

HEREFORD

GENOMIC BREEDING VALUE REPORT

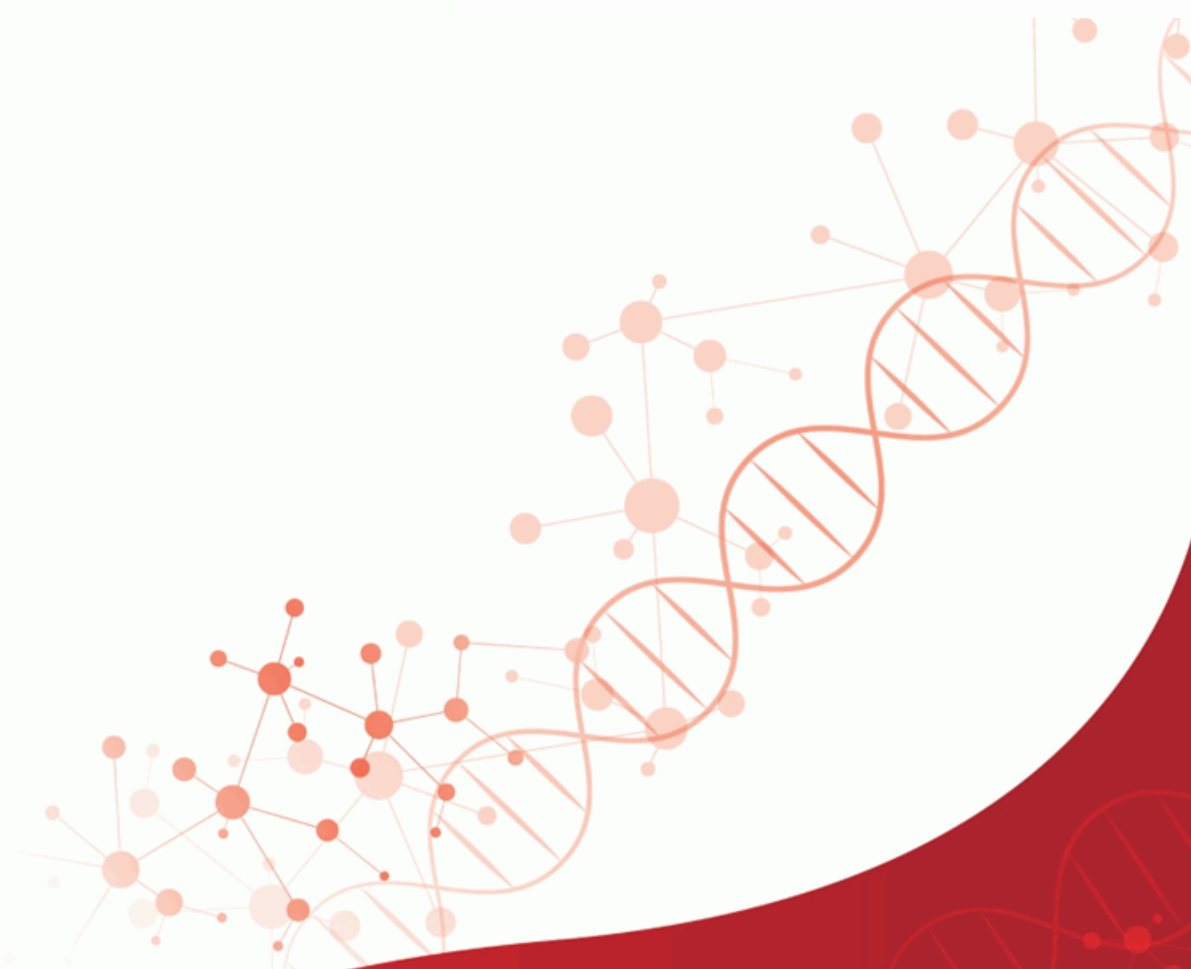
September 2026



GRAVIC FARMS PTY LTD

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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.

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

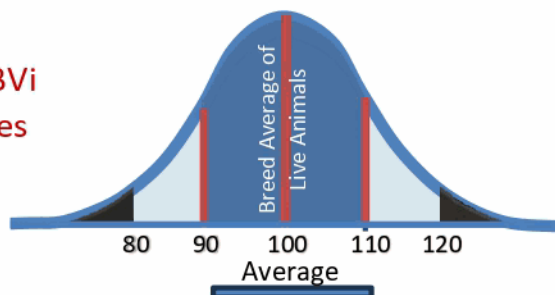
Select for more meat on the carcass as measured from end weight in Phase C and D Growth Tests and RTU scanning.

LOGIX Production Value

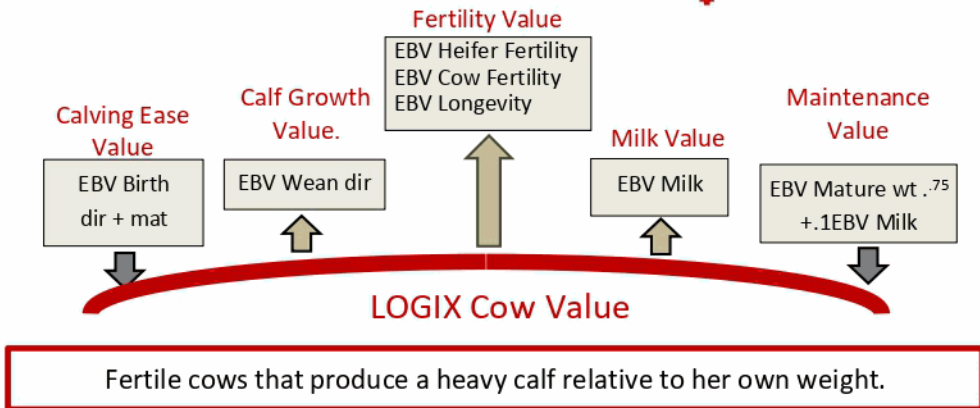


80% LOGIX Cow Value +
20% LOGIX Growth Value

Interpretation of EBVi and Selection Values



LOGIX Cow 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)

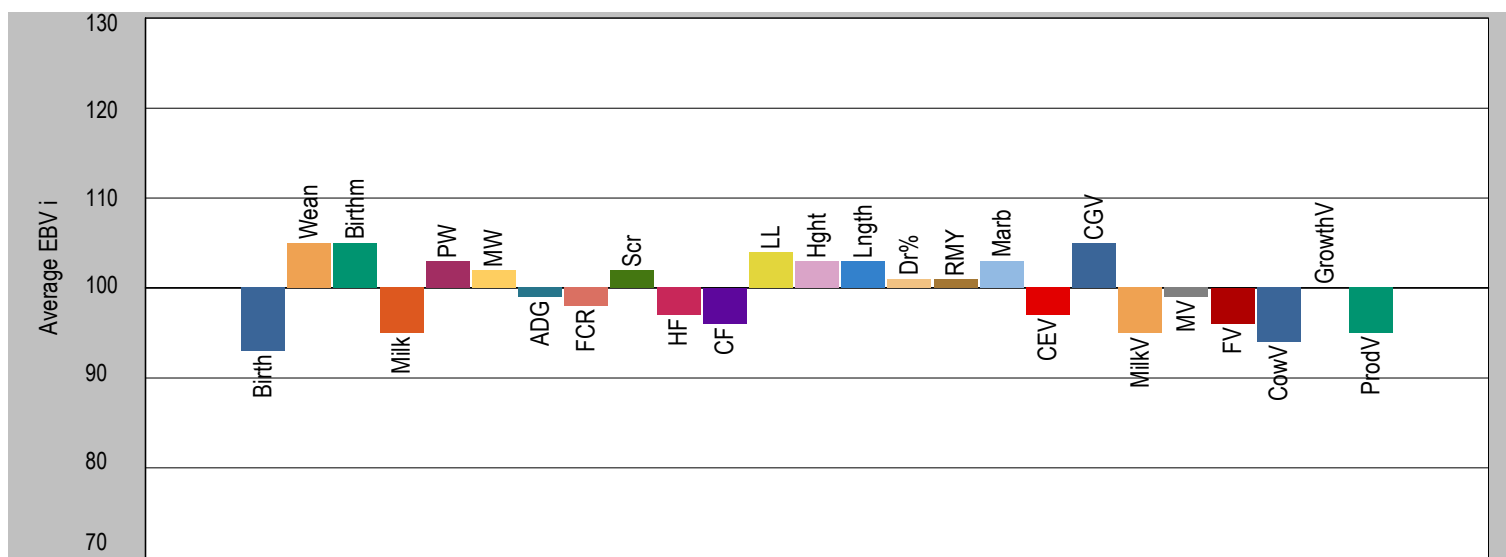
- Maintenance Value >110
 - Cow Value and Fertility Value average to high
- Lighter cows have a lower maintenance.

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



Breeding Values:

Birth:	Birth weight	Scr:	Scrotal circumf.
Wean:	Weaning weight	HF:	Heifer Fertility
Birthm:	Birth maternal	CF:	Cow Fertility
Milk:	Milk	LL:	Longevity
PW:	Post-wean weight	Hght:	Height
MW:	Mature weight	Lngth:	Length
ADG:	Average Daily Gain	Dr%:	Dressing%
FCR:	Feed Conversion Ratio	RMY:	Red Meat Yield
		Marb:	Marbling

Selection Values:

CEV:	Calving Ease Value
CGV:	Calf Growth Value
MilkV:	Milk Value
MV:	Maintenance Value
FV:	Fertility Value
CowV:	Cow Value (CV)
GrowthV:	Growth Value (GV)
ProdV:	Production Value (PV)

	Trait	EBV Herd	EBV Index	EBV Breed
Prewrite Growth	Birth Weight	1.26	93	0.77
	Wean Weight	19.9	105	18.0
	Birth Mat.	0.38	105	0.57
	Milk (Wn.Mat.)	6.6	95	8.0
Postwean Growth	Postwean Wt	34.7	103	33.0
	Mature Weight	35	102	34
	ADG	129	99	133
	FCR	-73	98	-75
Fertility	Scrotal Circumf.	16.9	102	16.0
	Heifer Fertility	-3.3	97	-5.6
	Cow Fertility	-2.3	96	-2.9
	Longevity	37.8	104	36.2
Frame	Height	24	103	22
	Length	33	103	31
Carcass	Dressing%	0.11	101	0.10
	RedMeatYield	1.4	101	1.3
	Marbling	-0.16	103	-0.29

Selection Value	Ave. Herd
Calving Ease	97
Calf Growth	105
Milk	95
Maintenance	99
Fertility	96
Cow Value	94
Growth Value	100
Production Value	95

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

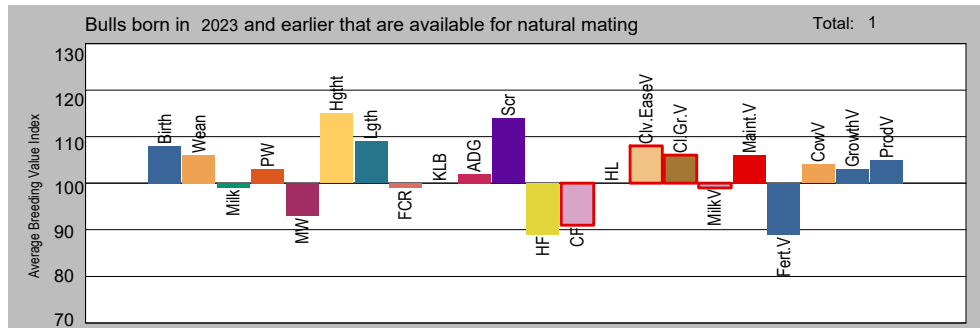
What does a sub-selection value above breed average (100) mean?:

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

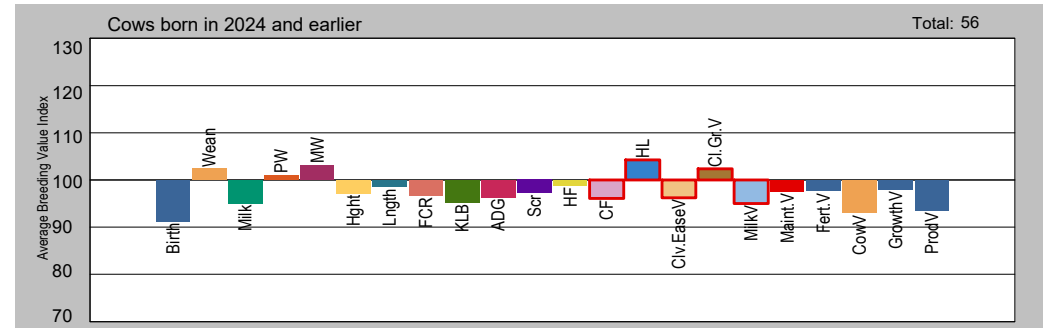
Genetic Windows

Animals available for breeding

Bulls on the farm

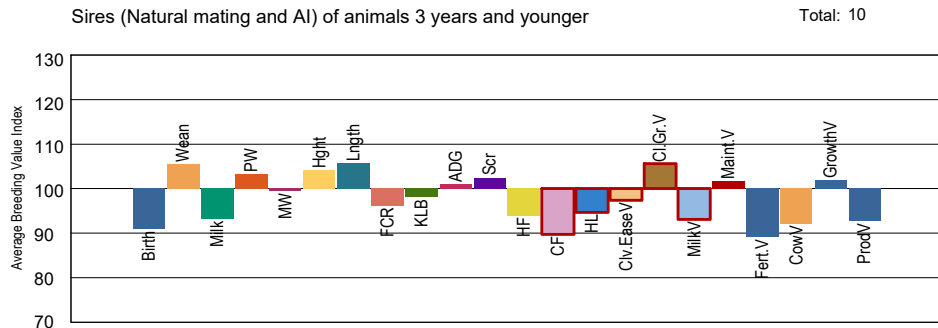


Cow Herd

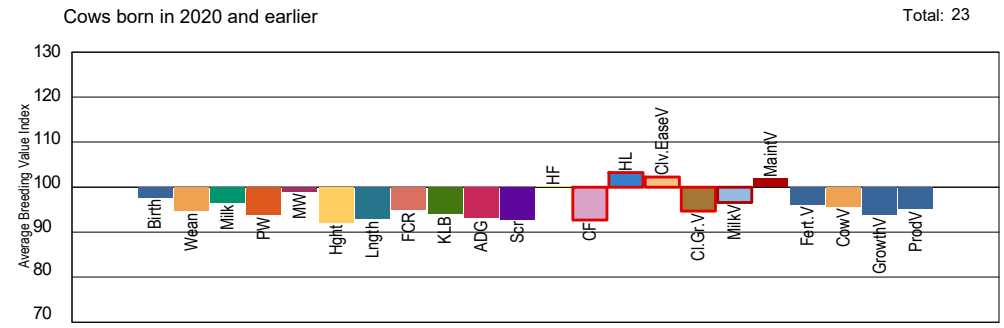


Results of previous selection decisions

Sires of young animals

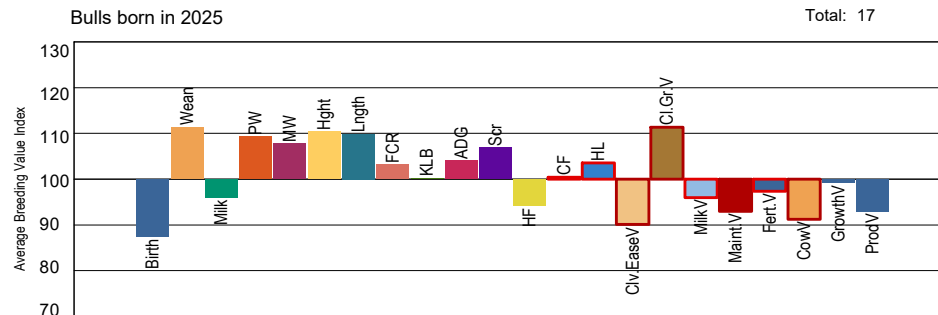


Cows older than 6 years

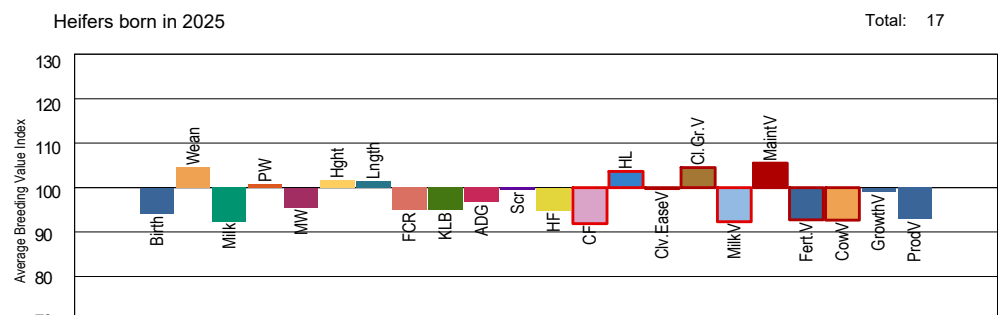


Selection possibilities

Bull calves



Heifer calves

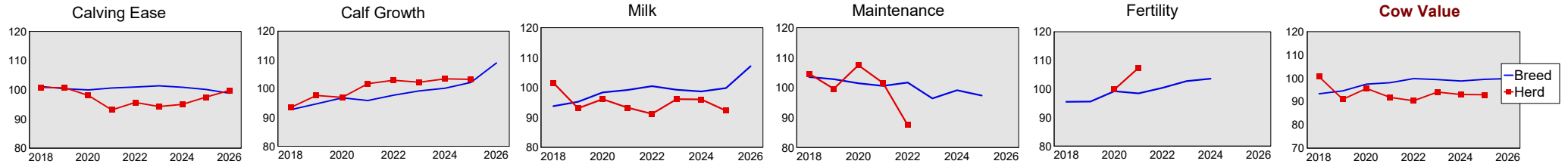


Summary of Cow Herd

			Selection Values (SV)								Calf Weight		Dam		Growth & Efficiency				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	99	100	100	99	99	99	99	98	101	100	100	99
2016	3	★★★★	98	92	95	103	107	96	96	92	91	92	107	95	92	96	93	97	91	112	101	96	90	89	
2017	2	★★★★	91	100	104	100	94	96	94	95	86	100	96	104	101	100	93	94	98	97	93	101	90	91	
2018	8	★★★★	107	91	97	101	95	99	94	99	102	91	113	97	92	101	93	94	92	100	91	102	94	93	
2019	7	★★★★	99	104	99	96	95	92	97	92	98	104	99	99	102	104	99	98	99	93	95	110	98	101	
2020	3	★★★★	110	81	89	118	94	94	82	96	102	81	119	89	77	84	80	83	80	105	85	100	77	79	
2021	3	★★★★☆	91	103	90	91	100	89	88	98	82	103	108	90	101	111	86	84	90	98	102	104	89	92	
2022	3	★★★★	89	113	95	89	110	95	113	101	84	113	108	95	111	113	103	99	102	101	112	111	109	108	
2023	15	★★★★☆	87	109	93	93	101	89	100	89	82	109	101	93	107	107	98	95	98	102	98	106	99	102	
2024	12	★★★★	99	106	96	99	93	94	102	95	95	106	108	96	104	101	102	99	105	93	94	103	104	105	
2025	17	★★★★	100	105	92	106	93	93	99	93	94	105	110	92	101	96	97	95	99	95	92	104	102	102	
2026	18	★★★★☆	103	104	97	102	94	100	100	106	101	104	105	97	101	98	100	98	106	95	95	103	106	104	
Cows in Herd Average:			98	101	95	100	98	94	97	96	92	101	107	95	99	101	95	94	96	99	96	96	104	96	97

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.



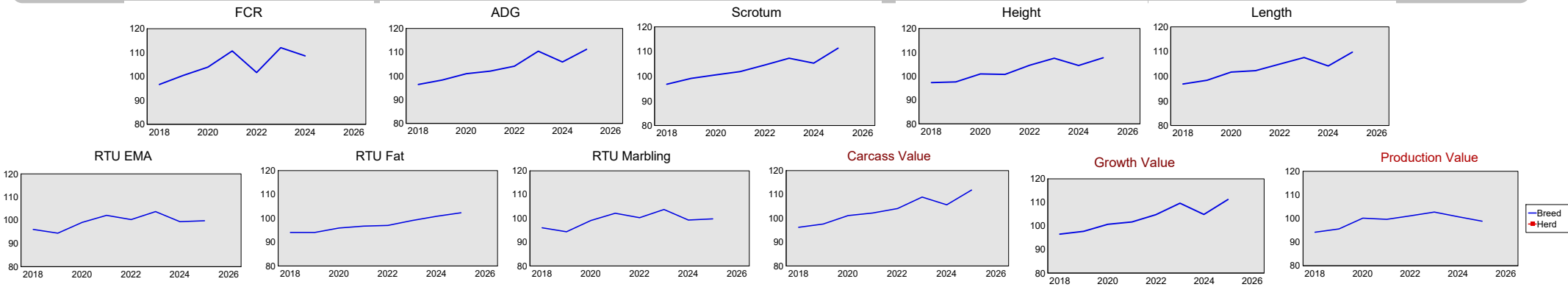
Herd

Birth Year	Calving Ease				Calf Growth			Milk			Maintenance						Fertility								Cow Value
	Birth Weight		Mat EBV	Calv. Ease	Weaning Weight		Calf Growth	Milk (Wn.Mat.)		Milk	Postwean Weight		Mature Weight		Maintenance	Heifer Fert.		Cow Fert.		Longevity		Fertility			
	Number	Dir EBV			Number	EBV		Number	EBV		Number	EBV	Number	EBV		Number	EBV	Number	EBV	Number	EBV		Number	EBV	
2018	39	0.87	0.33	101	19	15.3	94	19	8.39	102			8	30	105					39	31.1		101		
2019	65	0.96	0.31	101	30	17.0	98	30	5.95	93			11	34	100					65	30.2		91		
2020	61	1.00	0.50	98	40	16.7	97	40	6.80	96			12	28	108	3	-9.9	3	-2.8	61	32.3	100	96		
2021	65	1.59	0.38	93	49	18.7	102	49	6.00	93			14	33	102	3	-9.4			67	31.4	107	92		
2022	68	1.42	0.28	96	47	19.2	103	47	5.40	91			2	49	88					60	31.7		90		
2023	74	1.41	0.45	94	65	18.9	102	65	6.80	96													94		
2024	76	1.37	0.40	95	56	19.4	103	56	6.80	96													93		
2025	57	1.23	0.30	97	36	19.3	103	36	5.68	92													93		
2026	34	0.84	0.48	100																					

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		Fertility				
	Number	Dir EBV			Number	EBV		Number	EBV	Milk	Number	EBV	Number		EBV	Number	EBV	Number	EBV	Number		EBV	Number	EBV	
2016	1782	0.81	0.42	101	985	14.3	91	985	6.12	94	448	28.0	250	28	105	395	-6.4	304	-2.1	1860	26.0	94	92		
2017	1720	0.80	0.48	101	1155	14.8	93	1155	6.19	94	481	29.8	306	28	105	402	-5.9	313	-2.3	1792	27.4	95	93		
2018	1744	0.77	0.45	101	1213	14.9	93	1213	6.14	94	553	29.2	278	29	104	417	-5.9	305	-2.1	1865	28.9	96	93		
2019	1757	0.80	0.49	100	1239	15.7	95	1239	6.57	95	553	30.8	300	31	103	430	-5.3	325	-2.5	1826	30.2	96	95		
2020	1742	0.79	0.55	100	1243	16.6	97	1243	7.48	98	519	32.3	246	33	101	394	-5.9	302	-3.1	1839	30.8	99	98		
2021	1690	0.76	0.52	101	1171	16.2	96	1171	7.70	99	493	32.7	187	32	101	361	-5.2	246	-2.8	1674	31.0	98	98		
2022	1795	0.71	0.53	101	1271	17.0	98	1271	8.08	100	520	33.5	198	30	102	356	-6.3	129	-3.0	1136	31.4	100	100		
2023	1773	0.71	0.51	101	1235	17.7	99	1235	7.73	99	513	35.8	62	33	96	180	-6.4	37	-3.3			103	100		
2024	1801	0.76	0.51	101	1081	18.1	100	1081	7.58	99	560	34.6	8	43	99	44	-5.7					104	99		
2025	1633	0.80	0.54	100	854	18.9	102	854	7.90	100	177	38.9			97								100		
2026	626	0.82	0.62	99	56	21.7	109	56	10.03	107													100		

Genetic Trends for Growth Test Traits



Herd

Birth Year	Growth									Frame			Carcass						Selection Values		
	FCR			ADG			Scrotum			Height			Length			RTU			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			
2018																					
2019																					
2020																					
2021																					
2022																					
2023																					
2024																					
2025																					
2026																					

Breed

Birth Year	Growth									Frame						Carcass						Selection Values			
	FCR			ADG			Scrotum			Height			Length			RTU Number	EMA		Fat		Marbling		Cracss Value	Growth Value	Prod Value
	Number	EBV	EBVi	Number	EBV	EBVi	Number	EBV	EBVi	Number	EBV	EBVi	Number	EBV	EBVi		EBV	EBVi	EBV	EBVi					
2017	37	-71	97	180	110	94	177	13.5	95	177	20	96	177	25	95	132	0.25	97	-0.71	93	-0.25	101	95	94	92
2018	97	-70	97	261	120	96	261	14.3	97	261	21	97	261	28	97	213	0.34	98	-0.63	94	-0.48	96	96	97	94
2019	59	-76	101	260	127	98	220	15.4	99	260	21	98	260	29	98	242	0.51	100	-0.63	94	-0.55	94	98	98	96
2020	45	-80	104	259	137	101	220	16.2	101	259	23	101	259	32	102	258	0.73	103	-0.44	96	-0.33	99	101	101	100
2021	49	-89	111	219	141	102	224	16.9	102	224	23	101	224	33	102	209	0.89	105	-0.36	97	-0.18	102	102	102	100
2022	56	-77	102	205	149	104	206	18.2	104	206	25	105	206	36	105	177	0.90	105	-0.33	97	-0.27	100	104	105	101
2023	8	-91	112	231	172	110	232	19.6	107	232	27	108	232	38	108	204	1.20	109	-0.14	99	-0.10	104	109	110	103
2024	3	-86	109	132	155	106	135	18.6	105	141	25	104	141	35	104	124	0.91	105	0.04	101	-0.32	99	106	105	101
2025				105	175	111	112	21.7	111	120	27	108	120	40	110	111	1.18	109	0.19	102	-0.29	100	112	111	99
2026																									

