

SANTA GERTRUDIS

GENOMIC BREEDING VALUE REPORT

September 2026



TRIPLE-S STUD

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EBVs, EBVi's and GEBVs

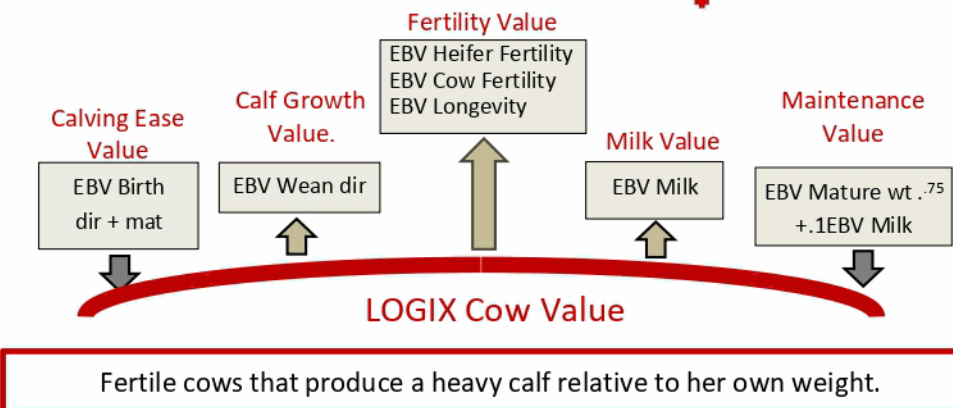
EBVi (Breeding Value Index): Genetic potential relative to the average (100) of the live (active) animals in the breed. Roughly 50% of the animals have values between 90 and 110. Values above 100, depending on the trait, tend to be in the more favourable direction.

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 Carcass Value



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

LOGIX Production Value



80% LOGIX Cow Value +
20% LOGIX Growth Value

How to use the Cow Value

Selection values should be compatible with your selection goal.

AVERAGE ANIMALS

(NO GROWTH EXTREMES)

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

GROWERS

(GOOD ENVIRONMENT)

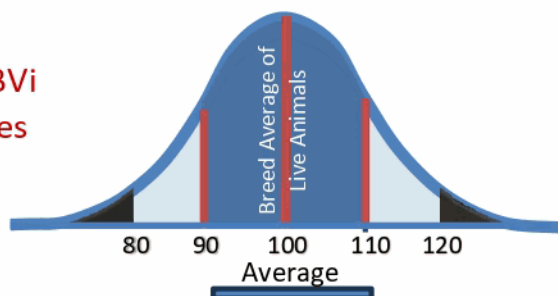
- WeanerCalf / Growth Value > 120
 - Cow Value and Fertility Value average to high
- Growers are usually heavier at birth (lower Calving Ease Value), and maturity (lower Maintenance Value).

LOW- MAINTENANCE ANIMALS

(HARSH ENVIRONMENT)

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

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

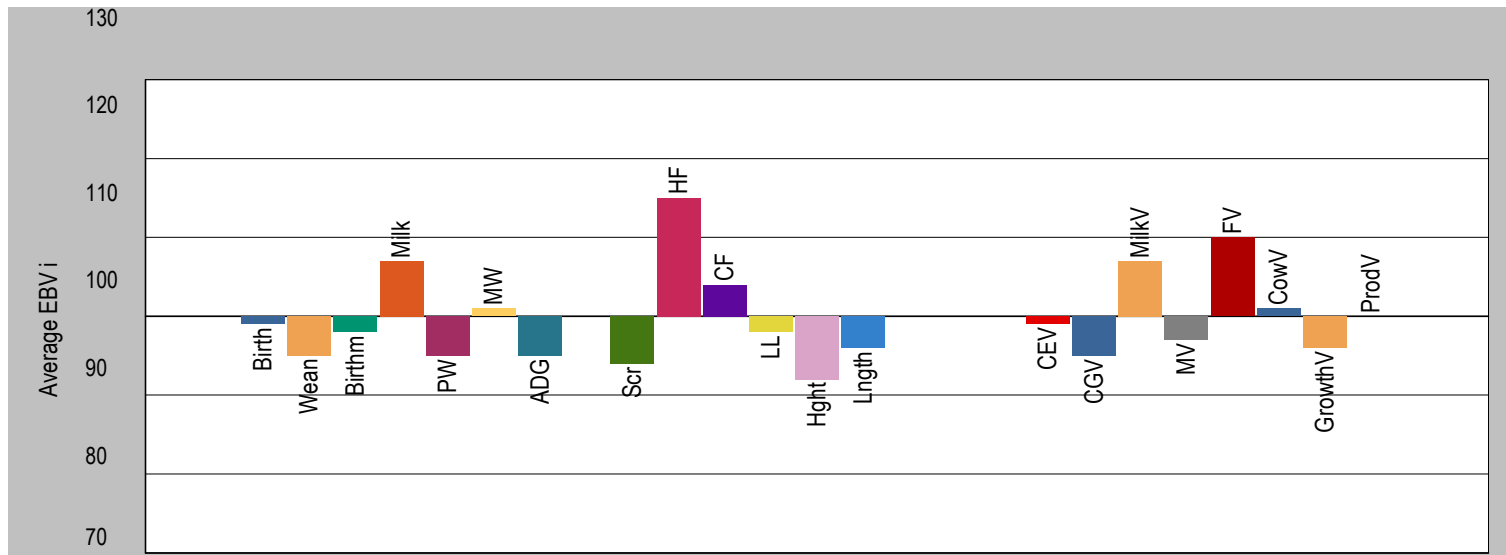
Larger groups result in more accurate and stable breeding values, as the mean and distribution of the group can be more accurately determined and are thus more representative. Groups should preferably have more than 5 animals. Weigh all the animals in the same group on the same day, as corrections for 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	RMV:	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
Prewrite Growth	Birth Weight	1.18	99	1.11
	Wean Weight	12.0	95	14.7
	Birth Mat.	0.00	98	-0.07
	Milk (Wn.Mat.)	2.7	107	0.7
Postwean Growth	Postwean Wt	19.1	95	23.1
	Mature Weight	21	101	19
	ADG	72	95	95
	FCR			
Fertility	Scrotal Circumf.	7.0	94	10.4
	Heifer Fertility	-16.0	115	-3.8
	Cow Fertility	-6.7	104	-5.8
	Longevity	31.9	98	33.0
Frame	Height	7	92	12
	Length	20	96	24
Carcass	Dressing%			
	RedMeatYield			
	Marbling			

Selection Value	Ave. Herd
Calving Ease	99
Calf Growth	95
Milk	107
Maintenance	97
Fertility	110
Cow Value	101
Growth Value	96
Production Value	100

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

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

Calving ease: Smaller calf at birth - easier calving

Calf growth: Heavier calves at wean due to growth potential of the calf

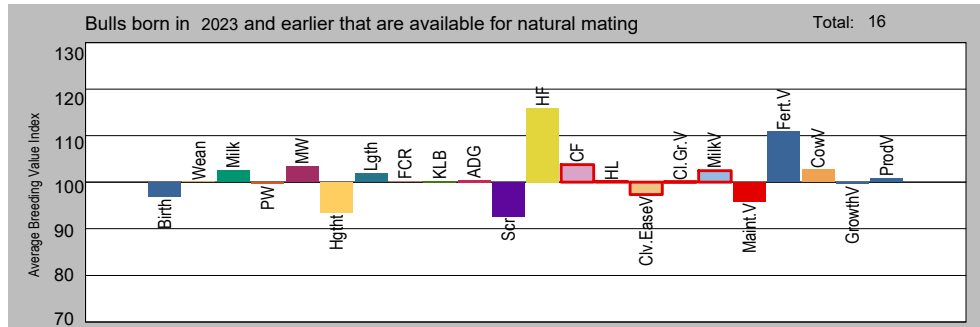
Milk: Cows with more milk and better mothering ability

Maintenance: Animals with low maintenance requirements (lower mature weight).

Fertility: Cows/daughters that calve

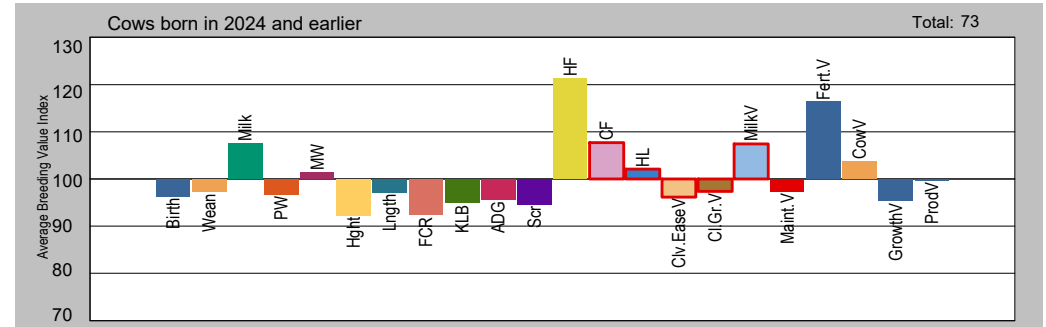
Genetic Windows

Bulls on the farm



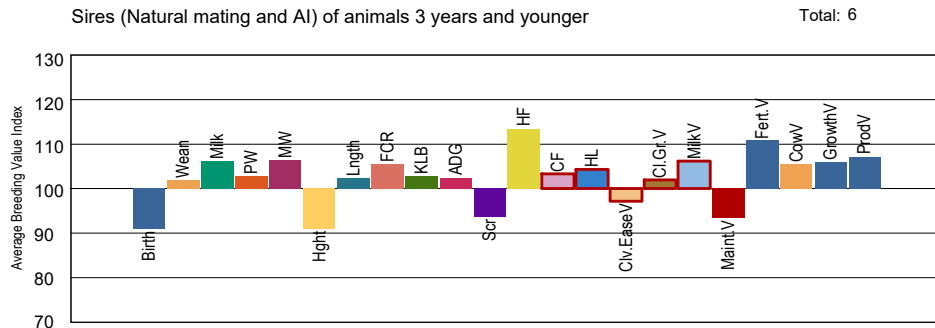
Animals available for breeding

Cow Herd

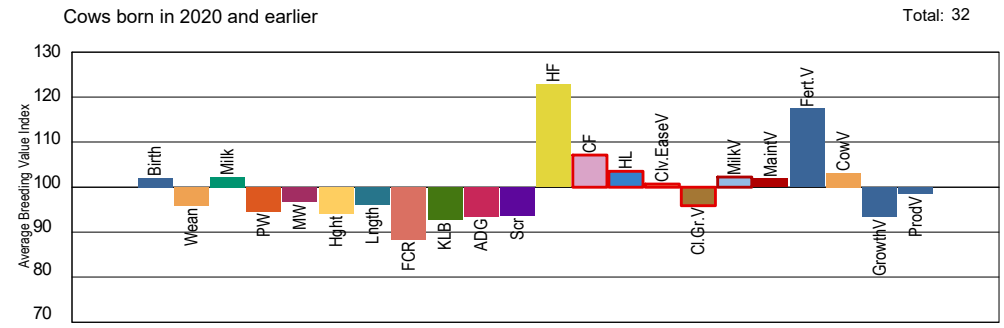


Results of previous selection decisions

Sires of young animals

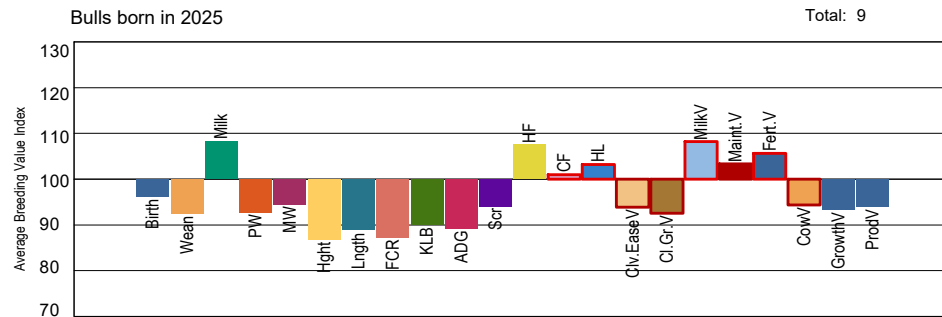


Cows older than 6 years

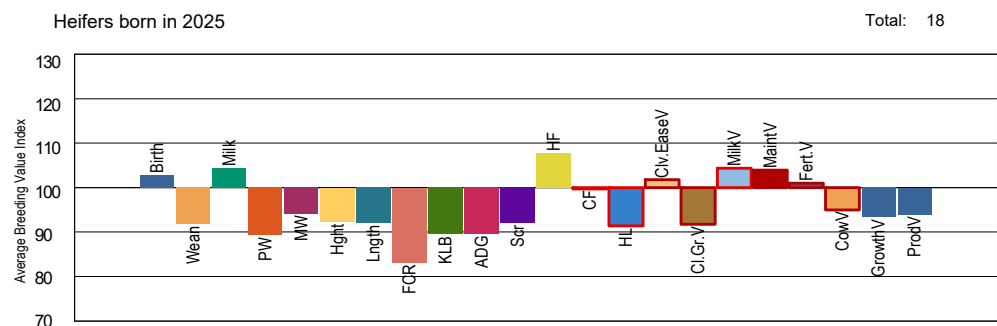


Selection possibilities

Bull calves



Heifer calves

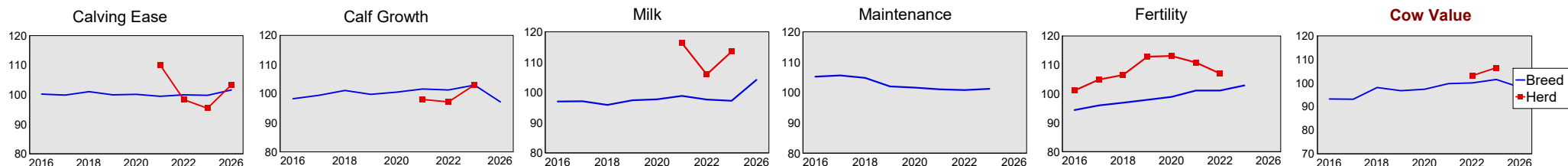


Summary of Cow Herd

			Selection Values (SV)								Calf Weight		Dam		Growth & Efficiency				Fertility				Frame	
Birth Year	No. Cows	Average Cow Value	Calving Ease	Calf Grwth	Milk	Maint.	Fertility	Cow Value	Growth Value	Prod Value	Birth Weight	Wean Weight	Birth Mat.	Milk (Wn.Mat)	Postwn Weight	Mature Weight	ADG	Kleiber	Scrotal Circumf.	Heifer Fertility	Cow Fertility	Longevity	Height	Length
			Cows in Breed Average:								100	100	100	100	100	100	100	100	99	99	100	100	100	100
2014	2	★★★★★	106	96	107	104	126	112	91	102	106	96	100	107	94	95	93	91	98	126	124	100	97	99
2015	3	★★★★☆	101	95	102	106	123	105	92	93	104	95	91	102	93	93	92	90	96	123	121	100	96	96
2016	3	★★★★	102	94	96	106	108	96			104	94	93	96	92	93	91	91	95	116	96	101	94	91
2017	11	★★★★☆	102	96	102	104	115	103	92	98	104	96	94	102	96	95	93	91	94	122	103	103	97	97
2018	5	★★★★☆	107	93	112	99	117	106	92	101	108	93	95	112	97	99	95	93	99	118	113	98	96	99
2019	7	★★★★☆	103	93	101	102	119	101	90	96	104	93	99	101	92	96	91	91	92	129	101	107	91	93
2020	7	★★★★☆	98	96	105	97	115	101	97	100	99	96	100	105	95	102	97	97	90	117	108	104	92	98
2021	10	★★★★☆	88	97	118	95	124	107	93	102	89	97	93	118	98	103	94	94	100	125	113	109	89	94
2022	15	★★★★☆	92	101	110	93	112	104	98	101	91	101	98	110	100	105	99	98	96	115	107	100	93	101
2023	11	★★★★☆	98	96	108	93	114	102	97	99	96	96	100	108	96	106	97	97	92	122	106	98	90	98
2024	11	★★★★	99	91	110	99	106	98	96	97	101	91	95	110	91	99	92	93	92	114	105	88	91	93
2025	18	★★★★	102	92	104	104	101	95	93	94	103	92	96	104	89	94	90	90	92	108	100	91	92	92
2026	20	★★★★	104	92	106	103	105	98	97	101	103	92	102	106	91	95	92	92	93	108	102	98	92	93
Cows in Herd Average:			100	95	106	100	114	102	94	99	101	95	97	106	94	98	94	93	95	119	108	100	93	96

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.



