	89 37	98 48	104 32	98 45	115 38	58 4.37 74	103 0.02 48	112 23 31	125 23.8 71	93 0.9 51	110 91 51	119 35.2 46	112 119 41	108 -64 20	112 18.0 45	82 11.3 38	96 -0.8 21	106 27.5 45	89 -8 46	106 18 44	123 2.83 40	102 0.00 37	96 -0.09 37
QH 250023 6020290349 QH250023	1	FD 200011 QH 190063	88 64	111 70	100 48	96 29	94 32	99 46	94 30	97 43	106 35	89 1.20 74	96 0.36 47	102 13 29	111 16.2 70	100 3.3 48	108 85 49	107 25.3 44	105 90 37	103 -54 20	105 14.1 41	91 4.8 29	93 -0.2 20	108 28.8 40	85 -11 42	99 11 40	118 2.38 36	99 -0.28 34	91 -0.35 33
QH 250024 6020290356 QH250024	1	FD 200011 QH 180065	80 64	118 71	91 51	91 33	88 38	93 48	104 32	94 45	111 38	67 3.47 73	117 -0.61 48	109 20 33	118 20.3 71	91 0.4 51	104 75 52	112 29.7 44	109 106 40	104 -57 20	111 17.3 45	84 9.9 38	94 -0.4 22	103 26.2 45	86 -10 46	100 12 44	120 2.55 39	100 -0.20 37	94 -0.20 36
QH 250027 99358194 QH250027		FD 200011 QH 140092	81 65	114 68	94 53	99 25	97 33	100 46	96 30	98 43	106 34	79 2.29 74	103 0.03 51	100 11 25	114 17.9 68	94 1.4 53	106 81 49	108 26.5 40	105 90 37	101 -51 20	108 15.6 42	94 2.2 28	96 -0.8 19	108 28.5 42	89 -8 43	101 13 41	118 2.31 36	98 -0.34 33	95 -0.14 33
QH 250036 99416166 QH250036	2	QH 210056 QH 220046	114 62	105 69	98 46	97 29	107 35	110 45	98 27	107 41	103 38	108 -0.76 73	110 -0.27 43	102 13 29	105 13.3 69	98 2.6 46	101 67 48	105 23.6 43	104 86 41	102 -54 10	116 19.8 45	101 -3.3 35	116 -5.1 18	102 25.4 42	98 -2 46	99 11 44	113 1.82 40	76 -2.19 37	102 0.27 36
QH 250046 99504128 QH250046	2	FD 200011 QH 190024	117 64	99 72	87 50	99 33	87 38	88 48	90 34	86 45	100 38	109 -0.84 74	114 -0.46 48	100 11 33	99 10.1 72	87 -1.0 50	87 31 52	96 16.5 47	100 70 41	103 -55 23	100 11.4 46	82 11.4 38	89 0.7 24	108 28.8 45	75 -17 46	88 1 45	114 1.96 40	100 -0.21 37	90 -0.40 36
QH 250061 99610065 QH250061	1	FD 200011 QH 200027	92 64	116 71	80 50	95 30	101 38	98 48	100 33	97 45	108 40	82 1.90 74	115 -0.51 47	105 16 30	116 18.8 71	80 -3.4 50	93 48 50	112 29.0 48	106 96 42	106 -60 21	110 16.5 46	94 2.2 38	105 -2.8 23	109 29.1 44	73 -19 47	92 5 45	121 2.68 42	99 -0.31 39	97 0.00 38
QH 250064 6020495021 QH250064		FD 200011 QH 140142	76 65	105 71	98 53	99 23	91 32	87 46	88 30	85 43	100 34	79 2.29 74	94 0.47 49	100 11 23	105 12.9 71	98 2.5 53	101 68 49	100 19.6 39	98 62 37	95 -42 20	100 11.4 42	92 4.2 26	88 0.9 18	106 27.5 42	79 -14 43	91 4 41	115 2.05 36	96 -0.57 33	89 -0.47 33
QH 250065 6020495039 QH250065	1	FD 200011 QH 150160	93 65	116 71	86 53	95 29	95 36	98 48	100 34	97 45	110 40	86 1.52 74	111 -0.36 50	105 16 29	116 18.8 71	86 -1.5 53	98 60 51	111 28.5 44	108 103 42	105 -58 20	106 14.6 47	92 3.5 33	96 -0.8 21	106 27.9 45	82 -13 48	99 12 47	123 2.92 41	96 -0.49 38	96 -0.08 38
QH 250066 6020495047 QH250066	1	FD 200011 QH 150055	95 66	108 70	97 53	100 29	91 36	97 47	96 32	95 44	105 40	85 1.66 75	116 -0.57 51	99 10 29	108 14.6 70	97 2.2 53	103 74 51	105 23.6 48	101 74 41	98 -45 20	96 9.2 46	90 5.5 33	91 0.3 21	104 26.9 46	77 -16 47	93 5 45	114 1.98 42	98 -0.34 38	90 -0.43 38
QH 250067 6020495054 QH250067	2	FD 200011 QH 140062	86 56	113 72	95 54	89 32	108 37	101 48	96 34	99 45	109 40	82 1.91 60	104 -0.02 50	112 23 32	113 17.2 72	95 1.5 54	101 68 53	109 26.9 42	109 106 42	108 -64 21	107 14.9 47	101 -2.6 33	110 -3.7 22	111 30.1 46	78 -15 48	95 7 46	124 2.94 41	102 -0.02 38	95 -0.12 37

Breeding Values and Accuracies: Bulls

Inbreeding in red is high

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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
QH 250068 6020502271 QH250068		QH 230108		110 47	70 55	104 24							110 -0.89 62	99 0.20 21		70 -5.3 55	104 4.7 24							88 18.7 12						
QH 250069 6020495062 QH250069		FD 200011 QH 170019		101 66	107 60	86 51	98 35	91 37	91 46	96 32	91 43	103 38	93 0.82 75	114 -0.47 50	102 13 35	107 14.4 60	86 -1.6 51	92 44 49	104 23.1 47	104 88 41	102 -53 20	103 12.8 45	81 11.9 37	101 -1.8 23	107 28.3 43	75 -17 46	89 1 44	119 2.44 39	100 -0.22 36	93 -0.27 36
QH 250071 6020505241 QH250071		QH 230031		119 53	75 61	116 34	106 16	94 22	89 36			84 24	118 -1.77 66	101 0.14 32	91 3 16	75 -2.4 61	116 8.9 34	95 53 37	76 1.2 30	86 15 25	79 -14 6	99 10.7 27	102 -4.0 20	86 1.4 12	99 24.4 29	98 -2 27	92 4 27	101 0.58 24	72 -2.50 23	88 -0.57 22
QH 250072 6020504780 QH250072	1	FD 200011 QH 190037		71 64	116 58	96 46	95 25	93 32	95 41	95 32	93 39	104 34	69 3.27 74	100 0.17 46	104 15 25	116 18.9 58	96 2.1 46	108 86 43	111 28.4 38	103 82 39	100 -50 20	102 12.5 43	89 6.1 28	91 0.2 19	110 29.9 40	83 -12 44	95 8 43	117 2.20 36	97 -0.41 33	93 -0.27 33
QH 260001 6020525454 QH260001	1	FD 200011 QH 170011		71 64	115 58	93 49	88 31	99 32	91 43	91 30	89 40	102 36	70 3.12 74	98 0.26 47	114 24 31	115 18.3 58	93 0.9 49	100 66 46	109 27.2 40	102 77 37	100 -49 20	101 11.9 41	96 0.5 28	99 -1.4 19	106 27.7 42	77 -16 42	92 4 40	118 2.31 37	98 -0.33 34	91 -0.36 34
QH 260003 6020525462 QH260003	1	FD 200011 QH 210057		102 63	115 69	97 45	89 25	97 34	105 45	106 31	104 42	119 36	96 0.53 74	111 -0.33 45	111 22 25	115 18.5 69	97 2.2 45	105 78 46	111 28.7 42	114 126 38	108 -63 20	118 20.8 42	91 4.3 34	97 -1.0 19	112 30.6 41	96 -3 43	112 23 42	131 3.74 38	98 -0.39 35	100 0.15 35
QH 260007 6020591209 QH260007	1	FD 200011 QH 140057		98 66	104 73	92 54	109 37	89 40	95 50	100 36	95 47	104 42	89 1.17 75	114 -0.50 52	91 2 37	104 12.6 73	92 0.7 54	99 62 55	101 20.9 49	106 96 46	104 -56 23	98 10.0 50	85 9.2 36	94 -0.3 26	105 27.1 48	86 -10 51	96 8 50	110 1.49 43	108 0.45 40	100 0.19 39