Sires

Bull			Selection Values							Calf		Dam		Growth				Fertility				Frame		Carcass			Measured Progeny		
ID	Index EBV Acc	Sire ID Dam ID	Calv. Ease Value	Calf Grwth Value	Milk Value	Maint. Value	Fertility Value	Cow Value	Growth Value	Prod Value	Birth Dir	Wean Dir	Birth Mat.	Wean Mat.	Post wn wt	Mature weight	ADG	FCR	Scrotal	Heifer Fertility	Cow Fertility	Long-evi ty	Height	Length	EMA	Fat	Marbling	Birth Grwth Test	Wean Dgt/Calvs.
190Z	73S M326 78P	NJW 78P TWENTYTWELVE 190Z ET	91	119	62	121	77	67	102	69	67	119	131	62	113	82	107	101	104	78	82	105	105	114	111	103	129	59	51
			92	93	84	71	63	79	68	77	3.18	25.9	-0.70	-3.2	41.4	16	159	-77	18.2	9.8	-0.2	38.6	26	44	1.30	0.24	1.09	7	19
			95	93							95	93	85	84	62	71	67	61	72	69	38	83	76	73	69	64	62		
2214	743 31 7100	CHAC MASON 2214	74	120	102	100	98	86			83	120	60	102	106	100	98		107	91	111	84	90	105	124	83	77	14	13
			77	78	61	36	39	58			2.02	26.5	2.20	8.6	36.9	33	126		19.5	0.5	-4.6	29.2	16	36	2.27	-1.76	-1.40		
			84	78							84	78	63	61	12	36	6		7	37	11	68	7	7	6	5	5	6	11
7110ET	71U719T 23G 5R ET	KCL WPF THE PROFESSOR 7110ET	112	91	82	127	81	97	85	94	98	91	137	82	81	76	91	85	83	99	68	100	103	100	91	101	84	22	7
			89	83	81	67	68	75	61	72	0.89	14.1	-0.95	2.8	20.8	9	99	-56	7.4	-4.9	1.9	36.4	24	31	-0.14	0.04	-1.07	6	14
			92	83							92	83	83	81	64	67	71	45	76	75	45	83	79	77	63	58	57		
BH 100032	WDW 060088 PJB 040010	BENCHMARK 1032	110	100	107	95	97	114	108	115	108	100	106	107	105	104	107	105	106	103	95	90	100	101	107	92	91	313	250
			98	98	96	77	82	88	56	82	0.16	17.8	0.31	10.1	35.9	38	159	-82	19.0	-7.5	-2.2	31.9	22	31	1.07	-0.80	-0.72		
											99	98	96	96	92	77	65	43	69	88	63	96	69	68	65	62	61	78	215
GG 160033	BH 100032 GG 090069	GG160033	117	90	112	93	92	114	98	113	121	90	92	112	92	105	97	96	100	97	97	78	96	98	99	98	97	5	1
			77	62	62	42	51	57	30	52	-0.80	13.7	0.90	11.4	27.9	39	123	-70	15.8	-3.6	-2.4	26.4	20	28	0.40	-0.28	-0.42		
											83	62	65	62	48	42	34	23	36	50	33	69	36	36	33	32	31	1	4
GG 210009	NJW79Z GG 170035	GG210009	99	89	123	103	81	96	104	96	105	89	86	123	93	94	102	94	99	94	78	91	102	102	101	97	100	13	10
			76	82	54	34	37	57	37	53	0.37	13.5	1.12	14.7	28.5	28	139	-68	15.5	-1.1	0.5	32.0	23	33	0.58	-0.32	-0.31		
			87	82							87	82	51	54	44	34	40	30	44	34	18	59	45	43	40	38	36		
GG 210012	NJW79Z GG 170023	GG210012	109	95	97	108	86	104	95	103	103	95	115	97	94	91	91	84	94	95	81	103	91	96	92	94	97	11	10
			75	82	54	36	37	57	38	53	0.52	15.7	-0.04	7.2	29.1	24	101	-54	12.9	-2.1	0.0	37.5	17	27	-0.13	-0.64	-0.44		
			86	82							86	82	51	54	45	36	42	32	46	35	19	57	46	45	41	39	38		
NJW79Z	160Z 10W BW91H	NJW 79Z 33B FORWARD 252F	100	107	101	112	71	95	107	96	96	107	112	101	104	87	99	84	108	75	80	88	99	109	100	94	95	40	39
			84	90	69	45	44	66	68	66	1.10	20.8	0.07	8.4	35.5	21	131	-55	20.1	11.3	0.2	30.8	22	39	0.52	-0.60	-0.55	13	10
											93	90	64	69	72	45	73	55	81	48	16	69	82	79	74	69	66		
P43145081	M326R117 803P	BOYD MASTERPIECE 0220	92	107	103	97	104	101	111	103	91	107	101	103	107	103	116	118	107	100	110	88	110	109	109	104	104	140	116
			95	97	91	54	75	79	32	70	1.41	21.1	0.51	8.9	37.4	36	192	-98	19.3	-5.9	-4.5	30.9	29	39	1.16	0.40	-0.10		
											98	97	90	91	64	54	41	20	44	79	54	93	51	49	41	39	38	30	98
WDW 170083	WDW 140081 WDW 130123	BABILON	102	98	103	102	89	103	98	102	100	98	107	103	97	97	97	95	106	105	81	86	103	101	99	102	105	10	21
			80	87	62	48	61	67	38	61	0.80	17.3	0.29	8.9	31.0	31	121	-69	19.2	-8.8	0.0	29.8	24	32	0.45	0.15	-0.05	1	
											87	87	65	62	42	48	44	29	49	69	35	79	50	48	42	38	38		
WDW 180025	WDW 140080 WDW 130036	MASTERPIECE	76	135	96	68	118	88	113	91	63	135	95	96	134	138	111	115	117	100	134	89	127	126	123	124	126	121	84
			90	95	79	53	56	73	29	64	3.53	32.8	0.78	6.9	55.1	73	175	-95	24.3	-5.8	-8.1	31.5	39	57	2.24	2.37	0.97		
											97	95	75	79	40	53	31	25	34	60	30	78	35	34	28	26	26	8	9

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	Value	Dir	Dir	Mat.	Mat.	wt	weight					Fertility	Fertility	ty						
WDW 180045		WDW 140081	WDW 130087	105	99	82	93	92	93	102	94	98	99	116	82	98	109	101	103	96	95	100	74	103	100	107	91	94	74	48
				86	92	66	52	54	70	32	62	0.89	17.4	-0.09	2.8	31.5	43	138	-79	14.0	-2.4	-2.9	24.5	24	31	1.05	-0.92	-0.57		
												96	92	65	66	40	52	35	27	38	50	33	78	38	37	33	31	30	4	4
WDW 190009		P43384585	WDW 160137	84	121	97	92	104	89	106	90	83	121	102	97	114	109	104	98	97	113	90	113	88	106	107	90	87	137	96
				89	95	50	34	53	64	55	62	2.02	26.6	0.49	7.0	41.7	43	147	-72	14.5	-14.5	-1.4	41.8	15	37	1.04	-1.04	-0.89		
												98	95	70	50	74	34	82	23	87	63	26	70	88	86	83	79	73	24	
WDW 190063		5051	WDW 120119	90	94	92	87	93	88	102	89	89	94	104	92	100	115	102	99	113	101	93	84	109	96	93	73	88	52	41
				85	92	63	46	53	67	70	68	1.57	15.5	0.42	5.7	32.8	49	142	-75	22.7	-6.4	-1.9	28.9	28	27	0.01	-2.70	-0.84		
												95	92	62	63	68	46	65	70	72	59	30	71	73	71	66	61	60	7	3
WDW 200174		WDW 170083	WDW 150017	108	106	99	106	89	104	103	105	108	106	102	99	103	93	102	99	114	89	91	100	115	109	106	113	103	88	32
				82	89	55	36	44	61	30	55	0.17	20.6	0.51	7.7	34.7	27	142	-75	22.8	1.8	-1.6	36.2	32	39	0.95	1.29	-0.14		
												96	89	52	55	30	36	30	26	33	46	25	61	34	33	29	26	26		

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Index EBV Acc	% Inbreeding	Sire ID Dam ID	ID Number Name	Calv. Ease V	Calf Growth V	Milk V	Maint. V	Fertility V	Cow Value	Growth Value	Prod. Value	Carcass Value	Birth wt dir	Birth mat	Mature wt	Wean wt	Wean mat	Cow-Calf Ratio (Wean)	Postwean wt	ADG	FCR	Scrotal Circ.	Heifer Fertility	Cow Fertility	Longevity	Height	Length	EMA	Fat	Marbling		
WDW 200174 91201137 BABILON				2	WDW 170083 WDW 150017	108 82	106 89	99 55	106 36	89 44	104 61	103 30	105 55	103 28	108 0.17 96	102 0.51 52	93 27 36	106 20.6 89	99 7.7 55	107 121 60	103 34.7 30	102 142 30	99 -75 26	114 22.8 33	89 1.8 46	91 -1.6 25	100 36.2 61	115 32 34	109 39 33	106 0.95 29	113 1.29 26	103 -0.14 26
GG 240001 97521512 GG 240001					WDW 190063 GG 180037	113 86	104 87	111 83	102 81	98 68	118 80	110 82	119 80	116 81	108 0.15 88	112 0.07 83	96 30 81	104 19.7 87	111 11.0 83	114 136 84	105 36.4 60	111 173 81	111 -90 81	123 27.6 82	94 -1.7 39	106 -3.8 81	92 32.5 83	132 43 82	121 51 82	118 1.84 81	134 3.33 81	111 0.27 81
GG 240003 97521520 GG 240003					WDW 190063 GG 140005	92 87	82 87	88 84	100 82	109 68	80 80	85 82	78 80	85 82	88 1.64 89	111 0.13 84	101 35 82	82 10.2 87	88 4.4 84	76 50 84	83 21.8 60	86 82 82	84 -55 82	82 7.0 83	111 -13.4 40	103 -3.3 81	103 37.4 84	95 19 83	88 19 83	70 -1.74 82	104 0.33 82	96 -0.49 82
GG 240007 97791453 GG 240007					190Z GG 200029	109 69	103 71	74 56	105 46	91 40	89 56	97 38	89 52	98 38	103 0.57 76	116 -0.09 55	96 30 46	103 19.3 71	74 0.5 56	82 65 58	100 33.3 40	98 127 39	97 -71 33	97 14.3 41	92 -0.2 42	91 -1.5 25	106 38.9 54	97 21 43	100 31 42	100 0.51 39	98 -0.28 37	108 0.10 36
GG 240013 97521587 GG 240013					WDW 190063 GG 200037	99 67	90 71	89 49	105 37	102 38	95 52	92 38	94 49	88 36	96 1.05 76	108 0.26 47	95 29 37	90 13.9 71	89 4.7 49	85 72 52	95 29.6 42	94 109 37	93 -66 37	97 14.4 41	106 -10.1 42	100 -2.9 23	93 33.2 50	91 17 41	87 18 40	86 -0.54 37	85 -1.49 35	92 -0.66 34
GG 240014 97791438 GG 240014					190Z GG 200041	94 70	101 72	77 57	122 46	89 41	84 57	92 38	83 53	99 38	83 2.03 76	127 -0.51 56	80 13 46	101 18.5 72	77 1.3 57	89 81 58	97 31.0 40	94 112 39	96 -70 33	97 14.5 41	95 -2.2 43	83 -0.3 26	112 41.4 54	93 18 43	100 30 42	101 0.60 39	92 -0.83 36	95 -0.55 36
GG 240019 97523203 GG 240019				2	WDW 190063 GG 180017	90 69	99 74	76 51	103 39	92 35	76 54	93 41	76 51	90 38	85 1.86 78	111 0.12 49	98 31 39	99 17.7 74	76 1.1 51	80 61 55	100 32.7 40	94 111 39	92 -65 40	97 14.6 42	99 -5.2 36	87 -0.9 20	100 36.3 48	99 22 43	95 26 42	92 -0.12 39	83 -1.71 36	99 -0.33 35
GG 240020 97523211 GG 240020				1	WDW 190063 GG 160008	69 69	119 73	97 48	77 31	99 32	79 51	110 36	82 48	108 34	74 2.72 78	70 1.77 48	125 60 31	119 25.7 73	97 7.0 48	101 107 51	117 44.1 36	111 174 34	106 -83 35	117 24.6 38	95 -2.2 32	106 -3.8 16	91 32.2 48	114 31 38	112 43 37	107 1.01 35	91 -0.94 32	100 -0.29 31
GG 240025 97523237 GG 240025				3	WDW 200174 GG 160034	95 68	112 72	97 48	92 28	92 34	93 50	110 21	95 44	109 22	96 1.06 78	99 0.62 47	108 42 28	112 23.2 72	97 7.2 48	104 113 49	111 40.2 29	108 163 23	105 -82 17	111 21.7 25	93 -1.1 33	93 -1.9 20	100 36.4 48	115 32 25	112 42 25	110 1.27 22	108 0.71 21	104 -0.12 20
GG 240029 97523278 GG 240029				10	GG 210012 GG 210020	102 64	94 68	98 44	109 32	93 32	102 48	95 25	102 43	93 27	99 0.87 74	108 0.22 41	90 23 32	94 15.3 68	98 7.5 44	98 100 48	96 30.2 34	92 104 28	89 -61 20	93 12.7 30	99 -5.0 31	89 -1.2 20	102 37.2 44	91 17 31	93 24 30	93 -0.04 28	93 -0.70 26	92 -0.65 26
GG 240031 97523294 GG 240031				3	WDW 200174 GG 170039	84 68	110 73	98 48	100 29	96 33	86 50	104 20	87 44	105 22	86 1.77 78	96 0.75 45	99 33 29	110 22.0 73	98 7.4 48	106 118 50	109 38.6 29	103 145 23	101 -76 17	107 19.7 25	95 -2.2 33	94 -2.1 20	109 40.4 47	110 29 25	107 38 24	106 0.93 22	109 0.86 21	103 -0.14 20
GG 240046 97523419 GG 240046				3	WDW 200174 GG 190047	113 67	102 71	107 49	104 31	99 33	116 50	109 21	117 44	107 22	113 -0.21 77	102 0.49 46	95 28 31	102 18.7 71	107 9.9 49	110 126 50	101 33.6 28	108 163 24	104 -81 17	114 23.1 26	94 -1.7 33	99 -2.8 20	116 43.1 46	112 30 26	109 40 25	107 1.04 23	104 0.30 22	103 -0.13 21