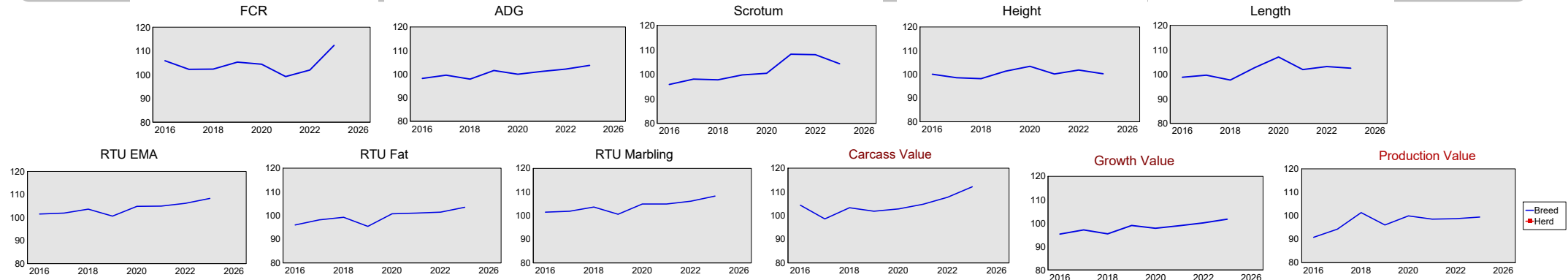
Herd

Birth Year	Calving Ease				Calf Growth			Milk		Maintenance				Fertility						Cow Value
	Birth Weight		Calv. Ease	Weaning Weight	Calf Growth	Milk (Wn.Mat.)		Postwean Weight	Mature Weight		Heifer Fert.	Cow Fert.		Longevity		Ferti- lity				
	Number	Dir EBV				Mat EBV	Number		EBV	Number		EBV	Number	EBV	Number		EBV	Number	EBV	
2016												21	-7.5	5	-8.9	21	19.6	101		
2017												25	-13.1	15	-5.8	25	26.5	105		
2018												14	-14.9	7	-8.1	14	25.7	107		
2019												11	-21.0	4	-6.5	10	29.7	113		
2020												17	-19.4	4	-8.0	14	29.3	113		
2021	2	0.73	-0.64	110	11	13.7	98	11	5.63	116		26	-15.8	6	-7.9	25	28.5	111		
2022	25	1.58	0.01	98	22	13.1	97	22	2.48	106		3	-15.2			5	33.0	107	103	
2023	5	1.57	0.05	95	2	16.3	103	2	4.77	114									107	
2026	33	0.86	-0.21	103																

Breed

Birth Year	Calving Ease				Calf Growth			Milk			Maintenance				Fertility						Cow Value		
	Birth Weight		Mat EBV	Calv. Ease	Weaning Weight		Calf Growth	Milk (Wn.Mat.)		Postwean Weight		Mature Weight		Mainte-nance	Heifer Fert.		Cow Fert.		Longevity			Ferti-lity	
	Number	Dir EBV			Number	EBV		Number	EBV	Number	EBV	Number	EBV		Number	EBV	Number	EBV	Number	EBV			Number
2016	2689	1.09	-0.07	100	1903	13.7	98	1903	-0.18	97	513	20.0	171	13	105	1226	-3.3	906	-4.7	5869	24.3	94	93
2017	2776	1.13	-0.09	100	2154	14.4	99	2154	-0.17	97	642	20.4	214	14	106	1179	-4.1	871	-4.8	5765	25.8	96	93
2018	2956	1.05	-0.07	101	2127	15.3	101	2127	-0.52	96	545	22.6	259	13	105	1243	-3.8	835	-5.5	6004	26.3	97	98
2019	3205	1.15	-0.07	100	2831	14.6	100	2831	-0.05	97	800	23.6	299	15	102	1189	-3.7	844	-5.7	5985	27.5	98	97
2020	3447	1.14	-0.10	100	3076	14.9	100	3076	0.03	98	695	23.9	286	17	102	1192	-3.4	704	-5.7	6060	28.1	99	97
2021	3337	1.21	-0.16	99	3401	15.6	102	3401	0.37	99	732	22.7	273	17	101	1071	-4.0	641	-6.0	5554	29.9	101	100
2022	3474	1.17	-0.14	100	3746	15.4	101	3746	0.01	98	748	23.3	226	18	101	854	-3.8	274	-6.5	2809	29.7	101	100
2023	3301	1.22	-0.18	100	3337	16.3	103	3337	-0.10	97	702	24.6	48	23	101	435	-2.9	15	-7.5			103	102
2024	3311	1.17	-0.16	100	3379	16.1	103	3379	0.56	99	667	25.1			101	21	-6.0					108	103
2025	3015	1.12	-0.13	101	1920	16.2	103	1920	0.86	100	441	17.5			105								104
2026	1509	1.01	-0.07	102	57	13.1	97	57	1.96	104													98

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																									
2018																									
2019																									
2020																									
2021																									
2022																									
2023																									
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	73	-23	102	285	93	100	299	9.4	98	288	11	99	285	24	100	202	0.47	96	-0.03	98	0.58	102	99	97	94
2018	47	-23	102	220	86	98	275	9.2	98	248	11	98	220	22	98	123	0.85	101	0.10	99	0.72	104	103	95	101
2019	55	-26	105	256	102	102	338	10.3	100	253	13	101	183	27	103	206	1.00	103	-0.39	95	0.48	101	102	99	96
2020	30	-25	104	229	95	100	292	10.6	100	170	14	103	138	32	107	206	0.67	99	0.29	101	0.82	105	103	98	100
2021	35	-19	99	271	100	101	299	14.8	108	278	12	100	271	27	102	196	1.02	103	0.33	101	0.82	105	105	99	99
2022	22	-22	102	198	104	102	198	14.7	108	198	13	102	198	28	103	83	1.38	107	0.38	101	0.92	106	108	100	99
2023	28	-34	112	154	111	104	154	12.8	104	154	12	100	154	27	103	99	1.43	108	0.64	103	1.10	108	112	102	99
2024	28	-28	107	96	148	112	95	14.8	108	135	15	105	135	37	111	104	1.50	109	0.70	104	0.92	106	114	111	107
2025				94	70	94	94	12.6	104	136	13	101	136	25	100	32	1.90	114	1.19	108	1.46	113		92	95
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
				Ease Value	Grwth Value	Value	Value	Value	Value	Value	Dir	Dir	Mat.	Mat.	wt	weight						Fertility	Fertility	ty						Grwth Test
HH 130032		DJW 080041		102	100	100	83	111	101	113	101	97	100	120	100	100	119	108	117	82	123	97	97	85	104	107	97	91	17	41
KNOX		HH 080015		89	92	87	81	87	83	85	83	1.33	14.4	-0.83	0.6	22.8	37	130	-40	0.5	-22.4	-5.2	31.0	3	29	1.36	-0.19	-0.32	7	9 22
KT 130008		DJW 070059		105	94	83	112	87	83	88	80	102	94	108	83	97	88	90	92	86	87	90	98	79	85	91	94	97		
KT130008		KT 100014		71	59	55	21	52	53	31	49	0.91	11.2	-0.39	-4.4	21.1	8	53	-11	2.7	6.4	-3.7	31.7	-1	8	0.01	-0.63	0.19		
SP 110035		CVF02022		82	121	103	94	99	113	110	111	74	121	97	103	121	105	116	113	101	101	106	88	107	125	135	87	114	3	16
CONRAD		SP 060001		69	84	72	30	75	69	72	70	3.34	26.0	0.06	1.7	39.1	24	163	-35	11.1	-4.5	-7.0	24.7	16	51	3.69	-1.53	1.57	1	8 11
SS 110024		JO 060210		78	105	136	85	122	116	100	112	61	105	85	136	112	113	98	104	108	123	119	98	82	93	112	97	90	39	32
SIR		ER 050030		89	89	76	47	72	76	49	71	4.50	17.5	0.52	11.7	32.3	32	87	-25	14.9	-22.4	-9.7	31.6	1	17	1.78	-0.17	-0.37	3	9 23
TDA 20-0015		KT 130008		108	89	93	117	88	85			105	89	108	93	90	83	86	90	87	87	84	110	81	84	89	98	90	12	
DRUKWERK 20-0015TDA		TDA 090029		68	32	31	12	35	36			0.71	8.8	-0.38	-1.4	15.2	3	36	-8	3.6	6.5	-2.6	39.8	1	7	-0.12	-0.11	-0.38		
UOJ 210032		HH 130032		104	96	95	95	114	99	97	96	102	96	106	95	96	104	97	99	85	117	98	115	88	97	96	101	94		
UOJ2132		UOJ 170010		44	49	45	22	45	42	35	41	0.91	12.4	-0.30	-0.9	19.7	23	83	-18	2.4	-17.4	-5.3	43.2	5	21	0.47	0.36	-0.04		
UOJ 210056		HH 130032		109	101	110	86	131	119	110	116	107	101	131	110	98	115	110	110	99	130	116	118	103	111	111	108	104	10	
BW: TRIPLE S UOJ2156		UOJ 160010		67	64	49	23	46	53	36	50	0.53	15.3	-1.27	3.7	21.4	33	136	-31	9.6	-27.6	-9.0	45.2	14	36	1.66	1.21	0.75		
VV 050080		JO 010002		98	105	72	104	75	81	107	82	94	105	113	72	101	96	108	105	99	93	75	75	95	96	95	106	93		
05 80		VV 020237		60	68	55	20	60	56	22	49	1.60	17.2	-0.59	-7.9	23.8	16	130	-26	9.6	1.9	-0.8	16.2	9	20	0.38	0.91	-0.10		
VV 100108		JL 050119		114	104	99	105	132	123	101	118	113	104	137	99	102	93	106	117	93	130	133	95	103	102	93	117	112		
VV100108		VV 010199		74	74	71	29	73	65	32	58	0.02	16.6	-1.52	0.4	24.8	12	121	-40	6.6	-28.0	-12.6	29.6	14	26	0.17	2.35	1.39		5 8
VV 120048		KT 080031		100	107	79	107	98	98	96	95	97	107	111	79	110	93	101	104	85	118	75	101	98	100	84	94	85		
VV120048		VV 080159		70	71	68	15	72	62	26	55	1.37	18.5	-0.51	-5.8	30.5	12	101	-25	2.0	-18.1	-0.7	33.9	11	24	-0.55	-0.55	-0.77		11 13

Breeding Values and Accuracies: Bulls

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

Inbreeding in red is high

Value <80 Value >120

Breeding values with an accuracy < 5% are not printed

Animal				Selection Values								Birth		Wean				Growth			Fertility				Frame		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																															
TDA 20-0015 99945438 DRUKWERK 20-0015TDA		KT 130008 TDA 090029		108 68	89 32	93 31	117 12	88 35	85 36			79 14	105 0.71 76	108 -0.38 34	83 3	89 8.8 32	93 -1.4 31	89 28 25		90 15.2 20	86 36 20	90 -8 12	87 3.6 22	87 6.5 31	84 -2.6 21	110 39.8 52	81 1 17	84 7 16	89 -0.12 14	98 -0.11 13	90 -0.38 12
UOJ 210012 291354991 BW: TRIPLE S UOJ2112		SP 110035 UOJ 170041		87 38	107 45	100 40	100 16	105 45	103 38	97 36	100 38	102 31	90 1.95 39	96 0.08 35	99 18 16	107 18.8 45	100 0.8 40	107 71 34		107 28.5 25	103 107 33	98 -18 36	97 8.7 38	113 -14.4 51	101 -5.9 30	92 27.5 53	101 13 39	109 34 37	112 1.79 33	96 -0.29 29	106 0.95 29
UOJ 210032 291355212 UOJ2132	1	HH 130032 UOJ 170010		104 44	96 49	95 45	95 22	114 45	99 42	97 35	96 41	93 33	102 0.91 46	106 -0.30 37	104 23 22	96 12.4 49	95 -0.9 45	90 30 39		96 19.7 26	97 83 34	99 -18 33	85 2.4 38	117 -17.4 51	98 -5.3 27	115 43.2 56	88 5 38	97 21 36	96 0.47 34	101 0.36 32	94 -0.04 31
UOJ 210056 291378222 BW: TRIPLE S UOJ2156	2	HH 130032 UOJ 160010		109 67	101 64	110 49	86 23	131 46	119 53	110 36	116 50	109 34	107 0.53 73	131 -1.27 41	115 33 23	101 15.3 64	110 3.7 49	103 62 45		98 21.4 28	110 136 35	110 -31 34	99 9.6 38	130 -27.6 51	116 -9.0 29	118 45.2 58	103 14 38	111 36 37	111 1.66 35	108 1.21 32	104 0.75 31
UOJ 230009 96191200 UOJ2309		SP 110035 UOJ 190016		84 39	108 46	102 40	100 16	102 44	102 38	98 36	99 38	101 31	87 2.19 40	95 0.12 35	98 18 16	108 19.2 46	102 1.2 40	109 77 34		108 29.0 25	103 110 33	99 -19 36	96 8.2 38	106 -8.8 52	97 -5.2 28	99 32.4 52	102 13 39	109 34 37	113 1.81 33	92 -0.84 29	99 0.36 29
UOJ 230010 96191226 UOJ2310		SP 110035 UOJ 200055		90 41	108 48	103 42	94 19	113 45	109 40	105 40	107 40	106 35	90 1.98 42	105 -0.28 37	105 24 19	108 19.3 48	103 1.8 42	108 74 36		108 29.0 28	108 130 37	108 -30 39	95 7.8 42	118 -18.2 53	110 -7.9 30	93 28.1 53	99 12 43	112 37 41	118 2.25 37	97 -0.21 33	108 1.06 32
UOJ 230011 96190426 UOJ2311	13	SP 110035 UOJ 200051		83 41	111 49	104 42	93 19	110 45	108 41	106 41	105 41	108 36	84 2.46 42	99 -0.03 37	107 26 19	111 20.6 49	104 2.0 42	110 79 37		110 31.1 29	109 135 38	108 -29 40	96 8.4 43	111 -12.7 53	110 -7.8 29	97 31.0 53	100 12 43	115 41 42	123 2.69 37	93 -0.70 34	108 1.08 33
UOJ 230012 96190434 UOJ2312		SP 110035 UOJ 200009		81 41	104 48	107 42	97 20	102 45	98 40	96 38	94 40	100 34	86 2.34 42	92 0.23 38	102 21 20	104 16.9 48	107 2.9 42	109 75 37		105 26.7 28	100 93 35	96 -16 36	100 10.6 40	105 -7.6 52	104 -6.7 29	91 27.0 53	94 8 41	104 29 40	117 2.16 35	97 -0.22 32	107 1.00 31
UOJ 230014 96190442 UOJ2314		SP 110035 UOJ 200024		87 42	108 49	99 43	95 19	108 44	104 41	104 40	102 41	104 35	88 2.11 43	102 -0.13 39	105 24 19	108 19.2 49	99 0.5 43	105 66 37		108 29.4 28	107 124 37	106 -27 39	93 6.8 42	114 -15.1 50	100 -5.8 28	100 33.2 53	98 11 42	111 36 41	116 2.09 37	94 -0.58 33	104 0.77 32
UOJ 230018 97374847 UOJ2318		HH 130032 UOJ 170065		107 40	90 45	108 38	93 21	106 37	96 37	93 35	92 37	93 32	107 0.54 42	100 -0.06 33	106 25 21	90 9.4 45	108 3.0 38	95 42 35		88 14.1 26	93 66 34	89 -7 33	91 5.5 37	116 -16.4 41	103 -6.4 23	87 24.3 47	89 5 37	95 20 36	101 0.86 34	107 1.13 31	102 0.55 31
UOJ 230026 99027047 UOJ 230026	2	HH 130032 UOJ 170031		107 46	99 50	95 44	95 22	120 45	107 42	101 36	104 41	97 33	102 0.92 48	115 -0.66 39	105 24 22	99 14.3 50	95 -0.7 44	93 38 39		99 22.5 28	102 102 35	106 -27 34	85 2.5 38	131 -28.8 52	102 -6.3 30	104 35.7 53	91 6 38	100 24 37	97 0.54 34	101 0.36 32	95 -0.02 31
UOJ 230032 99021784 UOJ 230032	1	SS 110024 UOJ 190002		87 51	102 49	118 44	94 24	125 44	113 43	97 26	108 40	98 28	87 2.23 52	107 -0.33 45	104 23 24	102 16.0 49	118 6.2 44	115 90 39		105 27.1 27	99 91 29	101 -22 19	101 11.0 32	129 -26.8 52	114 -8.6 29	106 36.8 52	92 7 34	97 21 32	102 0.96 30	102 0.40 27	95 0.01 27