Breeding Values and Accuracies: Cows

Inbreeding in red is high

Value <80 Value >120

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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				90	90	91	84	84	80	84	81	83	1.15	-0.51	-6	10.7	1.8	70	18.1	83	-47	86	85	81	5.2	7.8	-0.7	20.5	119	105	12	17	-0.64
QH 140057 80542830 1457	2	PU 080148	QH 090056	99	100	95	121	86	99	101	98	98	90	115	82	100	95	102	98	103	99	89	87	96	92	119	105	89	108	112			
80542830 1457		90	90	91	84	84	80	84	81	83	1.15	-0.51	-6	10.7	1.8	70	18.1	83	-47	86	85	81	5.2	7.8	-0.7	20.5	119	105	12	17	-0.64	0.46	0.85
80542830 1457		90	90	91	84	84	80	84	81	83	1.15	-0.51	-6	10.7	1.8	70	18.1	83	-47	86	85	81	5.2	7.8	-0.7	20.5	119	105	12	17	-0.64	0.46	0.85
QH 140058 80642176 1458	2	QH 100070	QH 080039	74	117	108	81	86	93	103	93	108	90	62	121	117	108	112	117	109	104	111	79	112	87	119	113	104	104	101			
80642176 1458	QH 100070 QH 080039	80	79	81	38	46	60	38	56	14	1.13	1.93	32	19.3	6.0	96	33.1	108	-57	58	49	21	17.0	13.9	-4.3	17.9	119	113	12	24	0.86	0.09	0.24
80642176 1458	QH 100070 QH 080039	80	79	81	38	46	60	38	56	14	1.13	1.93	32	19.3	6.0	96	33.1	108	-57	58	49	21	17.0	13.9	-4.3	17.9	119	113	12	24	0.86	0.09	0.24
QH 140077 83561068 1477	QH 100038	84	98	117	87	116	102	84	97	99	91	84	112	98	117	108	97	96	90	99	123	104	102	96	102	110	83	102					
83561068 1477	QH 100038	75	71	82	29	43	55	34	51	35	0.97	0.91	22	9.5	9.1	86	17.3	55	-33	52	48	13	10.8	-19.7	-2.6	25.9	96	102	1.54	-1.57	0.29		
83561068 1477	QH 100038	75	71	82	29	43	55	34	51	35	0.97	0.91	22	9.5	9.1	86	17.3	55	-33	52	48	13	10.8	-19.7	-2.6	25.9	96	102	1.54	-1.57	0.29		
QH 140139 83561449 14139	QH 100043	68	104	112	88	93	86	80	83	94	83	68	112	104	112	108	101	89	87	111	99	93	93	91	94	100	91	105					
83561449 14139	QH 100043	65	71	82	28	40	53	34	49	31	1.81	1.65	23	12.6	7.3	87	20.2	30	-27	46	48	14	17.4	-1.7	-0.2	21.0	91	94	0.47	-0.98	0.44		
83561449 14139	QH 100043	65	71	82	28	40	53	34	49	31	1.81	1.65	23	12.6	7.3	87	20.2	30	-27	46	48	14	17.4	-1.7	-0.2	21.0	91	94	0.47	-0.98	0.44		
QH 140142 83561076 14142		74	88	110							89	69		88	110		84	80		88			92	98	87								
83561076 14142		71	67	81							1.21	1.60		4.2	6.8		7.4	-8		4.7			20.8	98	87								
83561076 14142		71	67	81							1.21	1.60		4.2	6.8		7.4	-8		4.7			20.8	98	87								
QH 150036 82710013 QH 150036	PU 100057 QH 110121	110	92	91	97	105	89	89	87	87	101	116	102	92	91	83	93	92	88	87	115	96	99	92	86	99	97	86					
82710013 QH 150036	PU 100057 QH 110121	80	81	84	44	50	62	28	55	41	0.02	-0.56	13	6.3	0.2	21	14.4	41	-29	46	58	28	66	46	45	99	97	86					
82710013 QH 150036	PU 100057 QH 110121	80	81	84	44	50	62	28	55	41	0.02	-0.56	13	6.3	0.2	21	14.4	41	-29	46	58	28	66	46	45	99	97	86					
QH 150160 85360469 15160	PU 120091	94	108	87	97	99	95	93	93	99	86	113	102	108	87	94	104	99	95	98	106	98	95	101	102	108	84	99					
85360469 15160	PU 120091	73	71	81	34	45	56	32	51	40	1.52	-0.44	13	14.6	-0.9	49	22.9	67	-40	10.3	-6.7	-1.2	22.0	0	14	1.34	-1.53	0.09					
85360469 15160	PU 120091	73	71	81	34	45	56	32	51	40	1.52	-0.44	13	14.6	-0.9	49	22.9	67	-40	10.3	-6.7	-1.2	22.0	0	14	1.34	-1.53	0.09					
QH 150196 85360501 15196		135	70	111							127	123		70	111		68			86			96										
85360501 15196		72	68	81							-2.62	-0.87		-5.6	6.9		-5.4			8.2			22.5										
85360501 15196		72	68	81							-2.62	-0.87		-5.6	6.9		-5.4			8.2			22.5										
QH 160001 83108118 QH 160001	3 PU 120091 QH 100049	110	108	80	96	106	100	93	98	99	99	119	104	108	80	88	105	99	100	108	110	110	93	89	92	103	92	109					
83108118 QH 160001	3 PU 120091 QH 100049	89	89	89	80	81	78	80	78	80	0.24	-0.73	15	15.0	-3.3	33	23.6	66	-49	15.4	-9.6	-3.8	21.1	-8	5	0.83	-0.88	0.69					
83108118 QH 160001	3 PU 120091 QH 100049	89	89	89	80	81	78	80	78	80	0.24	-0.73	15	15.0	-3.3	33	23.6	66	-49	15.4	-9.6	-3.8	21.1	-8	5	0.83	-0.88	0.69					
QH 160101 86862281 16101		60	109	137							75	54		109	137		113	101		105			97	114	111								
86862281 16101		67	63	76							2.64	2.29		15.4	15.7		30.2	76		14.0			23.2	9	22								
86862281 16101		67	63	76							2.64	2.29		15.4	15.7		30.2	76		14.0			23.2	9	22								
QH 160113 86862299 16113		89	85	105							98	83		85	105		81	75		75			93	100	92								
86862299 16113		66	65	78							0.27	0.99		2.6	4.9		4.9	-28		-2.3			20.9	-1	4								
86862299 16113		66	65	78							0.27	0.99		2.6	4.9		4.9	-28		-2.3			20.9	-1	4								
QH 170011 85773562 QH 170011	QH 140062	70	102	102	79	105	82			90	82	77	125	102	102	95	99	91	88	93	112	104	92	98	93	102	89	92					
85773562 QH 170011	QH 140062	72	70	71	35	28	51			19	1.97	1.23	35	11.8	4.0	51	19.1	37	-29	7.5	-11.6	-2.5	20.8	-2	6	0.69	-1.14	-0.32					
85773562 QH 170011	QH 140062	72	70	71	35	28	51			19	1.97	1.23	35	11.8	4.0	51	19.1	37	-29	7.5	-11.6	-2.5	20.8	-2	6	0.69	-1.14	-0.32					

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																														
QH 170012 85773570 QH 170012		QH 140057		92 75	95 75	99 78	123 61	86 36	93 59	85 28	90 53	86 34	90 1.17 77	103 0.05 71	81 -7 61	95 7.8 75	99 3.0 78	101 67 71	11.8 46	88 23 39	82 -19 11	93 7.7 44	94 2.0 25	90 0.6 19	87 18.0 54	114 9 46	99 11 44	82 -1.41 36	102 0.00 32	98 0.06 31
QH 170016 86130176 QH 170016		QH 140004 QH 140092		124 76	70 76	76 79	131 37	109 40	83 57	73 22	78 50	68 20	120 -1.91 79	144 -1.86 72	74 -14 37	70 -5.5 76	76 -4.6 79	56 -50 64	65 -7.5 56	77 -21 34	71 0 5	83 2.1 40	117 -15.0 46	101 -1.8 20	100 24.4 56	87 -9 41	73 -14 39	84 -1.22 21	86 -1.32 20	82 -0.87 20
QH 170019 86130200 QH 170019	1	QH 140004 QH 140025		106 78	100 77	84 78	98 53	92 47	86 61	92 28	85 54	90 31	97 0.41 81	116 -0.58 73	101 12 53	100 10.5 77	84 -1.9 78	85 25 69	17.8 64	57 43	-37 9	96 9.4 47	82 11.2 52	108 -3.4 30	99 24.3 58	94 -5 48	87 0 46	105 0.95 32	91 -0.91 30	95 -0.15 29
QH 170024 86130259 QH 170024		PU 120091 QH 080009		91 78	106 77	74 77	115 46	92 50	89 60	91 31	88 54	90 33	84 1.71 81	110 -0.29 74	88 0 46	106 13.8 77	74 -5.5 77	85 25 67	19.3 68	36 47	-28 11	109 16.4 52	104 -5.2 52	93 -0.2 32	86 17.5 64	93 -5 53	87 0 51	90 -0.59 34	98 -0.37 32	98 0.03 31
QH 170061 86130671 QH 170061		PU 100057 QH 100050		85 78	110 79	83 80	81 52	108 54	86 63	96 35	86 57	97 44	92 0.89 81	85 0.88 74	124 35 52	110 15.5 79	83 -2.5 80	85 25 70	110 28.1 67	100 72 50	95 -40 17	97 9.5 53	116 -14.5 62	106 -3.0 37	91 20.0 66	95 -4 53	95 7 53	112 1.71 45	90 -1.01 43	90 -0.44 42
QH 170106 88799861 QH 170106				127 63	71 58	95 73							119 -1.79 62	115 -0.53 64		71 -4.6 58	95 1.8 73							76 12.7 42						
QH 170129 88799879 QH 170129				94 81	109 79	115 84	88 72	99 74	107 71	103 74	105 72	113 72	96 0.51 81	95 0.38 82	110 21 72	109 15.1 79	115 8.4 84	116 106 78	111 28.9 74	111 115 74	110 -66 72	97 9.9 75	98 -1.1 72	107 -3.3 72	94 21.6 77	111 7 75	111 23 74	113 1.88 72	98 -0.39 72	109 0.68 72
QH 180020 87710075 QH 180020	1	PU 150184 QH 130009		81 76	106 78	91 76	109 44	85 47	88 59	87 34	86 54	94 34	91 1.04 80	80 1.11 70	90 2 44	106 13.6 78	91 0.3 76	100 64 66	100 20.0 64	96 57 44	101 -51 19	97 9.7 49	85 9.5 53	86 1.3 27	104 26.5 60	109 5 50	102 14 48	100 0.51 35	91 -0.90 32	84 -0.79 31
QH 180036 87710216 QH 180036	2	PU 120091 QH 140109		63 76	118 76	104 76	85 42	86 46	90 58	103 28	91 52	109 36	64 3.82 79	87 0.78 70	116 26 42	118 20.1 76	104 4.6 76	112 96 65	115 32.1 62	107 100 43	101 -52 11	111 17.2 47	86 8.7 54	98 -1.2 23	93 21.1 61	117 11 47	115 27 46	107 1.18 38	96 -0.53 35	99 0.08 34
QH 180056 90586587 QH 180056				102 52	81 58	98 73							105 -0.45 51	94 0.45 54		81 0.7 58	98 2.7 73		77 1.5 30					99 24.3 39						
QH 180065 87883823 QH 180065		PU 120091 QH 110117		95 70	103 76	101 76	90 48	85 46	86 58	102 28	87 52	100 32	87 1.38 70	112 -0.39 69	110 21 48	103 12.1 76	101 3.8 76	99 63 67	100 20.0 56	100 71 42	92 -36 9	108 15.5 46	89 5.9 53	94 -0.3 25	88 18.6 61	110 6 47	102 14 46	101 0.58 34	91 -0.94 31	95 -0.15 31
QH 190026 89512602 1226	1	PU 150184 QH 140029		95 76	105 78	79 75	105 46	104 48	93 59	86 33	89 54	89 36	83 1.83 80	119 -0.72 70	95 46	105 13.0 78	79 -3.9 75	85 27 66	19.2 67	89 28 44	96 -43 19	85 3.1 47	112 -11.1 57	98 -1.2 26	96 22.9 60	95 -4 48	92 5 47	99 0.38 37	89 -1.10 34	85 -0.73 33

