

BONSMARA

GENOMIC BREEDING VALUE REPORT

September 2026



MAQELEPO INVESTMENTS

Herd Number: 8127008

E-mail: bonsmara@wonderklip-stud.co.za



EBVs, EBVi's and GEBVs

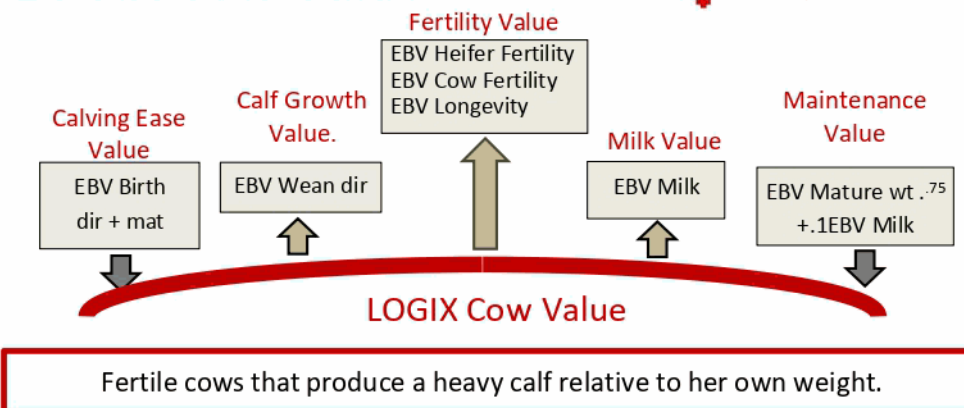
EBVi (Breeding Value Index): Genetic potential relative to the average (100) of the live (active) animals in the breed. Roughly 50% of the animals have values between 90 and 110. Values above 100, depending on the trait, tend to be in the more favourable direction.

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.

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.

LOGIX Weaner Calf Value



Select for:

- heavy weaners
- more milk and
- lower birth and
- cow weights

LOGIX Carcass Value



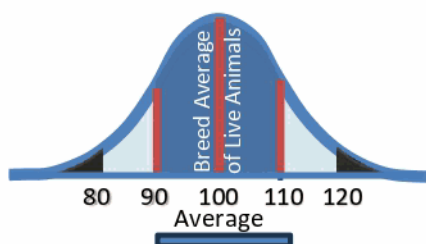
Select for more meat on the carcass as measured from end weight in Phase C and D Growth Tests and RTU scanning.

LOGIX Production Value



80% LOGIX Cow Value +
20% LOGIX Growth Value

Interpretation of EBVi and Selection Values

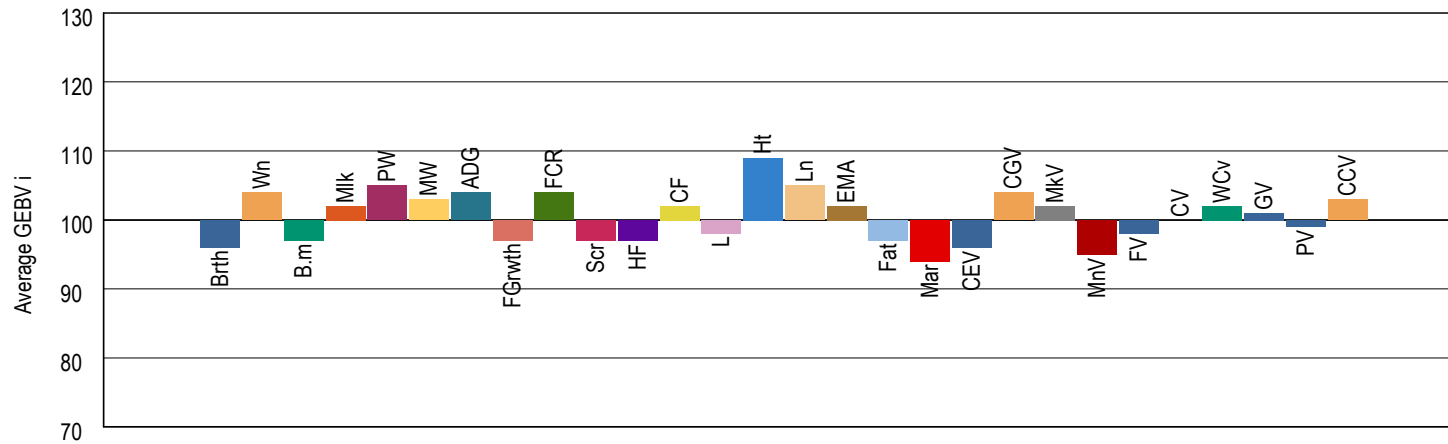


Examples

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

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

Herd and Breed Averages



Genomic Breeding Values (GEBVs):

Brth:	Birth weight	Scr:	Scrotal circumf.
Wn:	Weaning weight	HF:	Heifer Fertility
B.m:	Birth maternal	CF:	Cow Fertility
Milk:	Milk	LL:	Longevity
PW:	Post-wean weight	Ht:	Height
MW:	Mature weight	Ln:	Length
ADG:	Average Daily Gain	EMA:	Eye Muscle
FGrwth	Veldgrowth	Fat:	Fat
FCR:	Feed Conversion Ratio	Mar:	Marbling

Selection Values:

CEV:	Calving Ease Value
CGV:	Calf Growth Value
MkV:	Milk Value
MnV:	Maintenance Value
FV:	Fertility Value
CV:	Cow Value
WCV:	Weaner Calf Value
GV:	Growth Value
PV:	Production Value
CCV:	Carcass Value

	Trait	EBV Herd	EBVi Herd	EBV Breed
Prewrite Growth	Birth Weight	1.35	96	0.98
	Wean Weight	17.3	104	14.9
	Birth Mat.	-0.15	97	-0.28
	Milk (Wn.Mat.)	4.3	102	3.7
Postwean Growth	Postwean Wt	29	105	25
	Mature Weight	27	103	22
	ADG	95	104	79
	VeldGrowth	28	97	35
	FCR	-42	104	-37
Fertility	Scrotal Circumf.	11	97	13
	Heifer Fertility	-7.2	97	-9.1
	Cow Fertility	-0.83	102	-0.56
	Longevity	30.9	98	31.8
Frame	Height	4.0	109	-3.1
	Length	18.5	105	13.6
Carcass	EMA	0.859	102	0.683
	Fat	-0.492	97	0.055
	Marbling	-0.595	94	-0.056

Selection Value	Ave. Herd
Calving Ease	96
Calf Growth	104
Milk	102
Maintenance	95
Fertility	98
Cow Value	100
Weaner Calf Value	102
Growth Value	101
Production Value	99
Carcass Value	103

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

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

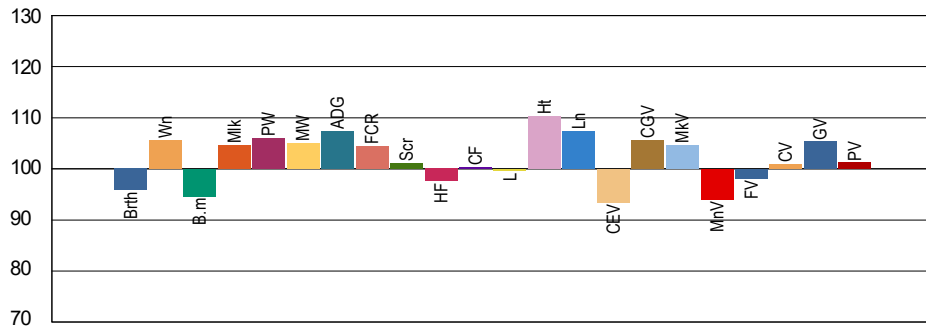
Calving ease:	Smaller calf at birth - easier calving
Calf growth:	Heavier calves at wean due to growth potential of the calf
Milk:	Cows with more milk and better mothering ability
Maintenance:	Animals with low maintenance requirements (lower mature weight).
Fertility:	Cows/daughters that calve earlier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

Genetic Windows

Bulls on the farm

Bulls born in 2023 and earlier

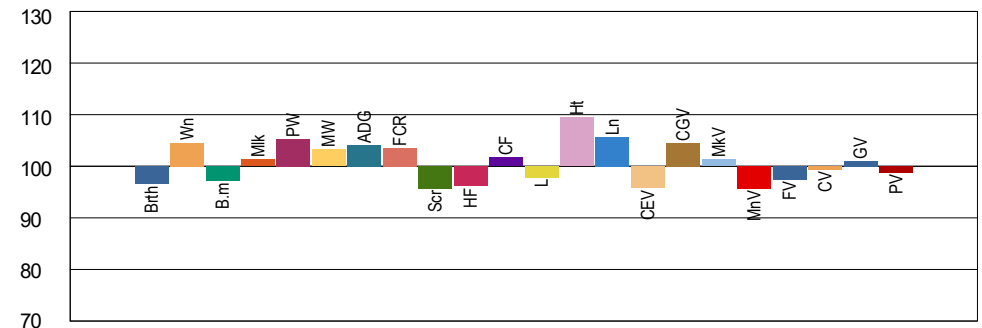
Total: 12



Cow Herd

Cows born in 2024 and earlier

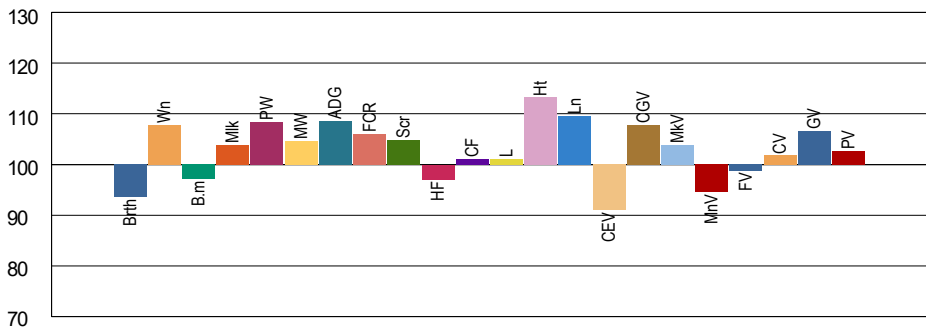
Total: 43



Sires of young animals

Sires of animals 3 years and younger

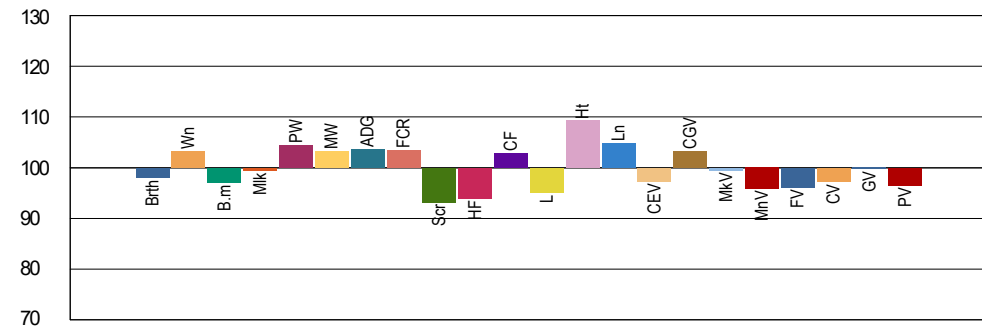
Total: 5



Cows older than 6 years

Cows born in 2020 and earlier

Total: 20



Bull calves

Bulls born in

Total:

130
120
110
100
90
80
70

Heifer calves

Heifers born in

Total:

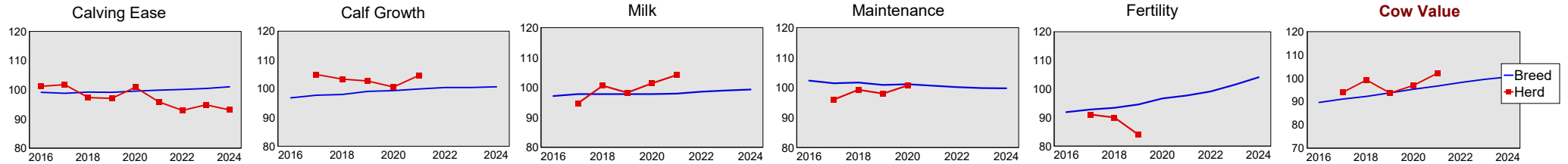
130
120
110
100
90
80
70

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	FCR	Scrotal Circumf.	Heifer Fertility	Cow Fertility	Longevity	Height	Length
			Cows in Breed Average:									100	99	100	100	100	99	100	100	100	100	100	100	101
2013	1	★★★★	93	104	101	80	98	93	114	96	96	104	89	101	113	123	123	122	92	92	108	90	112	116
2014	2	★★★	97	101	82	104	81	79	80	76	97	101	100	82	99	95	85	93	94	82	93	88	92	91
2017	4	★★★★	98	106	89	96	96	95	93	93	96	106	105	89	101	103	95	91	87	92	104	95	97	95
2018	4	★★★★☆	100	106	104	91	101	103	107	103	101	106	95	104	109	109	111	110	95	96	102	104	118	113
2019	5	★★★★	98	102	105	94	96	99	104	98	100	102	94	105	106	104	108	108	95	95	103	94	116	110
2020	6	★★★★☆	98	103	103	100	99	101	100	100	98	103	98	103	104	99	104	103	94	97	105	95	111	104
2021	5	★★★★☆	98	107	109	93	102	108	108	109	99	107	96	109	109	106	111	109	93	100	104	99	119	113
2022	3	★★★★	92	108	96	91	94	96	111	98	94	108	91	96	108	108	111	109	103	94	95	102	111	105
2023	7	★★★★☆	97	103	108	100	99	104	92	101	98	103	98	108	101	98	94	92	95	102	99	98	97	98
2024	8	★★★★	91	106	98	95	99	97	104	97	91	106	100	98	108	105	107	108	102	95	102	102	114	110
Cows in Herd Average:			96	105	100	94	97	98	101	97	97	105	97	100	106	105	105	107	95	95	102	97	109	106

Genetic Trends for On-Farm Traits

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



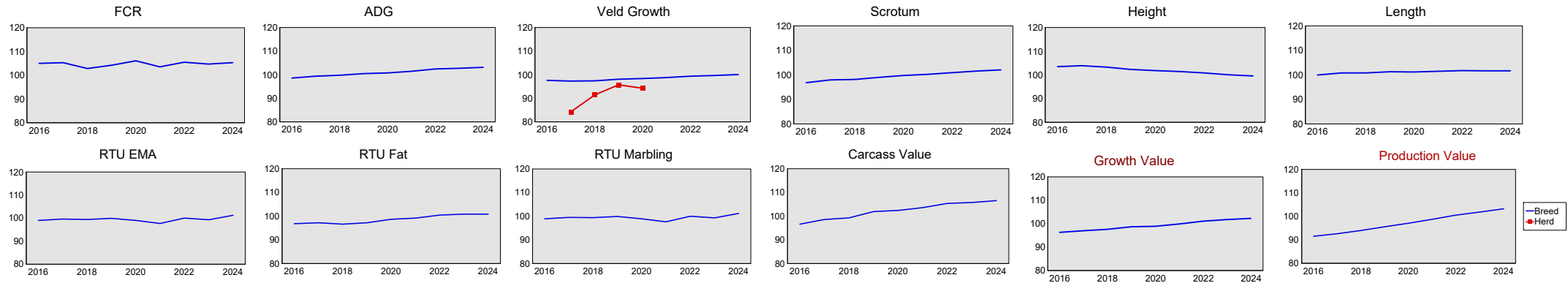
Herd

Birth Year	Calving Ease				Calf Growth			Milk			Maintenance			Fertility							Cow Value	
	Birth Weight		Mat EBV	Calv. Ease	Weaning Weight		Calf Growth	Milk (Wn.Mat.)		Postwean Weight		Mature Weight		Mainte-nance	Heifer Fert.		Cow Fert.		Longevity			Ferti-lity
	Number	Dir EBV			Number	EBV		Number	EBV	Milk	Number	EBV	Number		EBV	Number	EBV	Number	EBV	Number		
2016	17	0.95	-0.31	101																		
2017	36	0.93	-0.36	102	4	17.7	105	4	2.14	95	4	25.9		96	4	-2.7	4	-0.8	35	22.9	91	94
2018	38	1.31	-0.19	97	10	16.8	103	10	3.92	101	10	27.6		99	4	-5.8			38	26.1	90	99
2019	31	1.26	-0.24	97	11	16.4	103	11	3.14	98	10	26.7		98	4	0.3			28	26.1	84	94
2020	32	0.92	-0.32	101	5	15.2	101	5	4.09	101	4	23.4		101					26	26.0		97
2021	35	1.28	0.00	96	7	17.5	105	7	5.00	104									29	28.6		102
2022	20	1.48	0.10	93															10	29.7		
2023	19	1.34	0.00	95																		
2024	8	1.96	-0.66	93																		

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		Maintenance	Heifer Fert.		Cow Fert.		Longevity		Ferti- lity			
	Number	Dir EBV			Number	EBV		Number	EBV	Milk	Number	EBV	Number		EBV	Number	EBV	Number	EBV	Number			EBV	Number
2016	43617	1.05	-0.23	99	35930	13.3	97	35930	2.85	97	25541	22.8	6538	22	102	8135	-6.1	6285	-0.1	45540	22.9	92	90	
2017	45336	1.08	-0.23	99	37532	13.8	98	37532	3.03	98	26133	23.7	6680	22	101	8519	-6.4	6592	-0.1	46660	23.8	93	91	
2018	43028	1.06	-0.27	99	35840	13.9	98	35840	3.04	98	24987	23.8	6623	22	102	7937	-6.4	6328	-0.1	44031	24.5	93	92	
2019	43014	1.07	-0.28	99	35189	14.5	99	35189	3.04	98	24710	24.8	6812	23	101	8176	-6.8	6640	-0.1	43352	25.5	95	94	
2020	43065	1.04	-0.30	100	35848	14.6	99	35848	3.04	98	26199	24.9	7381	23	101	8576	-7.8	6880	-0.3	43333	26.4	97	95	
2021	43188	1.01	-0.32	100	35942	14.9	100	35942	3.09	98	26572	25.7	6849	23	101	8460	-7.8	5964	-0.3	40244	27.4	98	97	
2022	43262	0.99	-0.31	100	36541	15.2	100	36541	3.28	99	26872	26.2	5981	24	100	8283	-8.2	2919	-0.6	15061	27.5	99	98	
2023	44407	0.96	-0.32	100	37320	15.2	100	37320	3.39	99	26594	26.3	1929	23	100	4872	-9.2	139	-1.0			102	100	
2024	42942	0.89	-0.31	101	35829	15.3	101	35829	3.50	99	25736	26.4	7	26	100	297	-10.2					104	101	
2025	44477	0.89	-0.31	101	33314	15.6	101	33314	3.60	100	7717	28.2			98								102	
2026	15472	0.86	-0.27	101	1023	13.9	98	1023	4.09	101													99	

Genetic Trends for Growth Test and Carcass Traits



Herd

Birth Year	Growth												Frame						Carcass						Selection Values			
	FCR			ADG			Veld Growth			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	Number	EBV	EBVi	RTU Number	EBV	EBVi	EBV	EBVi	EBV	EBVi			
2017							4	-2	84																			
2018							10	15	92																			
2019							10	25	96																			
2020							4	21	94																			
2021																												
2022																												
2023																												
2024																												