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ID Number Name																													
UOJ 230034 97678858 UOJ 230034	1	HH 130032 UOJ 160005	101 43	97 48	97 40	93 22	103 40	94 40	101 35	93 39	97 32	100 1.15 45	106 -0.29 37	107 26 22	97 12.9 48	97 -0.1 40	92 34 37	95 19.2 28	101 98 34	100 -20 33	91 5.3 38	113 -14.0 45	95 -4.7 25	96 30.5 51	90 6 38	98 22 36	101 0.86 34	104 0.74 31	97 0.17 31
UOJ 230035 97678841 UOJ 230035	2	HH 130032 UOJ 150024	107 46	95 50	97 46	97 23	119 44	102 43	96 36	99 42	93 34	105 0.72 48	108 -0.37 40	103 22 23	95 11.7 50	97 -0.2 46	91 32 40	94 18.2 28	97 81 35	101 -21 34	86 2.6 38	129 -26.7 50	108 -7.3 28	98 31.3 53	87 4 38	95 19 37	97 0.50 35	107 1.07 32	100 0.46 31
UOJ 230037 97678866 UOJ 230037	2	HH 130032 UOJ 150054	108 48	96 48	104 42	93 23	118 44	107 42	100 36	104 41	97 34	104 0.75 49	112 -0.52 42	106 25 23	96 12.7 48	104 1.9 42	97 48 38	95 19.4 28	100 96 35	103 -24 34	89 4.5 38	120 -19.8 50	115 -8.9 29	99 32.6 53	91 7 38	99 24 37	101 0.81 35	107 1.10 32	101 0.54 31
UOJ 230039 97678874 UOJ 230039		HH 130032 UOJ 160017	107 40	90 45	108 38	93 21	109 38	97 37	93 35	93 37	93 32	107 0.54 42	100 -0.06 33	106 25 21	90 9.4 45	108 3.0 38	95 42 35	88 14.1 26	93 66 34	89 -7 33	91 5.5 37	116 -16.4 41	103 -6.4 23	97 30.9 49	89 5 37	95 20 36	101 0.86 34	107 1.13 31	102 0.55 31
UOJ 240001 97678924 UOJ 240001		HH 130032 UOJ 170020	91 46	102 51	108 46	90 22	104 42	100 43	103 39	98 42	102 36	92 1.76 47	100 -0.06 40	110 29 22	102 15.7 51	108 3.1 46	104 64 40	101 23.9 28	104 111 37	103 -24 37	92 6.3 41	110 -11.8 48	102 -6.1 26	93 28.2 53	94 8 42	106 31 40	113 1.80 37	100 0.15 34	102 0.61 34
UOJ 240006 97678932 UOJ 240006		SS 110024 UOJ 170039	79 50	104 49	120 43	92 25	126 44	112 43	95 30	107 40	99 32	78 3.04 51	88 0.41 44	106 25 25	104 16.6 49	120 6.7 43	117 95 39	106 27.5 28	97 84 32	96 -15 25	103 12.1 36	129 -26.8 52	120 -9.8 28	102 34.1 53	90 6 38	98 23 36	112 1.78 33	101 0.31 30	102 0.56 29
UOJ 240008 97678825 UOJ 240008	1	SS 110024 UOJ 160008	111 51	95 48	118 42	93 25	135 42	119 42	93 26	113 39	99 29	105 0.70 52	118 -0.76 46	105 24 25	95 11.7 48	118 6.3 42	108 73 38	96 19.8 28	95 74 29	95 -14 19	106 13.4 33	136 -32.2 48	126 -11.2 26	106 36.9 52	90 6 34	95 19 33	104 1.11 30	116 2.24 28	116 1.72 27
UOJ 240009 99966699 UOJ 240009	1	HH 130032 UOJ 170068	106 44	97 48	100 42	92 22	112 41	102 40	98 35	99 39	99 33	104 0.78 46	106 -0.30 36	108 27 22	97 13.1 48	100 0.6 42	94 39 37	97 20.9 26	99 91 34	99 -18 33	90 5.0 38	124 -22.6 46	98 -5.5 25	99 32.3 51	90 6 38	100 25 36	99 0.72 34	110 1.50 32	110 1.20 31
UOJ 240010 98934730 UOJ 240010	1	SS 110024 UOJ 160034	80 50	100 49	116 45	96 24	121 44	104 43	91 26	99 40	93 28	83 2.54 51	89 0.34 44	102 21 24	100 14.4 49	116 5.6 45	111 82 39	102 25.1 26	93 65 28	93 -11 19	100 10.1 32	127 -25.2 52	110 -7.8 28	104 35.4 53	87 5 33	92 16 32	100 0.76 30	101 0.38 27	94 -0.04 26
UOJ 240011 97667653 UOJ 240011	2	HH 130032 UOJ 140024	113 49	95 51	102 48	95 23	122 45	109 44	98 36	105 42	96 34	107 0.50 50	115 -0.66 43	104 24 23	95 12.1 51	102 1.3 48	95 42 41	94 18.3 28	99 89 35	102 -22 34	88 3.7 38	127 -24.9 53	114 -8.6 30	101 33.9 53	90 6 38	97 22 37	99 0.68 35	107 1.09 32	101 0.51 31
UOJ 240012 97667661 UOJ 240012	1	HH 130032 UOJ 170022	102 44	98 51	103 48	92 22	101 43	98 43	100 35	95 41	97 33	100 1.11 46	107 -0.34 36	107 26 22	98 13.8 51	103 1.5 48	97 48 40	98 21.5 26	100 97 34	101 -21 33	88 4.1 38	113 -14.4 51	91 -4.0 27	94 29.0 52	92 7 38	100 25 36	100 0.76 34	102 0.39 32	95 0.03 31
UOJ 240015 99021933 UOJ 240015		SS 110024 UOJ 200035	81 49	98 50	122 43	89 26	111 43	100 43	96 30	96 40	96 32	84 2.52 51	92 0.23 42	109 28 26	98 13.4 50	122 7.4 43	112 83 40	100 23.2 29	96 76 32	96 -16 24	100 10.2 36	113 -14.6 51	109 -7.7 26	97 31.2 51	85 3 37	94 18 36	107 1.32 33	102 0.48 31	96 0.09 30

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ID Number Name																																
UOJ 240016 99019614 uoj 240016				110 25	87 18	104 17			96 20				83 6	112 0.11 25	93 0.21 25		87 7.4 18	104 2.1 17	94 40 13		84 10.4 6	84 26 6	72 14 6	93 6.7 7	105 -8.0 21	97 -5.1 12	84 22.2 27	93 8 7	88 12 7	91 0.04 6	103 0.58 5	91 -0.33 5
UOJ 240021 99019648 uoj 240021				86 15		116 5			83 9					98 1.29 15	67 1.20 17			116 5.7 5						94 1.0 8		66 10.2 17						
UOJ 240022 99966319 24-22				105 17	87 18	104 17			93 25				79 6	107 0.48 18	91 0.28 15		87 7.7 18	104 1.9 17	95 42 13		84 10.5 6	84 26 6	73 12 6	90 5.0 7	106 -8.8 28	95 -4.7 17	77 17.6 29	93 8 7	87 10 7	90 -0.05 6	94 -0.55 5	76 -1.54 5
UOJ 240024 99966350 UOJ 240024				80 51	98 51	117 44	93 26	123 44	104 44	96 30	100 41	93 32	78 3.02 53	89 0.34 45	105 24 26	98 13.8 51	117 5.9 44	110 79 40		102 24.3 30	96 76 33	99 -19 24	95 7.7 37	132 -29.0 53	109 -7.7 28	102 34.6 52	82 1 38	92 15 36	102 0.96 34	99 0.12 31	93 -0.18 30	
UOJ 240025 99966483 24-25				105 23	87 22	105 26			95 26				78 6	107 0.50 23	92 0.25 22		87 7.8 22	105 2.1 26	96 44 17		84 10.7 6	83 24 6	72 13 6	90 4.8 7	103 -6.6 30	96 -4.9 18	86 23.8 30	93 8 7	86 9 7	89 -0.10 6	94 -0.55 5	76 -1.55 5
UOJ 240027 99019580 uoj 240027				96 25	88 25	115 26	102 11	97 24	89 22				82 16	101 1.05 25	88 0.39 23	95 15 11	88 8.1 25	115 5.1 26	102 59 21		84 10.7 13	87 42 17	79 5 16	90 4.8 19	107 -9.2 29	98 -5.3 16	85 23.0 28	92 7 19	89 13 18	97 0.56 17	91 -1.00 16	70 -1.98 15
UOJ 240029 99019663 uoj 240029				94 23	86 21	106 24	117 7	90 26	82 20					99 1.16 23	86 0.46 23	83 3 7	86 7.2 21	106 2.5 24	98 49 17		83 10.1 10	84 28 10	74 11 7	87 3.5 11	101 -4.4 32	96 -4.9 15	76 17.0 31	89 5 9	84 7 9	89 -0.17 5		
UOJ 240030 99019598 uoj 240030				104 17	88 19	106 20			96 25				81 6	106 0.57 18	91 0.29 15		88 8.1 19	106 2.6 20	97 47 14		84 11.1 6	85 32 6	74 11 6	91 5.7 7	108 -9.9 30	99 -5.5 16	80 19.3 30	95 9 7	88 12 7	92 0.07 6	94 -0.53 5	76 -1.51 5
UOJ 240036 99019606 uoj 240036				101 43	97 48	97 40	93 22	103 40	94 40	101 35	93 39	97 32	100 1.15 45	106 -0.29 37	107 26 22	97 12.9 48	97 -0.1 40	92 34 37		95 19.2 28	101 98 34	100 -20 33	91 5.3 38	113 -14.0 45	95 -4.7 25	96 30.5 51	90 6 38	98 22 36	101 0.86 34	104 0.74 31	97 0.17 31	
UOJ 250014 6020097561 UOJ 250014				89 42	96 30	106 26	103 14	108 29	97 29				89 17	91 1.88 46	98 0.01 28	95 14 14	96 12.7 30	106 2.7 26	103 63 23		98 21.4 18	92 60 19	93 -12 14	95 7.8 21	108 -10.1 30	102 -6.2 18	108 38.3 38	86 4 21	91 15 20	101 0.83 18	99 0.10 16	96 0.09 16
UOJ 250015 6020097421 UOJ 250015				92 41	91 28	108 25	104 13	108 30	93 28				85 16	95 1.52 45	92 0.22 26	93 13 13	91 9.9 28	108 3.3 25	101 56 22		92 17.1 16	87 41 17	86 -3 11	96 8.2 19	108 -10.5 34	102 -6.2 17	107 37.8 39	84 3 18	87 10 18	97 0.49 16	103 0.52 15	96 0.08 14
UOJ 250016 6020100373 UOJ 250016				98 34	97 35	108 31	95 17	119 32	104 30	95 22	100 28	94 22	97 1.38 35	104 -0.24 31	104 23 17	97 12.9 35	108 3.0 31	101 58 28		97 21.1 20	96 79 22	98 -17 19	94 7.1 25	119 -19.1 35	109 -7.6 19	110 39.9 41	89 5 25	95 19 24	100 0.75 23	104 0.74 21	98 0.24 21	

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ID Number Name																													
UOJ 250017 6020097439 UOJ 250017	2	TDA 20-0015 UOJ 160034	106 41	92 27	94 29	112 7	104 31	94 28			83 8	105 0.65 44	101 -0.11 28	87 7 7	92 10.1 27	94 -0.9 29	91 33 21	91 16.5 12	87 40 12	85 -3 8	89 4.4 13	109 -10.8 35	92 -4.2 19	110 39.5 40	87 4 11	88 11 11	88 -0.19 9	102 0.41 8	94 -0.05 8
UOJ 250021 6020097447 UOJ 250021	1	TDA 20-0015 UOJ 220007	85 42	94 30	112 26	102 15	107 28	94 29			87 17	89 2.06 46	94 0.14 27	96 15 15	94 11.5 30	112 4.2 26	105 67 24	97 20.4 18	90 51 18	92 -10 12	97 8.7 21	107 -9.2 30	102 -6.2 17	108 38.1 38	83 2 20	88 11 19	99 0.66 18	100 0.19 16	93 -0.14 16
UOJ 250026 6020176753 UOJ 250026		TDA 20-0015 UOJ 210041	104 39	93 35	102 27	100 12	110 29	98 30			91 18	103 0.86 43	104 -0.23 24	98 18 12	93 10.8 35	102 1.3 27	95 42 25	92 16.6 16	94 68 20	92 -11 17	93 6.6 22	113 -14.0 33	101 -6.1 16	107 37.9 38	90 6 20	94 18 20	99 0.73 18	103 0.56 17	97 0.18 16
UOJ 250027 6020154677 UOJ 250027	1	TDA 20-0015 UOJ 210040	94 44	92 35	106 28	107 13	108 31	95 31			83 16	96 1.50 47	99 -0.02 31	90 10 13	92 10.5 35	106 2.5 28	101 56 25	95 18.9 16	87 41 17	89 -7 11	91 5.6 19	109 -10.8 35	97 -5.2 19	112 41.0 39	81 1 19	85 8 18	92 0.10 16	99 0.11 15	92 -0.26 15
UOJ 250028 6020106693 UOJ 250028		UOJ 220020	89 22	88 23	120 20	104 12	95 21	87 20			79 14	95 1.51 23	83 0.58 20	92 12 12	88 7.8 23	120 6.7 20	107 71 18	85 11.5 13	84 25 14	74 11 9	95 7.8 16	101 -4.6 23	102 -6.2 12	82 21.0 27	90 6 16	85 8 16	97 0.55 14	91 -1.00 13	70 -2.02 13
UOJ 250029 6020106701 UOJ 250029		UOJ 210065	88 26	90 31	118 22	103 12	92 24	87 24			81 14	94 1.64 26	85 0.51 25	94 13 12	90 9.4 31	118 6.1 22	107 72 22	88 13.6 13	85 32 14	76 9 9	97 8.8 16	94 0.9 29	102 -6.2 14	85 22.6 28	91 7 16	87 10 16	99 0.71 14	89 -1.26 13	72 -1.84 13
UOJ 260006 6020186224 UOJ 260006	13	UOJ 210056 UOJ 220022	101 57	99 45	104 34	92 15	124 33	109 39	101 26	106 36	98 24	96 1.43 64	115 -0.66 31	107 26 15	99 14.4 45	104 2.0 34	100 54 31	98 21.7 20	101 100 24	103 -23 24	90 4.7 27	129 -26.8 40	107 -7.3 20	111 40.6 40	93 8 27	101 25 26	101 0.85 24	104 0.76 23	98 0.30 22
UOJ 260007 6020096365 UOJ 260007	1	UOJ 210056 UOJ 230004	85 59	104 45	115 33	92 17	123 32	111 39	101 22	107 36	101 22	82 2.62 66	106 -0.30 33	106 25 17	104 16.7 45	115 5.3 33	113 85 32	103 25.8 20	102 105 23	102 -23 19	98 9.5 25	124 -23.2 37	112 -8.3 20	109 39.0 40	94 8 26	101 26 25	106 1.23 23	105 0.83 21	101 0.49 20
UOJ 260009 6020266661 UOJ2609		UOJ 220029	81 52	97 32	110 23	100 11	87 24	86 30	91 20	83 28	88 18	86 2.28 59	91 0.27 24	98 17 11	97 13.3 32	110 3.8 23	106 69 22	93 18.0 14	92 63 19	85 -2 19	92 5.9 21	94 1.1 30	97 -5.2 13	78 17.9 28	95 9 21	95 19 20	103 1.04 19	91 -0.93 17	78 -1.36 17
UOJ 260014 6020266679 UOJ2614		UOJ 210017	78 52	95 24	115 20	104 12	92 20	86 26			82 14	82 2.65 59	85 0.50 25	93 13 12	95 11.7 24	115 5.1 20	109 76 19	92 16.9 14	87 39 14	79 5 9	96 8.2 16	100 -3.6 23	100 -5.7 12	78 18.2 26	90 6 17	86 9 16	97 0.54 15	93 -0.64 13	75 -1.62 13
UOJ 260017 6020266810 UOJ2617	1	TDA 20-0015 UOJ 200034	85 58	97 30	98 27	106 13	106 31	92 32	90 20	88 30	86 18	87 2.25 65	102 -0.16 29	92 12 13	97 13.1 30	98 0.2 27	98 50 23	97 21.0 18	93 64 18	96 -15 18	86 2.7 22	108 -10.2 35	98 -5.4 20	107 38.0 39	84 2 21	90 14 20	93 0.20 18	100 0.16 17	94 -0.07 17
UOJ 260019 6020266836 UOJ2619		TDA 20-0015 UOJ 170039	94 57	97 27	98 24	107 10	110 31	98 30	87 20	93 28	89 17	95 1.54 64	99 -0.05 28	91 11 10	97 13.2 27	98 0.3 24	99 52 20	96 20.2 16	91 59 19	89 -7 19	93 6.4 22	111 -12.3 33	102 -6.3 19	108 38.2 40	90 6 21	94 18 20	101 0.84 18	101 0.34 16	102 0.56 15

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Index EBV Acc	% Inbreeding	Sire ID Dam ID	Calv. Ease V	Calf Growth V	Milk V	Maint. V	Fertility V	Cow Value	Growth Value	Prod. Value	Carcass Value	Birth wt dir	Birth mat	Mature wt	Wean wt	Wean mat	Cow-Calf Ratio (Wean)	Postwean wt	ADG	FCR	Scrotal Circ.	Heifer Fertility	Cow Fertility	Longevity	Height	Length	EMA	Fat	Marbling
ID Number Name																													
UOJ 260021 6020266687 UOJ2621		UOJ 220056	142 54	78 32	104 24	101 11	101 23	95 30			87 16	149 -3.14 61	114 -0.62 24	97 17 11	78 2.6 32	104 2.1 24	83 14 22	74 2.7 14	93 63 17	87 -4 17	92 6.0 19	108 -10.2 26	105 -6.8 15	83 21.3 28	96 9 19	94 18 19	99 0.71 17	95 -0.43 16	78 -1.35 16
UOJ 260024 6020267065 UOJ2624		UOJ 200048	93 49	88 17	113 22		85 15				77 8	99 1.24 57	86 0.47 19		88 8.1 17	113 4.8 22	104 64 14	83 9.8 6	84 26 8	71 14 9	91 5.8 9	88 5.6 15	100 -5.8 9	78 17.8 22	95 9 9	87 11 9	98 0.58 8	85 -1.69 7	65 -2.45 7
UOJ 260031 6020650690 UOJ 260031	13	UOJ 210056 UOJ 220036	131 59	91 44	106 33	89 15	120 30	112 38	102 24	108 35	101 23	125 -1.01 66	125 -1.05 32	110 29 15	91 9.6 44	106 2.7 33	93 37 31	88 13.6 19	102 103 24	100 -20 23	95 7.7 27	123 -21.7 33	110 -7.7 19	109 39.2 38	96 10 27	103 28 26	106 1.29 24	108 1.17 22	103 0.66 22
UOJ 260032 6020650708 UOJ 260032	13	UOJ 210056 UOJ 220025	114 57	98 45	104 34	89 15	118 33	111 39	105 26	108 36	103 24	109 0.38 64	121 -0.89 31	111 30 15	98 13.8 45	104 1.9 34	97 48 31	96 20.3 20	105 118 24	106 -26 24	94 7.1 27	122 -21.3 39	105 -6.8 19	109 39.1 40	98 11 27	106 31 26	106 1.25 24	105 0.81 23	100 0.40 22
UOJ 260036 6020555493 UOJ260036	2	TDA 20-0015 UOJ 190011	119 57	89 24	95 23	108 7	102 26	95 28			88 8	116 -0.30 64	103 -0.20 30	90 10 7	89 8.6 24	95 -0.8 23	88 25 18	89 14.7 12	88 44 12	85 -2 8	93 6.5 13	105 -8.2 26	92 -4.1 16	110 39.7 37	89 5 11	90 14 11	90 -0.02 9	110 1.54 8	109 1.18 8
UOJ 260039 6020555501 UOJ260039		TDA 20-0015 UOJ 210007	92 57	95 30	106 30	103 12	104 30	94 32			86 18	93 1.69 64	99 -0.04 28	95 15 12	95 11.7 30	106 2.6 30	101 58 24	94 18.2 16	92 59 20	92 -10 17	90 4.7 22	107 -9.4 33	93 -4.3 19	111 40.4 38	87 4 20	91 15 20	97 0.50 18	98 -0.03 17	89 -0.47 16
UOJ 260040 6020555519 UOJ260040	17	UOJ 210056 UOJ 200008	104 59	101 41	106 34	90 16	131 35	116 38	104 26	112 36	102 24	101 1.02 65	125 -1.05 35	109 28 16	101 15.0 41	106 2.5 34	101 58 30	98 21.4 20	104 113 25	106 -27 24	93 6.6 27	134 -30.9 40	115 -8.8 22	114 42.6 42	96 10 27	104 29 26	105 1.17 24	107 1.15 23	103 0.63 22
UOJ 260051 6020849862 UOJ 260051		UOJ 210046	93 52	89 31	113 23	106 12	94 25	87 30			80 14	98 1.28 59	88 0.39 25	91 11 12	89 8.5 31	113 4.8 23	103 62 22	87 13.3 14	84 28 14	77 7 9	93 6.4 16	102 -5.6 31	97 -5.1 15	86 23.2 29	88 5 17	85 8 16	94 0.28 15	92 -0.84 14	73 -1.74 13