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																													
QH 190037 89512461 1937		QH 130026	77 70	101 69	110 63	93 18	94 31	89 47	88 24	87 42	93 10	88 1.36 75	79 1.16 62	105 16 18	101 11.0 69	110 6.7 63	107 82 50	99 19.4 33	94 46 34	90 -31 8	96 8.9 41	98 -0.5 20	89 0.6 14	102 25.9 48	109 6 42	100 12 40	100 0.46 11	87 -1.30 10	95 -0.15 10
QH 190044 89515431 1944	1	QH 150013 QH 140149	85 73	97 73	80 70	108 38	104 42	84 55	88 26	82 49	88 24	83 1.87 77	103 0.04 67	92 4 38	97 8.9 73	80 -3.5 70	80 14 60	94 15.3 62	92 38 38	88 -28 12	96 9.1 42	111 -10.9 53	101 -2.0 19	94 21.5 56	95 -4 43	89 2 41	97 0.14 25	92 -0.82 23	90 -0.43 23
QH 190063 89515316 1963		QH 130009	100 72	91 71	118 68	102 34	96 28	98 50			89 16	113 -1.25 76	76 1.27 65	95 6 34	91 5.8 71	118 9.2 68	109 88 58	91 12.9 54	91 34 25	88 -28 7	95 8.4 28	103 -4.6 23	92 0.1 14	97 23.1 46	107 4 29	99 11 28	97 0.13 17	89 -1.12 15	89 -0.48 14
QH 190131 93482925 QH 190131			94 52	81 53	92 69							99 0.17 51	88 0.71 54		81 0.3 53	92 0.8 69		75 -0.2 34					96 22.5 38						
QH 190167 93482974 QH 190167			112 52	80 53	115 69							113 -1.18 51	100 0.19 54		80 0.2 53	115 8.5 69		79 3.2 30					98 23.7 32						
QH 190169 93482875 QH 190169			107 41	80 27	107 39							109 -0.78 40	97 0.31 43		80 -0.2 27	107 5.6 39							87 18.1 37						
QH 200025 90940651 2025		PU 150184 QH 170016	135 72	80 67	88 72	110 34	96 40	86 52	84 30	83 48	86 32	126 -2.58 77	129 -1.16 63	90 2 34	80 0.1 67	88 -0.9 72	73 -5 58	78 2.3 49	90 30 41	91 -34 17	92 6.9 45	98 -1.0 40	95 -0.7 21	100 24.8 56	102 1 46	92 5 44	98 0.25 33	87 -1.23 30	81 -0.95 30
QH 200027 90940677 2027	1	QH 170058 QH 140029	92 75	113 77	75 73	97 38	111 48	98 57	96 32	97 52	97 42	82 1.99 79	117 -0.60 67	104 15 38	113 17.5 77	75 -5.2 73	87 30 63	110 27.5 65	98 61 47	99 -48 13	107 15.2 50	107 -7.8 54	117 -5.4 29	100 24.6 58	87 -9 51	91 3 50	106 1.12 43	89 -1.13 40	103 0.33 40
QH 200032 90940719 2032	3	QH 170058 QH 140075	87 74	115 75	107 69	79 28	104 44	103 54	109 32	104 50	113 42	82 1.97 78	107 -0.14 67	123 34 28	115 18.3 75	107 5.6 69	109 88 57	114 31.2 62	114 124 48	106 -59 12	139 32.3 52	96 0.5 48	112 -4.4 20	104 26.6 56	114 8 53	115 26 51	123 2.92 43	84 -1.53 40	111 0.82 40
QH 200050 91102947 2050	2	QH 170035 QH 120013	83 72	111 75	81 68	96 38	96 42	88 55	99 32	89 50	100 41	70 3.16 78	121 -0.82 63	104 15 38	111 16.5 75	81 -2.9 68	91 41 60	105 23.9 61	99 68 45	99 -47 14	92 6.9 49	92 3.6 36	109 -3.5 28	95 22.1 56	94 -4 50	94 6 49	100 0.45 43	100 -0.20 39	98 0.03 38
QH 200106 93482826 QH 200106			110 52	78 47	105 62							110 -0.91 51	100 0.19 54		78 -0.9 47	105 4.9 62							96 22.9 30						
QH 200128 93482842 QH 200128			104 44	87 38	142 54							110 -0.97 43	89 0.69 47		87 3.8 38	142 17.6 54							98 23.6 30						

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																														
QH 200163 93482867 QH 200163			92 53	84 40	108 55								100 0.11 52	84 0.91 54		84 2.2 40	108 6.0 55		81 4.7 28					91 20.2 30						
QH 210026 92446657 2126			BH 170027 QH 170129	109 72	105 72	119 64	93 30	95 40	110 52	100 30	108 48	108 42	103 -0.18 76	110 -0.30 64	104 15 30	105 12.9 72	119 9.6 64	118 112 55	106 24.2 48	108 101 46	106 -60 11	109 16.4 49	90 5.2 37	99 -1.5 22	106 27.5 52	102 1 49	106 18 48	118 2.37 43	74 -2.38 42	97 -0.03 41
QH 210057 92710086 QH210057			QH 180059 QH 150215	107 69	102 71	111 60	93 18	104 35	107 47	98 20	104 42	106 26	97 0.45 75	117 -0.62 59	105 16 18	102 11.5 71	111 7.0 60	109 87 50	100 19.7 50	103 81 32	93 -38 5	113 18.2 36	107 -7.6 43	97 -1.0 11	105 27.3 50	121 13 37	116 27 35	116 2.15 28	85 -1.43 25	103 0.35 24
QH 210109 95249025 QH 210109				95 44	84 30	108 43							102 -0.06 43	86 0.80 47		84 2.0 30	108 5.9 43							94 21.6 23						
QH 210114 95249033 QH 210114				95 32	85 29	117 43							103 -0.17 31	86 0.84 35		85 2.4 29	117 9.1 43		83 6.3 13	83 2 27		102 12.5 33			91 20.1 16	105 3 34	95 7 32			
QH 210115 95249041 QH 210115			QH 180059	86 55	100 54	92 60	99 17	94 28				94 26	82 1.90 56	105 -0.05 53	100 11 17	100 10.6 54	92 0.8 60	92 45 44	94 15.4 37	93 45 28	87 -26 5	107 15.2 32	100 -2.2 22	91 0.4 11	98 23.5 45	109 6 33	102 14 31	106 1.13 28	84 -1.54 25	99 0.11 24
QH 210116 95249058 QH 210116				112 32	81 29	122 43							113 -1.20 31	98 0.25 35		81 0.5 29	122 10.7 43							86 17.4 16						
QH 210122 95249066 QH 210122				98 44	83 40	112 55							104 -0.32 43	89 0.69 47		83 1.8 40	112 7.2 55							94 21.5 29						
QH 210134 95249074 QH 210134				105 44	82 40	117 56							109 -0.78 43	94 0.46 47		82 1.1 40	117 9.0 56							94 21.5 29						
QH 210136 95249082 QH 210136				115 44	75 40	96 56							112 -1.12 43	105 -0.07 47		75 -2.6 40	96 2.0 56							94 21.5 29						
QH 210142 95249090 QH 210142				112 40									111 -1.04 39	101 0.12 43										93 20.9 29						
QH 220019 94053584 2219			QH 170035 QH 140139	73 67	117 72	88 62	77 35	95 36	83 51	89 29	82 47	100 38	58 4.39 74	104 -0.02 54	129 39 35	117 19.3 72	88 -0.7 62	93 47 56	106 24.7 56	95 53 43	96 -42 11	104 13.2 48	94 2.0 27	102 -2.0 18	96 22.6 52	89 -8 49	93 5 47	103 0.84 39	91 -0.94 36	97 0.00 35

Breeding Values and Accuracies: Cows

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Animal				Selection Values								Birth		Wean				Growth			Fertility				Frame		Carcass					
Index EBV Acc	% Inbreeding	ID Number Name	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	
QH 220023 94188653 QH 150036 QH220023				96 58	97 67	106 56	95 32	98 27		93 45			88 20	94 0.69 68	101 0.12 40	103 14 32	97 9.2 67	106 5.2 56	101 67 52	95 16.1 52	89 29 22	83 -20 5	89 5.3 23	107 -7.5 29	91 0.3 14	97 23.4 42	99 -1 23	92 5 23	100 0.44 21	90 -1.04 20	87 -0.58 20	
QH 220041 94228145 QH 140077 QH220041				92 70	108 73	94 64	85 38	118 43		102 53	97 32	100 49	105 42	86 1.48 76	109 -0.25 59	116 27 38	108 14.6 73	94 1.4 64	95 52 58	105 23.8 60	104 88 47	99 -48 12	119 21.5 51	118 -15.6 50	116 -5.1 20	102 25.9 52	94 -4 52	101 13 51	115 2.00 43	85 -1.43 40	107 0.59 39	
QH 220045 94262763 QH 160122 QH220045				113 67	97 70	103 53	89 26	107 40		100 48	97 28	98 44	102 40	105 -0.42 74	114 -0.48 56	110 21 26	97 9.0 70	103 4.3 53	95 53 50	98 17.9 58	102 77 43	96 -43 9	114 18.7 46	115 -13.6 49	108 -3.5 18	89 19.0 49	99 -1 47	101 13 46	116 2.10 41	84 -1.50 38	103 0.31 37	
QH 220046 94262755 QH 120013 QH220046				101 71	106 75	92 65	99 45	102 48		100 56	106 34	100 52	104 44	93 0.81 77	112 -0.40 61	100 11 45	106 13.6 75	92 0.6 65	97 57 62	106 24.9 62	106 93 50	101 -52 15	114 18.9 53	94 2.3 54	118 -5.5 27	97 23.2 56	98 -2 53	99 11 52	107 1.18 45	98 -0.39 42	110 0.72 41	
QH 220051 94398310 QH 150196 QH220051				113 69	94 73	103 64	94 26	89 40		89 51	91 26	88 46	94 37	107 -0.57 75	111 -0.35 58	104 15 26	94 7.6 73	103 4.5 64	96 54 54	95 16.1 60	94 49 40	89 -30 9	110 16.7 43	85 9.2 49	98 -1.3 18	100 24.6 51	95 -4 44	93 5 43	105 0.96 38	84 -1.53 36	98 0.06 35	
QH 220073 94521135 QH 150215 QH220073				103 68	102 72	103 63	105 35	105 37		108 51	96 28	105 46	98 37	95 0.66 74	114 -0.49 57	93 4 35	102 11.4 72	103 4.2 63	106 80 57	101 20.3 45	98 62 43	91 -33 9	110 16.8 46	105 -6.4 33	105 -2.8 18	102 25.7 50	100 -1 47	100 12 46	108 1.36 38	84 -1.49 36	100 0.15 35	
QH 220104 98595374 QH 220104				104 34	80 30	105 43								107 -0.59 33	95 0.42 35		80 0.2 30	105 5.1 43							91 20.1 22							
QH 220108 98595382 QH 220108				104 34	80 30	103 43								107 -0.58 33	95 0.39 35		80 -0.1 30	103 4.3 43								90 19.4 16						
QH 220120 98595390 QH 220120				111 34	79 30	111 43								111 -1.05 33	100 0.19 35		79 -0.4 30	111 7.1 43								90 19.4 16						
QH 220121 98595408 QH 220121				122 34	75 30	108 43								117 -1.67 33	109 -0.26 35		75 -2.6 30	108 6.1 43								90 19.4 16						
QH 220123 98595416 QH 220123				101 34	82 30	108 43								105 -0.42 33	92 0.57 35		82 1.0 30	108 5.9 43								90 19.4 16						
QH 220126 98595424 QH 220126				114 34	78 30	107 43								113 -1.18 33	103 0.05 35		78 -1.3 30	107 5.8 43								90 19.4 16						