Breed

Birth Year	Growth												Frame						Carcass								Selection Values		
	FCR			ADG			Veld Growth			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	Number	EBV	EBVi	EBV	EBVi	EBV	EBVi	EBV	EBVi					
2017	659	-45	105	8459	77	99	16297	29	97	9041	11.6	98	8541	0	104	8457	14	101	3129	0.61	99	-0.38	97	-0.09	100	99	97	93	
2018	628	-41	103	8227	78	100	15438	30	97	8717	11.7	98	7978	-1	103	7980	14	101	2986	0.81	101	-0.47	97	-0.11	99	99	98	94	
2019	628	-44	104	8521	81	100	14895	31	98	8900	12.2	99	8361	-1	102	8364	15	101	3151	1.17	105	-0.38	97	-0.07	100	102	99	96	
2020	636	-47	106	8817	82	101	15919	32	98	9374	12.6	100	8824	-2	102	8827	15	101	4040	0.98	103	-0.15	99	-0.14	99	102	99	97	
2021	664	-43	104	8962	85	101	16263	33	99	9619	12.9	100	9225	-2	101	9224	15	101	3802	1.05	104	-0.07	99	-0.26	98	104	100	99	
2022	728	-46	105	8922	88	102	16338	34	99	9812	13.3	101	9649	-2	101	9652	15	102	4279	1.15	105	0.13	100	-0.06	100	105	101	101	
2023	763	-44	105	8756	90	103	16158	35	100	9664	13.7	102	9747	-3	100	9738	15	102	4124	1.23	106	0.19	101	-0.11	99	106	102	102	
2024	819	-45	105	8610	91	103	15494	36	100	9152	14.0	102	9273	-3	100	9184	15	102	4523	1.21	105	0.20	101	0.04	101	107	102	103	
2025	363	-46	106	2908	102	106	4501	36	100	2815	15.1	104	3087	-2	101	3050	17	104	1816	1.24	106	0.47	103	-0.01	101	109	105	106	
2026																													

Sires

Bull			Selection Values									Birth			Wean				Grwth & Adaptation					Fertility				Raam		Carcass			Progeny																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
Index EBV Acc	Genomic	Sire ID Dam ID	Calv. Ease V	Calf Growth V	Milk Value	Maint. V	Fertility V	Cow Value	Weaner Calf V	Growth Value	Prod. Value	Carcass V	Cow wt brth	Birth wt	Cow-Calf birth	Cow wt wean	Wean wt	Wean mat	Cow-Calf wn	Post wn wt	ADG	Valid growth	FCR	Skin Thicken	Scrotum	Heifer Fert	Cow Fert.	Longevity	Height	Length	EMA	Fat	Marbling	Nr measured																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
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AG 100268 71646392		MRW 040198 AG 070460	98 94	117 95	87 87	103 85	94 70	108 81	116 92	101 60	107 77	112 40	101 24 68	97 1.32 96	100 -1.6 89	96 16 85	117 24.3 95	87 -0.2 87	108 92 89	113 36.4 90	107 105 84	92 16 35	104 -43 33	83 -0.65 83	97 10.8 91	94 -5.9 72	109 -2.1 46	85 22.6 82	103 -1 89	114 26.3 85	96 0.25 38	112 1.92 42	87 -1.19 38	110 24 24	102 63 63																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
AG 130375 78612702		PAD 070093 AG 090721	102 88	106 84	101 66	98 59	86 57	99 68	108 78	93 35	97 61	106 30	100 23 67	101 0.91 93	103 -2.0 74	100 22 59	106 18.4 84	87 4.0 66	107 90 70	105 29.3 79	96 63 45	89 9 26	94 -26 22	119 1.35 52	91 12.6 50	87 -1.7 55	95 0.3 32	90 25.5 83	110 5 49	108 21.1 45	115 2.14 29	101 0.23 32	97 -0.33 29	56 2 2	17 2 2																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
AJF 120346 75906222		AJF 070139 AJF 040172	86 97	118 97	68 92	93 91	69 74	75 84	97 95	131 60	84 79	122 80	100 23 89	91 1.94 98	86 0.3 93	108 34 91	118 24.5 97	68 -6.0 92	86 39 93	113 36.7 94	131 196 192	87 5 19	117 -65 27	126 1.76 96	119 24.1 95	76 4.9 79	68 5.1 52	105 34.6 92	98 -5 95	96 10.3 92	101 77 77	125 4.04 82	53 -4.01 77	151 66 66	146 35 142																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
AJF 130415 78346871		AG 090762 AJF 090388	78 92	115 93	39 86	105 83	82 67	63 79	81 90	93 62	65 76	94 75	89 9 69	81 2.98 94	125 -4.9 87	97 18 83	115 22.9 93	39 -15.0 86	63 -17 87	103 27.9 89	100 79 85	93 18 56	124 -77 36	92 -0.15 92	109 18.3 91	75 5.4 70	95 0.4 44	98 30.6 86	104 0 90	106 18.9 86	124 3.10 73	94 -0.83 77	96 -0.40 80	56 25 25	54 15 56																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
ARB 140055 80068158		LAR 100023 ARB 040006	108 96	99 96	138 88	93 90	109 69	124 82	115 94	82 49	116 75	95 28	111 38 89	113 -0.34 98	97 -1.2 91	104 28 90	99 14.4 96	138 15.4 88	128 142 91	95 20.4 94	87 29 71	97 29 59	89 -18 21	109 0.79 84	95 10.0 81	122 -21.4 64	94 0.6 41	105 34.6 89	80 -19 79	95 8.9 72	114 2.09 28	80 -3.16 29	73 -1.71 28	176 7 7	137 37 78																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
CEF 120399 75215145		WAT 080080 CEF 040019	78 92	113 92	111 83	86 80	85 62	94 77	106 89	124 64	100 74	115 82	111 38 80	86 2.41 94	80 1.1 85	115 44 80	113 21.9 92	111 7.1 83	112 103 85	117 40.5 84	131 197 81	107 53 28	119 -69 42	106 0.68 90	124 27.4 88	88 -2.3 62	89 1.4 39	95 28.7 86	138 27 87	125 35.6 82	99 0.57 79	84 -2.46 85	76 -2.11 80	48 15 15	44 12 44																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
CEF 140515 81101206		CEF 120399 CEF 110046	96 87	107 82	121 61	90 57	108 51	116 65	112 76	123 50	119 62	118 66	104 29 57	100 1.03 93	94 -0.8 72	108	107	121	119	115	127	107	124	97	96	103	110	103	134	124	102	98	91	53	13																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
DAJ 140162 80216294		GCD 090112 DAJ 040069	87 95	100 96	90 91	105 91	100 73	88 83	90 94	99 68	88 80	98 73	96 17 89	87 2.38 97	89 -0.1 92	94 13 91	100 14.9 96	90 0.8 91	95 61 93	101 25.9 92	94 56 87	91 7 21	79 -2 46	70 -1.35 93	84 3.1 92	80 2.6 77	123 -4.6 49	86 23.4 92	85 -15 91	85 0.6 87	85 0.94 70	88 -1.90 76	93 -0.63 70	151 33 33	133 35 110																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
LAR 170043 85844025		AJF 120346 LAR 140201	84 82	116 70	92 58	86 58	90 50	93 60	103 68	135 45	101 57	123 46	112 40 50	90 2.03 88	89 -0.1 68	116 45 58	116 23.3 70	92 1.1 58	99 71 62	117 39.7 65	132 199 63	101 39 16	122 -73 22	102 0.42 76	113 20.4 73	89 -2.6 49	93 0.7 31	102 33.1 70	122 14 71	114 25.8 64	104 1.10 45	116 2.60 47	80 -1.72 45	25																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
LAR 170231 85912665		ARB 140055 LAR 140291	93 82	104 69	132 56	92 57	109 47	118 59	113 67	98 42	115 56	105 26	109 36 51	98 1.19 89	88 0.0 67	106 30 57	104 16.9 69	132 13.7 56	127 139 61	104 28.3 65	99 74 58	93 18 32	95 -29 20	124 1.63 75	105 15.6 71	116 -18.1 48	98 -0.2 26	107 36.0 68	86 -14 68	97 10.7 60	110 1.72 25	91 -1.36 26	95 -0.48 25	27																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
LAR 170271 86116324		AJF 130415 LAR 130085	80 92	106 95	73 80	107 83	101 60	83 77	88 90	84 72	81 76	99 90	84 2 79	79 3.16 96	112 -3.1 86	93 11 83	106 18.1 95	73 -4.6 80	85 38 86	101 25.8 88	89 38 87	96 5 83	95 -29 53	100 0.30 95	110 19.0 93	90 -3.2 70	109 -2.1 33	103 33.8 78	114 8 93	105 17.7 89	117 2.34 88	96 -0.64 92	111 0.89 88	119 44 44	103 18 23																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
LDW 130199 78489747		LDW 080186 LDW 060207	101 84	114 76	89 59	95 55	96 50	105 62	110 72	83 41	100 58	95 40	98 21 61	98 1.15 89	108 -2.7 69	105 30 55	114 22.6 76	89 0.2 59	101 75 63	103 27.4 67	88 34 61	76 -23 12	84 -10 15	96 0.11 54	81 1.2 72	84 0.2 47	112 -2.7 26	92 26.8 78	96 -6 70	94 7.9 62	90 -0.28 38	97 -0.36 42	92 -0.76 38	27	5																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
NFS 090120 69473080		NFS 050252 NFS 060301	88 80	109 80	101 68	80 66	101 53	97 66	101 76	110 72	99 67	101 68	126 58 65	92 1.80 83	96 -1.0 72	124 57 66	109 19.9 80	101 4.1 68	98 68 71	118 41.4 72	129 187 66	122 95 19	132 -90 71	91 -0.15 80	103 14.6 77	106 -12.4 55	102 -0.9 32	88 24.9 72	125 17 75	127 37.4 67	91 -0.18 65	81 -2.97 72	89 -0.96 66	8	7																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
PAD 070093 66091810		CSW 030109 AG 050042	112 97	91 97	100 95	123 94	69 91	86 88	99 96	84 89	83 88	90 88	82 0 94	109 0.00 94	104 -2.1 95	81 -6 94	91 9.9 97	100 3.6 95	102 77 95	87 13.0 96	95 60 90	90 12 87	93 -25 87	117 1.25 92	108 17.5 92	84 0.1 91	78 3.3 88	79 19.0 95	107 2 91	102 15.1 90	109 1.63 87	92 -1.20 88	84 -1.37 87	123 10	117 36																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												

Sires

[illegible]