Breeding Values and Accuracies: Cows

Green: >120 High
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Orange: <80 Low

Inbreeding in red is high										Value <80		Value >120		Breeding values with an accuracy < 5% are not printed																	
Animal				Selection Values							Birth		Wean				Growth			Fertility				Frame		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																															
UOJ 140024 4041203219 TRIPLE-S 14-0024UOJ		VV 100108 UOJ 110020		122 53	91 49	104 59	108 14	133 55	116 46			89 16	117 -0.34 53	111 -0.48 54	90 10 14	91 9.8 49	104 1.9 59	98 49 41		88 13.9 22	89 48 18	87 -4 13	94 6.9 19	130 -27.4 65	130 -12.0 37	105 36.7 63	94 8 19	91 14 19	91 -0.01 16	117 2.37 15	111 1.34 15
UOJ 140065 4041278468 TRIPLE-S 14-0065UOJ		SP 110035 UOJ 070021		90 34	101 42	109 36	99 15	118 51	107 36	91 36	102 36	99 30	95 1.54 35	88 0.39 31	99 18 15	101 15.2 42	109 3.6 36	109 75 31		99 22.2 25	97 83 33	87 -5 35	101 10.8 37	121 -20.9 60	117 -9.2 32	94 28.7 62	100 12 38	106 31 36	115 2.02 32	102 0.46 29	113 1.50 28
UOJ 150024 4041301500 TRIPLE-S 15-0024UOJ		VV 100108 UOJ 060006		112 45	90 43	94 50	113 14	127 50	104 41			85 16	112 0.10 45	96 0.09 45	86 6 14	90 9.0 43	94 -1.1 50	89 28 36		88 13.6 22	85 32 18	84 0 13	90 4.8 19	134 -31.0 57	118 -9.4 32	98 31.6 62	89 5 19	86 9 19	86 -0.37 16	117 2.32 15	110 1.25 15
UOJ 150054 4041458268 TRIPLE-S 15-0054UOJ		VV 100108 UOJ 060011		113 51	93 37	108 35	105 14	126 51	113 38			93 16	111 0.16 51	104 -0.22 52	93 12 14	93 11.0 37	108 3.2 35	103 61 29		91 16.0 22	92 61 18	89 -7 13	97 8.5 19	117 -17.2 56	133 -12.6 36	102 34.3 61	98 11 19	94 18 19	94 0.26 16	117 2.40 15	112 1.40 15
UOJ 150073 4041458466 TRIPLE-S 15-0073UOJ		SP 110035 UOJ 090002		77 44	101 48	103 53	99 15	115 54	97 43	92 36	93 42	100 30	88 2.16 44	72 1.01 45	100 19 15	101 15.2 48	103 1.6 53	103 61 39		100 23.0 25	98 86 33	88 -6 35	102 11.3 37	117 -17.7 63	111 -8.0 36	99 32.5 62	101 12 38	107 32 36	116 2.10 32	102 0.47 29	113 1.52 28
UOJ 160005 96468897 UOJ 160005		VV 050080 UOJ 100022		99 33	94 34	95 27	104 10	96 37	88 29			92 8	102 0.97 33	91 0.26 32	95 14 10	94 11.4 34	95 -0.9 27	91 33 24		90 15.6 18	93 66 13	83 1 8	99 10.0 14	102 -5.6 34	92 -4.2 21	96 30.0 56	94 8 13	91 15 13	95 0.36 9	112 1.68 8	103 0.66 8
UOJ 160034 4041806409 TRIPLE-S 16-0034UOJ		VV 120048 UOJ 080006		105 43	94 42	96 49	107 8	120 51	103 39			87 12	106 0.59 43	94 0.16 44	91 11 8	94 11.4 42	96 -0.5 49	93 38 33		93 17.8 11	88 44 12	81 3 12	91 5.3 14	130 -28.0 62	100 -5.9 31	109 39.3 60	93 8 14	91 15 13	88 -0.25 12	106 0.93 11	98 0.29 10
UOJ 170001 4041866130 TRIPLE-S 17-0001UOJ		VV 120048 UOJ 090004		111 38	95 44	102 51	104 8	112 50	105 39			91 12	109 0.36 39	104 -0.21 32	94 14 8	95 11.9 44	102 1.4 51	99 51 34		94 18.2 11	92 59 12	83 0 12	94 7.2 14	125 -23.9 59	88 -3.3 32	112 41.1 59	97 10 14	95 19 13	91 0.06 12	106 0.97 11	99 0.36 10
UOJ 170004 4041866189 TRIPLE-S 17-0004UOJ		VV 120048 UOJ 080004		105 36	95 36	101 35	104 8	117 51	104 34			91 12	106 0.63 37	97 0.07 30	95 14 8	95 12.1 36	101 1.0 35	98 49 26		94 18.7 11	92 59 12	83 0 12	94 7.2 14	130 -27.5 59	103 -6.4 34	98 31.8 61	97 10 14	95 19 13	91 0.07 12	106 0.97 11	99 0.37 10
UOJ 170005 4041866197 TRIPLE-S 17-0005UOJ		VV 120048 UOJ 110009		110 45	92 42	90 49	109 8	118 48	99 39			85 12	110 0.26 45	97 0.06 44	90 10 8	92 10.1 42	90 -2.4 49	86 21 33		91 16.0 11	87 38 12	80 4 12	89 4.5 14	132 -29.1 58	92 -4.1 26	112 41.1 60	91 7 14	89 13 13	86 -0.38 12	106 0.92 11	98 0.25 10
UOJ 170006 4041866213 TRIPLE-S 17-0006UOJ		VV 120048 UOJ 090010		106 36	94 35	97 34	106 8	106 51	97 34			89 12	107 0.51 37	96 0.07 31	93 12 8	94 11.4 35	97 -0.2 34	94 39 26		93 17.8 11	90 51 12	82 1 12	92 6.2 14	117 -17.0 58	93 -4.3 34	100 33.1 60	95 9 14	93 17 13	89 -0.10 12	106 0.95 11	99 0.32 10
UOJ 170007 4041866221 TRIPLE-S 17-0007UOJ		VV 120048 UOJ 070001		103 35	96 38	102 40	103 8	118 50	104 35			92 12	104 0.73 36	95 0.13 30	95 15 8	96 12.3 38	102 1.2 40	98 50 29		95 19.1 11	92 62 12	84 -1 12	95 7.6 14	128 -26.5 60	104 -6.5 32	101 33.6 59	98 11 14	96 20 13	92 0.14 12	106 0.98 11	99 0.38 10

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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																													
UOJ 170020		SP 110035	79	104	116	96	97	98	94	95	102	87	80	101	104	116	116	103	99	89	103	97	106	89	102	108	118	102	114
96263108		UOJ 080017	43	47	51	15	44	41	36	40	30	2.19	0.71	20	17.0	5.6	94	25.1	92	-7	12.1	-1.1	-7.0	25.3	14	34	2.23	0.49	1.55
UOJ1720												42	45	15	47	51	38	25	33	35	37	48	25	60	38	36	32	29	28
UOJ 170024		SP 110035	92	99	105	103	105	99	90	94	94	96	92	95	99	105	105	97	95	87	96	95	118	97	97	102	112	93	98
4041866411		UOJ 120081	43	45	44	15	52	41	36	40	30	1.48	0.24	14	14.3	2.2	66	20.5	75	-5	8.2	0.4	-9.5	31.1	10	26	1.77	-0.68	0.25
TRIPLE-S 17-0024UOJ												43	44	15	45	44	35	25	33	35	37	58	35	62	38	36	32	29	28
UOJ 170031		VV 120048	111	99	91	108	129	113			92	107	111	91	99	91	94	99	95	96	89	139	107	111	96	95	87	106	98
4042013336	1	UOJ 140024	44	43	45	10	54	40			14	0.51	-0.50	11	14.2	-1.9	40	22.2	75	-15	4.4	-35.2	-7.3	40.3	10	19	-0.28	0.91	0.28
TRIPLE-S 17-0031UOJ												45	40	10	43	45	33	16	15	14	17	64	38	61	17	16	14	13	13
UOJ 170039		SP 110035	90	102	103	100	131	111	91	106	99	95	90	99	102	103	104	100	97	88	98	134	120	105	98	104	112	105	113
4042013419		UOJ 110001	43	42	38	15	51	39	36	38	30	1.58	0.30	18	15.8	1.6	65	22.8	81	-6	9.2	-31.1	-10.0	36.7	11	29	1.79	0.78	1.49
TRIPLE-S 17-0039UOJ												43	43	15	42	38	32	25	33	35	37	59	32	61	38	36	32	29	28
UOJ 170046		VV 120048	105	95	98	107	115	102			88	106	97	92	95	98	96	94	89	81	91	120	97	114	94	92	88	106	98
4042013484		UOJ 090004	46	44	51	8	52	41			12	0.59	0.06	11	11.7	0.2	44	18.2	47	2	5.6	-19.9	-5.3	42.6	8	16	-0.20	0.94	0.30
TRIPLE-S 17-0046UOJ												46	45	8	44	51	34	11	12	12	14	60	36	60	14	13	12	11	10
UOJ 170066			111	81	116							116	80		81	116								92					
97374755			29	27	41							-0.26	0.70		4.4	5.5								27.3					
UOJ 170066												28	32		27	41								44					
UOJ 180002		SP 110035	98	100	108	99	100	100	91	96	99	100	95	99	100	108	106	97	97	87	101	99	106	94	100	106	115	102	113
4042149031		UOJ 110013	45	42	36	15	43	37	36	37	30	1.12	0.11	18	14.5	3.2	69	20.8	83	-5	10.8	-3.1	-6.9	29.1	12	31	2.02	0.46	1.50
TRIPLE-S 18-0002UOJ												45	45	15	42	36	31	25	33	35	37	45	25	60	38	36	32	29	28
UOJ 180013			140	77	115							133	108		77	115								97					
97374748			41	27	41							-1.74	-0.39		2.3	5.3								30.7					
UOJ 180013												40	46		27	41								38					
UOJ 180018		VV 120048	103	96	102	103	127	108			92	104	95	95	96	102	98	95	92	84	95	135	114	102	98	96	92	106	99
4042149148		UOJ 070001	35	38	40	8	49	35			12	0.73	0.13	15	12.3	1.2	50	19.1	62	-1	7.6	-31.5	-8.7	34.1	11	20	0.14	0.98	0.38
TRIPLE-S 18-0018UOJ												36	30	8	38	40	29	11	12	12	14	58	32	57	14	13	12	11	10
UOJ 180025			105									113	75											90					
97373591			30									0.02	0.90											26.3					
UOJ180025												29	36											37					
UOJ 180027		SS 110024	91	98	121	94	124	110	93	105	96	91	103	103	98	121	113	99	95	97	102	121	120	105	90	94	103	107	101
96427372	1	UOJ 150010	52	48	42	25	44	43	26	40	29	1.84	-0.17	22	13.3	7.0	86	22.5	74	-16	11.7	-20.8	-9.9	36.7	6	17	1.02	1.12	0.52
18-0027UOJ												53	50	25	48	42	38	28	29	19	33	47	26	60	34	33	30	28	27
UOJ 190002		VV 120048	117	100	100	103	128	119			97	113	128	96	100	100	100	98	100	99	94	134	109	113	102	101	92	106	100
4042274946	1	UOJ 160010	50	43	45	10	52	41			14	-0.03	-1.17	15	14.6	0.6	55	22.0	95	-19	7.0	-31.2	-7.6	42.0	13	25	0.14	0.96	0.39
TRIPLE-S 19-0002UOJ												51	47	10	43	45	33	16	15	14	17	62	34	60	17	16	14	13	13

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ID Number Name																														
UOJ 190006	1	HH 130032	92	92	98	102	124	96	92	92	87	95	94	96	92	98	91		91	93	94	82	140	99	107	81	90	92	102	95
291266369		UOJ 130022	52	50	45	23	51	45	36	43	32	1.54	0.17	16	10.1	0.0	32		16.3	65	-12	0.4	-35.7	-5.7	37.6	1	14	0.14	0.40	0.01
BW: TRIPLE S UOJ1906													53	48	23	50	45	39		28	35	34	39	62	31	60	38	37	34	31
UOJ 190011		VV 120048	116	93	98	101	116				96	115	99	98	93	98	92		93	90	79	98	124	99	110	96	96	92	123	128
291266427			50	35	34	8	39				12	-0.19	-0.04	17	11.0	0.2	36		17.6	52	4	9.5	-22.8	-5.7	39.6	9	21	0.08	3.20	2.73
BW: TRIPLE S UOJ1911													50	50	8	35	34	26		11	12	12	14	41	23	53	14	13	12	11
UOJ 190016		VV 120048	98	96	100	107	104	96			87	101	93	92	96	100	98		95	91	84	91	112	89	110	96	93	90	97	84
291266492		UOJ 160025	36	36	35	8	45	33			12	1.05	0.19	11	12.4	0.7	50		19.0	57	-1	5.3	-13.1	-3.4	40.1	10	17	-0.07	-0.16	-0.85
BW: TRIPLE S UOJ1916													37	31	8	36	35	26		11	12	12	14	58	24	54	14	13	12	11
UOJ 190018		HH 130032	107	90	108	93	126	105	93	100	93	107	100	106	90	108	95		88	93	89	91	134	109	107	89	95	101	107	102
291266443		UOJ 120006	40	45	38	21	46	39	35	38	32	0.54	-0.06	25	9.4	3.0	42		14.1	66	-7	5.5	-31.1	-7.6	37.6	5	20	0.86	1.13	0.55
BW: TRIPLE S UOJ1918													42	33	21	45	38	35		26	34	33	37	58	24	56	37	36	34	31
UOJ 190022		VV 120048	113	89	81	116	108	90			77	112	99	84	89	81	77		87	83	78	83	127	86	99	87	83	81	97	82
291266534		UOJ 160026	35	42	49	8	47	37			12	0.10	-0.05	4	8.4	-5.2	-2		13.2	23	6	1.0	-25.1	-3.0	32.7	4	7	-0.79	-0.25	-1.03
BW: TRIPLE S UOJ1922													36	30	8	42	49	33		11	12	12	14	57	27	56	14	13	12	11
UOJ 190025		SS 110024	76	93	124	94	128	102	86	96	91	86	77	103	93	124	111		95	88	82	105	130	119	104	88	90	104	107	101
291266393		UOJ 090002	45	45	40	23	48	40	24	37	28	2.33	0.82	22	10.9	7.9	82		19.1	46	1	12.9	-27.4	-9.8	35.9	5	14	1.09	1.15	0.53
BW: TRIPLE S UOJ1925													47	39	23	45	40	36		26	28	18	31	60	26	58	33	31	29	26
UOJ 200008	2	HH 130032	116	95	101	95	132	113	98	109	96	110	119	104	95	101	94		93	99	102	88	138	113	110	90	97	99	107	101
291354439		UOJ 140024	57	51	48	23	51	47	36	45	34	0.28	-0.81	24	11.7	1.0	39		17.6	89	-22	3.7	-34.3	-8.5	39.9	6	22	0.68	1.09	0.51
BW: TRIPLE S UOJ2008													58	55	23	51	48	41		28	35	34	38	63	32	59	38	37	35	32
UOJ 200024	1	HH 130032	105	96	95	95	117	101	97	98	93	103	107	104	96	95	90		96	97	99	85	128	95	113	88	97	97	101	94
291354561		UOJ 170005	50	49	45	22	45	43	35	41	33	0.89	-0.32	23	12.4	-0.8	30		19.7	84	-18	2.5	-25.8	-4.7	41.7	5	21	0.49	0.36	-0.03
BW: TRIPLE S UOJ2024													51	48	22	49	45	39		26	34	33	38	51	27	57	38	36	34	32
UOJ 200030		SP 110035	90	101	105	102	113	103	92	99	95	94	93	96	101	105	106		98	97	89	96	110	116	99	99	103	113	95	98
291354629		UOJ 160045	34	42	36	15	48	36	36	36	30	1.63	0.22	16	15.2	2.1	68		21.6	81	-7	8.4	-12.1	-9.2	32.4	11	28	1.82	-0.50	0.29
BW: TRIPLE S UOJ2030													35	32	15	42	36	31		25	33	35	37	61	29	55	38	36	32	29
UOJ 200034	1	HH 130032	86	97	102	98	123	100	98	97	93	89	96	101	97	102	98		98	99	101	84	129	111	105	86	96	97	102	98
291354660		UOJ 140011	52	49	45	23	51	44	36	42	32	2.05	0.10	20	13.2	1.3	50		21.4	92	-21	1.8	-26.8	-8.1	36.2	3	20	0.51	0.42	0.24
BW: TRIPLE S UOJ2034													53	48	23	49	45	39		28	35	34	39	62	34	58	38	37	34	31
UOJ 200035		HH 130032	107	90	108	93	100	93	93	90	93	107	100	106	90	108	95		88	93	89	91	104	99	97	89	95	101	107	102
291354678		UOJ 060001	40	45	38	21	45	38	35	37	32	0.54	-0.06	25	9.4	3.0	42		14.1	66	-7	5.5	-6.7	-5.6	30.8	5	20	0.86	1.13	0.55
BW: TRIPLE S UOJ2035													42	33	21	45	38	35		26	34	33	37	58	23	54	37	36	34	31
UOJ 200048		UOJ 170024	91	93	116	105	96	93			85	97	86	92	93	116	109		89	90	78	95	90	107	97	98	94	105	88	76
291354819			32	33	44	8	30	30			15	1.40	0.49	11	10.8	5.5	76		14.4	51	6	7.6	4.4	-7.2	30.7	11	18	1.16	-1.33	-1.50
BW: TRIPLE S UOJ2048													31	38	8	33	44	28		12	16	18	19	29	18	42	19	18	16	14