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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
QH 220128 98595432 QH 220128				121 34	74 30	99 43							116 -1.51 33	110 -0.28 35		74 -3.3 30	99 3.0 43							90 19.4 16						
QH 220131 98595440 QH 220131				84 34	87 30	108 43							96 0.52 33	78 1.20 35		87 3.8 30	108 6.0 43							90 19.4 16						
QH 220138 98595457 QH 220138				111 34	79 30	112 43							111 -1.06 33	100 0.19 35		79 -0.4 30	112 7.3 43							91 20.1 22						
QH 230006 96226220 QH230006		QH 180131		111 51	90 58	112 33							119 -1.80 64	87 0.76 29		90 5.5 58	112 7.5 33		88 10.2 6	87 21 14		92 7.3 17		83 15.9 22	107 4 18	99 11 16				
QH 230011 96226113 QH230011		QH 190167		108 51	80 59	112 36							109 -0.87 64	98 0.29 29		80 -0.2 59	112 7.2 36		78 2.1 15					90 19.6 20						
QH 230025 96224787 QH230025		BH 170027 QH 140092		106 68	88 72	119 59	119 32	95 39	107 50	83 30	101 46	84 42	108 -0.69 75	96 0.35 57	82 -6 32	88 4.4 72	119 9.8 59	114 101 54	89 11.4 56	89 26 46	85 -23 11	102 12.6 48	100 -2.5 38	91 0.3 22	100 24.9 49	95 -4 49	91 3 48	100 0.45 43	67 -2.92 42	86 -0.64 41
QH 230031 96224837 QH230031		BH 170027 QH 140075		110 71	96 74	118 66	96 32	100 42	106 53	94 33	102 49	98 47	106 -0.50 76	107 -0.15 62	100 12 32	96 8.2 74	118 9.4 66	111 94 57	95 16.0 58	100 72 50	95 -41 13	122 22.9 54	96 1.2 40	94 -0.3 23	117 33.1 53	105 2 54	104 16 53	116 2.18 48	64 -3.18 46	93 -0.23 45
QH 230032 96224845 QH230032		BH 170027 QH 170024		105 68	99 73	100 58	116 38	90 44	102 52	90 32	99 48	90 46	102 -0.12 75	105 -0.05 56	86 -2 38	99 10.2 73	100 3.4 58	104 75 56	96 16.7 60	93 43 49	90 -33 12	111 17.1 52	96 1.1 45	90 0.5 26	95 22.1 52	88 -8 53	88 1 52	101 0.62 47	73 -2.43 45	89 -0.48 44
QH 230039 96002381 QH230039		QH 170058 QH 200163		94 62	97 65	99 48	94 26	99 34	89 44	93 26	87 40	95 37	94 0.73 71	99 0.21 47	105 16 26	97 9.2 65	99 3.0 48	94 49 46	96 16.9 49	96 55 40	90 -33 9	112 17.5 43	103 -4.6 31	103 -2.3 18	93 21.1 45	96 -3 44	95 7 43	106 1.09 38	84 -1.51 36	99 0.09 35
QH 230042 96739719 QH230042		QH 210013		113 52	83 60	97 34	103 14	87 20	77 35			82 11	115 -1.43 65	97 0.31 30	95 7 14	83 1.5 60	97 2.2 34	82 20 36	83 6.1 34	84 8 19	77 -9 6	82 1.5 21	99 -1.3 17	87 1.1 12	86 17.4 30	96 -3 22	89 2 21	93 -0.23 11	87 -1.30 11	85 -0.71 10
QH 230044 96001680 QH230044		BH 170027 QH 160001		114 61	99 74	104 60	105 38	97 44	105 52	90 32	101 48	94 48	108 -0.67 64	111 -0.31 57	93 5 38	99 10.2 74	104 4.8 60	105 78 57	98 18.4 58	95 53 50	95 -42 13	109 16.0 53	99 -1.4 44	98 -1.2 26	98 23.8 53	85 -10 53	89 2 52	107 1.24 49	70 -2.69 47	94 -0.17 46
QH 230052 96739750 QH230052		BH 170027 QH 180056		105 53	94 70	111 56	113 30	90 38	102 47	82 28	96 43	87 42	107 -0.64 55	96 0.37 49	88 0 30	94 7.4 70	111 7.2 56	109 89 52	92 13.7 54	88 23 43	83 -21 11	99 10.9 45	95 1.7 37	85 1.6 22	102 25.7 46	93 -5 46	91 3 45	104 0.91 43	65 -3.10 42	83 -0.82 41

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Animal				Selection Values								Birth		Wean				Growth			Fertility				Frame		Carcass			
Index EBV Acc	% Inbreeding	Sire ID Dam ID	ID Number Name	Calv. Ease V	Calf Growth V	Milk V	Maint. V	Fertility V	Cow Value	Growth Value	Prod. Value	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
QH 230063 96147251 QH230063	1	QH 200033 QH 150055		82 63	111 69	96 50	94 22	99 32	97 45	96 25	95 41	100 36	71 3.05 73	117 -0.61 47	105 16 22	111 16.2 69	96 2.0 50	103 72 47	107 25.6 50	97 61 39	93 -37 7	98 10.4 44	101 -3.0 26	101 -1.8 15	99 24.2 45	95 -4 45	95 8 43	105 1.04 38	82 -1.68 35	95 -0.15 34
QH 230065 96147277 QH230065		QH 200033 QH 170129		86 61	108 66	101 47	90 14	105 26	99 41	99 22	98 37	105 30	82 1.98 71	106 -0.12 43	110 20 14	108 14.7 66	101 3.7 47	103 74 42	107 25.1 42	105 90 34	103 -55 6	102 12.4 40	103 -4.4 17	109 -3.5 10	102 25.5 39	98 -2 41	98 10 39	111 1.63 32	86 -1.34 29	103 0.34 28
QH 230067 96224340 QH230067	4	QH 200033 QH 130026		89 64	104 69	93 50	89 23	101 33	89 45	94 26	88 41	96 32	87 1.40 74	102 0.07 48	111 22 23	104 12.6 69	93 1.0 50	92 45 47	102 21.8 48	98 61 39	95 -42 10	105 14.1 44	101 -2.7 26	102 -2.1 17	103 25.9 46	97 -3 45	93 5 43	103 0.78 33	83 -1.61 30	99 0.10 29
QH 230105 98595473 QH 230105				96 32	87 29	124 43							104 -0.30 31	85 0.88 35		87 3.5 29	124 11.6 43							90 19.4 15						
QH 230106 98595481 QH 230106				112 32	80 29	115 43							112 -1.15 31	100 0.19 35		80 -0.2 29	115 8.5 43							90 19.4 15						
QH 230108 98595499 QH 230108				108 32	77 29	96 43							108 -0.71 31	99 0.20 35		77 -1.4 29	96 1.8 43							91 20.2 15						
QH 240013 97230015 QH240013		BH 170027 QH 190107		106 61	88 66	115 51	113 30	91 38	99 46	82 28	94 42	86 42	105 -0.44 69	102 0.10 48	87 -1 30	88 4.3 66	115 8.2 51	107 83 49	87 9.4 44	87 21 43	83 -20 11	99 10.5 45	96 0.8 37	84 1.8 22	104 26.8 47	92 -6 46	90 3 45	103 0.84 43	65 -3.10 42	83 -0.84 41
QH 240038 97898068 QH240038	1	LL 210016 QH 140062		94 65	110 71	99 54	88 33	114 37	107 49	88 28	102 45	102 22	99 0.16 74	89 0.69 50	112 23 33	110 15.9 71	99 3.1 54	103 72 53	108 26.2 44	98 63 42	99 -48 9	102 12.4 47	113 -12.4 32	110 -3.8 21	105 27.4 48	102 1 47	103 15 46	106 1.10 23	105 0.21 21	108 0.64 20
QH 240042 97898092 QH240042		LL 210030 QH 150196		123 63	101 69	113 51	94 22	99 29	111 44			105 8	124 -2.30 72	99 0.21 47	104 15 22	101 11.1 69	113 7.6 51	110 90 47	102 21.1 58	99 66 27	91 -34 6	94 7.9 30	101 -2.8 29	94 -0.2 16	106 27.7 42	110 6 27	110 21 26	110 1.50 9	96 -0.52 8	91 -0.34 8
QH 240043 97898100 QH240043	2	LL 210016 QH 170042		97 65	111 71	95 52	92 35	95 38	97 49	91 28	95 45	100 21	99 0.23 74	96 0.36 49	108 19 35	111 16.2 71	95 1.6 52	101 67 53	109 26.6 63	96 56 42	98 -46 10	104 13.3 45	95 1.2 38	96 -0.7 22	101 25.2 49	104 2 45	102 14 44	99 0.33 22	107 0.35 20	111 0.81 20
QH 240045 97898126 QH240045	1	LL 210016 QH 180020		94 64	102 71	94 51	104 33	94 38	93 48	85 28	90 44	95 20	102 -0.10 74	86 0.85 48	95 6 33	102 11.5 71	94 1.3 51	97 57 52	98 18.4 62	92 38 41	95 -41 11	97 9.6 45	97 -0.3 37	89 0.8 21	105 27.2 47	105 3 45	103 15 44	97 0.19 21	102 -0.02 19	99 0.12 19
QH 240046 97898134 QH240046		LL 210016 QH 190131		96 60	92 68	96 48	106 26	98 31	88 44	77 21	83 39	85 10	101 0.01 70	90 0.65 43	92 4 26	92 6.1 68	96 2.1 48	91 41 47	88 10.1 58	81 -4 35	78 -11 5	88 5.0 38	108 -8.2 26	86 1.3 17	102 25.8 42	98 -2 38	93 6 37	92 -0.41 11	97 -0.46 10	99 0.11 10