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ID Number Name																														
GG 240047 97791701 GG 240047	3	WDW 180025 GG 180039		69 70	126 73	104 55	78 37	108 37	87 54	111 21	89 47	118 22	76 2.51 77	79 1.43 54	124 59 37	126 28.9 73	104 9.0 55	112 131 55	124 48.8 32	110 171 24	112 -90 17	113 22.7 26	96 -3.2 38	115 -5.1 22	105 38.5 52	121 36 26	122 52 25	120 1.99 22	108 0.78 21	111 0.22 21
GG 240050 97523443 GG 240050	4	GG 210012 GG 210053		91 63	107 68	97 43	88 28	96 27	91 46	99 22	91 41	102 22	90 1.53 74	103 0.45 40	113 47 28	107 21.1 68	97 7.0 43	98 99 46	107 37.2 26	97 121 24	94 -68 18	97 14.5 26	97 -3.8 25	95 -2.1 14	104 37.8 42	102 24 26	105 36 25	99 0.46 23	102 0.14 21	105 -0.07 21
GG 240055 97523922 GG 240055	1	GG 210012 GG 210046		105 63	103 68	91 43	105 28	97 27	100 46	95 21	100 41	97 22	99 0.81 74	115 -0.03 39	95 29 28	103 19.2 68	91 5.5 43	97 98 46	100 33.1 26	93 106 23	91 -64 17	96 14.0 25	101 -6.1 26	93 -1.9 13	102 37.1 41	96 20 25	99 30 25	95 0.14 22	105 0.43 21	104 -0.07 20
GG 240056 97523930 GG 240056	3	WDW 200174 GG 160037		90 68	110 73	97 48	100 28	96 33	90 50	102 22	91 44	102 22	95 1.14 78	90 0.98 47	100 34 28	110 22.2 73	97 7.0 48	105 116 50	108 38.4 29	100 134 24	101 -76 18	106 18.8 26	99 -5.0 33	92 -1.7 20	106 38.7 47	106 26 26	105 35 26	108 1.07 23	102 0.15 22	102 -0.19 21
GG 240059 97523948 GG 240059	4	GG 210012 GG 210067		86 63	112 68	98 43	100 29	99 28	89 47	104 22	90 42	106 22	87 1.73 74	98 0.63 40	100 33 29	112 23.2 68	98 7.4 43	108 122 47	111 40.2 28	101 137 24	98 -72 18	103 17.6 26	97 -3.6 26	98 -2.6 15	107 39.4 42	105 25 26	108 38 26	104 0.82 23	103 0.27 22	105 -0.04 21
GG 240064 97811053 GG 240064	3	WDW 200174 GG 200053		92 65	108 70	96 45	102 28	90 34	88 48	103 20	89 42	103 21	93 1.27 75	98 0.65 42	98 31 28	108 21.2 70	96 6.7 45	103 112 48	104 35.8 28	102 139 22	99 -73 17	111 21.3 24	89 1.9 37	92 -1.6 20	106 38.7 46	107 27 25	106 36 24	105 0.85 22	107 0.64 20	101 -0.24 20
GG 240069 97523971 GG 240069	2	WDW 180025 GG 200057		80 68	121 72	100 52	76 39	113 38	94 54	115 20	97 47	121 22	71 2.91 76	105 0.36 51	126 61 39	121 27.0 72	100 7.9 52	105 116 54	121 46.2 32	114 186 23	113 -92 17	115 23.4 25	103 -7.6 40	118 -5.7 23	103 37.7 52	122 36 25	123 53 24	119 1.95 22	114 1.38 21	114 0.41 20
GG 240070 97523989 GG 240070	3	WDW 200174 GG 190055		86 67	108 71	105 49	97 34	94 33	90 51	109 22	92 45	108 22	88 1.66 76	97 0.69 46	102 35 34	108 21.4 71	105 9.3 49	110 126 51	108 38.1 29	108 164 23	105 -81 18	112 21.8 25	92 -0.4 33	93 -1.8 20	112 41.6 46	116 32 26	114 44 25	110 1.26 23	104 0.35 21	101 -0.23 21
GG 240074 97523997 GG 240074	3	WDW 200174 GG 180041		117 87	97 85	100 84	116 83	97 67	119 80	112 82	120 80	111 82	109 0.11 89	121 -0.30 84	83 17 83	97 16.8 85	100 7.9 84	105 116 84	95 29.9 55	113 180 82	98 -73 82	121 26.6 82	95 -2.0 35	98 -2.5 82	105 38.6 84	110 28 82	114 45 82	114 1.58 82	113 1.28 82	92 -0.68 82
GG 250002 99166795 GG250002		7110ET GG 190050		112 69	97 68	80 57	111 44	91 42	97 55	94 34	96 51	96 34	98 0.89 74	133 -0.76 57	90 24 44	97 16.8 68	80 2.3 57	85 71 56	90 26.8 40	96 120 39	93 -66 25	93 12.3 42	99 -5.1 44	84 -0.4 27	107 39.3 54	100 22 43	100 30 42	95 0.13 36	100 -0.06 33	95 -0.52 33
GG 250006 99166753 GG250006		190Z GG 190020		80 69	114 71	98 56	91 41	88 36	79 54	109 34	81 50	114 34	84 1.95 76	91 0.95 55	109 43 41	114 23.8 71	98 7.4 56	105 116 56	111 39.9 34	111 175 35	105 -82 31	110 21.0 37	84 5.6 37	93 -1.8 21	109 40.0 51	111 29 39	118 49 38	113 1.50 36	103 0.30 33	119 0.61 32
GG 250010 99166761 GG250010		190Z GG 190049		80 70	140 71	80 56	94 43	81 40	66 56	127 36	72 52	131 36	65 3.37 76	104 0.41 56	108 42 43	140 34.9 71	80 2.1 56	110 128 57	133 53.9 39	128 238 38	117 -97 32	126 28.8 40	74 12.2 42	94 -2.0 25	99 35.6 54	127 39 42	136 66 41	130 2.78 38	105 0.41 35	128 1.07 35

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GG 250013 99073207 GG250013	3	WDW 200174 GG 180031	104 65	100 69	85 49	96 35	93 34	91 50	98 22	91 44	97 23	98 0.90 74	114 0.01 47	105 38 35	100 18.0 69	85 3.5 49	86 73 51	98 31.8 30	98 127 25	101 -76 18	104 17.9 27	95 -2.2 34	92 -1.7 21	102 36.9 47	103 24 27	95 26 27	93 -0.05 24	107 0.60 22	99 -0.36 22	
GG 250017 99073231 GG250017	3	WDW 180025 GG 180017	82 70	111 74	82 55	97 40	105 36	80 55	92 25	80 49	99 24	70 2.98 78	110 0.16 53	105 38 40	111 22.4 74	82 2.7 55	91 85 56	109 39.1 28	92 105 26	95 -69 22	93 12.6 28	101 -6.6 37	105 -3.6 20	105 38.3 51	101 23 29	103 34 28	100 0.49 24	108 0.76 23	115 0.45 22	
GG 250023 99073256 GG250023	2	WDW 180025 GG 170058	77 70	128 72	98 51	74 33	103 37	86 52	116 20	89 46	121 21	80 2.27 78	94 0.80 54	129 64 33	128 29.6 72	98 7.4 51	107 120 52	125 49.0 31	113 183 23	112 -90 17	122 26.8 24	91 0.3 38	115 -5.3 22	96 34.6 52	119 34 25	121 51 24	119 1.96 22	113 1.27 20	122 0.76 20	
GG 250028 99073298 GG250028	3	WDW 200174 GG 220057	94 64	111 69	98 42	98 27	103 30	97 47			111 18	91 1.46 75	108 0.24 39	101 35 27	111 22.8 69	98 7.5 42	107 120 46	109 39.0 22	108 162 19	105 -82 15	114 23.1 21	97 -3.4 31	105 -3.7 17	110 40.8 43	117 33 21	115 45 20	112 1.40 18	114 1.37 17	107 0.06 16	
GG 250036 99073355 GG250036	1	WDW 200174 GG 220050	107 65	112 70	95 42	89 27	98 29	103 47			106 16	107 0.26 76	103 0.46 41	112 46 27	112 23.2 70	95 6.4 42	100 105 46	108 38.4 20	102 140 18	102 -78 15	108 20.0 20	94 -1.2 29	100 -2.9 15	110 40.7 42	114 31 21	110 40 20	106 0.99 17	112 1.15 16	108 0.12 15	
GG 250038 99073371 GG250038	3	WDW 200174 GG 180034	82 67	92 72	101 49	104 34	95 33	88 51	93 20	87 45	91 22	75 2.62 77	111 0.14 46	95 28 34	92 14.6 72	101 8.4 49	97 99 52	96 30.5 28	92 104 23	92 -65 17	98 15.0 25	102 -6.7 33	87 -0.9 20	111 40.9 47	97 21 25	93 24 24	94 0.04 22	103 0.24 21	93 -0.61 20	
GG 250044 99073413 GG250044	3	WDW 180025 GG 180039	70 70	132 73	100 55	76 37	108 37	84 54	115 21	87 47	122 22	64 3.46 77	82 1.32 54	127 62 37	132 31.6 73	100 7.9 55	112 131 55	131 52.7 32	114 185 24	114 -94 17	117 24.5 26	95 -2.1 38	116 -5.4 22	106 38.7 52	125 38 26	126 57 25	124 2.30 22	109 0.82 21	112 0.30 21	
GG 250047 99073447 GG250047	3	WDW 200174 GG 190055	101 67	107 71	108 49	98 34	94 33	103 51	109 22	104 45	108 22	105 0.39 77	91 0.93 46	101 35 34	107 20.8 71	108 10.3 49	111 130 51	106 36.6 29	108 162 23	104 -81 18	111 21.6 25	93 -0.5 33	93 -1.8 20	113 41.8 46	115 32 26	113 44 25	109 1.21 23	104 0.34 21	101 -0.24 21	
GG 250052 99168171 GG 250052	2	WDW 180025 GG 180025	93 69	109 62	110 53	80 34	106 37	105 50	107 20	106 44	111 22	93 1.26 76	100 0.57 53	121 55 34	109 21.6 62	110 11.0 53	106 119 50	110 39.6 32	106 154 23	108 -85 16	107 19.3 25	99 -5.1 38	113 -4.8 22	95 34.2 51	112 30 25	112 43 25	110 1.23 22	112 1.10 21	111 0.26 20	
GG 250054 99168205 GG 250054	2	WDW 180025 GG 200052	77 68	115 55	99 44	79 31	101 34	86 46	102 20	87 41	108 20	78 2.43 76	99 0.61 50	123 57 31	115 24.2 55	99 7.7 44	101 107 43	114 42.1 26	102 141 21	106 -83 17	105 18.5 23	94 -1.2 35	108 -4.2 19	99 36.0 48	111 29 23	110 41 23	107 1.00 20	109 0.83 19	113 0.33 19	
GG 250055 99168213 GG 250055	3	WDW 200174 GG 180038	109 67	99 59	102 47	95 35	92 33	106 48	99 22	105 43	98 22	111 -0.04 77	96 0.74 46	105 39 35	99 17.3 59	102 8.5 47	99 101 47	98 31.8 29	98 125 23	97 -71 18	101 16.6 25	96 -2.8 33	90 -1.3 20	105 38.6 45	105 25 26	101 32 25	99 0.47 23	103 0.28 21	98 -0.40 21	
GG 250060 99168254 GG 250060	1	WDW 200174 GG 210023	98 64	105 57	95 39	105 25	95 31	97 43			100 16	97 1.01 75	104 0.43 40	95 28 25	105 19.9 57	95 6.5 39	102 108 40	103 35.0 21	96 117 18	96 -70 15	101 16.3 20	90 1.1 35	102 -3.2 17	100 36.1 42	102 24 20	101 32 20	97 0.29 17	114 1.30 15	109 0.14 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																														
GG 250061 99168262 GG 250061	3	WDW 180025 GG 200065	87 68	107 61	95 50	91 37	105 38	93 50	102 22	93 44	103 22	83 1.99 76	108 0.23 52	110 44 37	107 21.0 61	95 6.4 50	97 98 49	107 37.3 32	102 141 25	107 -84 19	97 14.6 26	103 -7.5 40	110 -4.5 24	87 30.3 51	110 29 27	106 37 26	112 1.41 23	96 -0.46 22	107 0.05 22	
GG 250063 99168270 GG 250063		WDW 200174 GG 200034	79 65	114 58	105 43	103 31	97 28	90 45			105 16	88 1.65 76	70 1.77 42	96 29 31	114 24.0 58	105 9.3 43	117 142 44	110 39.4 18	103 143 17	100 -75 13	110 21.1 19	93 -1.1 27	100 -2.9 14	106 38.8 42	107 27 20	108 39 19	104 0.79 17	111 1.09 15	105 -0.03 15	
GG 260002 6020748254 GG260002	3	WDW 200174 GG 230032	97 64	114 58	97 39	92 25	100 29	98 43			109 18	100 0.79 75	95 0.76 39	108 42 25	114 24.0 58	97 7.0 39	104 115 41	111 40.4 22	104 149 19	105 -81 16	111 21.6 21	96 -2.8 30	103 -3.4 17	102 37.1 41	114 31 22	112 43 21	112 1.40 18	111 1.00 17	109 0.13 17	
GG 260003 6020748262 GG260003	3	WDW 200174 GG 230057	90 64	104 57	103 39	97 26	98 29	95 43			101 18	91 1.41 75	97 0.70 39	102 36 26	104 19.8 57	103 8.7 39	105 115 41	104 35.5 22	98 126 19	99 -74 16	106 18.9 21	95 -2.4 30	101 -3.0 17	104 38.1 41	110 29 22	106 36 21	104 0.79 18	110 0.95 17	103 -0.13 17	
GG 260005 6020748270 GG260005	3	WDW 200174 GG 230019	97 64	110 57	107 38	91 26	98 29	103 43			112 18	99 0.83 75	95 0.78 39	109 43 26	110 22.2 57	107 9.9 38	109 125 40	109 38.8 22	109 165 19	107 -85 15	115 23.3 21	94 -1.5 30	104 -3.5 17	97 34.9 41	118 34 21	116 46 21	113 1.46 18	112 1.11 17	108 0.11 16	
GG 260006 6020748288 GG260006	1	WDW 200174 GG 230016	89 63	105 57	87 37	105 27	91 28	82 42	97 26	82 39	96 23	86 1.81 75	107 0.27 38	95 28 27	105 20.1 57	87 4.1 37	95 93 40	104 35.5 25	98 124 24	95 -69 24	105 18.4 27	94 -1.7 29	89 -1.2 16	102 37.3 40	106 26 28	101 32 27	98 0.36 24	98 -0.22 22	101 -0.25 22	
GG 260008 6020748304 GG260008	2	WDW 200174 GG 230007	96 64	107 57	100 38	103 22	95 28	98 42	103 22	98 38	106 25	96 1.09 75	103 0.46 39	96 29 22	107 20.8 57	100 7.8 38	107 120 39	103 34.8 26	102 142 26	99 -74 15	106 18.9 28	99 -5.1 29	91 -1.5 15	104 37.9 40	106 26 29	108 38 28	105 0.90 26	104 0.37 24	100 -0.30 23	
GG 260009 6020748312 GG260009	3	WDW 200174 GG 230002	101 64	105 57	91 38	98 25	95 29	94 42	100 22	94 38	101 26	98 0.95 75	109 0.19 39	102 36 25	105 20.1 57	91 5.3 38	95 95 40	102 34.0 27	99 131 27	98 -73 15	103 17.6 29	98 -4.4 31	91 -1.6 17	105 38.3 40	101 23 30	100 30 29	98 0.38 27	104 0.35 25	96 -0.46 24	
GG 260010 6020748320 GG260010	3	WDW 200174 GG 230004	115 64	101 57	97 38	100 24	96 29	109 42	101 22	109 38	104 26	115 -0.31 75	103 0.47 39	99 33 24	101 18.2 57	97 7.0 38	98 101 40	97 31.0 27	100 135 27	97 -72 15	104 17.9 29	99 -5.0 30	91 -1.6 16	108 39.9 40	102 24 29	104 35 28	103 0.72 27	104 0.38 25	98 -0.40 24	
GG 260015 6020748361 GG260015	3	WDW 200174 GG 180031	114 68	93 59	89 48	98 35	92 33	102 48	96 22	101 43	94 23	110 0.02 77	112 0.10 47	103 37 35	93 15.1 59	89 4.6 48	84 69 47	92 27.7 30	96 119 25	99 -74 18	102 16.8 27	96 -2.5 34	92 -1.7 21	96 34.5 45	100 23 27	93 23 27	90 -0.23 24	106 0.57 22	98 -0.40 22	
GG 260018 6020748387 GG260018		WDW 200174 GG 160022	121 69	87 59	93 48	110 23	107 35	114 46			91 18	115 -0.35 78	116 -0.06 48	89 23 23	87 12.5 59	93 5.9 48	88 78 43	84 22.8 23	95 113 19	97 -72 14	98 15.0 21	110 -12.7 37	103 -3.3 21	96 34.2 46	102 23 22	95 25 21	93 -0.01 18	106 0.51 17	103 -0.14 16	
GG 260022 6020748429 GG260022	3	WDW 200174 GG 190049	112 66	98 58	113 45	105 31	86 33	112 46	100 21	112 41	100 21	117 -0.50 76	89 1.03 45	93 26 31	98 17.1 58	113 11.8 45	113 134 45	96 30.5 28	100 133 23	98 -72 17	106 18.9 25	89 1.9 33	90 -1.4 20	92 32.8 45	105 26 25	103 34 24	100 0.53 22	107 0.68 20	105 -0.05 20	