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																														
UOJ 200051 291354835 BW: TRIPLE S UOJ2051		HH 130032	UOJ 150001	94 45	101 49	105 42	91 22	121 49	106 42	102 39	104 41	101 36	95 1.59 47	101 -0.12 39	109 28 22	101 15.1 49	105 2.2 42	101 57 38	100 23.0 28	103 106 37	102 -23 37	91 5.6 41	122 -21.0 62	113 -8.5 29	106 37.3 56	92 8 42	105 30 40	111 1.69 37	100 0.14 34	102 0.59 34
UOJ 210007 291354942 BW: TRIPLE S UOJ2107		HH 130032	UOJ 160025	89 48	96 50	118 52	91 21	120 49	104 44	97 35	100 42	94 32	93 1.70 49	90 0.32 46	107 26 21	96 12.3 50	118 6.3 52	108 74 41	94 18.2 26	97 82 34	93 -11 33	92 5.8 37	127 -25.2 58	101 -6.1 32	112 41.1 56	93 8 37	98 23 36	104 1.11 34	99 0.05 31	88 -0.57 31
UOJ 210017 291355063 UOJ2117	1	SS 110024	UOJ 160005	78 51	101 48	117 41	94 24	109 41	99 42	95 25	95 39	95 28	78 3.03 52	83 0.59 49	104 23 24	101 15.0 48	117 5.7 41	112 84 38	102 24.9 27	96 76 28	93 -12 18	104 12.5 32	113 -14.0 46	106 -6.9 25	98 31.5 52	88 5 33	92 16 32	104 1.07 29	104 0.76 27	97 0.15 26
UOJ 210024 291355113 BW: TRIPLE S UOJ2124	1	SS 110024	UOJ 140024	91 52	92 64	122 49	101 25	137 50	111 50	86 26	104 45	87 29	93 1.68 53	96 0.07 47	96 15 25	92 10.2 64	122 7.4 49	112 82 46	95 19.4 28	88 43 29	91 -9 19	95 7.8 33	137 -33.7 63	126 -11.0 30	109 39.3 56	81 1 34	85 8 33	95 0.35 30	107 1.03 28	99 0.36 27
UOJ 210027 291355162 BW: TRIPLE S UOJ2127	1	SS 110024	UOJ 130022	77 54	88 63	116 46	109 25	125 49	95 50	80 26	88 45	79 28	84 2.52 55	80 0.71 51	88 8 25	88 8.2 63	116 5.7 46	106 70 45	92 17.0 28	83 21 29	83 1 19	90 4.8 33	135 -31.7 63	107 -7.2 26	106 37.1 58	73 -4 34	78 1 32	89 -0.13 29	101 0.35 27	93 -0.13 26
UOJ 210040 291355303 BW: TRIPLE S UOJ2140	1	SS 110024	UOJ 170046	81 53	95 63	119 47	99 24	127 51	105 50	86 26	98 45	87 28	86 2.29 54	89 0.35 51	98 17 24	95 12.2 63	119 6.4 47	112 83 45	99 22.7 26	88 45 28	89 -7 19	95 7.5 32	130 -28.1 62	110 -7.8 32	114 42.3 58	82 1 33	86 9 32	95 0.32 30	101 0.33 27	93 -0.15 26
UOJ 210041 291355295 BW: TRIPLE S UOJ2141		HH 130032	UOJ 070001	101 40	96 61	111 44	87 21	132 45	111 45	101 35	108 43	102 32	101 1.01 42	100 -0.07 33	113 32 21	96 12.7 61	111 4.0 44	100 55 42	93 17.9 26	101 99 34	94 -13 33	99 9.6 37	138 -34.5 58	118 -9.6 24	105 36.1 54	98 11 37	105 30 36	110 1.57 34	108 1.22 31	104 0.73 31
UOJ 210046 291378123 BW: TRIPLE S UOJ2146	1	SS 110024	UOJ 160034	80 53	98 63	116 46	97 24	114 51	100 50	89 26	95 45	90 28	85 2.43 53	90 0.32 51	100 19 24	98 13.7 63	116 5.6 46	111 82 44	101 24.3 26	91 56 28	91 -9 19	97 8.9 32	118 -18.0 63	100 -5.8 31	112 41.4 58	85 3 33	89 13 32	97 0.55 30	101 0.36 27	94 -0.09 26
UOJ 210055 291378214 UOJ2155	1	SS 110024	UOJ 160008	120 63	92 48	118 42	93 25	148 47	125 45	93 26	118 41	99 29	112 0.04 67	117 -0.74 46	105 24 25	92 10.1 48	118 6.1 42	104 65 38	93 17.7 28	95 74 29	95 -14 19	106 13.4 33	148 -42.2 60	134 -12.7 26	114 42.3 56	90 6 34	95 19 33	104 1.11 30	116 2.24 28	116 1.72 27
UOJ 210065 291378347 BW: TRIPLE S UOJ2165		SS 110024	UOJ 120076	78 52	100 62	125 45	93 23	109 47	102 49	92 24	98 44	92 28	79 2.89 53	83 0.57 49	105 24 23	100 14.9 62	125 8.3 45	118 99 43	101 24.0 26	93 63 28	88 -5 18	106 13.7 31	101 -4.9 58	110 -7.9 27	111 40.4 55	91 6 33	93 17 31	108 1.41 29	95 -0.48 26	91 -0.29 26
UOJ 210067 291378354 BW: TRIPLE S UOJ2167		SP 110035	UOJ 180023	83 48	116 62	117 45	86 20	116 51	120 48	108 38	117 46	115 34	78 3.03 48	99 -0.01 46	114 32 20	116 23.3 62	117 5.8 45	122 108 42	114 34.0 28	112 147 35	105 -26 36	113 17.3 40	107 -9.5 63	122 -10.4 32	104 35.6 58	109 18 41	119 45 40	131 3.29 35	98 -0.08 32	110 1.27 31
UOJ 220004 291412781 BW: TRIPLE S UOJ2204		SP 110035	UOJ 190006	82 43	106 49	100 43	98 19	113 46	103 41	101 40	100 41	101 34	85 2.44 44	95 0.11 40	100 20 19	106 18.1 49	100 0.9 43	105 67 37	106 27.7 28	104 114 37	104 -24 39	91 5.8 42	120 -20.1 53	103 -6.3 29	102 34.3 57	94 8 42	107 33 41	114 1.91 36	94 -0.56 33	104 0.79 32

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ID Number Name																													
UOJ 220007	SS 110024		77	99	130	89	126	109	93	104	95	73	81	108	99	130	120	103	93	93	106	126	119	105	85	91	108	102	96
291412823	UOJ 190025	25	50	50	43	26	45	43	27	40	31	3.41	0.67	27	14.2	9.8	103	25.7	66	-12	13.9	-24.9	-9.7	36.5	3	15	1.43	0.49	0.08
BW: TRIPLE S UOJ2207												52	43	26	50	43	40	29	31	20	35	52	27	56	36	35	32	30	29
UOJ 220011	SS 110024		79	104	120	92	128	112	95	107	99	78	88	106	104	120	117	106	97	96	103	129	120	106	90	98	112	101	102
291412864	UOJ 170039		50	49	43	25	45	43	30	40	32	3.04	0.41	25	16.6	6.7	95	27.5	84	-15	12.1	-26.8	-9.8	36.8	6	23	1.78	0.31	0.56
BW: TRIPLE S UOJ2211												51	44	25	49	43	39	28	32	25	36	52	28	56	38	36	33	30	29
UOJ 220020	SS 110024		77	95	129	95	116	101	88	95	89	83	80	102	95	129	118	96	89	84	102	115	111	106	88	90	104	99	87
291412930	UOJ 160025		45	45	39	23	41	39	24	36	28	2.62	0.70	21	11.8	9.4	97	19.9	49	-1	11.7	-15.9	-8.0	37.1	5	13	1.09	0.03	-0.65
BW: TRIPLE S UOJ2220												47	39	23	45	39	36	26	28	18	31	46	24	54	33	31	29	26	26
UOJ 220021	HH 130032	1	110	96	97	94	107	99	99	97	95	105	115	106	96	97	92	95	99	100	87	118	94	99	90	99	98	101	95
291412963	UOJ 170070		63	48	42	22	43	44	35	42	33	0.71	-0.64	25	12.6	-0.2	34	19.5	91	-20	3.3	-17.8	-4.6	32.2	6	23	0.63	0.38	0.00
UOJ2221												67	48	22	48	42	37	26	34	33	38	47	26	56	38	36	34	32	31
UOJ 220022	HH 130032	1	102	92	97	99	117	96	92	92	87	102	99	100	92	97	89	93	93	95	81	128	99	104	82	91	91	101	93
291412971	UOJ 170010		50	63	46	22	48	49	35	46	33	0.90	-0.03	19	10.0	-0.1	29	17.5	63	-14	-0.2	-26.1	-5.6	35.9	1	15	0.04	0.30	-0.14
UOJ2222												51	46	22	63	46	44	26	34	33	38	62	27	56	38	36	34	32	31
UOJ 220025	HH 130032	1	106	99	99	92	105	100	101	98	98	102	112	108	99	99	95	98	101	101	89	114	94	100	93	101	101	102	95
291413003	UOJ 170055		50	63	46	22	47	49	35	46	33	0.92	-0.53	27	14.0	0.3	41	21.3	101	-22	4.6	-15.1	-4.6	33.0	8	26	0.84	0.40	0.05
UOJ2225												51	46	22	63	46	44	26	34	33	38	60	25	56	38	36	34	32	31
UOJ 220029	HH 130032		83	106	108	87	99	98	107	98	106	86	95	113	106	108	107	105	107	105	95	101	100	97	98	110	116	100	103
291413037	UOJ 170020		50	63	46	22	47	49	39	47	36	2.28	0.11	32	18.1	3.1	71	27.0	125	-26	7.9	-4.5	-5.8	30.8	11	35	2.08	0.18	0.68
UOJ2229												50	48	22	63	46	44	28	37	37	41	60	26	56	42	40	37	34	34
UOJ 220033	SS 110024		78	105	124	92	120	112	96	107	99	71	84	106	105	124	122	108	98	96	105	115	122	102	91	99	114	100	102
96189774	UOJ 150001		62	49	42	25	46	45	30	42	32	3.58	0.54	25	17.6	7.9	107	29.0	85	-15	12.9	-15.4	-10.3	34.5	7	24	1.90	0.15	0.56
UOJ2233												66	44	25	49	42	39	28	32	25	36	53	29	57	38	36	33	30	29
UOJ 220042	HH 130032		113	88	106	94	113	99	92	95	91	111	104	105	88	106	92	86	92	88	90	122	105	94	87	94	100	107	101
96191002	UOJ 090015		46	61	44	21	41	46	35	44	32	0.20	-0.22	24	8.3	2.6	35	12.5	61	-6	4.8	-21.6	-6.8	29.0	4	18	0.75	1.12	0.52
UOJ2242												46	44	21	61	44	42	26	34	33	37	46	23	55	37	36	34	31	31
UOJ 220047	SP 110035		98	102	108	99	97	102	94	98	98	98	102	99	102	108	109	98	99	90	100	96	104	92	102	107	117	94	99
96191036	UOJ 200014		43	60	42	15	41	44	36	42	30	1.30	-0.16	18	16.0	3.1	75	21.9	92	-8	10.4	-0.4	-6.6	27.7	13	32	2.13	-0.64	0.34
UOJ2247												43	43	15	60	42	39	25	33	35	37	44	25	54	38	36	32	29	28
UOJ 220056	HH 130032	2	140	96	103	89	127	122	107	119	105	138	144	112	96	103	94	91	107	108	96	129	116	107	100	108	108	108	103
96191044	UOJ 160010		64	64	49	23	45	52	36	49	34	-2.14	-1.78	31	12.4	1.5	39	16.2	125	-29	8.2	-27.1	-9.1	37.6	12	33	1.41	1.18	0.69
UOJ2256												68	49	23	64	49	45	28	35	34	38	51	29	56	38	37	35	32	31
UOJ 220057	SP 110035		80	116	110	89	110	114	109	112	110	75	89	111	116	110	118	114	111	107	101	112	106	103	106	118	125	93	102
96191077	UOJ 210007		48	63	45	19	46	48	40	46	34	3.28	0.35	30	23.5	3.8	99	33.8	144	-28	11.2	-13.0	-6.9	35.1	16	43	2.85	-0.68	0.61
UOJ2257												48	47	19	63	45	42	28	37	39	42	52	30	56	42	41	36	33	32

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ID Number Name																													
UOJ 220060 96388665 UOJ2260		HH 130032 UOJ 160018	78 59	102 45	113 38	94 21	101 37	96 41	94 35	93 40	90 32	70 3.69 64	85 0.52 37	104 23 21	102 16.0 45	113 4.6 38	111 80 35	100 23.1 26	94 68 34	90 -9 33	88 4.1 37	112 -13.6 42	99 -5.5 23	86 23.2 46	89 6 37	94 18 36	101 0.82 34	99 0.01 31	87 -0.64 31
UOJ 220063 96191085 UOJ2263	13	SP 110035 UOJ 200048	81 38	112 61	108 43	96 15	98 41	104 44	102 37	102 43	105 32	82 2.68 38	92 0.24 37	102 21 15	112 21.1 61	108 3.2 43	116 94 40	108 29.7 26	107 124 34	99 -19 36	102 11.5 38	94 1.2 45	108 -7.3 27	93 28.3 51	107 16 39	114 40 37	124 2.78 33	88 -1.38 30	96 0.12 29
UOJ 230002 96191101 UOJ2302	2	HH 130032 UOJ 140028	88 60	105 63	108 46	89 23	121 44	110 50	106 36	107 47	104 34	88 2.16 65	106 -0.32 40	111 30 23	105 17.7 63	108 3.0 46	107 70 44	103 25.7 28	106 120 35	107 -28 34	95 7.6 38	129 -26.7 51	113 -8.4 28	98 31.4 54	98 11 38	106 31 37	107 1.34 35	108 1.17 32	103 0.67 31
UOJ 230004 96191093 UOJ2304	1	SS 110024 UOJ 140011	77 65	101 63	119 46	99 25	114 46	103 52	92 26	98 47	93 28	74 3.39 69	80 0.70 51	98 18 25	101 15.0 63	119 6.5 46	117 94 45	104 26.1 28	95 74 29	95 -14 19	98 9.5 33	119 -18.8 53	108 -7.5 28	100 32.8 56	85 3 34	91 15 32	100 0.80 29	102 0.44 27	98 0.24 26
UOJ 230006 96191408 UOJ2306	25	SS 110024 UOJ 190025	77 50	99 50	130 43	89 26	125 44	109 43	93 27	104 40	95 31	73 3.41 52	81 0.67 43	108 27 26	99 14.2 50	130 9.8 43	120 103 40	103 25.7 29	93 66 31	93 -12 20	106 13.9 35	126 -24.9 52	119 -9.7 27	101 33.7 52	85 3 36	91 15 35	108 1.43 32	102 0.49 30	96 0.08 29
UOJ 230015 96190459 UOJ2315		HH 130032 UOJ 090002	103 41	90 45	105 40	93 21	110 41	95 38	93 35	91 37	93 32	104 0.74 43	94 0.15 34	106 25 21	90 9.4 45	105 2.4 40	93 37 35	89 14.3 26	94 67 34	89 -7 33	91 5.6 37	119 -19.2 47	104 -6.7 24	92 27.8 51	89 6 37	96 20 36	101 0.89 34	107 1.13 31	102 0.56 31
UOJ 230016 96190467 UOJ2316		HH 130032 UOJ 070001	105 40	92 47	112 43	91 21	120 40	104 39	95 35	100 38	96 32	105 0.72 42	99 -0.03 33	108 27 21	92 10.3 47	112 4.4 43	99 52 37	90 15.3 26	96 77 34	91 -9 33	93 6.8 37	128 -26.0 46	113 -8.4 24	95 29.8 50	92 7 37	99 23 36	104 1.10 34	107 1.16 31	102 0.61 31
UOJ 230017 96190475 UOJ2317	1	HH 130032 UOJ 170007	103 44	98 49	101 43	93 22	114 44	103 41	100 35	100 40	97 33	101 1.03 46	107 -0.35 36	107 26 22	98 13.4 49	101 0.9 43	95 43 38	97 21.0 26	100 96 34	101 -21 33	88 4.0 38	126 -24.5 51	100 -5.9 28	99 32.1 53	92 7 38	100 25 36	100 0.75 34	102 0.39 32	95 0.03 31
UOJ 230020 98934839 UOJ 230020		HH 130032 UOJ 180025	102 61	92 45	108 38	93 21	108 38	97 42	93 35	93 41	93 32	102 0.98 65	101 -0.13 46	106 25 21	92 10.5 45	108 3.1 38	97 47 35	90 15.4 26	93 66 34	89 -7 33	91 5.5 37	116 -16.4 41	103 -6.4 23	94 28.9 50	89 5 37	95 20 36	101 0.86 34	107 1.13 31	102 0.55 31
UOJ 230022 6020139082 UOJ230022	1	HH 130032 UOJ 170001	107 44	97 50	101 46	93 22	112 44	103 42	99 35	100 41	96 33	103 0.84 46	112 -0.52 37	107 26 22	97 13.2 50	101 1.0 46	95 43 39	97 20.5 26	100 95 34	101 -21 33	88 3.8 38	124 -23.2 51	93 -4.3 28	105 36.1 52	91 7 38	100 24 36	99 0.71 34	101 0.39 32	95 0.02 31
UOJ 230023 99027039 UOJ 230023	1	HH 130032 UOJ 170006	105 44	97 48	98 42	94 22	108 44	99 41	99 35	96 40	95 33	102 0.92 46	108 -0.38 37	106 25 22	97 12.9 48	98 0.2 42	93 37 37	96 20.3 26	99 91 34	100 -20 33	87 3.3 38	120 -19.7 51	95 -4.8 29	99 32.1 52	90 6 38	99 23 36	98 0.63 34	101 0.38 32	95 0.00 31
UOJ 230036 97678833 UOJ 230036		HH 130032 UOJ 160045	107 40	90 45	103 38	96 21	119 42	100 38	93 35	96 37	89 32	106 0.63 42	104 -0.23 34	103 22 21	90 9.4 45	103 1.6 38	92 34 35	87 13.5 26	93 65 34	90 -9 33	86 3.0 37	125 -24.1 49	113 -8.5 27	94 28.8 50	88 5 37	93 17 36	99 0.65 34	100 0.16 31	87 -0.66 31