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																													
QH 240048 97898159 QH240048		LL 210030 QH 170129	101 62	119 68	115 49	84 22	109 29	123 43	113 20	121 38	123 8	107 -0.67 72	87 0.78 46	116 27 22	119 20.4 68	115 8.3 49	122 121 46	120 35.7 56	116 136 30	110 -68 6	102 12.4 34	107 -7.6 25	108 -3.5 16	106 27.5 41	117 11 33	123 34 31	122 2.72 9	104 0.17 8	104 0.39 8
QH 240050 97898175 QH240050		LL 210016 QH 190167	119 60	86 68	108 48	103 26	98 30	95 44	80 21	90 39	88 10	124 -2.33 70	91 0.58 43	95 6 26	86 3.3 68	108 6.0 48	96 55 47	87 9.8 58	84 8 35	81 -16 5	91 6.7 38	106 -7.2 26	87 1.1 17	103 26.2 41	101 0 38	97 10 37	94 -0.13 11	97 -0.43 10	100 0.18 10
QH 240052 97898183 QH240052	1	LL 210030 QH 140058	81 64	123 71	109 51	83 29	103 35	113 47	111 26	112 43	117 10	94 0.75 74	76 1.30 48	119 29 29	123 22.6 71	109 6.5 51	119 115 50	122 37.1 60	114 125 36	106 -60 12	107 14.9 40	98 -0.8 32	110 -3.9 21	101 24.9 47	119 12 39	121 32 37	114 1.95 11	107 0.38 10	99 0.11 10
QH 240055 97898217 QH240055	1	LL 210016 QH 170024	94 65	105 71	85 52	105 34	98 38	94 49	88 26	91 44	93 20	92 0.89 74	102 0.10 49	94 6 34	105 13.2 71	85 -1.7 52	92 44 52	101 20.6 63	89 29 42	89 -30 8	103 13.2 46	107 -7.7 37	92 0.0 23	97 23.1 48	98 -2 46	95 8 45	92 -0.33 20	105 0.25 19	106 0.54 18
QH 240058 97898241 QH240058	1	LL 210016 QH 160001	119 66	102 72	88 54	96 35	105 38	101 50	89 28	97 46	99 24	118 -1.74 75	101 0.11 51	103 14 35	102 11.6 72	88 -0.7 54	89 36 54	100 20.0 62	94 46 42	95 -41 10	103 13.0 46	110 -9.5 35	101 -1.8 22	100 24.7 50	96 -3 47	99 11 45	100 0.48 25	102 0.01 23	113 0.89 22
QH 240059 97898258 QH240059		LL 210016 QH 180056	109 60	88 68	102 50	108 26	99 31	94 44	76 21	88 39	84 10	116 -1.54 70	88 0.74 43	91 2 26	88 4.4 68	102 3.9 50	94 48 48	89 11.2 58	80 -7 35	77 -10 5	88 4.6 38	108 -8.6 26	86 1.4 17	104 26.6 42	97 -2 38	93 5 37	91 -0.50 11	97 -0.47 10	99 0.09 10
QH 240062 97961775 QH240062		LL 210016 QH 150036	111 65	96 72	95 54	98 33	104 38	96 49	86 26	92 44	91 23	111 -0.98 74	101 0.14 51	100 12 33	96 8.2 72	95 1.8 54	91 41 53	98 17.9 56	90 30 41	89 -30 7	92 6.9 44	113 -11.9 39	93 -0.2 22	101 25.3 47	97 -3 44	94 7 43	96 0.10 24	105 0.21 22	101 0.19 22
QH 240063 97961759 QH240063	1	LL 210030 QH 150055	111 65	108 71	114 51	93 28	104 34	117 47	104 23	114 42	110 22	113 -1.25 74	96 0.38 49	104 15 28	108 14.6 71	114 8.1 51	117 108 50	110 27.4 60	102 81 35	95 -41 7	92 6.9 39	108 -8.6 32	98 -1.3 19	103 26.2 47	108 4 38	111 23 36	109 1.42 23	99 -0.26 21	93 -0.27 21
QH 240064 97961767 QH240064	1	LL 210030 QH 130026	91 65	117 57	106 51	84 28	106 35	110 43	109 24	109 39	114 14	97 0.43 74	89 0.70 50	118 28 28	117 19.5 57	106 5.2 51	112 95 45	116 32.8 44	110 110 35	104 -56 10	106 14.3 39	105 -6.2 33	102 -2.1 21	107 28.0 48	117 10 38	118 29 36	114 1.91 14	101 -0.09 13	100 0.16 13
QH 240065 97961742 QH240065		LL 210030 QH 170019	94 63	118 70	99 50	90 34	105 35	112 47	106 22	110 42	110 18	92 0.90 73	102 0.08 47	110 21 34	118 20.2 70	99 2.9 50	110 90 51	116 32.8 60	108 102 34	101 -52 7	100 11.5 38	99 -1.8 37	109 -3.5 21	107 28.3 45	107 4 36	109 21 35	116 2.13 18	101 -0.10 17	96 -0.05 17
QH 240066 98343130 QH240066		QH 210018 QH 200163	88 58	99 64	107 42	101 21	96 28	95 40	92 22	92 36	92 32	84 1.76 69	107 -0.13 40	96 8 21	99 9.8 64	107 5.6 42	105 79 42	94 15.1 54	90 30 33	79 -13 6	92 7.1 37	102 -3.7 23	90 0.5 13	100 24.9 38	106 4 38	102 14 37	105 1.05 33	75 -2.28 31	92 -0.29 30
QH 240067 98337249 QH240067	1	LL 210016 QH 190026	96 64	108 69	88 51	99 35	103 38	99 48	87 28	95 44	96 20	94 0.74 74	104 0.01 48	100 11 35	108 14.6 69	88 -0.9 51	95 51 52	105 23.6 54	91 35 41	95 -41 11	94 7.9 45	110 -9.7 38	95 -0.7 21	102 25.4 47	101 0 45	101 13 44	99 0.41 21	101 -0.09 20	101 0.22 19

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																														
QH 240068 98337256 QH240068		QH 170061		81 57	110 60	91 41	89 26	97 28	89 40			94 22	86 1.50 68	89 0.67 39	111 22 26	110 15.8 60	91 0.4 41	96 55 42	107 25.2 43	94 46 25	87 -27 8	94 8.1 26	107 -7.8 31	96 -0.8 18	88 18.6 39	101 0 27	97 9 26	106 1.14 22	86 -1.32 21	89 -0.47 21
QH 250003 98712805 QH250003		LL 210030 QH 190169		113 53	100 60	112 37	96 22	103 27	109 38			102 8	120 -1.99 62	87 0.79 37	102 13 22	100 10.3 60	112 7.4 37	109 88 40	100 19.5 34	97 58 27	89 -30 6	92 6.9 30	110 -10.2 25	95 -0.7 16	101 25.2 37	108 4 27	107 19 26	108 1.27 9	96 -0.55 8	91 -0.39 8
QH 250004 98941511 QH250004		QH 210142		100 42									99 0.17 53	100 0.16 23											82 15.5 14					
QH 250007 99181943 QH250007	1	FD 210042 QH 210013		107 60	91 68	100 45	104 26	87 34	86 44	106 27	88 41	96 34	114 -1.31 70	87 0.76 42	94 5 26	91 5.8 68	100 3.4 45	94 48 46	96 16.3 38	99 69 38	93 -37 12	85 3.2 42	90 5.7 31	88 1.0 22	99 24.4 41	92 -6 43	94 7 42	98 0.27 35	93 -0.78 33	77 -1.20 32
QH 250008 99181976 QH250008		FD 210042 QH 170106		110 60	85 66	105 48	123 22	86 30	93 43	92 24	91 39	84 32	113 -1.22 70	94 0.43 44	80 -8 22	85 2.5 66	105 5.0 48	97 58 45	86 8.7 31	87 18 33	80 -14 11	79 0.3 37	96 0.8 26	82 2.3 18	94 21.6 38	86 -10 38	84 -3 36	90 -0.56 34	86 -1.31 31	73 -1.40 30
QH 250013 99203663 QH250013		QH 210056 QH 220131		95 56	96 63	106 39	106 19	101 26	99 39	79 22	94 36	86 32	95 0.62 68	98 0.26 36	92 4 19	96 8.6 63	106 5.3 39	104 76 40	93 14.3 30	87 18 32	84 -22 7	97 9.6 36	107 -7.5 22	98 -1.1 13	97 22.9 34	94 -5 37	89 2 36	102 0.68 33	67 -2.91 30	88 -0.55 30
QH 250014 99198913 QH250014	1	QH 210056 QH 220073		119 61	101 68	104 45	102 26	108 32	114 44	91 26	109 40	97 36	113 -1.26 72	110 -0.28 42	95 7 26	101 11.1 68	104 4.6 45	105 78 46	100 20.1 37	97 59 39	95 -40 8	111 17.2 43	107 -7.8 27	109 -3.7 16	102 25.7 40	95 -4 44	96 8 42	111 1.62 38	69 -2.78 35	96 -0.08 35
QH 250015 99203671 QH250015		QH 210056 QH 220108		116 56	87 63	105 39	110 19	101 26	99 39	77 22	93 36	82 32	114 -1.34 68	103 0.02 36	89 1 19	87 3.9 63	105 4.9 39	96 55 40	85 8.4 30	84 7 32	81 -17 7	94 8.1 36	108 -8.4 22	97 -1.0 13	97 22.9 34	91 -7 37	86 -1 36	99 0.39 33	67 -2.95 30	87 -0.62 30
QH 250016 99212201 QH250016	1	FD 200011 QH 140077		99 65	98 70	104 53	99 27	104 36	99 47	86 34	95 44	97 38	100 0.06 74	97 0.31 51	98 10 27	98 9.2 70	104 4.8 53	101 68 50	97 17.4 43	96 55 42	94 -39 21	96 9.4 47	104 -5.4 32	97 -1.0 21	109 29.0 44	67 -22 48	86 -1 46	114 1.90 40	94 -0.66 37	93 -0.26 36
QH 250017 99224255 QH250017	6	QH 210056 QH 220019		96 61	109 68	96 44	88 26	103 32	99 44	87 26	95 40	96 36	92 0.96 72	106 -0.10 41	112 23 26	109 15.2 68	96 2.1 44	99 63 46	103 22.4 40	95 52 39	97 -44 9	107 15.1 44	102 -3.8 26	107 -3.3 16	99 24.1 40	89 -8 44	92 4 43	108 1.28 38	72 -2.51 35	94 -0.18 35
QH 250019 6020294085 QH250019		QH 210056 QH 220126		126 56	87 63	107 39	106 19	101 26	101 39	79 22	95 36	85 32	124 -2.39 68	104 0.00 36	91 3 19	87 3.6 63	107 5.5 39	96 56 40	86 8.6 30	86 16 32	84 -21 7	96 9.3 36	107 -7.6 22	98 -1.1 13	97 22.9 34	93 -5 37	89 1 36	102 0.64 33	67 -2.92 30	88 -0.56 30
QH 250022 6020294101 QH250022		QH 210056 QH 220104		116 56	89 63	106 39	108 19	101 26	100 39	78 22	94 36	84 32	114 -1.35 68	103 0.06 36	90 2 19	89 4.7 63	106 5.2 39	98 59 40	87 9.5 30	85 12 32	83 -19 7	95 8.8 36	108 -8.0 22	97 -1.1 13	97 23.2 34	92 -6 37	87 0 36	100 0.53 33	67 -2.93 30	87 -0.58 30