Growth Tests

Animal					Weight		Conformation				Growth & Efficiency					Carcass			
Test Code	Sex	Test number	Sire ID	Cow	Wean	End-	Length	Height	Length/	Scrotum	Intake	ADG	FCR	Veld	Growth	EMA	Fat	Marbling	Carcass
Test Station		ID	Dam ID	Value	dir	wt			Height					Growth	Value	Eye muscle Area			Value
201504 D11 M SCHEEPERS				0357748BON															
		CEF 140515	CEF 120399	116	107	119	124	134	80	96	85	127	124	107	123	102	98	91	118
		81101206	CEF 110046	65	82	43	35	24	1.10	10.2	0.69	181	-76	54	50	0.90	-0.27	-0.82	66
							64	71	68	73	32	63	32	23		62	69	62	
201801 D11 M UP GEORGE FARMS CC				0512088BON															
		LAR 170043	AJF 120346	93	116	122	114	122	84	113	75	132	122	101	135	104	116	80	123
		85844025	LAR 140201	60	70	46	26	14	1.11	20.4	0.87	199	-73	39	45	1.10	2.60	-1.72	46
						68	64	71	68	73	22	63	22	16		45	47	45	
201802 D11 M UP GEORGE FARMS CC				0512088BON															
		LAR 170231	ARB 140055	118	104	102	97	86	120	105	98	99	95	93	98	110	91	95	105
		85912665	LAR 140291	59	69	28	11	-14	1.21	15.6	0.46	74	-29	18	42	1.72	-1.36	-0.48	26
						65	60	68	64	71	20	58	20	32		25	26	25	
		LAR 170271	AJF 130415	83	106	99	105	114	84	110	116	89	95	96	84	117	96	111	99
		86116324	LAR 130085	77	95	25	18	8	1.11	19.0	0.14	38	-29	25	72	2.34	-0.64	0.89	90
						90	89	93	91	93	53	87	53	83		88	92	88	

Breeding Values and Accuracies: Bulls

Inbreeding in red is high

Value <80 Value >120

Breeding values with an accuracy < 5% are not printed

Animal				Selection Value											Birth			Wean				Growth & Adaptation					Fertility				Frame		Carcass				
ID	Animal no	% Inbreeding	Genomic Parentage	Index EBV Acc	Sire ID	Dam ID	Calv. Ease V	Calf Growth V	Milk Value	Maint. V	Fertility V	Cow Value	Wean Calf V	Growth Value	Prod. Value	Carcass V	Cow wt -brth	Birth wt	Cow-Calf birth	Cow wt -wean	Wean wt	Wean mat	Cow-Calf wn	Post wn wt	ADG	Veld growth	FCR	Skin Thicken	Scrotum	Heifer Fert	Cow Fert.	Longevity	Height	Length	EMA	Fat	Marbling
AG 130375	78612702	1	PAD 070093		AG 090721		102	106	101	98	86	99	108	93	97	106	100	101	103	100	106	101	107	105	96	89	94	119	100	87	95	90	110	108	115	101	97
							88	84	66	59	57	68	78	35	61	30	23	0.91	-2.0	22	18.4	4.0	90	29.3	63	9	-26	1.4	12.6	-1.7	0.3	25.5	5	21	2.14	0.23	-0.33
																	67	93	74	59	84	66	70	79	45	26	22	52	50	55	32	83	49	45	29	32	29
CEF 140515	81101206	1	CEF 120399		CEF 110046		96	107	121	90	108	116	112	123	119	118	104	100	94	108	107	121	119	115	127	107	124	97	96	103	110	103	134	124	102	98	91
							87	82	61	57	51	65	76	50	62	66	29	1.03	-0.8	34	18.9	10.0	119	38.5	181	54	-76	0.1	10.2	-10.8	-2.3	33.6	24	35	0.90	-0.27	-0.82
																	57	93	72	57	82	61	67	69	63	23	32	72	73	45	28	79	71	64	62	69	62
LAR 170043	85844025	2	AJF 120346		LAR 140201		84	116	92	86	90	93	103	135	101	123	112	90	89	116	116	92	99	117	132	101	122	102	113	89	93	102	122	114	104	116	80
							82	70	58	58	50	60	68	45	57	46	40	2.03	-0.1	45	23.3	1.1	71	39.7	199	39	-73	0.4	20.4	-2.6	0.7	33.1	14	26	1.10	2.60	-1.72
																	50	88	68	58	70	58	62	65	63	16	22	76	73	49	31	70	71	64	45	47	45
LAR 170231	85912665	3	ARB 140055		LAR 140291		93	104	132	92	109	118	113	98	115	105	109	98	88	106	104	132	127	104	99	93	95	124	105	116	98	107	86	97	110	91	95
							82	69	56	57	47	59	67	42	56	26	36	1.19	0.0	30	16.9	13.7	139	28.3	74	18	-29	1.6	15.6	-18.1	-0.2	36.0	-14	11	1.72	-1.36	-0.48
																	51	89	67	57	69	56	61	65	58	32	20	75	71	48	26	68	68	60	25	26	25
LAR 170271	86116324	2	AJF 130415		LAR 130085		80	106	73	107	101	83	88	84	81	99	84	79	112	93	106	73	85	101	89	96	95	100	110	90	109	103	114	105	117	96	111
							92	95	80	83	60	77	90	72	76	90	2	3.16	-3.1	11	18.1	-4.6	38	25.8	38	25	-29	0.3	19.0	-3.2	-2.1	33.8	8	18	2.34	-0.64	0.89
																	79	96	86	83	95	80	86	88	87	83	53	95	93	70	33	78	93	89	88	92	88
MIG 210016	91883983	2	AG 130375		AG 100321		93	109	102	96	84	97	108	96	95	107	105	93	98	103	109	102	109	109	99	99	94	114	102	90	84	104	106	107	103	103	93
							70	68	52	48	41	54	63	27	49	26	30	1.72	-1.2	26	19.9	4.4	95	32.8	75	33	-27	1.1	13.7	-3.3	2.3	34.1	1	20	1.03	0.52	-0.67
																	51	74	58	48	68	52	56	54	35	23	18	38	38	40	26	56	37	35	26	27	26
MIG 230006	95719191	1	CEF 140515		SYF 140289		93	104	98	98	93	94	99	100	94	98	96	95	92	101	104	98	101	105	103	104	107	101	93	88	105	93	108	101	96	106	90
							68	55	44	41	37	46	53	34	44	42	18	1.48	-0.5	24	17.2	2.9	76	29.6	89	45	-49	0.4	8.4	-2.1	-1.4	27.7	3	14	0.25	1.05	-0.88
																	42	73	55	41	55	44	47	50	42	16	22	49	47	35	23	52	46	43	40	40	40
MIG 230007	95719209	3	LAR 170043		LMR 110001		90	111	86	94	87	89	99	115	93	106	105	93	91	105	111	86	95	108	114	97	107	96	102	90	94	92	108	102	106	99	84
							67	51	45	45	36	45	52	32	42	31	31	1.71	-0.4	30	20.6	-0.7	61	32.5	132	28	-48	0.1	13.9	-3.4	0.5	26.8	3	16	1.29	-0.18	-1.41
																	40	72	55	45	51	45	47	47	41	15	21	48	46	36	23	49	45	41	30	32	30
MIG 230010	95719233	15	CEF 140515		CEF 150084		99	102	109	93	105	106	102	118	109	108	100	103	95	106	102	109	107	109	122	106	118	96	100	104	108	98	126	117	99	91	89
							68	53	41	39	33	44	51	31	41	40	24	0.71	-0.9	30	16.1	6.6	90	32.6	163	51	-67	0.1	12.6	-11.2	-2.0	30.6	18	28	0.54	-1.35	-1.01
																	39	73	53	39	53	41	44	49	39	15	20	46	45	30	19	50	43	40	38	42	39
MIG 230023	95719282	1	LAR 170231		MIG 180039		93	106	120	89	104	110	108	109	110	111	110	98	91	110	106	120	116	108	111	94	109	113	103	105	98	108	108	110	109	95	95
							65	48	36	35	30	41	47	26	38	23	37	1.18	-0.3	37	18.0	9.7	111	32.5	122	21	-52	1.0	14.6	-11.7	-0.2	36.7	4	23	1.55	-0.69	-0.52
																	34	71	49	35	48	36	40	42	35	18	14	44	42	28	17	44	41	36	22	24	22
MIG 230024	95719290	2	AG 130375		ADV 130049		94	110	100	88	102	103	105	99	102	102	110	92	105	112	110	100	102	107	102	86	97	97	89	98	110	91	106	105	108	91	97
							69	56	50	43	39	48	55	27	44	28	36	1.81	-2.3	40	20.1	3.7	79	31.3	89	3	-32	0.1	6.4	-7.9	-2.4	26.6	2	18	1.46	-1.36	-0.29
																	51	73	56	43	56	50	50	54	36	17	16	41	40	39	25	54	39	36	27	29	27
MIG 230032	96127931		LAR 170231		MIG 180034		105	87	122	97	109	102	91	94	99	99	102	108	98	100	87	122	106	83	95	95	91	112	101	112	99	105	95	98	101	93	98
							60	35	28	29	25	33	37	21	31	13	26	0.16	-1.3	22	7.7	10.5	88	10.1	62	23	-21	1.0	13.5	-15.9	-0.3	34.6	-7	12	0.80	-1.09	-0.27
																	26	66	43	29	35	28	31	33	29	16	10	38	35	24	14	38	34	30	13	13	13