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ID Number Name																														
UOJ 230038 98934821 UOJ 230038		HH 130032 UOJ 180002	101 46	100 49	104 42	91 22	105 42	101 41	102 39	99 41	101 36	99 1.23 48	108 -0.36 40	109 28 22	100 14.4 49	104 1.9 42	99 52 38	98 21.8 28	103 106 37	102 -23 37	91 5.6 41	111 -12.8 47	101 -6.1 26	96 30.1 53	92 8 42	105 30 40	111 1.69 37	100 0.14 34	102 0.59 34	
UOJ 240002 97678890 UOJ 240002	2	HH 130032 UOJ 140028	100 46	99 50	108 46	92 23	122 44	109 43	102 36	105 42	99 34	99 1.21 48	105 -0.28 40	107 26 23	99 13.9 50	108 3.1 46	102 59 40	98 21.3 28	102 102 35	104 -25 34	91 5.3 38	130 -27.9 51	111 -8.1 28	98 31.6 53	93 8 38	101 26 37	102 0.96 35	107 1.12 32	102 0.58 31	
UOJ 240003 97678916 UOJ 240003	1	SS 110024 UOJ 190022	81 47	97 49	108 45	99 24	115 43	97 42	89 26	92 39	88 28	86 2.30 49	92 0.24 41	99 18 24	97 12.9 49	108 3.3 45	104 64 39	100 22.8 26	91 55 28	91 -10 19	96 8.0 32	125 -23.8 51	103 -6.3 27	99 32.1 52	84 3 33	88 12 32	97 0.49 30	97 -0.21 27	86 -0.70 26	
UOJ 240004 6020176472 UOJ 240004		UOJ 210041	103 20	88 31	111 22	99 11	104 23	93 23			86 16	105 0.70 21	93 0.19 17	98 18 11	88 8.3 31	111 4.0 22	98 50 21	84 10.6 13	89 50 17	79 4 16	93 6.7 19	113 -13.9 29	106 -7.0 12	82 20.5 27	95 9 19	92 16 18	100 0.79 17	95 -0.41 16	78 -1.33 15	
UOJ 240013 97678882 UOJ 240013		HH 130032 UOJ 200030	97 44	100 49	102 42	92 22	112 43	102 41	102 39	100 41	99 36	96 1.48 46	106 -0.31 37	108 27 22	100 14.8 49	102 1.4 42	99 51 38	99 22.2 28	103 106 37	103 -23 37	89 4.4 41	117 -17.3 51	107 -7.2 27	98 31.7 51	92 7 42	104 29 40	110 1.59 37	96 -0.35 34	95 -0.02 34	
UOJ 240014 97675151 UOJ 240014		SS 110024 UOJ 200048	78 47	99 48	126 44	95 24	109 39	102 41	93 26	97 38	92 28	79 2.95 48	85 0.51 43	102 22 24	99 14.1 48	126 8.6 44	119 100 39	100 23.3 26	94 69 29	91 -9 20	102 11.3 33	106 -9.0 45	113 -8.4 25	97 31.2 48	90 6 34	94 18 33	108 1.47 30	93 -0.75 27	83 -0.93 27	
UOJ 240017 99019622 uoj 240017		UOJ 200008	111 29	87 25	106 24	104 11	103 26	94 23			82 16	109 0.34 29	103 -0.18 28	94 13 11	87 7.8 25	106 2.5 24	95 41 20	83 10.4 14	88 45 17	83 0 17	88 3.8 19	112 -13.8 31	104 -6.5 16	84 22.4 30	90 6 19	89 12 19	95 0.34 17	95 -0.48 16	77 -1.44 16	
UOJ 240018 99021479 uoj 240018		UOJ 200034	95 26	89 25	106 22	106 11	99 26	88 22			81 16	99 1.22 26	91 0.28 24	92 11 11	89 8.6 25	106 2.6 22	97 47 19	86 12.3 14	89 47 18	83 0 17	86 2.8 19	108 -10.0 31	103 -6.3 17	82 20.6 29	88 5 19	88 11 18	94 0.26 17	92 -0.81 16	75 -1.58 15	
UOJ 240019 99966301 24-19		UOJ 180013	122 21	79 13	113 20							121 -0.67 20	97 0.03 23		79 3.1 13	113 4.6 20							78 17.8 19							
UOJ 240020 99019630 uoj 240020		UOJ 180011	94 21	91 21	111 18	106 8	92 26				84 15	100 1.12 21	85 0.52 21	91 11 8	91 9.8 21	111 3.9 18	103 62 16	87 13.2 12	88 42 16	76 9 18	94 7.3 19	100 -3.8 29	101 -6.1 18	75 15.7 30	95 9 19	93 17 18	103 1.01 16	92 -0.79 14	83 -0.95 14	
UOJ 240023 99019655 uoj 240023		UOJ 190018	106 20	85 22	109 19	103 11	100 23				81 16	107 0.47 21	93 0.20 17	94 14 11	85 6.6 22	109 3.5 19	95 43 17	81 8.6 13	86 34 17	76 8 16	89 4.7 19	110 -12.2 29	101 -6.0 12	83 21.3 28	90 6 19	88 11 18	96 0.43 17	95 -0.46 16	77 -1.42 15	
UOJ 240034 99019572 uoj 240034		HH 130032 UOJ 180025	104 44	91 45	108 38	93 21	108 37	96 38	93 35	93 37	93 32	105 0.68 45	97 0.03 38	106 25 21	91 9.7 45	108 3.2 38	96 44 35	89 14.5 26	93 66 34	89 -7 33	91 5.5 37	116 -16.4 41	103 -6.4 23	94 28.7 47	89 5 37	95 20 36	101 0.86 34	107 1.13 31	102 0.55 31	

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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																														
UOJ 250001 99021917 UOJ 250001		UOJ 190002		114 25	90 22	105 23	109 5	101 26	98 21			83 7	111 0.18 25	107 -0.36 23	89 9 5	90 9.2 22	105 2.3 23	98 50 17	86 12.6 8	89 48 8	82 2 7	91 5.4 8	111 -12.2 31	101 -6.0 17	86 23.4 30	96 10 8	90 14 8	92 0.07 7	94 -0.54 7	76 -1.50 6
UOJ 250002 99021925 UOJ 250002		UOJ 210055		112 32	86 24	114 21	103 12	115 24	101 23			84 14	110 0.22 34	102 -0.15 23	94 14 12	86 7.0 24	114 5.1 21	100 55 19	84 10.4 14	87 38 15	80 4 9	97 8.6 16	123 -22.1 30	114 -8.6 13	86 23.6 28	91 6 17	88 11 16	97 0.55 15	99 0.10 14	84 -0.84 13
UOJ 250003 99966285 UOJ 250003		UOJ 170005		107 22	86 21	100 25		96 24				77 6	109 0.33 22	92 0.26 22		86 7.0 21	100 0.8 25	91 32 17	82 9.6 6	82 20 6	72 14 6	89 4.2 7	109 -11.2 29	93 -4.3 13	85 23.0 30	91 7 7	85 8 7	88 -0.19 6	94 -0.56 5	75 -1.57 5
UOJ 250004 99027203 UOJ 250004		UOJ 170006		105 18	87 18	104 17		90 25				79 6	108 0.46 19	91 0.26 15		87 7.6 18	104 1.9 17	95 41 13	84 10.5 6	84 26 6	73 12 6	90 5.0 7	102 -5.1 29	93 -4.4 17	79 19.0 30	93 8 7	87 10 7	90 -0.05 6	94 -0.55 5	76 -1.54 5
UOJ 250006 99019804 uoj 250006		UOJ 170039		97 22	91 21	107 19	107 8	103 25				84 15	101 0.99 22	88 0.38 22	91 11 8	91 9.8 21	107 2.8 19	100 54 16	87 13.0 12	87 41 16	76 8 18	93 6.5 19	110 -12.2 29	107 -7.2 16	82 20.8 30	95 9 19	92 16 18	102 0.90 16	94 -0.63 14	83 -0.95 14
UOJ 250007 99019812 uoj 250007		UOJ 210046		92 27	89 31	113 23	106 12	94 25	87 25			80 14	96 1.42 27	88 0.39 25	91 11 12	89 8.8 31	113 4.8 23	104 63 22	88 13.7 14	84 28 14	77 7 9	93 6.4 16	102 -5.6 31	97 -5.1 15	86 23.2 29	88 5 17	85 8 16	94 0.28 15	92 -0.84 14	73 -1.74 13
UOJ 250008 99019820 uoj 250008		UOJ 200024		105 25	88 25	103 23	104 11	96 22	88 22			81 16	105 0.65 25	97 0.07 24	94 13 11	88 8.1 25	103 1.6 23	93 37 20	85 11.4 14	88 43 17	82 2 17	87 3.2 19	107 -9.5 25	94 -4.6 13	86 23.3 29	90 6 19	88 12 18	94 0.25 17	92 -0.84 16	74 -1.71 15
UOJ 250009 99019895 uoj 250009		UOJ 200055		108 22	88 24	107 21	103 11	101 26	93 21			83 16	107 0.51 23	100 -0.08 19	94 14 11	88 8.2 24	107 2.9 21	96 45 19	84 11.1 14	89 49 17	84 -1 17	89 4.2 19	111 -12.6 31	104 -6.7 17	78 18.2 29	91 7 19	90 13 19	96 0.41 17	95 -0.47 16	77 -1.43 16
UOJ 250011 99019838 uoj 250011		UOJ 210067		89 24	98 31	114 23	99 9	96 25	95 24			92 17	93 1.72 24	93 0.22 23	98 18 9	98 13.6 31	114 4.9 23	110 78 21	94 18.6 14	95 74 18	85 -3 18	100 10.6 20	97 -1.4 31	108 -7.4 16	81 20.3 29	100 12 21	100 24 20	111 1.65 18	90 -1.06 16	82 -1.06 15
UOJ 250012 99019887 uoj 250012		UOJ 170024		98 22	90 22	108 22	109 8	90 26	87 20			82 15	102 0.94 22	89 0.34 22	89 9 8	90 9.1 22	108 3.1 22	100 55 17	85 11.9 12	87 38 16	76 9 18	92 6.0 19	91 3.6 29	106 -7.0 18	78 18.0 31	94 9 19	91 15 18	101 0.89 16	88 -1.36 14	75 -1.57 14
UOJ 250013 99019846 uoj 250013		UOJ 180002		101 22	90 21	109 18	107 8	87 22				84 15	104 0.76 22	91 0.28 23	91 11 8	90 9.2 21	109 3.6 18	101 57 16	86 12.0 12	88 42 16	76 9 18	94 7.3 19	93 1.8 23	100 -5.7 13	77 17.0 30	95 9 19	93 17 18	103 1.01 16	92 -0.79 14	83 -0.95 14
UOJ 250018 6020175797 UOJ 250018	7	UOJ 210032 UOJ 170001		108 29	95 33	98 34	99 12	113 34	102 29			92 18	106 0.63 30	105 -0.26 25	99 19 12	95 12.2 33	98 0.3 34	94 40 26	95 18.9 14	94 71 18	91 -9 18	90 4.8 20	121 -20.7 39	93 -4.3 21	113 42.2 41	93 8 20	96 20 19	94 0.27 18	104 0.67 17	97 0.16 16

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Index EBV Acc	% Inbreeding	Sire ID Dam ID	Calv. Ease V	Calf Growth V	Milk V	Maint. V	Fertility V	Cow Value	Growth Value	Prod. Value	Carcass Value	Birth wt dir	Birth mat	Mature wt	Wean wt	Wean mat	Cow-Calf Ratio (Wean)	Postwean wt	ADG	FCR	Scrotal Circ.	Heifer Fertility	Cow Fertility	Longevity	Height	Length	EMA	Fat	Marbling
ID Number Name																													
UOJ 250019 6020106222 UOJ 250019	7	UOJ 210032 UOJ 170004	105 29	96 31	98 29	99 12	116 34	102 27			92 18	104 0.77 30	101 -0.12 24	99 19 12	96 12.3 31	98 0.1 29	94 39 24	95 19.2 14	94 71 18	91 -9 18	90 4.8 20	123 -22.5 39	100 -5.8 22	107 37.5 41	93 8 20	96 20 19	94 0.27 18	104 0.67 17	97 0.16 16
UOJ 250020 6020177629 UOJ 250020	1	TDA 20-0015 UOJ 220004	94 40	98 29	97 26	107 11	101 29	94 28	91 22	90 27	90 18	95 1.58 44	102 -0.13 26	92 12 11	98 13.4 29	97 -0.3 26	97 48 22	98 21.5 18	95 75 21	97 -17 20	89 4.7 24	104 -6.8 31	94 -4.5 18	106 37.0 39	88 5 23	96 20 22	102 0.90 19	96 -0.34 18	97 0.21 17
UOJ 250022 6020107097 UOJ 250022		UOJ 210032 UOJ 170066	108 27	89 28	105 30	98 11	110 25	96 25			90 16	109 0.32 27	93 0.20 25	100 19 11	89 8.4 28	105 2.3 30	93 38 23	86 12.5 14	89 49 17	80 4 17	94 7.2 19	113 -13.8 26	103 -6.4 13	103 35.2 36	92 7 19	93 17 18	97 0.54 17	110 1.42 16	104 0.72 15
UOJ 250023 6020096324 UOJ 250023		UOJ 210032 UOJ 170020	92 31	100 34	105 34	96 13	105 31	99 29	95 25	95 28	98 22	95 1.55 31	93 0.21 29	103 22 13	100 14.7 34	105 2.4 34	103 62 27	99 22.4 18	98 88 24	94 -13 24	94 7.2 27	107 -9.2 35	102 -6.1 18	102 34.3 41	95 9 27	103 27 26	107 1.35 23	102 0.42 21	104 0.76 21
UOJ 250024 6020285406 UOJ 250024		TDA 20-0015 UOJ 210057	87 39	102 35	105 27	100 11	106 31	100 30	94 21	97 28	96 18	89 2.03 43	99 -0.04 25	98 17 11	102 15.9 35	105 2.4 27	107 71 24	102 24.7 17	98 88 20	97 -17 19	99 10.0 23	107 -9.4 35	101 -6.0 19	105 36.1 39	94 9 22	101 25 21	109 1.52 19	98 -0.10 17	100 0.43 17
UOJ 250025 6020097454 UOJ 250025	2	TDA 20-0015 UOJ 190022	110 38	89 27	87 29	117 7	98 29	88 27			78 8	108 0.41 42	104 -0.21 22	84 4 7	89 8.6 27	87 -3.3 29	83 13 21	88 14.2 12	85 30 12	84 -1 8	85 2.3 13	107 -9.3 32	85 -2.8 17	105 36.2 38	84 2 11	84 7 11	85 -0.45 9	97 -0.18 8	86 -0.70 8
UOJ 260001 6020154685 UOJ 260001	7	UOJ 210056 UOJ 150024	99 56	101 39	103 35	98 13	129 34	113 37	95 20	107 34	97 18	95 1.52 63	114 -0.62 30	100 20 13	101 15.1 39	103 1.6 35	102 60 29	97 21.2 18	97 84 20	97 -16 18	94 7.2 21	132 -29.3 38	117 -9.2 21	108 38.4 42	96 10 21	98 23 21	99 0.65 19	112 1.77 18	107 1.00 17
UOJ 260002 6020096340 UOJ 260002		UOJ 210056 UOJ 180013	137 57	86 35	112 32	94 11	119 25	112 33			96 16	128 -1.29 63	119 -0.82 31	104 23 11	86 7.1 35	112 4.3 32	95 42 26	82 9.1 14	94 70 17	85 -3 17	100 10.2 19	119 -18.8 26	112 -8.3 15	107 38.0 35	98 11 19	99 23 19	103 1.03 17	113 1.83 16	108 1.09 16
UOJ 260003 6020116791 UOJ 260003	2	TDA 20-0015 UOJ 170046	95 57	96 27	97 30	111 7	102 31	93 31			83 8	95 1.57 64	103 -0.18 28	87 7 7	96 12.5 27	97 -0.3 30	97 48 21	95 19.6 12	87 42 12	86 -3 8	89 4.6 13	104 -6.7 34	91 -3.9 20	112 41.2 40	88 5 11	88 11 11	89 -0.16 9	102 0.41 8	94 -0.04 8
UOJ 260004 6020096357 UOJ 260004	7	UOJ 210056 UOJ 220057	87 57	111 45	111 33	87 15	120 32	116 39	109 27	114 37	109 24	83 2.56 64	110 -0.48 31	113 31 15	111 21.0 45	111 3.9 33	114 88 31	108 29.7 20	111 140 25	108 -30 26	100 10.4 28	121 -20.3 36	111 -8.0 21	111 40.2 40	105 15 29	114 40 27	118 2.26 25	101 0.26 23	103 0.68 22
UOJ 260005 6020177637 UOJ 260005	13	UOJ 210056 UOJ 220021	120 59	96 40	103 32	90 15	119 31	110 37	104 26	107 35	102 24	114 -0.09 66	123 -0.94 32	110 29 15	96 12.2 40	103 1.5 32	94 40 29	94 18.3 20	104 113 24	105 -26 24	93 6.5 27	124 -22.7 35	105 -6.8 19	108 38.7 40	97 10 27	105 30 26	105 1.15 24	105 0.79 23	99 0.38 22
UOJ 260008 6020096373 UOJ 260008		UOJ 200024	101 52	89 25	103 23	104 11	96 22	88 27			81 16	102 0.94 59	97 0.06 24	94 13 11	89 8.8 25	103 1.7 23	94 40 20	86 12.3 14	88 43 17	82 2 17	87 3.2 19	107 -9.5 25	94 -4.6 13	86 23.3 29	90 6 19	88 12 18	94 0.25 17	92 -0.84 16	74 -1.71 15