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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																													
QH 250026 99265480 QH250026	2	FD 210042 QH 200050	72 62	119 68	94 46	100 29	90 35	98 45	115 28	100 42	108 38	62 3.97 72	103 0.03 44	99 10 29	119 20.4 68	94 1.4 46	111 93 48	115 31.9 44	108 102 40	103 -55 13	94 8.3 44	87 7.9 31	97 -1.1 23	102 25.4 42	96 -3 45	101 13 44	104 0.94 40	97 -0.40 37	85 -0.74 36
QH 250028 99326662 QH250028		FD 200011 QH 210134	95 59	103 66	101 44	99 23	90 30	93 42	90 29	91 39	101 34	92 0.93 70	104 -0.01 41	99 10 23	103 12.1 66	101 3.5 44	103 72 44	99 19.2 34	99 65 35	95 -40 20	99 11.0 38	90 5.1 26	89 0.7 18	104 26.9 37	81 -13 39	94 6 38	116 2.13 36	95 -0.60 33	89 -0.48 33
QH 250029 99326852 QH250029		QH 210056 QH 220121	119 56	85 64	107 39	106 19	101 26	97 39	79 22	91 36	85 32	133 -3.24 68	105 -0.06 36	92 3 19	85 2.5 64	107 5.8 39	95 52 41	84 7.5 30	86 16 32	84 -21 7	96 9.3 36	107 -7.4 22	98 -1.2 13	97 22.9 34	93 -5 37	89 1 36	102 0.64 33	67 -2.92 30	88 -0.56 30
QH 250030 99358202 QH250030		QH 210056 QH 220023	107 48	106 68	103 43	95 25	104 29	108 41	88 22	103 37	96 34	105 -0.41 55	104 -0.01 36	103 15 25	106 13.5 68	103 4.4 43	106 79 45	103 22.1 40	96 55 34	94 -39 7	103 13.2 38	106 -7.1 26	103 -2.4 15	100 24.7 38	99 -2 39	96 9 37	110 1.49 35	72 -2.51 32	91 -0.37 31
QH 250032 99358210 QH250032	1	FD 200011 QH 210026	107 64	110 70	102 47	94 28	92 35	105 46	102 32	103 43	113 40	102 -0.10 74	108 -0.21 46	104 15 28	110 15.9 70	102 4.1 47	108 87 48	109 26.9 42	111 115 41	109 -66 20	110 16.9 45	84 9.6 32	97 -1.0 21	110 29.6 42	81 -14 46	100 12 45	127 3.28 42	91 -0.94 39	94 -0.18 39
QH 250034 99358236 QH250034	2	FD 200011 QH 140058	70 66	121 72	96 53	89 30	88 37	94 48	102 34	94 45	111 35	73 2.85 75	92 0.57 50	111 22 30	121 21.6 53	96 2.0 52	109 89 52	117 33.6 44	110 112 42	107 -62 22	110 16.5 47	79 13.4 33	103 -2.3 22	100 24.5 46	87 -9 48	101 13 46	118 2.33 36	106 0.27 34	96 -0.10 33
QH 250035 6020290364 QH250035	1	FD 200011 QH 200032	77 64	129 71	93 48	84 27	96 36	105 46	109 33	105 43	121 40	66 3.58 74	112 -0.37 47	119 30 27	129 26.0 71	93 0.9 48	110 92 49	124 38.6 46	118 142 42	112 -71 20	129 27.0 46	85 8.8 36	105 -2.7 20	109 29.2 43	90 -7 47	109 21 46	134 4.00 42	97 -0.46 39	103 0.35 38
QH 250039 99416182 QH250039		FD 200011 QH 150196	117 65	88 71	100 53	110 23	85 32	88 46	82 29	84 43	90 34	105 -0.45 74	120 -0.74 50	89 1 23	88 3.9 71	100 3.3 53	92 43 49	85 8.4 42	89 28 35	86 -25 20	90 6.1 38	85 9.1 30	84 1.8 18	105 27.3 41	71 -20 39	81 -5 38	107 1.18 36	94 -0.71 33	85 -0.71 33
QH 250041 6020481260 QH250041		QH 210056 QH 220138	123 56	90 64	108 39	104 19	101 26	103 39	80 22	97 36	88 32	122 -2.17 68	102 0.08 36	94 5 19	90 5.4 64	108 6.1 39	100 65 41	89 11.1 30	88 23 32	85 -24 7	98 10.3 36	106 -6.8 22	98 -1.3 13	97 23.2 34	95 -4 37	91 4 36	103 0.83 33	67 -2.90 30	89 -0.51 30
QH 250042 99504086 QH250042		FD 200011 QH 160101	70 64	113 70	111 51	90 23	95 32	99 45	96 30	97 42	108 34	82 1.97 73	76 1.28 48	108 19 23	113 17.3 70	111 7.2 51	117 109 48	113 29.8 38	107 98 37	103 -55 20	107 15.1 42	93 2.9 26	96 -0.8 18	106 27.6 40	85 -10 43	100 13 41	119 2.47 36	104 0.11 33	95 -0.13 33
QH 250045 99504110 QH250045		FD 200011 QH 170129	101 64	104 69	103 50	97 23	95 32	100 45	98 31	98 42	108 34	99 0.24 73	104 -0.01 48	101 12 23	104 12.7 69	103 4.3 50	105 77 47	105 23.8 38	107 97 37	106 -60 20	98 10.5 42	91 4.3 26	99 -1.4 18	105 27.0 40	78 -15 43	94 7 41	118 2.40 36	102 -0.02 33	98 0.02 33
QH 250048 99507550 QUAGGAFONTEIN QH2500		QH 230106	114 47	84 56	110 24							119 -1.83 62	92 0.53 21		84 2.0 56	110 6.8 24							84 16.7 12						

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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																													
QH 250051		FD 200011	99	105	99	99	91	97	90	94	101	96	105	99	105	99	103	101	99	95	100	90	90	106	81	94	116	95	89
99504151		QH 190167	61	68	48	23	30	43	29	40	34	0.53	-0.06	10	13.3	2.9	72	20.7	67	-41	11.2	5.6	0.6	27.9	-13	7	2.16	-0.59	-0.47
QH250051												71	43	23	68	48	46	37	35	20	38	26	18	38	39	38	36	33	33
QH 250053		QH 230105	92	97	112							98	88		97	112							84						
99577660			47	56	24							0.26	0.75		9.1	7.4							16.7						
QH250053												62	21		56	24							12						
QH 250058	1	FD 200011	82	113	100	97	93	99	95	97	103	79	102	101	113	100	110	111	104	102	109	88	98	105	84	96	116	98	101
99561664		QH 150135	63	69	53	26	35	46	34	44	38	2.23	0.07	12	17.5	3.2	90	28.2	89	-53	16.0	6.7	-1.2	27.0	-12	8	2.14	-0.33	0.20
QH250058												72	47	26	69	53	49	42	41	21	46	29	20	44	47	45	39	36	35
QH 250060		FD 200011	85	101	89	109	91	87	83	84	91	82	104	91	101	89	93	95	91	87	92	93	87	106	72	83	108	94	86
99610057		QH 190131	61	68	48	23	30	43	29	40	34	1.94	0.01	2	11.1	-0.5	47	15.9	34	-27	6.9	2.7	1.2	27.5	-19	-4	1.33	-0.70	-0.68
QH250060												71	43	23	68	48	46	38	35	20	38	26	18	38	39	38	36	33	33
QH 250062		FD 200011	89	101	95	106	90	90	89	88	94	88	99	93	101	95	98	97	91	85	90	93	87	104	76	88	110	94	87
99610073		QH 160113	64	70	52	23	32	45	30	42	34	1.29	0.23	4	11.1	1.8	61	17.2	36	-23	5.8	3.3	1.1	26.6	-17	1	1.54	-0.69	-0.60
QH250062												73	48	23	70	52	48	36	37	20	42	26	18	41	43	41	36	33	33
QH 250073		FD 200011	90	103	98	102	90	92	88	89	98	87	103	96	103	98	101	99	96	93	97	91	89	104	78	91	114	95	88
6020504798		QH 210122	59	66	44	23	30	42	29	39	34	1.42	0.05	8	12.1	2.7	68	18.7	56	-37	9.9	4.6	0.8	26.9	-15	3	1.89	-0.63	-0.54
QH250073												70	41	23	66	44	44	34	35	20	38	26	18	37	39	38	36	33	33
QH 260002		QH 210142	119									127	94										82						
6020529720			49									-2.63	0.47										15.5						
QH260002												63	24										14						
QH 260004	1	FD 200011	84	112	88	98	92	92	95	91	104	77	110	101	112	88	98	106	102	99	108	89	92	106	82	95	120	96	95
6020529738		QH 210115	61	67	45	24	32	43	30	40	36	2.44	-0.30	12	16.7	-0.6	61	24.4	80	-47	15.5	5.8	0.0	27.7	-12	8	2.52	-0.54	-0.15
QH260004												71	43	24	67	45	45	39	37	20	42	28	19	40	42	41	38	35	35
QH 260005	2	FD 200011	87	110	99	92	91	94	90	91	104	93	87	107	110	99	104	107	100	99	110	89	94	104	73	92	116	99	98
6020525470		QH 140139	63	71	53	27	36	47	34	44	38	0.78	0.78	18	15.7	3.0	76	25.0	72	-48	16.6	6.1	-0.3	26.6	-18	4	2.17	-0.26	0.02
QH260005												73	47	27	71	53	50	41	42	21	47	30	20	45	48	46	39	36	35
QH 260006	1	FD 200011	118	103	85	102	92	96	93	94	101	108	118	97	103	85	90	99	102	102	101	88	95	107	80	92	116	98	86
6020525488		QH 200025	64	70	49	29	35	46	32	43	38	-0.71	-0.67	8	12.1	-1.6	38	19.0	77	-53	11.9	6.6	-0.6	28.1	-14	5	2.15	-0.37	-0.66
QH260006												74	46	29	70	49	49	42	40	21	44	33	21	43	45	44	39	36	36