Breeding Values and Accuracies: Bulls

Inbreeding in red is high

Value <80

Value >120

Breeding values with an accuracy < 5% are not printed

Animal				Selection Value										Birth			Wean				Growth & Adaptation					Fertility				Frame		Carcass		
ID Animal no	% Inbreeding	Genomic Parentage	Index EBV Acc	Calv. Ease V	Calf Growth V	Milk Value	Maint. V	Fertility V	Cow Value	Wean Calf V	Growth Value	Prod. Value	Carcass V	Cow wt -brth	Birth wt	Cow-Calf birth	Cow wt -wean	Wean wt	Wean mat	Cow-Calf wn	Post wn wt	ADG	Veld growth	FCR	Skin Thckn	Scrotum	Heifer Fert	Cow Fert.	Longevity	Height	Length	EMA	Fat	Marbling
			Sire ID Dam ID																															
MIG 240016 98114630	3	LAR 170271 SYF 140289		94 70	101 60	73 51	106 51	90 40	80 51	88 59	80 42	77 49	88 52	86 5	90 2.07	103 -2.0	94 12	101 15.7	73 -4.5	81 28	96 21.8	84 18	98 31	92 -23	102 0.4	100 12.8	81 1.6	104 -1.3	93 27.8	97 -5	91 5	103 0.97	105 0.86	100 -0.03
MIG 240017 98106511	2	LAR 170231 MIG 170006		95 65	105 44	111 37	93 36	104 31	108 40	107 45	89 26	103 37	95 19	107 33	95 1.45	98 -1.4	105 30	105 17.8	111 7.2	112 101	101 25.9	91 46	90 11	90 -20	107 0.7	91 7.6	107 -13.3	100 -0.5	103 33.7	89 -12	93 8	98 0.48	90 -1.47	90 -0.87
MIG 240022 98106529		LAR 170231 MIG 180034		102 59	88 35	123 28	97 29	109 25	102 33	93 37	94 21	100 31	99 13	102 26	104 0.55	96 -1.0	100 22	88 8.7	123 10.6	108 93	85 11.3	95 62	95 23	91 -21	112 1.0	101 13.5	112 -15.9	99 -0.3	105 34.6	95 -7	98 12	101 0.80	93 -1.09	98 -0.27
MIG 240024 98114648	2	LAR 170271 MIG 180024		95 67	105 58	91 47	96 46	109 36	101 48	98 56	98 40	100 46	102 49	97 19	91 1.93	108 -2.6	104 46	105 58	91 0.9	95 62	105 29.3	103 90	96 27	104 -43	92 -0.1	98 11.7	98 -8.2	113 -3.0	105 34.6	115 9	108 20	108 1.47	93 -1.12	103 0.17

Breeding Values and Accuracies: Cows & Heifers

Value <80 Value >120

Breeding values with an accuracy < 5% are not printed

Animal				Selection Values										Birth			Wean				Growth & Adaptability					Fertility				Frame		Carcass			
ID Animal no	% Inbreeding	Genomic Parentage	Index EBV Acc	Calv. Ease V	Calf Growth V	Milk Value	Maint. V	Fertility V	Cow Value	Wean Calf V	Growth Value	Prod. Value	Carcass V	Cow wt -birth	Birth wt	Cow-Calf birth	Cow wt -wean	Wean dir	Wean mat	Cow-Calf wn	Post wn wt	ADG	Veld growth	FCR	Skin Thckn	Scrotum	Heifer Fert	Cow Fert.	Longevity	Height	Length	EMA	Fat	Marbling	
			Sire ID Dam ID																																
NFS 130055 77366029	1	NFS 090120 NFS 050062		93 79	104 71	101 66	80 51	98 44	93 59	97 69	114 49	96 57	105 46	127 60 69	96 1.40 80	101 -1.7 68	123 56 51	104 17.3 71	101 4.1 66	94 59 63	113 36.2 60	123 167 46	110 61 19	122 -72 49	87 -0.4 54	92 7.8 52	92 -4.7 39	108 -1.9 28	90 25.6 64	112 6 51	116 28 47	92 -0.08 44	89 -1.72 48	103 0.23 44	
GZV 140042 80369788	2	AG 100268 GZV 100283		100 77	101 71	89 64	102 56	82 47	86 59	95 69	84 38	83 55	91 25	99 22 64	100 1.01 79	100 -1.6 69	96 17 56	101 15.5 71	89 0.5 64	94 58 64	103 27.4 63	90 40 50	102 41 20	98 -33 24	96 0.1 49	98 11.3 55	91 -4.1 43	86 1.9 31	93 27.6 66	102 -1 54	104 17 50	90 -0.37 24	99 -0.03 26	96 -0.39 24	
SYF 140289 80639404	3	SYF 120036 ADV 050121		93 80	100 73	74 64	105 60	79 52	72 62	85 71	76 44	69 58	78 52	88 8 62	93 1.68 81	91 -0.4 72	94 13 60	100 15.0 73	74 -4.2 64	80 26 66	94 19.9 72	79 -2 56	100 37 22	88 -17 29	105 0.6 61	90 6.6 60	73 6.5 53	100 -0.5 35	83 21.9 68	81 -18 59	77 -7 56	89 -0.41 50	115 2.36 54	90 -0.94 50	
MIG 170006 85109783	1	LDW 130199 LMR 100157		93 75	109 53	91 48	95 44	99 39	98 48	102 55	79 30	92 44	85 28	104 29 46	89 2.13 77	107 -2.5 62	105 29 44	109 19.7 53	91 0.9 48	98 68 48	100 24.7 46	84 17 39	86 3 18	85 -11 17	90 -0.3 40	78 -0.4 46	99 -8.5 35	101 -0.8 22	99 31.4 60	92 -9 45	90 5 40	86 -0.76 27	90 -1.57 30	86 -1.25 27	
MIG 170021 87205530	1	DAJ 140162 CEF 150022		101 72	99 60	91 56	95 53	100 44	92 53	91 60	111 39	95 50	103 44	102 27 56	102 0.77 75	101 -1.7 63	104 28 53	99 14.4 60	91 1.0 56	90 48 56	102 27.1 58	110 115 50	112 66 14	101 -38 26	88 -0.4 54	96 10.3 53	89 -3.0 43	109 -2.1 28	100 31.8 60	104 0 53	104 17 50	99 0.59 42	87 -1.98 46	92 -0.77 43	
MIG 170031 85801629	1	LDW 130199 LMR 110001		99 68	110 53	84 45	99 44	90 36	95 46	103 53	89 31	92 43	92 29	98 21 44	98 1.23 73	102 -1.8 56	100 22 44	110 20.1 53	84 -1.1 45	95 62 47	101 26.3 48	92 49 40	84 -3 17	87 -15 19	93 -0.1 39	86 4.3 46	88 -2.0 35	103 -1.2 21	87 23.7 51	96 -7 44	92 7 40	99 0.59 28	89 -1.66 30	90 -0.93 28	
MIG 180015 87376885	2	AG 130375 GZV 140042		100 72	103 55	96 46	100 41	87 39	94 48	101 55	88 26	91 44	98 20	100 23 46	100 0.94 76	100 -1.5 59	98 19 41	103 16.8 55	96 2.4 46	100 75 47	104 28.4 50	93 52 33	96 25 16	96 -30 16	107 0.7 35	99 11.9 37	89 -2.9 35	91 1.1 22	99 31.2 59	106 2 37	106 19 34	102 0.89 19	100 0.10 20	96 -0.36 19	
MIG 180024 87465779	1	CEF 140515 ADV 130049		102 71	105 67	109 49	86 42	117 39	114 52	104 61	113 32	114 48	105 40	110 36 48	103 0.69 75	105 -2.2 58	114 43 42	105 17.5 67	109 6.4 49	104 83 53	109 32.7 58	116 141 42	97 29 16	112 -56 20	85 -0.5 50	86 4.4 48	107 -13.1 36	118 -3.8 24	106 35.4 58	116 9 47	110 23 43	99 0.60 38	89 -1.61 42	94 -0.56 38	
MIG 180034 94161619				109 40										108 0.09 39															102 33.2 33						
MIG 180039 87659645	3	CEF 140515 LDW 140086		87 74	111 66	108 44	86 39	98 36	102 51	105 60	120 32	105 47	117 38	111 38 44	92 1.81 77	90 -0.2 59	114 43 39	111 20.6 66	108 6.0 44	108 92 50	115 38.7 54	124 169 39	95 25 15	122 -73 21	102 0.4 47	101 13.6 45	93 -5.3 31	98 -0.2 21	109 37.5 57	131 21 44	123 34 40	107 1.39 36	100 -0.02 39	94 -0.55 36	
MIG 190011 88564968	1	CEF 140515 NFS 130055		89 68	106 66	112 46	84 38	104 35	103 50	103 59	117 36	105 47	112 40	116 45 45	92 1.79 73	95 -0.9 53	117 46 38	106 18.4 66	112 7.3 46	106 89 50	113 36.3 57	124 170 39	94 22 15	120 -70 29	92 -0.1 47	92 8.2 45	98 -7.7 30	109 -2.1 20	99 31.0 55	122 14 44	119 30 40	97 0.42 38	93 -0.99 42	97 -0.30 38	
MIG 190016 90601345	1	AG 130375 MIG 160013		112 64	102 60	99 41	99 32	91 33	102 45	104 54	90 22	98 40	99 19	101 24 45	110 -0.02 70	112 -3.1 48	99 21 32	102 15.9 60	99 3.3 41	101 76 44	100 25.4 53	94 58 25	92 17 14	92 -23 16	110 0.9 29	101 13.2 28	91 -4.1 30	106 -1.5 18	81 20.3 50	108 3 28	105 18 26	101 0.78 18	98 -0.30 20	97 -0.34 19	