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Animal			Selection Values								Birth		Wean				Growth			Fertility				Frame		Carcass			
Index EBV Acc	% Inbreeding	Sire ID Dam ID	Calv. Ease V	Calv 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																													
UOJ 260016 6020266802 UOJ2616	1	TDA 20-0015 UOJ 210027	99 58	86 35	104 28	113 14	107 30	90 34			79 16	102 0.96 65	94 0.18 31	86 6 14	86 6.9 35	104 2.0 28	94 41 26	88 14.1 17	85 29 18	86 -4 11	89 4.2 20	111 -12.6 35	96 -4.9 17	108 38.4 39	77 -2 19	81 4 18	89 -0.12 16	99 0.12 15	92 -0.25 14
UOJ 260018 6020266828 UOJ2618		TDA 20-0015 UOJ 210067	100 57	99 35	104 27	100 11	102 31	101 34	95 21	97 31	97 18	100 1.15 64	103 -0.18 29	98 18 11	99 14.3 35	104 2.0 27	103 61 24	99 22.4 17	99 91 20	98 -17 19	100 10.5 23	97 -1.5 35	103 -6.5 19	107 37.7 39	95 9 22	102 26 21	110 1.59 19	98 -0.09 17	100 0.45 17
UOJ 260020 6020266844 UOJ2620		UOJ 210056 UOJ 220047	121 56	97 44	108 32	92 14	114 31	113 38	102 25	109 35	103 23	114 -0.07 63	116 -0.70 30	107 26 14	97 13.3 44	108 3.1 32	101 57 30	94 18.6 19	104 114 24	100 -20 24	99 10.0 27	113 -14.0 34	110 -7.8 19	105 36.5 40	103 14 27	109 34 26	114 1.89 24	101 0.29 22	101 0.55 21
UOJ 260022 6020272438 UOJ2622		UOJ 220033	83 31	93 25	117 21	102 12	97 23	90 23			84 16	90 1.99 33	85 0.50 22	94 14 12	93 10.7 25	117 6.0 21	109 77 19	91 16.1 14	88 43 16	80 4 13	96 8.4 18	101 -4.3 26	108 -7.4 14	81 19.7 29	91 7 19	90 13 18	102 0.95 17	91 -0.95 15	77 -1.41 15
UOJ 260023 6020266851 UOJ2623	1	TDA 20-0015 UOJ 190006	101 58	90 30	95 27	109 13	106 31	91 32	87 20	86 30	83 18	101 1.02 65	101 -0.11 29	90 9 13	90 9.2 30	95 -0.7 27	89 28 23	90 15.4 18	90 51 20	92 -10 18	85 2.0 22	114 -14.6 35	92 -4.1 19	108 38.7 40	81 1 21	87 10 20	91 0.01 18	100 0.14 17	92 -0.19 17
UOJ 260025 6020266869 UOJ2625	1	TDA 20-0015 UOJ 140024	108 58	92 29	99 33	112 9	111 33	100 33			84 10	105 0.71 65	110 -0.44 32	87 7 9	92 10.5 29	99 0.4 33	96 45 24	91 16.2 14	88 42 13	88 -6 9	91 5.2 15	108 -10.5 36	107 -7.3 21	108 38.2 41	88 5 13	87 11 13	90 -0.07 11	107 1.13 10	101 0.48 10
UOJ 260027 6020266877 UOJ2627	2	TDA 20-0015 UOJ 190002	120 57	93 27	96 27	109 8	108 31	104 31			88 10	112 0.04 64	118 -0.77 29	89 9 8	93 11.0 27	96 -0.5 27	93 38 21	93 17.7 12	93 66 13	95 -14 9	91 5.3 14	111 -12.4 34	97 -5.1 20	112 40.9 40	91 7 12	92 16 12	91 0.01 10	102 0.43 9	95 0.01 9
UOJ 260033 6020382856 UOJ 260033		UOJ 220042	115 51	82 31	108 22	104 11	94 20	87 29			80 16	115 -0.22 58	95 0.13 22	94 13 11	82 4.8 31	108 3.1 22	91 33 21	78 6.2 13	85 31 17	76 9 16	89 4.3 19	105 -7.4 23	99 -5.7 11	76 17.0 27	89 6 19	87 10 18	95 0.38 17	95 -0.46 16	77 -1.44 15
UOJ 260034 6020379324 UOJ 260034		TDA 20-0015 UOJ 180002	109 57	92 26	100 24	107 10	94 28	93 29	87 20	88 27	89 17	108 0.41 64	101 -0.13 28	91 11 10	92 10.4 26	100 0.7 24	95 43 20	91 16.5 16	92 59 19	89 -7 19	94 7.2 22	93 1.7 27	95 -4.8 16	102 34.4 40	91 6 21	95 19 20	102 0.95 18	100 0.18 16	102 0.56 15
UOJ 260035 6020379332 UOJ 260035		TDA 20-0015 UOJ 210065	96 58	92 35	108 27	104 13	99 29	92 34			86 16	98 1.25 65	95 0.11 30	94 14 13	92 10.5 35	108 3.3 27	101 58 25	93 17.9 16	89 50 17	89 -7 11	97 8.6 19	94 0.8 33	97 -5.2 17	110 40.1 38	86 4 18	89 12 18	99 0.65 16	96 -0.30 15	91 -0.33 14
UOJ 260044 6020739139 UOJ 260044		UOJ 210040	91 52	88 31	115 23	107 12	101 25	90 30			78 14	96 1.45 59	88 0.40 26	90 10 12	88 8.3 31	115 5.2 23	104 65 22	87 13.2 14	83 23 14	76 8 9	91 5.7 16	109 -10.7 31	102 -6.2 16	86 23.6 29	86 4 17	83 6 16	93 0.16 15	92 -0.86 14	73 -1.77 13
UOJ 260047 6020849839 UOJ 260047		UOJ 170020	85 51	94 24	114 25	105 8	86 22	86 27			86 15	92 1.76 58	83 0.57 22	92 12 8	94 11.6 24	114 4.9 25	109 75 19	90 15.6 12	89 47 16	77 8 18	96 8.0 19	92 2.8 24	100 -5.8 13	74 15.1 30	97 10 19	94 18 18	104 1.12 16	92 -0.78 14	83 -0.92 14

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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	
UOJ 260048 6020849847 UOJ 260048		UOJ 230020	112 53	83 22	109 19	103 11	91 19	86 25			81 16	113 -0.02 61	94 0.18 23	94 14 11	83 5.5 22	109 3.3 19	93 36 17	79 7.1 13	86 34 17	76 8 16	89 4.7 19	101 -4.8 21	98 -5.5 11	76 16.9 25	90 6 19	88 11 18	96 0.43 17	95 -0.46 16	77 -1.42 15	
UOJ 260050 6020849854 UOJ 260050		UOJ 160034	101 51	88 21	104 25		98 25				78 6	104 0.77 58	90 0.30 22		88 8.3 21	104 1.8 25	96 44 17	85 11.3 6	83 23 6	72 13 6	89 4.6 7	109 -10.6 31	97 -5.2 15	84 22.1 30	92 7 7	86 9 7	89 -0.13 6	94 -0.56 5	76 -1.55 5	

Selection List on Cow Value

Bulls 2 years and older

ID Sorted on ID	Name	Sire ID	Dam ID	% Inbreeding	Myostatin Horned / Polled 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	UOJ 210056 BW: TRIPLE S UOJ2156	HH 130032	UOJ 160010	1.9		109 67	101 64	110 49	86 23	131 46	119 53	110 36	116 50	
2	UOJ 230032 UOJ 230032	SS 110024	UOJ 190002	1.0		87 51	102 49	118 44	94 24	125 44	113 43	97 26	108 40	
3	UOJ 240006 UOJ 240006	SS 110024	UOJ 170039	0.2		79 50	104 49	120 43	92 25	126 44	112 43	95 30	107 40	
4	UOJ 240008 UOJ 240008	SS 110024	UOJ 160008	0.5		111 51	95 48	118 42	93 25	135 42	119 42	93 26	113 39	
										★★★★☆				
1	UOJ 210012 BW: TRIPLE S UOJ2112	SP 110035	UOJ 170041	0.2		87 38	107 45	100 40	100 16	105 45	103 38	97 36	100 38	
2	UOJ 230009 UOJ2309	SP 110035	UOJ 190016	0.2		84 39	108 46	102 40	100 16	102 44	102 38	98 36	99 38	
3	UOJ 230010 UOJ2310	SP 110035	UOJ 200055	0.4		90 41	108 48	103 42	94 19	113 45	109 40	105 40	107 40	
4	UOJ 230011 UOJ2311	SP 110035	UOJ 200051	12.8		83 41	111 49	104 42	93 19	110 45	108 41	106 41	105 41	
5	UOJ 230014 UOJ2314	SP 110035	UOJ 200024	0.4		87 42	108 49	99 43	95 19	108 44	104 41	104 40	102 41	
6	UOJ 230026 UOJ 230026	HH 130032	UOJ 170031	1.7		107 46	99 50	95 44	95 22	120 45	107 42	101 36	104 41	
7	UOJ 230035 UOJ 230035	HH 130032	UOJ 150024	1.9		107 46	95 50	97 46	97 23	119 44	102 43	96 36	99 42	
8	UOJ 230037 UOJ 230037	HH 130032	UOJ 150054	1.9		108 48	96 48	104 42	93 23	118 44	107 42	100 36	104 41	
9	UOJ 240001 UOJ 240001	HH 130032	UOJ 170020	0.3		91 46	102 51	108 46	90 22	104 42	100 43	103 39	98 42	
10	UOJ 240009 UOJ 240009	HH 130032	UOJ 170068	0.8		106 44	97 48	100 42	92 22	112 41	102 40	98 35	99 39	
11	UOJ 240010 UOJ 240010	SS 110024	UOJ 160034	0.7		80 50	100 49	116 45	96 24	121 44	104 43	91 26	99 40	
12	UOJ 240011 UOJ 240011	HH 130032	UOJ 140024	1.9		113 49	95 51	102 48	95 23	122 45	109 44	98 36	105 42	
13	UOJ 240015 UOJ 240015	SS 110024	UOJ 200035	0.3		81 49	98 50	122 43	89 26	111 43	100 43	96 30	96 40	
14	UOJ 240024 UOJ 240024	SS 110024	UOJ 190006	0.7		80 51	98 51	117 44	93 26	123 44	104 44	96 30	100 41	
										★★★				
1	UOJ 210032 UOJ2132	HH 130032	UOJ 170010	0.8		104 44	96 49	95 45	95 22	114 45	99 42	97 35	96 41	
2	UOJ 230012 UOJ2312	SP 110035	UOJ 200009	0.2		81 41	104 48	107 42	97 20	102 45	98 40	96 38	94 40	
3	UOJ 230018 UOJ2318	HH 130032	UOJ 170065	0.0		107 40	90 45	108 38	93 21	106 37	96 37	93 35	92 37	
4	UOJ 230034 UOJ 230034	HH 130032	UOJ 160005	0.8		101 43	97 48	97 40	93 22	103 40	94 40	101 35	93 39	
5	UOJ 230039 UOJ 230039	HH 130032	UOJ 160017	0.0		107 40	90 45	108 38	93 21	109 38	97 37	93 35	93 37	
6	UOJ 240012 UOJ 240012	HH 130032	UOJ 170022	0.8		102 44	98 51	103 48	92 22	101 43	98 43	100 35	95 41	
7	UOJ 240036 uoj 240036	HH 130032	UOJ 160005	0.8		101 43	97 48	97 40	93 22	103 40	94 40	101 35	93 39	

Selection List on Cow Value

Bulls 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	
1	TDA 20-0015	DRUKWERK 20-0015TDA	KT 130008	TDA 090029	0.5						10868	8932	9331	11712	8835	8536			
2	UOJ 240027	uoj 240027		UOJ 210007	0.0						9625	8825	11526	10211	9724	8922			
3	UOJ 240029	uoj 240029		UOJ 140011	0.0						9423	8621	10624	1177	9026	8220			

Selection List on Cow Value

Cows 2 years and older

ID	Name	Sire ID	Dam ID	% Inbreeding	Myostatin Horned / Polled 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	
Sorted on ID														
										★★★★★				
1	UOJ 210055	UOJ2155	SS 110024	UOJ 160008	0.5	120 63	92 48	118 42	93 25	148 47	125 45	93 26	118 41	
2	UOJ 210067	BW: TRIPLE S UOJ2167	SP 110035	UOJ 180023	0.2	83 48	116 62	117 45	86 20	116 51	120 48	108 38	117 46	
3	UOJ 220056	UOJ2256	HH 130032	UOJ 160010	1.9	140 64	96 64	103 49	89 23	127 45	122 52	107 36	119 49	
										★★★★				
1	UOJ 140024	TRIPLE-S 14-0024UOJ	VV 100108	UOJ 110020	0.0	122 53	91 49	104 59	108 14	133 55	116 46			
2	UOJ 150054	TRIPLE-S 15-0054UOJ	VV 100108	UOJ 060011	0.0	113 51	93 37	108 35	105 14	126 51	113 38			
3	UOJ 170031	TRIPLE-S 17-0031UOJ	VV 120048	UOJ 140024	1.2	111 44	99 43	91 45	108 10	129 54	113 40			
4	UOJ 170039	TRIPLE-S 17-0039UOJ	SP 110035	UOJ 110001	0.0	90 43	102 42	103 38	100 15	131 51	111 39	91 36	106 38	
5	UOJ 180027	18-0027UOJ	SS 110024	UOJ 150010	0.5	91 52	98 48	121 42	94 25	124 44	110 43	93 26	105 40	
6	UOJ 190002	TRIPLE-S 19-0002UOJ	VV 120048	UOJ 160010	1.2	117 50	100 43	100 45	103 10	128 52	119 41			
7	UOJ 200008	BW: TRIPLE S UOJ2008	HH 130032	UOJ 140024	1.9	116 57	95 51	101 48	95 23	132 51	113 47	98 36	109 45	
8	UOJ 210024	BW: TRIPLE S UOJ2124	SS 110024	UOJ 140024	0.5	91 52	92 64	122 49	101 25	137 50	111 50	86 26	104 45	
9	UOJ 210041	BW: TRIPLE S UOJ2141	HH 130032	UOJ 070001	0.0	101 40	96 61	111 44	87 21	132 45	111 45	101 35	108 43	
10	UOJ 220011	BW: TRIPLE S UOJ2211	SS 110024	UOJ 170039	0.2	79 50	104 49	120 43	92 25	128 45	112 43	95 30	107 40	
11	UOJ 220033	UOJ2233	SS 110024	UOJ 150001	0.2	78 62	105 49	124 42	92 25	120 46	112 45	96 30	107 42	
12	UOJ 220057	UOJ2257	SP 110035	UOJ 210007	0.3	80 48	116 63	110 45	89 19	110 46	114 48	109 40	112 46	
13	UOJ 230002	UOJ2302	HH 130032	UOJ 140028	1.9	88 60	105 63	108 46	89 23	121 44	110 50	106 36	107 47	
										★★★★				
1	UOJ 140065	TRIPLE-S 14-0065UOJ	SP 110035	UOJ 070021	0.0	90 34	101 42	109 36	99 15	118 51	107 36	91 36	102 36	
2	UOJ 150024	TRIPLE-S 15-0024UOJ	VV 100108	UOJ 060006	0.0	112 45	90 43	94 50	113 14	127 50	104 41			
3	UOJ 160034	TRIPLE-S 16-0034UOJ	VV 120048	UOJ 080006	0.0	105 43	94 42	96 49	107 8	120 51	103 39			
4	UOJ 170001	TRIPLE-S 17-0001UOJ	VV 120048	UOJ 090004	0.0	111 38	95 44	102 51	104 8	112 50	105 39			
5	UOJ 170004	TRIPLE-S 17-0004UOJ	VV 120048	UOJ 080004	0.0	105 36	95 36	101 35	104 8	117 51	104 34			
6	UOJ 170007	TRIPLE-S 17-0007UOJ	VV 120048	UOJ 070001	0.0	103 35	96 38	102 40	103 8	118 50	104 35			
7	UOJ 170046	TRIPLE-S 17-0046UOJ	VV 120048	UOJ 090004	0.0	105 46	95 44	98 51	107 8	115 52	102 41			
8	UOJ 180002	TRIPLE-S 18-0002UOJ	SP 110035	UOJ 110013	0.0	98 45	100 42	108 36	99 15	100 43	100 37	91 36	96 37	
9	UOJ 180018	TRIPLE-S 18-0018UOJ	VV 120048	UOJ 070001	0.0	103 35	96 38	102 40	103 8	127 49	108 35			
10	UOJ 190018	BW: TRIPLE S UOJ1918	HH 130032	UOJ 120006	0.0	107 40	90 45	108 38	93 21	126 46	105 39	93 35	100 38	