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ID Number Name				Calv.	Ease	V	Calf Growth	V	Milk	V	Maint.	V	Fertility	V	Cow Value	Growth Value	Prod. Value	Carcass Value	Birth wt	dir	Birth mat	Mature wt	Wean wt	Wean mat	Cow-Calf Ratio (Wean)	Postwean wt	ADG	FCR	Scrotal Circ.	Heifer Fertility	Cow Fertility	Longevity	Height	Length	EMA	Fat	Marbling										
GG 260026 6020748445 GG260026	2	WDW 200174 GG 190020		79	66	117	58	112	46	86	27	93	28	88	44		109	16	88	79	1.67	1.42	113	47	117	25.0	112	11.3	116	141	42.1	157	-78	22.2	1.5	-2.5	37.9	113	113	109	109	105	1.18	0.80	-0.04		
GG 260027 6020748452 GG260027	3	WDW 200174 GG 180039		96	68	102	60	108	49	103	32	92	33	101	48	97	22	100	43	98	22	103	0.56	1.22	95	29	102	18.6	108	10.3	110	127	33.3	122	-72	17.8	-1.1	-1.5	39.3	106	103	102	102	96	0.66	0.16	-0.50
GG 260028 6020748460 GG260028	3	WDW 200174 GG 180038		100	67	102	59	99	47	95	35	92	33	98	48	99	22	98	43	98	22	102	0.64	0.65	105	39	102	18.9	99	7.8	99	103	34.2	125	-71	16.6	-2.8	-1.3	38.6	105	101	99	103	98	0.47	0.28	-0.40
GG 260030 6020748478 GG260030	1	WDW 200174 GG 220050		92	65	114	58	91	42	91	27	97	28	88	44		103	16	88	109	1.65	0.20	109	43	114	23.9	91	5.4	99	103	40.1	129	-75	18.6	-1.6	-2.9	38.5	110	106	103	112	107	0.74	1.11	0.05		
GG 260032 6020748494 GG260032	3	WDW 200174 GG 160036		87	69	103	59	98	48	105	31	93	33	90	47	96	20	89	42	96	22	90	1.52	0.83	94	27	103	19.2	98	7.4	103	112	34.4	116	-68	16.4	-3.6	-1.5	36.3	101	98	96	106	97	0.24	0.52	-0.41
GG 260033 6020748502 GG260033		WDW 200174 GG 190021		100	67	110	59	87	46	99	34	85	30	86	47	98	23	86	42	101	22	96	1.05	0.21	101	35	110	22.0	87	4.3	96	96	35.4	128	-71	18.5	4.2	-0.8	39.3	107	106	100	109	110	0.54	0.86	0.18
GG 260035 6020748528 GG260035	3	WDW 200174 GG 170058		97	68	106	55	100	44	101	27	88	33	95	44	99	20	95	39	99	21	97	1.02	0.49	99	32	106	20.6	100	8.0	106	118	35.4	125	-70	20.8	1.6	-1.5	34.5	101	99	99	107	106	0.43	0.62	-0.02
GG 260038 6020748544 GG260038	1	WDW 200174 GG 210025		79	66	119	58	85	44	88	31	103	30	79	45		98	16	64	102	3.40	0.49	114	48	119	25.8	85	3.7	96	96	42.1	107	-67	18.2	-6.7	-3.2	37.4	104	101	99	114	106	0.40	1.34	0.00		

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ID Number Name																													
GG 160022 83692707 GG160022	2	P43145081 GG 090038	122 84	73 78	83 78	115 29	125 52	102 61			79 21	109 0.13 86	133 -0.76 80	86 19 29	73 6.7 78	83 3.1 78	70 37 62	71 14.3 34	87 84 23	95 -69 12	82 7.2 24	131 -27.1 58	114 -5.1 32	91 32.2 67	88 15 27	80 12 27	80 -0.97 22	98 -0.28 20	103 -0.13 20
GG 160029 84600345 GG160029		BH 100032 GG 070056	98 85	102 78	106 79	90 46	98 49	104 65	102 28	104 58	101 32	97 0.96 86	102 0.50 82	109 43 46	102 18.8 78	106 9.8 79	103 111 68	101 33.9 48	102 139 34	100 -75 22	102 17.0 36	99 -4.9 47	99 -2.8 31	98 35.1 68	96 20 36	99 30 35	97 0.27 33	99 -0.18 31	106 0.00 31
GG 160036 84600394 GG160036	2	BH 100032 GG 110002	73 84	102 77	95 79	105 49	97 49	81 66	89 29	79 59	88 32	66 3.28 85	87 1.09 81	94 28 49	102 18.7 77	95 6.6 79	100 104 68	104 35.4 49	89 91 34	89 -62 22	88 10.0 36	105 -8.9 48	91 -1.5 32	100 36.4 68	87 15 36	87 18 36	87 -0.46 33	98 -0.24 31	92 -0.68 31
GG 170039 85929560 GG170039	1	BH 100032 GG 110012	75 80	102 78	99 78	104 45	101 49	86 64	92 29	85 57	93 32	63 3.52 82	94 0.83 75	95 29 45	102 19.0 78	99 7.7 78	103 112 67	106 37.0 50	92 103 34	93 -66 22	89 10.7 36	104 -8.5 48	94 -2.1 32	110 40.6 67	92 18 36	92 23 36	92 -0.12 33	104 0.31 32	98 -0.40 31
GG 170058 85929727 GG170058	2	BH 100032 GG 130045	106 81	97 64	108 70	95 40	87 48	105 58	96 28	104 52	95 32	108 0.20 83	97 0.69 77	104 38 40	97 16.8 64	108 10.1 70	103 110 58	96 30.4 48	93 109 34	92 -64 22	106 18.8 35	90 1.4 47	91 -1.5 31	92 32.8 65	88 15 36	90 21 35	92 -0.09 33	100 -0.05 31	108 0.11 31
GG 180004 89903876 GG180004	1	BH 100032 GG 110022	115 81	91 77	92 79	83 49	95 49	104 65	99 30	104 58	95 33	105 0.41 83	126 -0.49 77	119 53 49	91 14.1 77	92 5.8 79	80 61 68	93 28.7 50	95 116 35	97 -72 23	92 12.0 38	103 -7.9 48	90 -1.4 32	97 34.9 67	96 20 38	94 24 37	94 0.09 34	100 -0.06 32	96 -0.47 32
GG 180006 87162855 GG180006	1	BH 100032 GG 130034	115 82	83 77	85 79	87 57	89 48	89 67	88 29	87 59	86 33	105 0.41 84	145 -1.25 78	116 50 57	83 10.9 77	85 3.5 79	70 38 71	82 21.1 48	86 80 35	88 -59 22	88 10.2 37	99 -5.2 47	84 -0.4 31	97 34.8 66	87 14 37	87 18 36	83 -0.74 34	99 -0.18 32	94 -0.59 32
GG 180017 88219696 GG180017		190Z GG 070032	88 81	94 78	65 80	132 60	89 44	76 67	74 42	73 62	78 38	71 2.87 83	125 -0.46 76	73 6 60	94 15.3 78	65 -2.3 80	74 46 73	91 27.4 40	77 46 42	76 -44 38	73 2.2 44	100 -5.6 43	78 0.4 27	112 41.5 63	78 9 46	83 14 44	80 -1.01 40	92 -0.82 37	106 0.00 36
GG 180025 87288668 GG180025	2	BH 100032 GG 110032	131 80	80 78	126 77	94 42	94 49	112 63	101 30	112 56	99 33	130 -1.45 83	104 0.42 75	103 37 42	80 9.5 78	126 15.5 77	105 116 66	84 22.6 48	100 134 35	100 -76 22	96 14.2 37	98 -4.5 48	92 -1.6 32	101 36.9 66	98 21 37	98 29 36	96 0.23 34	99 -0.17 32	97 -0.45 32
GG 180031 87288692 GG180031	1	BH 100032 GG 080074	100 82	89 79	71 80	90 58	95 50	78 68	90 33	77 61	85 37	89 1.60 84	127 -0.54 78	113 47 58	89 13.5 79	71 -0.3 80	65 26 72	90 26.6 52	90 96 40	98 -73 24	90 10.8 42	102 -6.8 50	92 -1.7 34	92 32.8 66	85 13 42	76 8 42	74 -1.40 38	99 -0.14 36	92 -0.67 36
GG 180037 87288734 GG180037		BH 100032 BG 030018	121 82	98 78	115 78	140 49	106 51	141 66	112 29	142 59	117 32	114 -0.29 84	118 -0.17 77	67 0 49	98 16.9 78	115 12.4 78	130 171 68	96 30.5 48	111 174 34	108 -85 23	113 22.6 36	101 -6.3 53	111 -4.7 33	92 32.4 67	115 31 36	117 48 35	111 1.36 32	126 2.54 31	114 0.41 31
GG 180038 87288742 GG180038	1	BH 100032 GG 130030	101 82	95 78	102 77	84 58	96 49	101 67	95 31	100 60	93 34	104 0.44 84	92 0.88 77	117 51 58	95 15.7 78	102 8.5 77	91 85 71	97 31.3 50	93 109 36	94 -67 24	89 10.4 38	102 -7.3 48	88 -1.1 32	110 40.9 66	94 19 39	94 24 38	93 -0.02 35	93 -0.73 33	92 -0.65 33

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ID Number Name																													
GG 180039 87288759 GG180039	1	BH 100032 GG 140030	86 82	98 80	116 81	100 51	96 49	94 67	91 31	93 60	92 34	95 1.13 84	67 1.91 78	98 31	98 17.1 80	116 12.7 81	113 134 71	99 32.4 50	92 103 36	95 -68 24	94 12.8 38	98 -4.1 48	91 -1.5 32	114 42.3 66	98 21 39	98 28 38	98 0.38 35	91 -0.98 33	88 -0.86 33
GG 190015 88989447 GG190015		190Z GG 130012	99 80	96 76	53 74	104 55	95 41	68 64	78 38	65 59	80 38	87 1.72 83	130 -0.63 75	99 33 55	96 16.1 76	53 -5.8 74	57 9 68	92 27.8 36	80 60 39	82 -52 32	79 5.4 42	96 -3.1 40	91 -1.5 22	115 42.9 61	82 11 44	82 13 43	80 -0.95 40	97 -0.37 37	102 -0.18 36
GG 190020 88856166 GG190020		GG 160033 GG 160014	89 79	115 75	132 74	68 36	97 34	97 58			115 18	98 0.91 82	52 2.53 71	133 68 36	115 24.2 75	132 17.4 74	122 154 62	114 41.7 26	111 173 19	106 -82 13	111 21.5 20	90 1.2 28	103 -3.3 18	108 39.6 56	110 29 20	117 47 20	112 1.41 18	104 0.31 17	107 0.06 17
GG 190021 88989462 GG190021		190Z GG 130034	92 80	112 77	76 75	93 56	81 41	70 65	94 35	71 59	98 34	86 1.81 83	116 -0.08 75	109 43 56	112 23.1 77	76 1.0 75	86 73 69	104 35.7 34	95 114 35	93 -67 31	96 14.1 38	82 6.5 39	81 0.0 22	114 42.5 61	99 22 40	104 35 39	95 0.14 36	105 0.43 33	116 0.50 32
GG 190047 90004813 GG190047		BH 100032 GG 130020	108 82	109 78	109 79	102 49	108 48	116 65	115 31	118 58	112 36	107 0.23 84	103 0.46 77	96 30 49	109 21.8 78	109 10.7 79	117 142 69	110 39.2 48	114 184 37	109 -87 23	115 23.4 39	97 -3.7 48	109 -4.2 31	123 46.5 65	108 27 39	110 41 39	109 1.18 36	94 -0.68 35	104 -0.10 34
GG 190049 89170195 GG190049		BH 100032 GG 100010	97 80	98 75	122 72	105 48	84 47	101 63	98 30	101 56	97 32	106 0.32 83	81 1.35 74	93 26 48	98 17.1 75	122 14.2 72	120 150 65	97 31.3 48	98 125 35	96 -70 23	98 14.9 37	89 2.0 46	89 -1.1 31	85 29.4 65	95 19 36	97 28 35	95 0.10 33	101 0.07 31	107 0.03 31
GG 190050 89898555 GG190050		BH 100032 GG 070056	109 82	108 78	77 78	97 54	100 48	94 66	103 28	95 58	102 32	98 0.90 84	127 -0.52 77	104 38 54	108 21.4 78	77 1.4 78	86 73 70	103 35.1 48	102 140 34	100 -75 22	102 17.1 36	99 -4.7 47	100 -2.8 31	107 39.4 66	96 20 36	99 30 35	98 0.37 33	99 -0.16 31	106 0.02 31
GG 190055 89170237 GG190055	1	BH 100032 GG 140030	96 81	93 78	121 79	101 56	97 48	101 67	96 31	101 60	94 34	103 0.58 83	85 1.17 76	96 30 56	93 14.8 78	121 13.9 79	113 135 71	97 30.9 50	95 116 36	96 -70 24	92 11.9 38	101 -6.2 48	89 -1.3 32	117 43.7 65	97 21 39	97 28 38	95 0.15 35	93 -0.77 33	92 -0.68 33
GG 200033 90704636 GG200033		2214 GG 160010	103 76	90 75	80 71	98 46	90 29	83 59			77 8	99 0.84 80	111 0.13 66	103 36 46	90 13.6 75	80 2.3 71	75 48 64	79 19.5 12	74 35 10		80 6.0 11	96 -3.0 23	87 -0.9 9	100 36.1 55	67 2 11	76 7 11	70 -1.73 9	113 1.26 8	107 0.03 8
GG 200041 90674052 GG200041	13	BH 100032 GG 120022	118 89	72 89	97 88	138 85	100 73	103 83	72 82	99 83	78 83	109 0.09 90	122 -0.31 87	68 1 85	72 6.3 89	97 7.0 88	88 79 87	71 14.3 67	73 31 83	82 -52 82	81 6.3 83	115 -16.1 50	81 0.1 82	115 43.0 86	72 5 83	75 6 83	80 -0.96 83	80 -2.00 83	56 -2.40 82
GG 200065 90674243 GG200065	13	BH 100032 GG 120013	109 89	81 88	91 86	118 84	92 74	95 82	92 82	93 82	82 82	99 0.82 90	123 -0.37 87	82 15 84	81 10.1 88	91 5.5 86	85 71 86	81 20.8 67	93 108 82	98 -72 81	78 4.8 82	105 -9.3 54	87 -0.9 82	84 29.1 86	93 18 82	86 17 82	101 0.58 82	67 -3.28 82	88 -0.87 82
GG 210010 92827435 GG210010		NJW79Z GG 150064	117 74	89 75	98 68	99 47	82 32	100 59	88 36	98 54	87 38	107 0.23 80	125 -0.43 62	101 35 47	89 13.5 75	98 7.3 68	90 82 63	88 25.3 40	84 73 39	79 -49 28	87 9.6 43	88 2.3 30	80 0.2 13	107 39.1 54	86 14 44	88 19 42	82 -0.80 39	97 -0.30 36	98 -0.39 35