Breeding Values and Accuracies: Cows & Heifers

Value <80 Value >120

Breeding values with an accuracy < 5% are not printed

Animal				Selection Values										Birth			Wean				Growth & Adaptability					Fertility				Frame		Carcass		
ID Animal no	% Inbreeding	Genomic Parentage	Index EBV Acc	Calv. Ease V	Calf Growth V	Milk Value	Maint. V	Fertility V	Cow Value	Wean Calf V	Growth Value	Prod. Value	Carcass V	Cow wt -birth	Birth wt	Cow-Calf birth	Cow wt -wean	Wean dir	Wean mat	Cow-Calf wn	Post wn wt	ADG	Veld growth	FCR	Skin Thckn	Scrotum	Heifer Fert	Cow Fert.	Longevity	Height	Length	EMA	Fat	Marbling
			Sire ID Dam ID																															
MIG 190018 88565015	1	AG 130375 MIG 160004		108 65	96 62	96 44	101 37	96 35	95 47	94 56	94 28	93 43	101 22	97 20	106 0.33	106 -2.4	98 18	96 12.9	96 2.4	94 59	100 24.6	98 70	77 -21	103 -42	115 1.1	101 13.1	100 -9.0	103 -1.1	89 25.0	116 10	108 21	100 0.64	102 0.32	96 -0.40
														46 70	51 51		37 62	44 44	48 48		56 30		19 23	35 35		34 34	32 32	20 20	53 53	34 34	31 31	22 22	23 23	22 22
MIG 190030 90601758	1	CEF 140515 MIG 160019		97 66	101 63	107 45	96 40	97 35	99 48	100 57	109 32	100 45	101 40	97 20	100 0.97	94 -0.8	102 25	101 15.4	107 5.8	105 86	104 28.5	111 120	109 57	108 -50	100 0.3	79 0.3	97 -7.4	105 -1.5	92 26.9	114 8	107 20	103 0.95	87 -1.99	88 -1.09
														44 71	52 52		40 63	45 45	49 49		53 41		18 18	21 21	47 47	46 46	33 33	21 21	52 52	45 45	41 41	38 38	41 41	38 38
MIG 190031 89325617	1	CEF 140515 LDW 140068		85 69	104 66	112 46	92 39	92 35	94 50	100 60	109 31	96 46	104 36	104 28	92 1.85	82 0.9	106 31	104 16.9	112 7.3	110 96	111 35.0	113 129	102 40	116 -63	98 0.2	103 14.7	90 -3.5	92 0.8	107 35.8	119 12	110 23	98 0.43	100 0.05	96 -0.36
														45 74	55 55		39 66	46 46	50 50		54 39		14 14	20 20	47 47	45 45	30 30	20 20	56 56	44 44	39 39	34 34	38 38	34 34
MIG 200007 90601501	1	AG 130375 MIG 170015		105 65	96 60	93 41	105 33	93 32	91 45	92 54	80 20	87 40	88 20	93 13	105 0.47	100 -1.5	93 12	96 12.6	93 1.5	93 56	92 17.4	84 17	94 21	84 -11	108 0.8	92 7.8	91 -4.1	107 -1.8	85 22.9	95 -7	91 5	96 0.24	101 0.18	96 -0.41
														44 71	49 49		33 60	41 41	45 45		52 26		14 14	13 13	30 30	29 29	30 30	18 18	49 49	29 29	27 27	19 19	21 21	19 19
MIG 200009 90601246	1	CEF 140515 MIG 170039		102 65	100 60	109 40	103 32	107 31	109 45	104 54	100 26	107 41	100 34	94 16	101 0.83	99 -1.5	95 15	100 14.8	109 6.4	110 98	99 23.7	106 101	100 35	103 -42	98 0.2	93 8.7	105 -11.8	111 -2.4	95 29.0	116 9	107 20	98 0.49	91 -1.39	91 -0.78
														42 71	49 49		32 60	40 40	44 44		48 33		13 13	17 17	40 40	39 39	26 26	17 17	49 49	38 38	34 34	32 32	35 35	32 32
MIG 200029 91386052	1	CEF 140515 MIG 170034		93 65	108 48	106 37	94 35	104 32	106 41	107 47	104 30	106 39	104 36	102 26	93 1.72	98 -1.3	105 30	108 19.1	106 5.6	109 96	109 32.6	108 108	95 25	111 -54	102 0.4	90 7.0	99 -8.7	109 -2.2	98 30.7	117 10	109 22	94 0.04	102 0.45	88 -1.09
														42 71	49 49		35 48	37 37	40 40		42 37		13 13	21 21	43 43	43 43	27 27	17 17	51 51	42 42	38 38	34 34	38 38	34 34
MIG 200034 93834570	1	CEF 140515 AG 110731		91 69	112 56	108 48	87 48	92 39	102 49	109 56	116 36	105 46	111 40	112 39	92 1.79	99 -1.5	114 42	112 21.2	108 6.0	109 96	116 38.9	116 142	105 47	115 -61	104 0.5	99 12.1	88 -2.4	100 -0.6	96 29.6	124 16	117 28	106 1.28	90 -1.48	105 0.38
														48 74	58 58		48 56	48 48	51 51		50 41		26 26	28 28	48 48	47 47	37 37	25 25	54 54	45 45	42 42	39 39	42 42	39 39
MIG 200035 93834422	1	CEF 140515 MIG 160015		93 67	100 51	99 42	104 38	87 35	90 44	97 50	99 32	90 42	98 40	91 11	95 1.50	89 -0.1	94 13	100 15.1	99 3.4	103 80	100 24.7	103 90	94 20	103 -41	98 0.2	85 3.6	89 -2.9	93 0.7	93 27.8	108 3	99 13	99 0.55	99 -0.11	102 0.12
														37 72	52 52		38 51	42 42	44 44		46 40		17 17	22 22	47 47	46 46	32 32	21 21	51 51	44 44	41 41	39 39	42 42	39 39
MIG 200037 93832244	1	CEF 140515 MIG 170002		102 65	99 51	104 42	104 40	110 36	108 44	101 50	102 32	106 42	100 42	93 15	102 0.74	97 -1.2	94 13	99 14.5	104 5.0	106 89	105 29.2	105 98	104 46	104 -43	106 0.6	102 13.9	110 -14.6	110 -2.3	100 32.1	106 2	103 16	95 0.18	91 -1.44	82 -1.57
														41 70	52 52		40 51	42 42	44 44		46 42		16 16	20 20	48 48	46 46	33 33	22 22	52 52	45 45	42 42	40 40	43 43	40 40
MIG 210003 91732750	1	CEF 140515 MIG 180005		101 65	107 64	109 42	98 36	104 34	113 47	111 57	106 28	112 43	108 36	100 23	102 0.76	98 -1.2	100 22	107 18.6	109 6.4	114 107	109 33.0	110 118	95 24	107 -48	100 0.3	94 9.1	102 -10.3	103 -1.1	104 34.4	119 12	115 27	105 1.16	95 -0.81	90 -0.91
														43 71	50 50		36 64	42 42	47 47		46 36		15 15	17 17	43 43	41 41	32 32	19 19	51 51	40 40	37 37	34 34	38 38	34 34
MIG 210004 91732768	2	CEF 140515 MIG 180001		91 65	107 53	110 40	94 37	100 34	104 44	107 51	103 28	104 41	105 35	104 29	92 1.83	95 -0.9	105 29	107 18.7	110 6.7	112 102	108 32.4	107 107	100 36	108 -49	99 0.3	92 7.8	102 -10.5	102 -0.8	97 29.8	117 10	111 23	100 0.70	95 -0.77	90 -0.93
														37 71	50 50		37 53	40 40	43 43		45 36		15 15	18 18	43 43	41 41	32 32	19 19	50 50	40 40	36 36	33 33	37 37	33 33
MIG 210006 94160975	1	CEF 140515 MIG 160006		94 67	108 52	107 45	92 40	108 36	109 45	107 52	111 36	110 43	107 42	103 27	95 1.51	99 -1.4	107 32	108 19.0	107 5.8	109 94	110 34.2	114 130	101 38	108 -49	90 -0.2	86 4.2	109 -14.0	107 -1.8	100 31.8	115 9	110 22	105 1.23	88 -1.76	86 -1.21
														45 72	53 53		40 52	45 45	46 46		46 42		17 17	28 28	48 48	47 47	34 34	22 22	51 51	46 46	42 42	40 40	43 43	40 40