Selection List on Cow Value

Cows 2 years and older

ID Sorted on ID			Name	Sire ID	Dam ID	% Inbreeding	Horned / Polled	Myostatin				Calving Ease Value Acc	Calf Growth Value Acc	Milk Value Acc	Maint. Value Acc	Fertility Value Acc	Cow Value Acc	Growth Value Acc	Prod Value Acc									
								nt821	Q204X	F94L	Genomic tested	★★★★☆																
11	UOJ 190025	BW: TRIPLE S	UOJ1925	SS 110024	UOJ 090002	0.0						76	45	93	45	124	40	94	23	128	48	102	40	86	24	96	37	
12	UOJ 200024	BW: TRIPLE S	UOJ2024	HH 130032	UOJ 170005	0.8						105	50	96	49	95	45	95	22	117	45	101	43	97	35	98	41	
13	UOJ 200030	BW: TRIPLE S	UOJ2030	SP 110035	UOJ 160045	0.0						90	34	101	42	105	36	102	15	113	48	103	36	92	36	99	36	
14	UOJ 200034	BW: TRIPLE S	UOJ2034	HH 130032	UOJ 140011	0.7						86	52	97	49	102	45	98	23	123	51	100	44	98	36	97	42	
15	UOJ 200051	BW: TRIPLE S	UOJ2051	HH 130032	UOJ 150001	0.3						94	45	101	49	105	42	91	22	121	49	106	42	102	39	104	41	
16	UOJ 210007	BW: TRIPLE S	UOJ2107	HH 130032	UOJ 160025	0.0						89	48	96	50	118	52	91	21	120	49	104	44	97	35	100	42	
17	UOJ 210040	BW: TRIPLE S	UOJ2140	SS 110024	UOJ 170046	0.7						81	53	95	63	119	47	99	24	127	51	105	50	86	26	98	45	
18	UOJ 210046	BW: TRIPLE S	UOJ2146	SS 110024	UOJ 160034	0.7						80	53	98	63	116	46	97	24	114	51	100	50	89	26	95	45	
19	UOJ 210065	BW: TRIPLE S	UOJ2165	SS 110024	UOJ 120076	0.0						78	52	100	62	125	45	93	23	109	47	102	49	92	24	98	44	
20	UOJ 220004	BW: TRIPLE S	UOJ2204	SP 110035	UOJ 190006	0.4						82	43	106	49	100	43	98	19	113	46	103	41	101	40	100	41	
21	UOJ 220007	BW: TRIPLE S	UOJ2207	SS 110024	UOJ 190025	25.3						77	50	99	50	130	43	89	26	126	45	109	43	93	27	104	40	
22	UOJ 220020	BW: TRIPLE S	UOJ2220	SS 110024	UOJ 160025	0.0						77	45	95	45	129	39	95	23	116	41	101	39	88	24	95	36	
23	UOJ 220025		UOJ2225	HH 130032	UOJ 170055	0.8						106	50	99	63	99	46	92	22	105	47	100	49	101	35	98	46	
24	UOJ 220047		UOJ2247	SP 110035	UOJ 200014	0.0						98	43	102	60	108	42	99	15	97	41	102	44	94	36	98	42	
25	UOJ 220063		UOJ2263	SP 110035	UOJ 200048	12.5						81	38	112	61	108	43	96	15	98	41	104	44	102	37	102	43	
26	UOJ 230004		UOJ2304	SS 110024	UOJ 140011	0.6						77	65	101	63	119	46	99	25	114	46	103	52	92	26	98	47	
27	UOJ 230006		UOJ2306	SS 110024	UOJ 190025	25.3						77	50	99	50	130	43	89	26	125	44	109	43	93	27	104	40	
28	UOJ 230016		UOJ2316	HH 130032	UOJ 070001	0.0						105	40	92	47	112	43	91	21	120	40	104	39	95	35	100	38	
29	UOJ 230017		UOJ2317	HH 130032	UOJ 170007	0.8						103	44	98	49	101	43	93	22	114	44	103	41	100	35	100	40	
30	UOJ 230022		UOJ230022	HH 130032	UOJ 170001	0.8						107	44	97	50	101	46	93	22	112	44	103	42	99	35	100	41	
31	UOJ 230036		UOJ 230036	HH 130032	UOJ 160045	0.0						107	40	90	45	103	38	96	21	119	42	100	38	93	35	96	37	
32	UOJ 230038		UOJ 230038	HH 130032	UOJ 180002	0.3						101	46	100	49	104	42	91	22	105	42	101	41	102	39	99	41	
33	UOJ 240002		UOJ 240002	HH 130032	UOJ 140028	1.9						100	46	99	50	108	46	92	23	122	44	109	43	102	36	105	42	
34	UOJ 240013		UOJ 240013	HH 130032	UOJ 200030	0.3						97	44	100	49	102	42	92	22	112	43	102	41	102	39	100	41	
35	UOJ 240014		UOJ 240014	SS 110024	UOJ 200048	0.1						78	47	99	48	126	44	95	24	109	39	102	41	93	26	97	38	
												★★★★																
1	UOJ 150073	TRIPLE-S 15-0073	UOJ	SP 110035	UOJ 090002	0.0						77	44	101	48	103	53	99	15	115	54	97	43	92	36	93	42	
2	UOJ 170005	TRIPLE-S 17-0005	UOJ	VV 120048	UOJ 110009	0.0						110	45	92	42	90	49	109	8	118	48	99	39					
3	UOJ 170006	TRIPLE-S 17-0006	UOJ	VV 120048	UOJ 090010	0.0						106	36	94	35	97	34	106	8	106	51	97	34					
4	UOJ 170020		UOJ1720	SP 110035	UOJ 080017	0.0						79	43	104	47	116	51	96	15	97	44	98	41	94	36	95	40	

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											
											★★★★																		
5	UOJ 170024	TRIPLE-S 17-0024UOJ	SP 110035	UOJ 120081	0.0						92	43	99	45	105	44	103	15	105	52	99	41	90	36	94	40			
6	UOJ 190006	BW: TRIPLE S UOJ1906	HH 130032	UOJ 130022	0.7						92	52	92	50	98	45	102	23	124	51	96	45	92	36	92	43			
7	UOJ 190016	BW: TRIPLE S UOJ1916	VV 120048	UOJ 160025	0.0						98	36	96	36	100	35	107	8	104	45	96	33							
8	UOJ 190022	BW: TRIPLE S UOJ1922	VV 120048	UOJ 160026	0.0						113	35	89	42	81	49	116	8	108	47	90	37							
9	UOJ 200035	BW: TRIPLE S UOJ2035	HH 130032	UOJ 060001	0.0						107	40	90	45	108	38	93	21	100	45	93	38	93	35	90	37			
10	UOJ 200048	BW: TRIPLE S UOJ2048		UOJ 170024	0.0						91	32	93	33	116	44	105	8	96	30	93	30							
11	UOJ 210017	UOJ2117	SS 110024	UOJ 160005	0.9						78	51	101	48	117	41	94	24	109	41	99	42	95	25	95	39			
12	UOJ 210027	BW: TRIPLE S UOJ2127	SS 110024	UOJ 130022	0.6						77	54	88	63	116	46	109	25	125	49	95	50	80	26	88	45			
13	UOJ 220021	UOJ2221	HH 130032	UOJ 170070	0.8						110	63	96	48	97	42	94	22	107	43	99	44	99	35	97	42			
14	UOJ 220022	UOJ2222	HH 130032	UOJ 170010	0.8						102	50	92	63	97	46	99	22	117	48	96	49	92	35	92	46			
15	UOJ 220029	UOJ2229	HH 130032	UOJ 170020	0.3						83	50	106	63	108	46	87	22	99	47	98	49	107	39	98	47			
16	UOJ 220042	UOJ2242	HH 130032	UOJ 090015	0.0						113	46	88	61	106	44	94	21	113	41	99	46	92	35	95	44			
17	UOJ 220060	UOJ2260	HH 130032	UOJ 160018	0.0						78	59	102	45	113	38	94	21	101	37	96	41	94	35	93	40			
18	UOJ 230015	UOJ2315	HH 130032	UOJ 090002	0.0						103	41	90	45	105	40	93	21	110	41	95	38	93	35	91	37			
19	UOJ 230020	UOJ 230020	HH 130032	UOJ 180025	0.0						102	61	92	45	108	38	93	21	108	38	97	42	93	35	93	41			
20	UOJ 230023	UOJ 230023	HH 130032	UOJ 170006	0.8						105	44	97	48	98	42	94	22	108	44	99	41	99	35	96	40			
21	UOJ 240003	UOJ 240003	SS 110024	UOJ 190022	0.7						81	47	97	49	108	45	99	24	115	43	97	42	89	26	92	39			
22	UOJ 240004	UOJ240004		UOJ 210041	0.0						103	20	88	31	111	22	99	11	104	23	93	23							
23	UOJ 240017	uoj 240017		UOJ 200008	0.0						111	29	87	25	106	24	104	11	103	26	94	23							
24	UOJ 240034	uoj 240034	HH 130032	UOJ 180025	0.0						104	44	91	45	108	38	93	21	108	37	96	38	93	35	93	37			
											★★★★☆																		
1	UOJ 160005	UOJ 160005	VV 050080	UOJ 100022	0.0						99	33	94	34	95	27	104	10	96	37	88	29							
2	UOJ 240018	uoj 240018		UOJ 200034	0.0						95	26	89	25	106	22	106	11	99	26	88	22							

Selection List on Cow Value

Bull Calves younger than 2 years

ID Sorted on ID		Name	Sire ID	Dam ID	% Inbreeding	Horned / Polled	Myostatin		Genomic tested	Calving Ease Value Acc	Calf Growth Value Acc	Milk Value Acc	Maint. Value Acc	Fertility Value Acc	Cow Value Acc	Growth Value Acc	Prod Value Acc									
										★★★★★																
1	UOJ 260007	UOJ 260007	UOJ 210056	UOJ 230004	0.6					85	59	104	45	115	33	92	17	123	32	111	39	101	22	107	36	
2	UOJ 260031	UOJ 260031	UOJ 210056	UOJ 220036	13.0					131	59	91	44	106	33	89	15	120	30	112	38	102	24	108	35	
3	UOJ 260032	UOJ 260032	UOJ 210056	UOJ 220025	13.4					114	57	98	45	104	34	89	15	118	33	111	39	105	26	108	36	
4	UOJ 260040	UOJ260040	UOJ 210056	UOJ 200008	16.7					104	59	101	41	106	34	90	16	131	35	116	38	104	26	112	36	
										★★★★★☆☆																
1	UOJ 250016	UOJ 250016	UOJ 210032	UOJ 180027	1.0					98	34	97	35	108	31	95	17	119	32	104	30	95	22	100	28	
2	UOJ 260006	UOJ 260006	UOJ 210056	UOJ 220022	13.4					101	57	99	45	104	34	92	15	124	33	109	39	101	26	106	36	
										★★★★★																
1	UOJ 250014	UOJ 250014	TDA 20-0015	UOJ 220011	0.6					89	42	96	30	106	26	103	14	108	29	97	29					
2	UOJ 250015	UOJ 250015	TDA 20-0015	UOJ 190025	0.5					92	41	91	28	108	25	104	13	108	30	93	28					
3	UOJ 250017	UOJ 250017	TDA 20-0015	UOJ 160034	1.7					106	41	92	27	94	29	112	7	104	31	94	28					
4	UOJ 250021	UOJ 250021	TDA 20-0015	UOJ 220007	0.7					85	42	94	30	112	26	102	15	107	28	94	29					
5	UOJ 250026	UOJ 250026	TDA 20-0015	UOJ 210041	0.4					104	39	93	35	102	27	100	12	110	29	98	30					
6	UOJ 250027	UOJ 250027	TDA 20-0015	UOJ 210040	1.3					94	44	92	35	106	28	107	13	108	31	95	31					
7	UOJ 260017	UOJ2617	TDA 20-0015	UOJ 200034	0.8					85	58	97	30	98	27	106	13	106	31	92	32	90	20	88	30	
8	UOJ 260019	UOJ2619	TDA 20-0015	UOJ 170039	0.2					94	57	97	27	98	24	107	10	110	31	98	30	87	20	93	28	
9	UOJ 260021	UOJ2621		UOJ 220056	0.0					142	54	78	32	104	24	101	11	101	23	95	30					
10	UOJ 260036	UOJ260036	TDA 20-0015	UOJ 190011	1.7					119	57	89	24	95	23	108	7	102	26	95	28					
11	UOJ 260039	UOJ260039	TDA 20-0015	UOJ 210007	0.4					92	57	95	30	106	30	103	12	104	30	94	32					
										★★★★★☆☆																
1	UOJ 250028	UOJ 250028		UOJ 220020	0.0					89	22	88	23	120	20	104	12	95	21	87	20					
2	UOJ 250029	UOJ 250029		UOJ 210065	0.0					88	26	90	31	118	22	103	12	92	24	87	24					
3	UOJ 260009	UOJ2609		UOJ 220029	0.0					81	52	97	32	110	23	100	11	87	24	86	30	91	20	83	28	
4	UOJ 260014	UOJ2614		UOJ 210017	0.0					78	52	95	24	115	20	104	12	92	20	86	26					
5	UOJ 260051	UOJ 260051		UOJ 210046	0.0					93	52	89	31	113	23	106	12	94	25	87	30					

Selection List on Cow Value

Heifers younger than 2 years

ID			Name	Sire ID	Dam ID	% Inbreeding	Horned / Polled	Myostatin		Genomic tested	Calving Ease Value	Calf Growth Value	Milk Value	Maint. Value	Fertility Value	Cow Value	Growth Value	Prod Value									
Sorted on ID								nt821	Q204X	F94L	Acc	Acc	Acc	Acc	Acc	Acc	Acc	Acc	Acc								
											★★★★★																
1	UOJ 260001	UOJ 260001	UOJ 210056	UOJ 150024	7.3						99	56	101	39	103	35	98	13	129	34	113	37	95	20	107	34	
2	UOJ 260002	UOJ 260002	UOJ 210056	UOJ 180013	0.0						137	57	86	35	112	32	94	11	119	25	112	33					
3	UOJ 260004	UOJ 260004	UOJ 210056	UOJ 220057	6.7						87	57	111	45	111	33	87	15	120	32	116	39	109	27	114	37	
4	UOJ 260005	UOJ 260005	UOJ 210056	UOJ 220021	13.4						120	59	96	40	103	32	90	15	119	31	110	37	104	26	107	35	
5	UOJ 260020	UOJ2620	UOJ 210056	UOJ 220047	0.2						121	56	97	44	108	32	92	14	114	31	113	38	102	25	109	35	
											★★★★☆																
1	UOJ 250002	UOJ 250002		UOJ 210055	0.0						112	32	86	24	114	21	103	12	115	24	101	23					
2	UOJ 250018	UOJ 250018	UOJ 210032	UOJ 170001	6.9						108	29	95	33	98	34	99	12	113	34	102	29					
3	UOJ 250019	UOJ 250019	UOJ 210032	UOJ 170004	6.9						105	29	96	31	98	29	99	12	116	34	102	27					
4	UOJ 250024	UOJ 250024	TDA 20-0015	UOJ 210057	0.4						87	39	102	35	105	27	100	11	106	31	100	30	94	21	97	28	
5	UOJ 260018	UOJ2618	TDA 20-0015	UOJ 210067	0.4						100	57	99	35	104	27	100	11	102	31	101	34	95	21	97	31	
6	UOJ 260025	UOJ2625	TDA 20-0015	UOJ 140024	0.8						108	58	92	29	99	33	112	9	111	33	100	33					
7	UOJ 260027	UOJ2627	TDA 20-0015	UOJ 190002	2.1						120	57	93	27	96	27	109	8	108	31	104	31					
											★★★★																
1	UOJ 250001	UOJ 250001		UOJ 190002	0.0						114	25	90	22	105	23	109	5	101	26	98	21					
2	UOJ 250009	uoj 250009		UOJ 200055	0.0						108	22	88	24	107	21	103	11	101	26	93	21					
3	UOJ 250011	uoj 250011		UOJ 210067	0.0						89	24	98	31	114	23	99	9	96	25	95	24					
4	UOJ 250020	UOJ 250020	TDA 20-0015	UOJ 220004	0.6						94	40	98	29	97	26	107	11	101	29	94	28	91	22	90	27	
5	UOJ 250022	UOJ 250022	UOJ 210032	UOJ 170066	0.0						108	27	89	28	105	30	98	11	110	25	96	25					
6	UOJ 250023	UOJ 250023	UOJ 210032	UOJ 170020	0.2						92	31	100	34	105	34	96	13	105	31	99	29	95	25	95	28	
7	UOJ 260003	UOJ 260003	TDA 20-0015	UOJ 170046	1.7						95	57	96	27	97	30	111	7	102	31	93	31					
8	UOJ 260016	UOJ2616	TDA 20-0015	UOJ 210027	0.8						99	58	86	35	104	28	113	14	107	30	90	34					
9	UOJ 260022	UOJ2622		UOJ 220033	0.0						83	31	93	25	117	21	102	12	97	23	90	23					
10	UOJ 260023	UOJ2623	TDA 20-0015	UOJ 190006	0.8						101	58	90	30	95	27	109	13	106	31	91	32	87	20	86	30	
11	UOJ 260034	UOJ 260034	TDA 20-0015	UOJ 180002	0.2						109	57	92	26	100	24	107	10	94	28	93	29	87	20	88	27	
12	UOJ 260035	UOJ 260035	TDA 20-0015	UOJ 210065	0.5						96	58	92	35	108	27	104	13	99	29	92	34					
13	UOJ 260044	UOJ 260044		UOJ 210040	0.0						91	52	88	31	115	23	107	12	101	25	90	30					

Selection List on Cow Value

Heifers younger than 2 years

IDName			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	UOJ 250007	uoj 250007		UOJ 210046	0.0						9227	8931	11323	10612	9425	8725			
2	UOJ 250008	uoj 250008		UOJ 200024	0.0						10525	8825	10323	10411	9622	8822			
3	UOJ 250012	uoj 250012		UOJ 170024	0.0						9822	9022	10822	1098	9026	8720			
4	UOJ 250025	UOJ 250025	TDA 20-0015	UOJ 190022	1.7						11038	8927	8729	1177	9829	8827			
5	UOJ 260008	UOJ 260008		UOJ 200024	0.0						10152	8925	10323	10411	9622	8827			
6	UOJ 260033	UOJ 260033		UOJ 220042	0.0						11551	8231	10822	10411	9420	8729			
7	UOJ 260047	UOJ 260047		UOJ 170020	0.0						8551	9424	11425	1058	8622	8627			
8	UOJ 260048	UOJ 260048		UOJ 230020	0.0						11253	8322	10919	10311	9119	8625			

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

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

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

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

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

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

How to use breeding values to select animals

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

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

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

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

How to improve the herd genetically

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

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

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

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

Conclusion

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

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