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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																														
GG 210023		WDW 180025	82	106	89	103	102	85			96	79	107	97	106	89	89	97	106	89	93	88	91	112	99	89	94	88	114	114
92552173		GG 140017	73	73	54	35	44	55			16	2.32	0.28	30	20.3	4.8	97	36.9	92	-66	9.8	0.4	-4.8	35.9	16	25	-0.37	1.32	0.41	
GG210023												79	61	35	73	54	54	30	20	14	22	53	21	58	22	22	17	16	15	
GG 210025		WDW 180025	75	115	82	71	117	81			92	59	93	135	115	82	84	110	84	88	95	114	113	105	93	93	91	115	109	
92552199		GG 130042	77	76	69	48	42	61			14	3.77	0.86	69	24.3	2.7	70	39.6	73	-59	13.6	-15.2	-4.8	38.5	18	24	-0.14	1.39	0.14	
GG210025												81	69	48	76	69	64	24	17	13	18	50	18	57	18	18	15	14	13	
GG 220032	1	WDW 180045	101	112	93	97	103	99	113	101	109	98	107	103	112	93	102	110	111	109	109	94	106	114	109	109	112	93	100	
94074689		GG 190047	74	73	61	41	38	57	22	50	24	0.90	0.28	37	22.8	6.1	109	39.6	175	-86	20.4	-1.8	-3.8	42.3	28	40	1.39	-0.76	-0.27	
GG220032												79	62	41	73	61	58	32	25	18	27	34	23	56	27	27	24	23	23	
GG 220041		WDW 180025	80	109	105	91	120	99			109	72	104	109	109	105	108	108	102	103	101	110	121	108	112	112	104	119	113	
94072451		GG 140005	74	74	57	34	38	55			15	2.81	0.41	43	21.9	9.4	122	38.0	140	-79	16.6	-12.6	-6.1	39.6	30	43	0.80	1.80	0.33	
GG220041												80	61	34	74	57	55	26	18	14	19	40	19	55	20	19	16	14	14	
GG 220050		WDW 180025	87	117	87	78	106	86			102	82	114	126	117	87	92	114	95	100	97	99	108	110	106	103	100	110	111	
94072287		GG 150064	75	75	62	37	36	56			18	2.13	0.02	60	24.9	4.1	86	42.0	116	-75	14.3	-4.9	-4.2	40.8	26	34	0.53	0.94	0.25	
GG220050												80	64	37	75	62	58	26	21	14	22	35	18	55	23	22	18	17	17	
GG 230002		WDW 190009	89	106	81	91	101	81	97	82	99	82	118	111	106	81	85	103	96	97	93	107	91	109	86	91	91	94	90	
96364302		GG 180031	72	72	55	34	37	53	32	49	44	2.13	-0.18	45	20.5	2.4	71	34.7	119	-72	12.4	-10.6	-1.6	40.4	14	22	-0.19	-0.59	-0.78	
GG230002												78	59	34	72	55	54	45	46	17	48	40	21	51	49	48	46	43	41	
GG 230004		WDW 190009	93	108	86	96	103	88	99	88	104	89	111	105	108	86	92	104	98	95	94	109	91	116	89	99	100	95	92	
96364286		GG 190039	72	72	54	30	37	52	32	48	44	1.60	0.11	39	21.3	3.8	87	35.4	127	-69	12.9	-11.7	-1.6	43.5	16	30	0.50	-0.52	-0.67	
GG230004												78	58	30	72	54	52	44	44	16	47	40	20	51	47	47	45	42	40	
GG 230007	1	WDW 190009	86	107	100	101	101	92	104	93	108	84	104	98	107	100	106	102	103	98	98	109	90	108	96	107	104	95	96	
96364278		GG 140020	73	72	54	23	35	51	29	47	42	1.92	0.41	32	20.8	8.1	118	34.5	143	-73	15.0	-12.1	-1.4	39.6	20	37	0.84	-0.55	-0.47	
GG230007												80	59	23	72	54	50	40	42	13	45	36	17	51	45	45	43	40	37	
GG 230008	1	WDW 190009	113	101	97	95	103	110	99	109	101	111	105	105	101	97	97	98	97	94	92	111	90	115	89	100	99	89	90	
96364260		GG 170023	72	73	55	32	38	53	34	49	44	-0.08	0.38	39	18.6	7.1	97	31.6	123	-67	11.9	-12.9	-1.3	43.0	16	30	0.43	-1.13	-0.78	
GG230008												79	58	32	73	55	53	45	46	19	49	41	22	52	49	48	46	43	41	
GG 230016	2	WDW 190063	82	100	77	104	93	73	91	72	88	74	111	97	100	77	82	101	93	91	96	99	87	105	97	94	90	83	99	
96270632		GG 180017	72	73	51	39	35	54	41	51	38	2.71	0.14	30	17.8	1.3	64	33.7	107	-63	14.0	-5.1	-0.9	38.3	21	25	-0.23	-1.73	-0.36	
GG230016												79	56	39	73	51	54	40	39	40	42	36	20	50	43	42	39	36	35	
GG 230017	5	GG 210009	93	93	110	98	88	95	96	94	94	95	98	100	93	110	103	94	94	91	95	97	81	106	93	95	93	98	96	
95726394		GG 200066	68	68	44	27	27	47	22	42	24	1.16	0.66	34	14.9	10.8	111	29.0	110	-64	13.2	-3.6	0.0	38.8	18	26	-0.04	-0.22	-0.48	
GG230017												76	51	27	68	44	46	28	24	18	26	23	13	45	27	26	24	23	22	
GG 230020	1	WDW 190009	88	100	92	103	97	87	87	85	91	89	99	97	100	92	94	97	86	85	80	109	84	109	83	91	88	91	87	
96364294		GG 140030	70	73	56	29	35	52	31	48	42	1.60	0.62	31	18.0	5.6	92	30.9	80	-56	5.9	-11.6	-0.5	40.1	12	21	-0.42	-0.96	-0.89	
GG230020												78	53	29	73	56	53	41	44	16	47	37	18	51	47	46	44	41	38	

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ID Number Name																													
GG 230030 95726493 GG230030	2	WDW 180025 GG 170039	78 73	114 74	97 54	87 35	111 38	89 54	99 20	90 47	105 22	64 3.42 79	99 0.60 59	114 48 35	114 24.0 74	97 7.0 54	102 110 54	116 43.4 32	98 126 23	102 -77 17	100 15.8 25	103 -7.7 38	113 -4.9 22	107 39.4 54	106 26 25	105 35 24	103 0.77 22	114 1.30 21	110 0.21 20
GG 230032 95726501 GG230032	2	WDW 180025 GG 160037	75 73	130 74	89 54	80 34	111 38	83 54	109 22	85 48	114 22	72 2.86 79	94 0.82 60	124 58 34	130 30.6 74	89 4.6 54	103 112 54	128 51.1 32	106 157 24	110 -88 17	109 20.3 26	103 -7.4 39	115 -5.2 22	104 38.0 54	114 31 26	115 46 26	118 1.85 23	108 0.71 22	114 0.40 21
GG 230033 95726519 GG230033		WDW 180025 GG 130042	75 73	114 74	88 55	93 31	109 37	82 53			95 14	66 3.25 79	94 0.82 61	108 42 31	114 24.0 74	88 4.4 55	98 100 53	110 39.1 24	87 84 17	90 -63 13	98 15.0 18	104 -8.4 38	111 -4.6 18	100 36.3 55	96 20 18	97 27 18	94 0.09 15	115 1.42 14	110 0.20 13
GG 230036 95726543 GG230036		WDW 180025 GG 140018	69 74	134 73	106 55	78 32	115 36	90 53	116 20	93 46	122 22	59 3.81 80	71 1.73 61	124 59 32	134 32.1 73	106 9.7 55	119 146 53	133 54.5 26	116 192 23	115 -94 14	117 24.7 25	100 -5.4 35	122 -6.3 18	108 39.8 54	124 37 25	125 56 25	119 1.95 22	113 1.24 21	117 0.52 20
GG 230046 97153290 GG230046	1	WDW 180045 GG 170058	97 72	102 56	95 48	94 32	91 37	93 48	99 22	93 43	97 22	96 1.09 79	104 0.42 57	106 40 32	102 18.7 56	95 6.6 48	95 93 45	101 33.5 31	97 124 24	97 -72 18	101 16.4 26	93 -0.5 34	95 -2.2 23	92 32.7 54	95 19 26	95 26 26	100 0.48 23	96 -0.48 22	101 -0.23 22
GG 230057 95726691 GG230057	3	WDW 180025 GG 180039	76 72	107 73	103 55	89 37	108 38	91 55	94 21	90 48	99 22	63 3.50 78	95 0.77 60	111 45 37	107 20.9 73	103 8.8 55	103 112 55	110 39.2 32	94 110 24	99 -74 17	98 14.9 26	102 -6.7 38	110 -4.4 22	108 40.0 54	104 25 26	103 34 25	102 0.63 22	107 0.61 21	104 -0.11 21
GG 230058 95726709 GG230058		WDW 180045 GG 190021	95 68	107 71	78 51	94 39	87 34	78 53	97 24	78 47	97 23	88 1.68 77	117 -0.14 49	108 42 39	107 20.9 71	78 1.6 51	84 69 54	102 34.6 26	97 120 25	97 -71 21	95 13.4 27	89 2.2 32	91 -1.5 19	94 33.5 51	99 22 28	100 31 27	100 0.50 24	98 -0.25 22	105 -0.06 22
GG 230065 95726774 GG230065	1	WDW 180045 GG 190047	95 71	109 71	98 52	95 36	101 37	97 53	112 22	100 47	108 24	95 1.16 78	102 0.48 57	104 38 36	109 21.9 71	98 7.4 52	104 113 53	109 39.0 32	110 172 25	108 -86 18	108 20.1 27	95 -2.1 34	106 -3.8 23	106 38.7 53	108 28 27	108 39 27	111 1.31 24	93 -0.77 23	100 -0.29 23
GG 240008 97521553 GG 240008		WDW 190063 GG 180025	112 67	85 72	109 50	92 31	95 37	105 51	100 38	105 48	93 36	111 -0.08 76	104 0.43 49	107 41 31	85 11.6 72	109 10.4 50	93 89 51	90 26.6 42	100 133 37	99 -74 36	104 17.9 40	100 -5.4 38	93 -1.8 22	96 34.4 50	102 24 41	96 27 40	93 -0.02 37	86 -1.45 35	92 -0.68 34
GG 240011 97791446 GG 240011		190Z GG 190050	92 71	116 72	68 58	108 45	89 40	72 57	101 36	74 53	104 37	80 2.23 77	129 -0.62 57	93 27 45	116 24.7 72	68 -1.2 58	88 79 58	110 39.7 40	103 144 38	100 -75 32	102 17.0 40	88 2.8 42	91 -1.6 25	108 39.8 54	99 22 42	105 36 41	104 0.77 38	101 0.03 36	117 0.54 35
GG 240018 97791396 GG 240018		190Z GG 160045	103 72	106 74	88 58	105 41	87 41	91 57	104 36	92 53	106 37	96 1.08 78	118 -0.14 58	95 29 41	106 20.6 74	88 4.4 58	97 97 58	104 35.7 40	105 152 38	102 -78 32	102 17.2 40	88 2.8 42	90 -1.3 25	100 36.3 55	105 25 42	109 40 41	107 1.06 38	100 -0.08 36	111 0.26 35
GG 240021 97791404 GG 240021	3	190Z GG 200032	105 68	105 68	84 53	96 42	85 37	88 53	100 36	88 50	103 36	96 1.03 75	120 -0.25 52	105 39 42	105 20.0 68	84 3.3 53	89 79 54	100 33.3 36	102 139 36	99 -74 32	102 17.1 39	87 3.7 38	87 -0.8 22	105 38.3 52	99 22 41	106 36 39	102 0.63 37	101 0.09 34	115 0.41 34