Breeding Values and Accuracies: Cows & Heifers

Value <80 Value >120

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Animal				Selection Values										Birth			Wean				Growth & Adaptability					Fertility				Frame		Carcass		
ID Animal no	% Inbreeding	Genomic Parentage	Index EBV Acc	Calv. Ease V	Calf Growth V	Milk Value	Maint. V	Fertility V	Cow Value	Wean Calf V	Growth Value	Prod. Value	Carcass V	Cow wt -birth	Birth wt	Cow-Calf birth	Cow wt -wean	Wean dir	Wean mat	Cow-Calf wn	Post wn wt	ADG	Veld growth	FCR	Skin Thckn	Scrotum	Heifer Fert	Cow Fert.	Longevity	Height	Length	EMA	Fat	Marbling
			Sire ID Dam ID																															
MIG 210009 94160983	1	CEF 140515 MIG 160001		98 67	106 51	109 43	89 40	97 35	104 44	106 51	112 34	106 42	112 42	110 37	99 1.10	103 -2.0	111 38	106 18.2	109 6.5	107 90	111 34.5	115 136	102 40	113 -58	106 0.7	99 12.2	92 -4.3	107 -1.7	96 29.6	124 16	117 28	108 1.47	94 -0.86	98 -0.23
MIG 210010 91881904	1	CEF 140515 MIG 180003		105 65	106 64	112 43	93 37	99 34	112 48	112 57	106 29	111 44	106 36	103 28	106 0.37	103 -1.9	105 30	106 18.4	112 7.5	113 105	109 32.7	109 113	96 26	108 -50	106 0.6	95 9.9	95 -6.0	103 -1.1	100 32.1	118 11	111 24	102 0.86	97 -0.36	94 -0.57
MIG 220005 93272573	2	LAR 170043 MIG 180028		92 64	111 48	96 37	95 35	89 32	97 41	106 47	114 26	100 38	111 26	103 27	94 1.56	91 -0.4	104 28	111 21.0	96 2.6	105 86	110 33.5	114 133	89 10	110 -53	104 0.6	108 17.6	88 -1.9	95 0.3	98 30.5	112 7	107 20	106 1.31	109 1.41	85 -1.30
MIG 220018 94146347	1	LAR 170043 MIG 180040		91 53	109 44	100 35	89 35	94 31	98 37	103 43	115 25	100 35	113 26	107 33	94 1.56	95 -0.9	111 39	109 20.0	100 3.6	102 79	111 34.5	115 136	100 36	111 -54	104 0.6	106 16.6	93 -4.8	98 -0.3	98 30.9	116 10	109 22	104 1.07	110 1.58	91 -0.78
MIG 220046 94131877	2	LAR 170043 LMR 100157		92 68	105 51	92 47	90 45	98 37	92 46	94 52	105 31	93 43	99 30	112 39	94 1.65	97 -1.2	110 37	105 17.6	92 1.3	93 56	103 28.1	105 99	99 34	105 -45	92 -0.1	94 9.2	101 -9.9	92 0.9	111 38.3	105 1	100 13	92 -0.07	99 -0.09	80 -1.73
MIG 230013 95734109	1	LAR 170231 MIG 180027		105 64	98 44	113 36	96 35	101 30	106 39	102 44	94 27	103 37	100 19	103 28	106 0.35	102 -1.8	102 24	98 13.8	113 7.8	109 94	99 23.7	95 62	91 15	98 -33	121 1.5	100 12.6	107 -12.8	99 -0.4	99 31.3	96 -6	99 13	104 1.05	100 0.05	91 -0.81
MIG 230018 95719266	2	AG 130375 SYF 140334		109 68	104 55	95 47	107 42	91 39	103 47	107 54	87 26	99 43	96 30	95 17	107 0.23	106 -2.3	91 9	104 17.1	95 2.2	104 84	100 25.4	90 43	86 2	86 -14	104 0.5	89 6.5	96 -6.9	94 0.5	94 28.3	100 -3	101 14	106 1.28	91 -1.34	89 -1.02
MIG 230021 95719274	2	LAR 170231 MIG 170006		94 65	106 44	112 37	93 36	104 31	108 40	107 45	89 26	103 37	95 19	107 33	95 1.52	98 -1.3	105 30	106 17.9	112 7.2	112 102	101 26.1	91 46	90 11	90 -20	107 0.7	91 7.6	107 -13.3	100 -0.5	103 33.7	89 -12	93 8	98 0.48	90 -1.47	90 -0.87
MIG 230025 96127915	1	LAR 170231 MIG 180012		96 62	98 41	120 32	96 32	104 29	106 37	102 42	95 22	103 34	102 15	103 28	99 1.10	93 -0.7	101 24	98 13.8	120 9.9	114 108	96 21.0	96 65	93 18	93 -24	116 1.2	102 13.8	107 -12.9	98 -0.1	104 34.1	96 -6	100 14	107 1.37	94 -0.83	97 -0.34
MIG 230026 96127923	2	AG 130375 SYF 140212		94 68	107 55	93 46	105 42	99 39	100 47	103 54	89 27	97 43	96 28	95 17	107 1.76	95 -0.9	94 13	107 18.4	93 1.6	104 82	103 27.9	91 47	94 22	91 -22	102 0.4	100 13.0	100 -8.9	105 -1.4	92 26.9	98 -4	97 11	100 0.72	95 -0.70	88 -1.06
MIG 230042 96127949	1	AG 130375 LDW 140112		93 68	104 51	106 44	103 41	87 37	96 45	105 51	96 26	95 41	101 26	95 17	92 1.82	94 -0.8	95 15	104 17.0	106 5.4	111 101	102 27.1	97 68	92 17	92 -24	115 1.2	89 6.0	92 -4.7	93 0.6	90 25.8	106 2	102 15	107 1.38	100 0.00	97 -0.29
MIG 230044 96127956	2	LAR 170231 MIG 180030		89 65	104 48	114 37	100 37	104 31	106 41	105 47	97 28	104 38	99 26	98 21	92 1.79	84 0.5	97 18	104 16.9	114 7.9	117 114	103 27.5	98 71	93 19	97 -32	109 0.8	94 8.9	108 -13.8	101 -0.7	101 32.6	95 -7	96 10	101 0.79	89 -1.66	90 -0.94

Breeding Values and Accuracies: Cows & Heifers

Value <80 Value >120

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Animal				Selection Values										Birth			Wean				Growth & Adaptability					Fertility				Frame		Carcass		
ID Animal no	% Inbreeding	Genomic Parentage	Index EBV Acc	Calv. Ease V	Calf Growth V	Milk Value	Maint. V	Fertility V	Cow Value	Wean Calf V	Growth Value	Prod. Value	Carcass V	Cow wt -birth	Birth wt	Cow-Calf birth	Cow wt -wean	Wean dir	Wean mat	Cow-Calf wn	Post wn wt	ADG	Veld growth	FCR	Skin Thicken	Scrotum	Heifer Fert	Cow Fert.	Longevity	Height	Length	EMA	Fat	Marbling
			Sire ID Dam ID																															
MIG 240002 98106479	1	CEF 140515 NFS 130055		94 59	106 54	111 45	85 38	103 34	104 44	104 51	118 36	107 42	112 40	115 44	98 1.21	98 -1.2	116 45	106 18.1	111 7.1	106 88	114 37.3	125 174	109 57	123 -74	92 -0.1	94 9.0	98 -7.7	109 -2.1	96 29.6	123 15	120 32	97 0.41	93 -0.99	97 -0.30
MIG 240003 98106487	1	LAR 170231 MIG 190011		91 54	105 48	122 36	88 34	106 30	110 39	107 45	108 28	110 37	108 24	113 41	95 1.49	92 -0.5	111 38	105 17.6	122 10.5	116 113	108 32.3	111 122	93 20	108 -50	108 0.7	99 11.9	107 -12.9	104 -1.2	103 33.5	104 0	108 20	104 1.07	92 -1.18	96 -0.39
MIG 240008 98106495	1	CEF 140515 GZV 140042		98 58	104 54	105 44	96 40	95 35	101 44	104 51	104 32	101 42	105 35	102 26	100 1.02	97 -1.2	102 25	104 17.2	105 5.2	107 90	109 32.9	108 110	105 47	112 -56	96 0.1	97 10.8	97 -7.4	98 -0.2	98 30.6	118 11	114 26	96 0.27	99 -0.15	93 -0.61
MIG 240013 98114606	3	LAR 170271 MIG 180015		92 67	106 55	85 46	104 46	94 36	91 47	98 54	86 38	88 45	98 46	92 13	87 2.33	104 -2.1	95 15	106 18.1	85 -1.0	95 60	103 28.0	91 45	96 25	96 -29	104 0.5	104 15.5	89 -3.0	100 -0.5	101 32.5	110 5	105 18	109 1.61	98 -0.27	104 0.26
MIG 240014 98106503	1	LAR 170271 MIG 190031		85 66	106 58	93 46	99 46	97 35	91 48	97 56	97 39	91 46	101 48	94 15	83 2.72	95 -0.9	100 21	106 18.0	93 1.4	99 71	107 31.1	101 83	99 33	106 -47	99 0.2	107 16.9	90 -3.4	101 -0.7	105 34.8	116 10	107 20	107 1.39	98 -0.30	104 0.27
MIG 240015 98114614	2	LAR 170271 MIG 180039		88 67	108 58	90 46	96 46	100 35	95 48	99 56	102 40	95 46	108 48	97 20	86 2.48	100 -1.5	104 27	108 19.3	90 0.7	97 67	108 32.3	106 104	96 25	110 -52	101 0.4	106 16.3	92 -4.3	103 -1.2	106 35.6	122 15	114 26	112 1.86	98 -0.33	103 0.17
MIG 240025 98114622	1	LAR 170271 MIG 170021		94 67	103 56	82 49	101 49	101 37	90 48	92 56	97 41	90 47	101 50	93 15	89 2.13	105 -2.3	98 20	103 16.6	82 -1.7	88 45	102 27.0	99 77	104 46	98 -34	94 0.0	103 14.6	90 -3.1	109 -2.1	102 32.8	109 4	104 17	108 1.46	91 -1.31	101 0.06
MIG 240044 98114598	26	LAR 170043 MIG 220046		88 53	110 43	92 37	88 37	94 31	92 38	99 43	120 28	97 36	111 28	112 40	92 1.84	93 -0.6	113 41	110 20.5	92 1.2	96 64	110 33.9	118 149	100 37	114 -60	97 0.2	103 14.8	95 -6.3	92 0.8	106 35.7	113 7	107 20	98 0.52	108 1.25	80 -1.72

Selection List on Cow Value

Bulls 2 years and older

ID Sorted on ID	Name	Sire ID	Dam ID	Visual Score % Inbreeding	Horned / Polled	Myostatin Q204X nt821 F94L	Genomic test	Calving Ease Value Acc	Calf Growth Value Acc	Milk Value Acc	Maint. Value Acc	Fertility Value Acc	Cow Value Acc	Weaner Calf Value Acc	Growth Value Acc	Prod Value Acc	Carcass Value Acc										
								★★★★★																			
1	CEF 140515	CEF140515	CEF 120399	CEF 110046	7	1.5		96	87	107	82	121	61	90	57	108	51	116	65	112	76	123	50	119	62	118	66
2	LAR 170231	LAR170231	ARB 140055	LAR 140291	7	3.0		93	82	104	69	132	56	92	57	109	47	118	59	113	67	98	42	115	56	105	26
3	MIG 230023	MIG 230023	LAR 170231	MIG 180039		1.1		93	65	106	48	120	36	89	35	104	30	110	41	108	47	109	26	110	38	111	23
								★★★★☆																			
1	MIG 230010	MIG 230010	CEF 140515	CEF 150084		14.8		99	68	102	53	109	41	93	39	105	33	106	44	102	51	118	31	109	41	108	40
2	MIG 230024	MIG 230024	AG 130375	ADV 130049		1.7		94	69	110	56	100	50	88	43	102	39	103	48	105	55	99	27	102	44	102	28
3	MIG 230032	MIG 230032	LAR 170231	MIG 180034		0.0		105	60	87	35	122	28	97	29	109	25	102	33	91	37	94	21	99	31	99	13
4	MIG 240017	MIG 240017	LAR 170231	MIG 170006		1.6		95	65	105	44	111	37	93	36	104	31	108	40	107	45	89	26	103	37	95	19
5	MIG 240022	MIG 240022	LAR 170231	MIG 180034		0.0		102	59	88	35	123	28	97	29	109	25	102	33	93	37	94	21	100	31	99	13
6	MIG 240024	MIG 240024	LAR 170271	MIG 180024		2.1		95	67	105	58	91	47	96	46	109	36	101	48	98	56	98	40	100	46	102	49
								★★★★																			
1	AG 130375	AG130375	PAD 070093	AG 090721	6	1.2		102	88	106	84	101	66	98	59	86	57	99	68	108	78	93	35	97	61	106	30
2	LAR 170043	LAR170043	AJF 120346	LAR 140201	6	2.0		84	82	116	70	92	58	86	58	90	50	93	60	103	68	135	45	101	57	123	46
3	MIG 210016	MIG 210016	AG 130375	AG 100321		2.0		93	70	109	68	102	52	96	48	84	41	97	54	108	63	96	27	95	49	107	26
4	MIG 230006	MIG 230006	CEF 140515	SYF 140289		0.8		93	68	104	55	98	44	98	41	93	37	94	46	99	53	100	34	94	44	98	42
								★★★★☆																			
1	LAR 170271	LAR170271	AJF 130415	LAR 130085	6	2.0		80	92	106	95	73	80	107	83	101	60	83	77	88	90	84	72	81	76	99	90
2	MIG 230007	MIG 230007	LAR 170043	LMR 110001		3.1		90	67	111	51	86	45	94	45	87	36	89	45	99	52	115	32	93	42	106	31
3	MIG 240016	MIG 240016	LAR 170271	SYF 140289		2.6		94	70	101	60	73	51	106	51	90	40	80	51	88	59	80	42	77	49	88	52