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	QH 230050	QH230050	BH 170027	QH 150135	1.5	HH	0	0	0		100 83	110 86	115 83	92 80	100 81	113 75	104 80	111 76
1	FD 210042	BRUNOU	FD 160081	FD 140071	19.6	HH	0	0	0		80 87	109 88	111 84	112 81	86 83	106 77	126 82	109 78
2	QH 230022	QH230022	BH 170027	QH 150160	0.2						97 67	109 72	107 59	98 35	95 43	106 51	97 32	103 47
3	QH 230026	QH230026	BH 170027	QH 160024	0.7						91 68	104 73	107 58	107 38	91 44	102 52	97 32	100 48
4	QH 240033	QH240033	LL 210030	QH 150215	0.0						98 61	94 68	118 50	97 23	109 38	106 45	102 36	104 43
5	QH 240053	QH240053	LL 210016	QH 160101	0.0						89 63	104 69	117 51	86 26	102 39	102 47	88 36	97 45
6	QH 240056	QH240056	LL 210030	QH 170130	0.0						73 59	111 67	111 47	91 22	104 37	104 44	92 36	101 42
1	FD 200011	GEORGE	GR 150239	FD 170024	1.4	HH	0	0	0		88 92	119 94	86 86	97 83	90 85	98 80	101 85	97 81
2	QH 230030	QH230030	BH 170027	QH 150036	0.1	HH	0	0	0		116 86	93 87	113 84	99 81	83 82	94 76	90 81	91 77
3	QH 230060	QH230060	QH 200033	QH 150215	0.0						104 48	91 67	103 48	101 16	107 28	97 40	87 22	93 36
4	QH 230070	QH230070	BH 170027	QH 130064	0.9						103 68	97 73	115 59	104 38	86 43	99 52	92 32	96 48
5	QH 240037	QH240037	LL 210016	QH 160113	0.0						99 63	94 69	101 52	99 26	97 39	90 47	92 36	88 45
6	QH 240039	QH240039	LL 210016	QH 180131	0.0						99 60	101 66	108 47	92 26	94 38	95 44	91 36	93 42
7	QH 240041	QH240041	LL 210016	QH 140092	0.0						100 64	99 70	102 53	99 27	102 40	99 48	87 36	95 46
8	QH 240049	QH240049	LL 210016	QH 150135	0.8						109 62	96 71	108 53	93 28	100 40	98 48	92 39	95 46
9	QH 240054	QH240054	LL 210016	QH 150160	0.8						105 64	100 71	94 53	97 31	101 42	96 49	88 38	92 47
10	QH 240057	QH240057	LL 210016	QH 170048	1.4						102 64	111 71	88 52	94 35	96 45	97 50	93 40	95 48
11	QH 240060	QH240060	LL 210016	QH 140139	0.9						78 62	109 71	104 53	87 29	97 41	94 48	92 40	92 46
12	QH 240061	QH240061	QH 210018	QH 190037	0.4						86 61	105 68	110 44	91 23	97 38	98 44	102 38	98 43
1	QH 230071	QH230071	QH 200033	QH 170019	3.6						90 63	100 69	90 48	96 30	104 34	87 46	92 24	86 42
2	QH 240017	QH240017		QH 140077	0.0						87 57	90 61	112 42	97 15	100 32	88 39	70 36	82 38

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	QH 240048	QH240048	LL 210030	QH 170129	0.0					101	62	119	68	115	49	84	22	109	29	123	43	113	20	121	38
1	QH 210026	2126	BH 170027	QH 170129	0.0					109	72	105	72	119	64	93	30	95	40	110	52	100	30	108	48
2	QH 240042	QH240042	LL 210030	QH 150196	0.0					123	63	101	69	113	51	94	22	99	29	111	44				
3	QH 240052	QH240052	LL 210030	QH 140058	1.0					81	64	123	71	109	51	83	29	103	35	113	47	111	26	112	43
4	QH 240063	QH240063	LL 210030	QH 150055	1.0					111	65	108	71	114	51	93	28	104	34	117	47	104	23	114	42
5	QH 240064	QH240064	LL 210030	QH 130026	1.4					91	65	117	57	106	51	84	28	106	35	110	43	109	24	109	39
6	QH 240065	QH240065	LL 210030	QH 170019	0.2					94	63	118	70	99	50	90	34	105	35	112	47	106	22	110	42
1	QH 140077	1477	QH 100038		0.0					84	75	98	71	117	82	87	29	116	43	102	55	84	34	97	51
2	QH 160001	QH 160001	PU 120091	QH 100049	3.1	HH	1	0	0	110	89	108	89	80	89	96	80	106	81	100	78	93	80	98	78
3	QH 170129	QH 170129			0.0	HH	0	0	0	94	81	109	79	115	84	88	72	99	74	107	71	103	74	105	72
4	QH 200032	2032	QH 170058	QH 140075	3.4					87	74	115	75	107	69	79	28	104	44	103	54	109	32	104	50
5	QH 210057	QH210057	QH 180059	QH 150215	0.0					107	69	102	71	111	60	93	18	104	35	107	47	98	20	104	42
6	QH 220041	QH220041	QH 170058	QH 140077	3.4					92	70	108	73	94	64	85	38	118	43	102	53	97	32	100	49
7	QH 220045	QH220045	QH 170058	QH 160122	0.0					113	67	97	70	103	53	89	26	107	40	100	48	97	28	98	44
8	QH 220046	QH220046	QH 170058	QH 120013	3.2					101	71	106	75	92	65	99	45	102	48	100	56	106	34	100	52
9	QH 220073	QH220073	QH 170058	QH 150215	0.0					103	68	102	72	103	63	105	35	105	37	108	51	96	28	105	46
10	QH 230025	QH230025	BH 170027	QH 140092	0.0					106	68	88	72	119	59	119	32	95	39	107	50	83	30	101	46
11	QH 230031	QH230031	BH 170027	QH 140075	0.2					110	71	96	74	118	66	96	32	100	42	106	53	94	33	102	49
12	QH 230032	QH230032	BH 170027	QH 170024	0.4					105	68	99	73	100	58	116	38	90	44	102	52	90	32	99	48
13	QH 230044	QH230044	BH 170027	QH 160001	0.5					114	61	99	74	104	60	105	38	97	44	105	52	90	32	101	48
14	QH 230052	QH230052	BH 170027	QH 180056	0.0					105	53	94	70	111	56	113	30	90	38	102	47	82	28	96	43
15	QH 240038	QH240038	LL 210016	QH 140062	1.3					94	65	110	71	99	54	88	33	114	37	107	49	88	28	102	45
16	QH 240058	QH240058	LL 210016	QH 160001	1.4					119	66	102	72	88	54	96	35	105	38	101	50	89	28	97	46

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											
											★★★★																	
1	QH	140057	1457	PU 080148	QH 090056	0.1				0		99	90	100	90	95	91	121	84	86	84	99	80	101	84	98	81	
2	QH	140058	1458	QH 100070	QH 080039	2.1						74	80	117	79	108	81	81	38	86	46	93	60	103	38	93	56	
3	QH	150160	15160	PU 120091		0.0						94	73	108	71	87	81	97	34	99	45	95	56	93	32	93	51	
4	QH	170012	QH 170012		QH 140057	0.0						92	75	95	75	99	78	123	61	86	36	93	59	85	28	90	53	
5	QH	180036	QH 180036	PU 120091	QH 140109	1.6						63	76	118	76	104	76	85	42	86	46	90	58	103	28	91	52	
6	QH	190026	1226	PU 150184	QH 140029	0.9						95	76	105	78	79	75	105	46	104	48	93	59	86	33	89	54	
7	QH	190063	1963		QH 130009	0.0						100	72	91	71	118	68	102	34	96	28	98	50					
8	QH	200027	2027	QH 170058	QH 140029	1.4						92	75	113	77	75	73	97	38	111	48	98	57	96	32	97	52	
9	QH	220023	QH220023		QH 150036	0.0						96	58	97	67	106	56	95	32	98	27	93	45					
10	QH	230063	QH230063	QH 200033	QH 150055	1.1						82	63	111	69	96	50	94	22	99	32	97	45	96	25	95	41	
11	QH	230065	QH230065	QH 200033	QH 170129	0.0						86	61	108	66	101	47	90	14	105	26	99	41	99	22	98	37	
12	QH	240013	QH240013	BH 170027	QH 190107	0.0						106	61	88	66	115	51	113	30	91	38	99	46	82	28	94	42	
13	QH	240043	QH240043	LL 210016	QH 170042	1.7						97	65	111	71	95	52	92	35	95	38	97	49	91	28	95	45	
14	QH	240045	QH240045	LL 210016	QH 180020	1.2						94	64	102	71	94	51	104	33	94	38	93	48	85	28	90	44	
15	QH	240050	QH240050	LL 210016	QH 190167	0.0						119	60	86	68	108	48	103	26	98	30	95	44	80	21	90	39	
16	QH	240055	QH240055	LL 210016	QH 170024	1.0						94	65	105	71	85	52	105	34	98	38	94	49	88	26	91	44	
17	QH	240059	QH240059	LL 210016	QH 180056	0.0						109	60	88	68	102	50	108	26	99	31	94	44	76	21	88	39	
18	QH	240062	QH240062	LL 210016	QH 150036	0.2						111	65	96	72	95	54	98	33	104	38	96	49	86	26	92	44	
19	QH	240066	QH240066	QH 210018	QH 200163	0.0						88	58	99	64	107	42	101	21	96	28	95	40	92	22	92	36	
20	QH	240067	QH240067	LL 210016	QH 190026	0.9						96	64	108	69	88	51	99	35	103	38	99	48	87	28	95	44	
											★★★																	
1	QH	140139	14139	QH 100043		0.0						68	65	104	71	112	82	88	28	93	40	86	53	80	34	83	49	
2	QH	150036	QH 150036	PU 100057	QH 110121	0.0						110	80	92	81	91	84	97	44	105	50	89	62	89	28	87	55	
3	QH	170011	QH 170011		QH 140062	0.0						70	72	102	70	102	71	79	35	105	28	82	51					
4	QH	170016	QH 170016	QH 140004	QH 140092	0.0						124	76	70	76	76	79	131	37	109	40	83	57	73	22	78	50	
5	QH	170019	QH 170019	QH 140004	QH 140025	1.2						106	78	100	77	84	78	98	53	92	47	86	61	92	28	85	54	
6	QH	170024	QH 170024	PU 120091	QH 080009	0.4						91	78	106	77	74	77	115	46	92	50	89	60	91	31	88	54	
7	QH	170061	QH 170061	PU 100057	QH 100050	0.2						85	78	110	79	83	80	81	52	108	54	86	63	96	35	86	57	
8	QH	180020	QH 180020	PU 150184	QH 130009	1.0						81	76	106	78	91	76	109	44	85	47	88	59	87	34	86	54	
9	QH	180065	QH 180065	PU 120091	QH 110117	0.0						95	70	103	76	101	76	90	48	85	46	86	58	102	28	87	52	