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ID Number Name																													
GG 240023 97791693 GG 240023		NJW79Z GG 160029	92 70	107 73	102 53	102 33	86 34	91 52	104 37	92 49	103 39	88 1.66 78	109 0.19 52	97 31 33	107 20.8 73	102 8.6 53	107 121 53	105 36.3 44	100 133 40	92 -64 30	105 18.2 44	87 3.3 34	90 -1.3 18	98 35.2 50	97 20 45	103 34 43	97 0.32 40	100 -0.09 38	105 -0.05 36
GG 240026 97523245 GG 240026	3	WDW 200174 GG 180034	96 67	113 72	100 49	93 34	95 33	95 51	108 20	97 45	108 22	98 0.90 77	95 0.77 46	106 40 34	113 23.6 72	100 8.0 49	108 121 52	112 40.7 28	107 158 23	104 -80 17	112 21.9 25	95 -1.8 33	94 -1.9 20	110 40.8 47	112 30 25	110 41 24	110 1.25 22	104 0.39 21	100 -0.31 20
GG 240027 97523252 GG 240027	1	WDW 180025 GG 170005	89 70	112 74	96 54	101 37	112 37	98 54	101 24	98 48	107 24	84 1.95 78	112 0.08 53	99 32 37	112 23.0 74	96 6.8 54	106 119 55	109 38.7 30	99 130 26	102 -78 21	106 19.2 28	104 -8.3 39	118 -5.7 21	96 34.4 52	100 23 28	105 36 28	98 0.34 25	118 1.71 24	115 0.43 24
GG 240030 97523286 GG 240030	3	WDW 200174 GG 180004	119 68	92 73	99 49	98 31	93 33	111 51	95 21	109 45	93 22	114 -0.27 78	113 0.04 46	102 35 31	92 14.7 73	99 7.6 49	92 88 51	92 28.1 29	93 108 23	94 -67 17	98 14.7 25	98 -4.1 33	89 -1.3 20	104 37.8 47	100 22 25	95 25 25	94 0.07 22	106 0.56 21	97 -0.41 20
GG 240034 97523310 GG 240034	3	WDW 200174 GG 180055	112 67	90 72	100 49	111 34	87 33	107 51	91 21	105 45	90 21	111 -0.02 77	105 0.36 46	88 21 34	90 13.9 72	100 8.0 49	98 100 52	89 25.7 28	91 98 23	90 -62 17	97 14.4 25	92 -0.4 33	87 -0.9 20	97 35.1 47	95 20 25	92 23 24	90 -0.23 22	106 0.58 20	101 -0.24 20
GG 240038 97523351 GG 240038	1	WDW 180025 GG 210006	75 66	137 70	94 50	82 33	104 33	83 50	116 24	86 45	122 24	59 3.77 74	94 0.81 48	121 55 33	137 33.6 70	94 6.2 50	114 135 51	135 55.3 30	112 180 25	109 -86 19	116 24.1 28	91 0.7 35	114 -5.1 17	103 37.5 48	121 35 28	124 54 28	119 1.95 25	114 1.36 23	117 0.55 22
GG 240039 97523369 GG 240039		WDW 200174 GG 190021	96 67	112 71	86 47	99 34	86 31	82 50	97 23	82 45	100 22	92 1.33 77	110 0.18 45	101 35 34	112 23.0 71	86 3.9 47	97 98 51	106 36.9 23	98 124 23	96 -70 20	104 18.0 25	85 4.4 30	87 -0.9 17	111 41.1 45	106 26 26	105 36 25	100 0.51 23	109 0.86 21	110 0.17 21
GG 240045 97523401 GG 240045	3	WDW 200174 GG 170035	102 68	98 73	121 49	99 31	95 33	106 51	108 20	107 45	106 22	109 0.09 78	85 1.18 45	98 32 31	98 17.3 73	121 14.1 49	118 144 51	100 33.0 29	108 162 22	103 -79 17	111 21.3 24	98 -4.1 33	92 -1.7 20	105 38.3 47	111 29 25	109 40 24	108 1.12 22	105 0.43 21	98 -0.38 20
GG 250001 99080715 GG250001		7110ET GG 190050	111 69	99 68	80 57	113 44	91 42	97 55	91 34	96 51	94 34	98 0.90 74	132 -0.73 57	88 22 44	99 17.7 68	80 2.1 57	87 76 56	92 27.9 40	94 110 39	91 -64 25	90 11.1 42	99 -4.8 44	84 -0.4 27	107 39.1 54	97 21 43	97 28 42	92 -0.08 36	100 -0.09 33	94 -0.57 33
GG 250003 99078891 GG250003		7110ET GG 180037	112 70	101 70	96 57	128 42	94 43	116 56	102 34	115 52	107 34	101 0.72 76	128 -0.56 57	74 7 42	101 18.2 70	96 6.9 57	109 126 56	94 29.2 40	104 149 39	99 -74 25	101 16.6 42	98 -4.2 46	92 -1.6 28	100 36.0 55	112 30 43	112 43 42	105 0.86 35	114 1.32 33	100 -0.27 33
GG 250004 99078701 GG250004		7110ET GG 200041	133 69	68 70	96 56	148 45	91 42	109 56	67 36	103 52	72 35	122 -0.85 75	127 -0.54 55	64 -4 45	68 4.3 70	96 6.8 56	85 72 57	64 9.5 41	71 23 40	74 -41 27	71 1.6 43	110 -12.8 45	72 1.5 28	110 40.8 54	75 7 44	74 5 43	74 -1.42 36	89 -1.09 34	65 -1.95 34
GG 250005 99078719 GG250005		7110ET GG 160045	119 71	89 72	99 57	110 40	88 42	109 56	92 34	107 52	94 34	110 0.02 77	122 -0.32 57	89 23 40	89 13.3 72	99 7.6 57	95 93 56	86 23.8 40	94 112 40	92 -65 25	89 10.4 42	99 -5.1 44	82 -0.1 27	99 35.6 54	100 23 44	99 30 42	95 0.12 36	98 -0.21 33	88 -0.87 33

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GG 250007	190Z	85	118	81	102	88	74	107	76	109	73	118	99	118	81	98	114	108	104	107	86	93	104	105	111	108	101	119
99166720	GG 160029	72	74	58	43	41	57	36	53	37	2.76	-0.15	33	25.4	2.3	99	41.9	164	-80	19.5	3.9	-1.3	38.0	26	42	1.11	0.07	0.62
GG250007											78	59	43	74	58	58	40	38	32	40	42	25	55	42	41	38	36	35
GG 250008	190Z	91	116	71	97	87	72	105	74	107	69	131	105	116	71	87	114	106	103	103	88	89	104	106	109	108	102	114
99166738	GG 180004	71	73	58	44	40	57	36	53	37	3.03	-0.70	38	24.8	-0.4	75	41.7	155	-79	17.3	2.8	-1.2	37.9	26	40	1.10	0.14	0.41
GG250008											78	57	44	73	58	58	40	38	32	41	42	25	54	42	41	38	36	35
GG 250012	WDW 180025	76	115	98	87	110	89	98	89	104	60	96	113	115	98	104	118	98	101	99	103	113	104	106	104	103	114	110
99073199	GG 170039	70	74	54	35	38	54	20	47	22	3.75	0.72	47	24.5	7.4	114	44.4	124	-77	15.6	-7.7	-4.9	38.0	26	35	0.74	1.30	0.20
GG250012											78	53	35	74	54	54	32	23	17	25	38	22	53	25	24	22	21	20
GG 250015	WDW 180025	80	133	100	80	114	90	121	94	125	82	97	123	133	100	114	131	119	117	122	96	124	110	125	126	123	110	118
99073215	GG 190047	70	72	54	36	37	53	22	47	22	2.13	0.71	57	31.8	7.8	136	52.9	206	-97	27.2	-2.5	-6.6	40.7	38	57	2.27	0.92	0.57
GG250015											77	54	36	72	54	54	32	24	17	26	38	22	52	26	26	23	22	21
GG 250032	WDW 200174	112	97	91	103	90	101			88	111	104	97	97	91	92	90	86	86	95	93	89	104	89	90	86	113	104
99073314	GG 200033	65	70	46	32	28	49			14	-0.06	0.43	30	16.8	5.4	87	26.4	81	-58	13.4	-0.7	-1.2	38.2	16	21	-0.52	1.26	-0.09
GG250032											76	42	32	70	46	49	16	16	13	18	26	14	43	18	17	15	14	14
GG 250033	WDW 200174	122	102	100	99	86	111	100	111	100	120	107	100	102	100	101	98	97	93	105	87	87	108	105	103	98	106	102
99073322	GG 210010	65	70	44	31	28	48	23	43	23	-0.73	0.28	34	18.8	7.8	107	31.6	123	-66	18.2	3.4	-1.0	39.8	26	34	0.40	0.54	-0.18
GG250033											76	40	31	70	44	48	26	25	19	27	27	14	42	28	27	24	22	22
GG 250034	WDW 200174	107	102	94	102	95	100	98	100	97	103	109	98	102	94	97	100	97	95	101	98	91	107	104	102	99	101	98
99073330	GG 170023	68	72	49	33	35	51	24	46	23	0.53	0.19	32	18.9	6.1	99	33.1	123	-69	16.4	-4.0	-1.5	39.5	25	32	0.46	0.04	-0.39
GG250034											77	47	33	72	49	51	30	25	20	27	34	22	48	28	27	24	22	22
GG 250040	WDW 200174	83	108	92	105	101	87			98	85	96	95	108	92	102	104	96	95	101	99	103	100	102	102	102	104	101
99073389	GG 140047	69	73	51	22	30	49			14	1.87	0.73	28	21.2	5.7	109	35.8	120	-69	16.6	-4.9	-3.3	36.0	24	33	0.70	0.36	-0.25
GG250040											78	48	22	73	51	49	20	16	14	18	27	15	47	19	18	15	14	14
GG 250041	WDW 200174	79	126	95	96	86	76	114	79	116	80	100	104	126	95	114	121	112	104	118	81	93	104	119	120	113	110	109
99073397	GG 210011	65	70	45	27	28	47	23	42	23	2.27	0.58	38	29.0	6.4	135	46.5	178	-81	24.7	7.6	-1.9	38.1	34	50	1.52	0.90	0.13
GG250041											76	41	27	70	45	47	26	24	19	27	28	14	42	27	27	24	22	21
GG 250042	WDW 200174	131	69	99	115	83	96			64	126	114	85	69	99	81	67	67	71	75	99	73	96	70	67	62	110	97
99073405	GG 160010	68	72	49	28	29	49			16	-1.12	0.00	18	4.9	7.8	63	11.7	9	-38	3.2	-5.1	1.2	34.6	4	-2	-2.37	0.90	-0.42
GG250042											78	46	28	72	49	50	18	18	13	20	27	15	45	20	19	17	15	15
GG 250058	WDW 200174	82	105	97	105	93	85	96	85	96	85	95	94	105	97	104	104	95	95	101	97	91	100	101	98	96	106	97
99168239	GG 160036	69	59	48	31	33	47	20	42	22	1.89	0.78	27	20.0	7.0	113	35.6	116	-68	16.4	-3.6	-1.5	36.3	23	28	0.24	0.52	-0.41
GG 250058											78	48	31	59	48	46	29	23	17	24	33	20	46	25	24	22	21	20
GG 250059	WDW 200174	92	113	85	99	85	79	98	79	101	88	111	101	113	85	97	107	99	96	105	86	86	107	107	106	100	109	110
99168247	GG 190021	66	59	46	34	30	47	23	42	22	1.65	0.12	35	23.4	3.6	98	37.5	128	-71	18.5	4.2	-0.8	39.3	27	37	0.54	0.86	0.18
GG 250059											76	45	34	59	46	46	23	23	20	25	30	17	44	26	25	23	21	21

Breeding Values and Accuracies: Cows

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																													
GG 250065		WDW 200174	81	116	96	105	95	85			103	88	84	95	116	96	111	109	101	98	108	93	100	98	105	106	102	110	107
99168288		GG 200026	65	57	37	23	28	42			16	1.63	1.21	28	24.5	6.7	128	38.8	137	-73	20.2	-0.8	-2.8	35.5	26	37	0.65	0.94	0.06
GG 250065												76	42	23	57	37	39	18	18	14	20	27	14	42	20	19	17	15	15
GG 260001	3	WDW 200174	90	108	99	96	100	94			104	91	99	103	108	99	104	108	100	101	107	96	102	104	111	107	105	114	107
6020748247		GG 230030	64	58	39	25	29	43			18	1.46	0.60	37	21.5	7.7	114	37.9	134	-76	19.3	-2.9	-3.3	37.8	29	37	0.86	1.29	0.04
GG260001												75	39	25	58	39	41	22	19	15	21	30	17	41	21	21	18	17	16
GG 260004	1	WDW 200174	80	113	92	100	99	81			99	81	99	100	113	92	103	109	95	95	106	97	101	100	106	103	100	114	107
6020750771		GG 230033	64	58	39	24	29	43			16	2.17	0.60	34	23.4	5.6	111	38.5	113	-69	18.9	-3.3	-3.1	36.2	26	33	0.52	1.35	0.03
GG260004												75	40	24	58	39	40	19	17	14	19	30	15	41	20	19	16	15	15
GG 260007	3	WDW 200174	111	104	98	100	96	107	101	107	102	110	103	99	104	98	102	100	100	97	103	100	91	108	102	104	102	101	96
6020748296		GG 230008	64	57	38	25	29	42	22	38	26	0.02	0.45	33	19.5	7.5	109	33.0	132	-71	17.4	-5.5	-1.4	39.6	24	35	0.69	0.08	-0.46
GG260007												75	39	25	57	38	40	27	27	16	30	31	17	40	30	29	27	25	24
GG 260011	6	WDW 200174	93	112	96	101	95	92			106	92	104	99	112	96	106	110	106	104	111	92	99	103	112	109	108	103	102
6020748338		GG 230065	63	57	38	26	29	42			18	1.37	0.40	32	22.9	6.8	118	39.3	157	-80	21.4	-0.1	-2.7	37.4	30	39	1.13	0.26	-0.21
GG260011												75	38	26	57	38	40	22	20	16	22	29	17	41	22	21	19	18	17
GG 260012	1	WDW 200174	99	100	104	102	88	99			99	99	100	97	100	104	105	99	98	95	104	93	86	103	104	102	99	106	100
6020748346		GG 230017	63	56	35	23	26	41			18	0.81	0.56	30	18.1	9.1	116	32.4	126	-69	18.0	-0.9	-0.8	37.5	25	32	0.45	0.53	-0.31
GG260012												75	36	23	56	35	38	20	19	16	21	26	14	38	22	21	19	17	17
GG 260013	6	WDW 200174	98	106	96	100	90	93			100	97	104	100	106	96	101	104	100	98	107	91	93	96	105	102	103	105	102
6020748353		GG 230046	63	52	36	25	29	41			18	1.00	0.41	33	20.5	6.7	108	35.4	133	-73	19.6	0.7	-1.9	34.5	26	33	0.71	0.40	-0.19
GG260013												75	38	25	52	36	38	22	19	16	21	29	17	41	22	21	19	17	17
GG 260014	1	WDW 200174	75	121	102	91	102	85			113	80	87	109	121	102	114	119	109	107	116	94	107	104	120	117	113	113	110
6020826522		GG 230036	64	58	39	25	28	43			18	2.22	1.09	43	26.9	8.4	135	45.4	167	-85	23.8	-1.8	-4.0	38.0	35	47	1.45	1.26	0.19
GG260014												75	40	25	58	39	41	20	19	15	21	29	15	41	21	21	18	17	16
GG 260017	3	WDW 200174	101	105	102	98	93	102	103	102	102	101	102	101	105	102	105	103	102	100	108	94	95	99	106	104	101	106	105
6020748379		GG 160029	69	59	48	30	33	47	20	42	21	0.69	0.49	35	20.0	8.6	116	34.8	140	-75	19.9	-1.5	-2.2	35.7	26	34	0.61	0.56	-0.07
GG260017												78	48	30	59	48	46	28	22	17	24	33	20	46	25	24	22	20	20
GG 260019	3	WDW 200174	118	103	107	104	98	120	109	121	107	119	99	95	103	107	111	102	108	104	114	93	100	112	112	109	107	104	103
6020748395		GG 190047	67	59	48	31	33	47	21	42	22	-0.63	0.60	28	19.3	10.1	130	34.1	163	-81	23.1	-0.9	-2.9	41.4	30	40	1.06	0.31	-0.12
GG260019												77	46	31	59	48	46	28	24	17	26	33	20	45	26	25	23	22	21
GG 260020	3	WDW 200174	107	108	88	101	94	97	103	98	103	102	114	99	108	88	96	103	102	100	108	94	95	104	106	104	102	106	105
6020748403		GG 190050	67	59	48	33	33	47	20	42	21	0.63	-0.02	32	21.2	4.5	96	35.2	141	-75	19.9	-1.4	-2.2	37.8	26	35	0.66	0.56	-0.06
GG260020												77	46	33	59	48	47	28	22	17	24	33	20	45	25	24	22	20	20
GG 260021	3	WDW 200174	110	97	90	96	89	98	95	98	95	100	125	104	97	90	88	94	94	94	101	94	88	98	101	98	95	106	98
6020748411		GG 180006	68	59	48	34	33	48	21	43	22	0.73	-0.43	38	16.8	5.1	78	29.4	111	-67	16.5	-1.7	-1.0	35.5	23	28	0.11	0.55	-0.37
GG260021												78	47	34	59	48	47	28	23	17	25	33	20	46	25	24	22	21	20