Selection List on Cow Value

Cows 2 years and older

ID		Name	Sire ID	Dam ID	Visual Score	Horned / Polled	Myostatin	Calving Ease Value	Calf Growth Value	Milk Value	Maint. Value	Fertility Value	Cow Value	Weaner Calf Value	Growth Value	Prod Value	Carcass Value										
Sorted on ID					% Inbreeding		Q204X nt821 F94L	Acc	Acc	Acc	Acc	Acc	Acc	Acc	Acc	Acc	Acc										
					<i>Italics: DNA Test</i>																						
								★★★★★																			
1	MIG 180024	MIG 180024	CEF 140515	ADV 130049	0.8			102	71	105	67	109	49	86	42	117	39	114	52	104	61	113	32	114	48	105	40
2	MIG 210003	MIG 210003	CEF 140515	MIG 180005	1.4			101	65	107	64	109	42	98	36	104	34	113	47	111	57	106	28	112	43	108	36
3	MIG 210010	MIG 210010	CEF 140515	MIG 180003	1.4			105	65	106	64	112	43	93	37	99	34	112	48	112	57	106	29	111	44	106	36
4	MIG 240003	MIG 240003	LAR 170231	MIG 190011	0.8			91	54	105	48	122	36	88	34	106	30	110	39	107	45	108	28	110	37	108	24
								★★★★☆																			
1	MIG 180039	MIG 180039	CEF 140515	LDW 140086	2.7			87	74	111	66	108	44	86	39	98	36	102	51	105	60	120	32	105	47	117	38
2	MIG 190011	MIG 190011	CEF 140515	NFS 130055	0.7			89	68	106	66	112	46	84	38	104	35	103	50	103	59	117	36	105	47	112	40
3	MIG 190016	MIG 190016	AG 130375	MIG 160013	0.6			112	64	102	60	99	41	99	32	91	33	102	45	104	54	90	22	98	40	99	19
4	MIG 200009	MIG 200009	CEF 140515	MIG 170039	0.6			102	65	100	60	109	40	103	32	107	31	109	45	104	54	100	26	107	41	100	34
5	MIG 200029	MIG 200029	CEF 140515	MIG 170034	0.9			93	65	108	48	106	37	94	35	104	32	106	41	107	47	104	30	106	39	104	36
6	MIG 200034	MIG 200034	CEF 140515	AG 110731	1.1			91	69	112	56	108	48	87	48	92	39	102	49	109	56	116	36	105	46	111	40
7	MIG 200037	MIG 200037	CEF 140515	MIG 170002	0.8			102	65	99	51	104	42	104	40	110	36	108	44	101	50	102	32	106	42	100	42
8	MIG 210004	MIG 210004	CEF 140515	MIG 180001	1.5			91	65	107	53	110	40	94	37	100	34	104	44	107	51	103	28	104	41	105	35
9	MIG 210006	MIG 210006	CEF 140515	MIG 160006	0.9			94	67	108	52	107	45	92	40	108	36	109	45	107	52	111	36	110	43	107	42
10	MIG 210009	MIG 210009	CEF 140515	MIG 160001	1.4			98	67	106	51	109	43	89	40	97	35	104	44	106	51	112	34	106	42	112	42
11	MIG 230013	MIG 230013	LAR 170231	MIG 180027	1.4			105	64	98	44	113	36	96	35	101	30	106	39	102	44	94	27	103	37	100	19
12	MIG 230018	MIG 230018	AG 130375	SYF 140334	2.0			109	68	104	55	95	47	107	42	91	39	103	47	107	54	87	26	99	43	96	30
13	MIG 230021	MIG 230021	LAR 170231	MIG 170006	1.6			94	65	106	44	112	37	93	36	104	31	108	40	107	45	89	26	103	37	95	19
14	MIG 230025	MIG 230025	LAR 170231	MIG 180012	0.8			96	62	98	41	120	32	96	32	104	29	106	37	102	42	95	22	103	34	102	15
15	MIG 230026	MIG 230026	AG 130375	SYF 140212	2.2			94	68	107	55	93	46	105	42	99	39	100	47	103	54	89	27	97	43	96	28
16	MIG 230044	MIG 230044	LAR 170231	MIG 180030	1.9			89	65	104	48	114	37	100	37	104	31	106	41	105	47	97	28	104	38	99	26
17	MIG 240002	MIG 240002	CEF 140515	NFS 130055	0.7			94	59	106	54	111	45	85	38	103	34	104	44	104	51	118	36	107	42	112	40
18	MIG 240008	MIG 240008	CEF 140515	GZV 140042	1.0			98	58	104	54	105	44	96	40	95	35	101	44	104	51	104	32	101	42	105	35
								★★★★																			
1	MIG 170006	MIG 170006	LDW 130199	LMR 100157	8	0.6		93	75	109	53	91	48	95	44	99	39	98	48	102	55	79	30	92	44	85	28
2	MIG 170021	MIG 170021	DAJ 140162	CEF 150022	0.9			101	72	99	60	91	56	95	53	100	44	92	53	91	60	111	39	95	50	103	44

Selection List on Cow Value

Cows 2 years and older

ID Sorted on ID		Name	Sire ID	Dam ID	Visual Score % Inbreeding	Horned / Polled	Myostatin Q204X nt821 F94L	Genomic test	Calving Ease Value Acc	Calf Growth Value Acc	Milk Value Acc	Maint. Value Acc	Fertility Value Acc	Cow Value Acc	Weaner Calf Value Acc	Growth Value Acc	Prod Value Acc	Carcass Value Acc
3	MIG 170031	MIG 170031	LDW 130199	LMR 110001	1.2				99 68	110 53	84 45	99 44	90 36	95 46	103 53	89 31	92 43	92 29
4	MIG 180015	MIG 180015	AG 130375	GZV 140042	1.8				100 72	103 55	96 46	100 41	87 39	94 48	101 55	88 26	91 44	98 20
5	MIG 190018	MIG 190018	AG 130375	MIG 160004	1.1				108 65	96 62	96 44	101 37	96 35	95 47	94 56	94 28	93 43	101 22
6	MIG 190030	MIG 190030	CEF 140515	MIG 160019	1.1				97 66	101 63	107 45	96 40	97 35	99 48	100 57	109 32	100 45	101 40
7	MIG 190031	MIG 190031	CEF 140515	LDW 140068	1.2				85 69	104 66	112 46	92 39	92 35	94 50	100 60	109 31	96 46	104 36
8	MIG 200007	MIG 200007	AG 130375	MIG 170015	0.9				105 65	96 60	93 41	105 33	93 32	91 45	92 54	80 20	87 40	88 20
9	MIG 200035	MIG 200035	CEF 140515	MIG 160015	0.7				93 67	100 51	99 42	104 38	87 35	90 44	97 50	99 32	90 42	98 40
10	MIG 220005	MIG 220005	LAR 170043	MIG 180028	1.8				92 64	111 48	96 37	95 35	89 32	97 41	106 47	114 26	100 38	111 26
11	MIG 220018	MIG 220018	LAR 170043	MIG 180040	1.1				91 53	109 44	100 35	89 35	94 31	98 37	103 43	115 25	100 35	113 26
12	MIG 220046	MIG 220046	LAR 170043	LMR 100157	1.6				92 68	105 51	92 47	90 45	98 37	92 46	94 52	105 31	93 43	99 30
13	MIG 230042	MIG 230042	AG 130375	LDW 140112	1.4				93 68	104 51	106 44	103 41	87 37	96 45	105 51	96 26	95 41	101 26
14	MIG 240013	MIG 240013	LAR 170271	MIG 180015	2.6				92 67	106 55	85 46	104 46	94 36	91 47	98 54	86 38	88 45	98 46
15	MIG 240014	MIG 240014	LAR 170271	MIG 190031	1.3				85 66	106 58	93 46	99 46	97 35	91 48	97 56	97 39	91 46	101 48
16	MIG 240015	MIG 240015	LAR 170271	MIG 180039	1.7				88 67	108 58	90 46	96 46	100 35	95 48	99 56	102 40	95 46	108 48
17	MIG 240025	MIG 240025	LAR 170271	MIG 170021	1.1				94 67	103 56	82 49	101 49	101 37	90 48	92 56	97 41	90 47	101 50
18	MIG 240044	MIG 240044	LAR 170043	MIG 220046	26.3				88 53	110 43	92 37	88 37	94 31	92 38	99 43	120 28	97 36	111 28
19	NFS 130055	NFS 130055	NFS 090120	NFS 050062	7 0.8				93 79	104 71	101 66	80 51	98 44	93 59	97 69	114 49	96 57	105 46
1	GZV 140042	GZV140042	AG 100268	GZV 100283	7 1.8				100 77	101 71	89 64	102 56	82 47	86 59	95 69	84 38	83 55	91 25
1	SYF 140289	SYF140289	SYF 120036	ADV 050121	6 2.6				93 80	100 73	74 64	105 60	79 52	72 62	85 71	76 44	69 58	78 52