Selection List on Cow Value

Cows 2 years and older

ID Name Sorted on ID		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									
										★★								
10	QH 190037 1937		QH 130026	0.0						77 70	101 69	110 63	93 18	94 31	89 47	88 24	87 42	
11	QH 190044 1944	QH 150013	QH 140149	0.8						85 73	97 73	80 70	108 38	104 42	84 55	88 26	82 49	
12	QH 200025 2025	PU 150184	QH 170016	0.2						135 72	80 67	88 72	110 34	96 40	86 52	84 30	83 48	
13	QH 200050 2050	QH 170035	QH 120013	1.6						83 72	111 75	81 68	96 38	96 42	88 55	99 32	89 50	
14	QH 220019 2219	QH 170035	QH 140139	4.4						73 67	117 72	88 62	77 35	95 36	83 51	89 29	82 47	
15	QH 220051 QH220051	QH 170058	QH 150196	0.0						113 69	94 73	103 64	94 26	89 40	89 51	91 26	88 46	
16	QH 230039 QH230039	QH 170058	QH 200163	0.0						94 62	97 65	99 48	94 26	99 34	89 44	93 26	87 40	
17	QH 230067 QH230067	QH 200033	QH 130026	3.8						89 64	104 69	93 50	89 23	101 33	89 45	94 26	88 41	
18	QH 240046 QH240046	LL 210016	QH 190131	0.0						96 60	92 68	96 48	106 26	98 31	88 44	77 21	83 39	
19	QH 240068 QH240068		QH 170061	0.0						81 57	110 60	91 41	89 26	97 28	89 40			
										★★★								
1	QH 230042 QH230042		QH 210013	0.0						113 52	83 60	97 34	103 14	87 20	77 35			

Selection List on Cow Value

Bull Calves younger than 2 years

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	QH 250036	QH250036	QH 210056	QH 220046	2.0		114 62	105 69	98 46	97 29	107 35	110 45	98 27	107 41	
1	QH 250009	QH250009	FD 210042	QH 200128	0.0		91 57	108 63	124 41	88 22	88 29	104 40	117 24	106 37	
2	QH 250027	QH250027	FD 200011	QH 140092	0.0		81 65	114 68	94 53	99 25	97 33	100 46	96 30	98 43	
3	QH 250067	QH250067	FD 200011	QH 140062	2.3		86 56	113 72	95 54	89 32	108 37	101 48	96 34	99 45	
4	QH 260003	QH260003	FD 200011	QH 210057	0.8		102 63	115 69	97 45	89 25	97 34	105 45	106 31	104 42	
1	QH 250006	QH250006	QH 210018	QH 170027	0.8		98 52	111 55	105 48	82 34	95 37	99 42	109 26	100 39	
2	QH 250012	QH250012	FD 200011	QH 180036	1.6		72 64	125 71	93 51	89 31	89 37	98 48	104 32	98 45	
3	QH 250023	QH250023	FD 200011	QH 190063	0.9		88 64	111 70	100 48	96 29	94 32	99 46	94 30	97 43	
4	QH 250024	QH250024	FD 200011	QH 180065	1.0		80 64	118 71	91 51	91 33	88 38	93 48	104 32	94 45	
5	QH 250061	QH250061	FD 200011	QH 200027	1.3		92 64	116 71	80 50	95 30	101 38	98 48	100 33	97 45	
6	QH 250065	QH250065	FD 200011	QH 150160	1.0		93 65	116 71	86 53	95 29	95 36	98 48	100 34	97 45	
7	QH 250066	QH250066	FD 200011	QH 150055	1.0		95 66	108 70	97 53	100 29	91 36	97 47	96 32	95 44	
8	QH 250069	QH250069	FD 200011	QH 170019	0.4		101 66	107 60	86 51	98 35	91 37	91 46	96 32	91 43	
9	QH 250072	QH250072	FD 200011	QH 190037	1.1		71 64	116 58	96 46	95 25	93 32	95 41	95 32	93 39	
10	QH 260001	QH260001	FD 200011	QH 170011	1.2		71 64	115 58	93 49	88 31	99 32	91 43	91 30	89 40	
11	QH 260007	QH260007	FD 200011	QH 140057	1.1		98 66	104 73	92 54	109 37	89 40	95 50	100 36	95 47	
1	QH 250046	QH250046	FD 200011	QH 190024	2.2		117 64	99 72	87 50	99 33	87 38	88 48	90 34	86 45	
2	QH 250064	QH250064	FD 200011	QH 140142	0.0		76 65	105 71	98 53	99 23	91 32	87 46	88 30	85 43	
3	QH 250071	QH250071		QH 230031	0.0		119 53	75 61	116 34	106 16	94 22	89 36			

Selection List on Cow Value

Heifers younger than 2 years

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									
Sorted on ID							nt821	Q204X	F94L										Genomic tested							
								★★★★☆																		
1	QH	250014	QH250014	QH 210056	QH 220073	1.4				119	61	101	68	104	45	102	26	108	32	114	44	91	26	109	40	
								★★★★																		
1	QH	250003	QH250003	LL 210030	QH 190169	0.0				113	53	100	60	112	37	96	22	103	27	109	38					
2	QH	250019	QH250019	QH 210056	QH 220126	0.0				126	56	87	63	107	39	106	19	101	26	101	39	79	22	95	36	
3	QH	250022	QH250022	QH 210056	QH 220104	0.0				116	56	89	63	106	39	108	19	101	26	100	39	78	22	94	36	
4	QH	250030	QH250030	QH 210056	QH 220023	0.2				107	48	106	68	103	43	95	25	104	29	108	41	88	22	103	37	
5	QH	250032	QH250032	FD 200011	QH 210026	0.8				107	64	110	70	102	47	94	28	92	35	105	46	102	32	103	43	
6	QH	250035	QH250035	FD 200011	QH 200032	1.5				77	64	129	71	93	48	84	27	96	36	105	46	109	33	105	43	
7	QH	250041	QH250041	QH 210056	QH 220138	0.0				123	56	90	64	108	39	104	19	101	26	103	39	80	22	97	36	
8	QH	250045	QH250045	FD 200011	QH 170129	0.0				101	64	104	69	103	50	97	23	95	32	100	45	98	31	98	42	
								★★★★☆																		
1	QH	250008	QH250008	FD 210042	QH 170106	0.0				110	60	85	66	105	48	123	22	86	30	93	43	92	24	91	39	
2	QH	250013	QH250013	QH 210056	QH 220131	0.0				95	56	96	63	106	39	106	19	101	26	99	39	79	22	94	36	
3	QH	250015	QH250015	QH 210056	QH 220108	0.0				116	56	87	63	105	39	110	19	101	26	99	39	77	22	93	36	
4	QH	250016	QH250016	FD 200011	QH 140077	1.2				99	65	98	70	104	53	99	27	104	36	99	47	86	34	95	44	
5	QH	250017	QH250017	QH 210056	QH 220019	5.8				96	61	109	68	96	44	88	26	103	32	99	44	87	26	95	40	
6	QH	250026	QH250026	FD 210042	QH 200050	1.8				72	62	119	68	94	46	100	29	90	35	98	45	115	28	100	42	
7	QH	250028	QH250028	FD 200011	QH 210134	0.0				95	59	103	66	101	44	99	23	90	30	93	42	90	29	91	39	
8	QH	250029	QH250029	QH 210056	QH 220121	0.0				119	56	85	64	107	39	106	19	101	26	97	39	79	22	91	36	
9	QH	250034	QH250034	FD 200011	QH 140058	1.6				70	66	121	72	96	53	89	30	88	37	94	48	102	34	94	45	
10	QH	250042	QH250042	FD 200011	QH 160101	0.0				70	64	113	70	111	51	90	23	95	32	99	45	96	30	97	42	
11	QH	250051	QH250051	FD 200011	QH 190167	0.0				99	61	105	68	99	48	99	23	91	30	97	43	90	29	94	40	
12	QH	250058	QH250058	FD 200011	QH 150135	1.0				82	63	113	69	100	53	97	26	93	35	99	46	95	34	97	44	
13	QH	250062	QH250062	FD 200011	QH 160113	0.0				89	64	101	70	95	52	106	23	90	32	90	45	89	30	88	42	
14	QH	250073	QH250073	FD 200011	QH 210122	0.0				90	59	103	66	98	44	102	23	90	30	92	42	88	29	89	39	
15	QH	260004	QH260004	FD 200011	QH 210115	0.8				84	61	112	67	88	45	98	24	92	32	92	43	95	30	91	40	
16	QH	260005	QH260005	FD 200011	QH 140139	1.6				87	63	110	71	99	53	92	27	91	36	94	47	90	34	91	44	
17	QH	260006	QH260006	FD 200011	QH 200025	0.7				118	64	103	70	85	49	102	29	92	35	96	46	93	32	94	43	

Selection List on Cow Value

Heifers younger than 2 years

ID Name Sorted on ID		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									
										★★								
1	QH 250007	QH250007	FD 210042	QH 210013	1.3					10760	9168	10045	10426	8734	8644	10627	8841	
2	QH 250039	QH250039	FD 200011	QH 150196	0.0					11765	8871	10053	11023	8532	8846	8229	8443	
3	QH 250060	QH250060	FD 200011	QH 190131	0.0					8561	10168	8948	10923	9130	8743	8329	8440	

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

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

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

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

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

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

How to use breeding values to select animals

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

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

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

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

How to improve the herd genetically

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

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

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

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

Conclusion

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

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