Breeding Values and Accuracies: Cows

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																													
GG 260024 6020748437 GG260024	3	WDW 200174 GG 180037	121 67	99 59	109 48	119 31	97 34	129 47	107 20	129 42	110 21	118 -0.60 77	108 0.24 46	80 13 31	99 17.6 59	109 10.6 48	117 143 46	97 30.8 28	107 158 23	104 -80 17	114 22.7 24	95 -2.2 35	101 -3.1 21	96 34.3 46	115 32 25	113 44 24	109 1.16 22	120 1.92 20	109 0.14 20
GG 260031 6020748486 GG260031	3	WDW 200174 GG 190055	100 67	100 59	109 48	104 34	93 33	104 48	99 22	104 43	99 22	103 0.54 77	94 0.82 46	95 28 34	100 18.1 59	109 10.6 48	111 128 47	101 33.4 29	99 129 23	98 -72 18	103 17.4 25	95 -2.2 33	90 -1.4 20	108 40.0 45	106 26 26	103 34 25	101 0.55 23	103 0.26 21	98 -0.41 21
GG 260034 6020748510 GG260034		WDW 200174 GG 190015	103 67	101 58	76 46	105 33	92 30	86 46	90 24	85 42	92 24	97 0.98 77	116 -0.07 45	96 30 33	101 18.4 58	76 0.9 46	82 64 46	98 31.4 24	91 101 25	91 -64 20	96 14.1 27	93 -0.7 31	91 -1.5 17	108 39.6 43	99 22 28	95 26 27	93 0.00 25	105 0.46 23	103 -0.16 22
GG 260036 6020748536 GG260036	3	WDW 200174 GG 180004	116 68	96 59	97 48	94 31	92 33	109 47	101 21	109 42	99 22	112 -0.10 78	113 0.06 46	106 40 31	96 16.5 59	97 7.2 48	93 88 46	96 30.4 29	99 129 23	98 -73 17	103 17.4 25	96 -3.0 33	91 -1.5 20	99 35.6 46	106 26 25	101 32 25	100 0.52 22	107 0.61 21	100 -0.30 20
GG 260039 6020748551 GG260039	6	WDW 200174 GG 220032	109 65	107 58	98 41	101 28	96 29	105 44			106 18	108 0.17 76	103 0.44 40	98 32 28	107 20.9 58	98 7.3 41	104 114 42	105 35.9 22	107 158 20	104 -81 16	111 21.6 22	92 0.0 29	99 -2.7 17	107 39.3 42	112 30 22	109 40 21	109 1.17 19	103 0.26 18	102 -0.20 17
GG 260040 6020748569 GG260040	5	WDW 200174 GG 200041	113 57	89 59	98 47	120 35	94 33	110 46	88 22	108 41	90 22	109 0.13 63	112 0.10 44	81 14 35	89 13.5 59	98 7.4 47	98 101 47	87 24.5 30	88 86 24	91 -64 19	97 14.6 26	102 -7.1 34	86 -0.8 21	108 39.6 45	94 19 27	92 23 26	93 0.00 23	97 -0.36 22	80 -1.27 22
GG 260041 6020748577 GG260041		WDW 200174 GG 200033	106 56	98 58	90 45	102 32	89 27	95 43			90 14	104 0.51 63	106 0.32 42	98 32 32	98 17.1 58	90 5.0 45	91 84 45	91 27.1 16	88 89 16	88 -60 13	97 14.4 18	93 -0.6 26	89 -1.2 14	100 36.2 41	91 17 18	92 23 17	88 -0.39 15	113 1.27 14	105 -0.06 14

Selection List on Cow Value

Bulls 2 years and older

ID	Name	Sire ID	Dam ID	% Inbreeding	Polled HH: Horned, PcPc: Polled, PcH: Polled horn carrier	Myostatin nt821 Q204X F94L Genomic tested	Calving Ease Value Acc	Calf Growth Value Acc	Milk Value Acc	Maint. Value Acc	Fertility Value Acc	Cow Value Acc	Growth Value Acc	Prod Value Acc	
Sorted on ID															
											★★★★★				
1	GG 240001	GG 240001	WDW 190063	GG 180037	0.3		113 86	104 87	111 83	102 81	98 68	118 80	110 82	119 80	
2	GG 240046	GG 240046	WDW 200174	GG 190047	2.7		113 67	102 71	107 49	104 31	99 33	116 50	109 21	117 44	
3	GG 240074	GG 240074	WDW 200174	GG 180041	2.8		117 87	97 85	100 84	116 83	97 67	119 80	112 82	120 80	
											★★★★☆				
1	GG 240029	GG 240029	GG 210012	GG 210020	9.7		102 64	94 68	98 44	109 32	93 32	102 48	95 25	102 43	
2	GG 240055	GG 240055	GG 210012	GG 210046	1.3		105 63	103 68	91 43	105 28	97 27	100 46	95 21	100 41	
3	WDW 200174	BABILON	WDW 170083	WDW 150017	2.2		108 82	106 89	99 55	106 36	89 44	104 61	103 30	105 55	
											★★★★				
1	GG 240013	GG 240013	WDW 190063	GG 200037	0.3		99 67	90 71	89 49	105 37	102 38	95 52	92 38	94 49	
2	GG 240025	GG 240025	WDW 200174	GG 160034	2.7		95 68	112 72	97 48	92 28	92 34	93 50	110 21	95 44	
3	GG 240050	GG 240050	GG 210012	GG 210053	4.4		91 63	107 68	97 43	88 28	96 27	91 46	99 22	91 41	
4	GG 240056	GG 240056	WDW 200174	GG 160037	3.3		90 68	110 73	97 48	100 28	96 33	90 50	102 22	91 44	
5	GG 240069	GG 240069	WDW 180025	GG 200057	2.0		80 68	121 72	100 52	76 39	113 38	94 54	115 20	97 47	
6	GG 240070	GG 240070	WDW 200174	GG 190055	3.2		86 67	108 71	105 49	97 34	94 33	90 51	109 22	92 45	
											★★★★☆				
1	GG 240003	GG 240003	WDW 190063	GG 140005	0.2		92 87	82 87	88 84	100 82	109 68	80 80	85 82	78 80	
2	GG 240007	GG 240007	190Z	GG 200029	0.1		109 69	103 71	74 56	105 46	91 40	89 56	97 38	89 52	
3	GG 240014	GG 240014	190Z	GG 200041	0.0		94 70	101 72	77 57	122 46	89 41	84 57	92 38	83 53	
4	GG 240031	GG 240031	WDW 200174	GG 170039	2.8		84 68	110 73	98 48	100 29	96 33	86 50	104 20	87 44	
5	GG 240047	GG 240047	WDW 180025	GG 180039	2.8		69 70	126 73	104 55	78 37	108 37	87 54	111 21	89 47	
6	GG 240059	GG 240059	GG 210012	GG 210067	4.4		86 63	112 68	98 43	100 29	99 28	89 47	104 22	90 42	
7	GG 240064	GG 240064	WDW 200174	GG 200053	2.8		92 65	108 70	96 45	102 28	90 34	88 48	103 20	89 42	
											★★★				
1	GG 240019	GG 240019	WDW 190063	GG 180017	1.7		90 69	99 74	76 51	103 39	92 35	76 54	93 41	76 51	

Selection List on Cow Value

Bulls 2 years and older

ID Name Sorted on ID		Sire ID	Dam ID	% Inbreeding	Polled HH: Horned, PcPc: Polled, PcH: Polled horn carrier	Myostatin nt821 Q204X F94L Genomic tested				Calving Ease Value Acc	Calf Growth Value Acc	Milk Value Acc	Maint. Value Acc	Fertility Value Acc	Cow Value Acc	Growth Value Acc	Prod Value Acc	
										★★★								
2	GG 240020 GG 240020	WDW 190063	GG 160008	1.4						6969	11973	9748	7731	9932	7951	11036	8248	

Selection List on Cow Value

Cows 2 years and older

ID Sorted on ID	Name	Sire ID	Dam ID	% Inbreeding	Polled HH: Horned, PcPc: Polled, PcH: Polled horn carrier	Myostatin nt821 Q204X F94L Genomic tested	Calving Ease Value Acc	Calf Growth Value Acc	Milk Value Acc	Maint. Value Acc	Fertility Value Acc	Cow Value Acc	Growth Value Acc	Prod Value Acc	
											★★★★★				
1	GG 180037	GG180037	BH 100032	BG 030018	0.4		121 82	98 78	115 78	140 49	106 51	141 66	112 29	142 59	
											★★★★★				
1	GG 180025	GG180025	BH 100032	GG 110032	1.6		131 80	80 78	126 77	94 42	94 49	112 63	101 30	112 56	
2	GG 190047	GG190047	BH 100032	GG 130020	0.1		108 82	109 78	109 79	102 49	108 48	116 65	115 31	118 58	
3	GG 230008	GG230008	WDW 190009	GG 170023	1.0		113 72	101 73	97 55	95 32	103 38	110 53	99 34	109 49	
4	GG 240030	GG 240030	WDW 200174	GG 180004	2.7		119 68	92 73	99 49	98 31	93 33	111 51	95 21	109 45	
											★★★★☆				
1	GG 160022	GG160022	P43145081	GG 090038	1.8		122 84	73 78	83 78	115 29	125 52	102 61			
2	GG 160029	GG160029	BH 100032	GG 070056	0.2		98 85	102 78	106 79	90 46	98 49	104 65	102 28	104 58	
3	GG 170058	GG170058	BH 100032	GG 130045	2.2		106 81	97 64	108 70	95 40	87 48	105 58	96 28	104 52	
4	GG 180004	GG180004	BH 100032	GG 110022	1.2		115 81	91 77	92 79	83 49	95 49	104 65	99 30	104 58	
5	GG 180038	GG180038	BH 100032	GG 130030	1.3		101 82	95 78	102 77	84 58	96 49	101 67	95 31	100 60	
6	GG 190049	GG190049	BH 100032	GG 100010	0.2		97 80	98 75	122 72	105 48	84 47	101 63	98 30	101 56	
7	GG 190055	GG190055	BH 100032	GG 140030	1.3		96 81	93 78	121 79	101 56	97 48	101 67	96 31	101 60	
8	GG 200041	GG200041	BH 100032	GG 120022	12.7		118 89	72 89	97 88	138 85	100 73	103 83	72 82	99 83	
9	GG 210010	GG210010	NJW79Z	GG 150064	0.0		117 74	89 75	98 68	99 47	82 32	100 59	88 36	98 54	
10	GG 240008	GG 240008	WDW 190063	GG 180025	0.3		112 67	85 72	109 50	92 31	95 37	105 51	100 38	105 48	
11	GG 240034	GG 240034	WDW 200174	GG 180055	2.8		112 67	90 72	100 49	111 34	87 33	107 51	91 21	105 45	
12	GG 240045	GG 240045	WDW 200174	GG 170035	2.8		102 68	98 73	121 49	99 31	95 33	106 51	108 20	107 45	
											★★★★				
1	GG 180039	GG180039	BH 100032	GG 140030	1.3		86 82	98 80	116 81	100 51	96 49	94 67	91 31	93 60	
2	GG 190020	GG190020	GG 160033	GG 160014	0.4		89 79	115 75	132 74	68 36	97 34	97 58			
3	GG 190050	GG190050	BH 100032	GG 070056	0.2		109 82	108 78	77 78	97 54	100 48	94 66	103 28	95 58	
4	GG 200065	GG200065	BH 100032	GG 120013	12.9		109 89	81 88	91 86	118 84	92 74	95 82	92 82	93 82	
5	GG 220032	GG220032	WDW 180045	GG 190047	0.9		101 74	112 73	93 61	97 41	103 38	99 57	113 22	101 50	
6	GG 220041	GG220041	WDW 180025	GG 140005	0.4		80 74	109 74	105 57	91 34	120 38	99 55			

Selection List on Cow Value

Cows 2 years and older

ID	Name	Sire ID	Dam ID	% Inbreeding	Polled HH: Horned, PcPc: Polled, PcH: Polled horn carrier	Myostatin nt821 Q204X F94L Genomic tested	Calving Ease Value Acc	Calf Growth Value Acc	Milk Value Acc	Maint. Value Acc	Fertility Value Acc	Cow Value Acc	Growth Value Acc	Prod Value Acc	
Sorted on ID															
★★★★															
7	GG 230007	GG230007	WDW 190009	GG 140020	0.6		86 73	107 72	100 54	101 23	101 35	92 51	104 29	93 47	
8	GG 230017	GG230017	GG 210009	GG 200066	4.8		93 68	93 68	110 44	98 27	88 27	95 47	96 22	94 42	
9	GG 230036	GG230036	WDW 180025	GG 140018	0.3		69 74	134 73	106 55	78 32	115 36	90 53	116 20	93 46	
10	GG 230046	GG230046	WDW 180045	GG 170058	0.9		97 72	102 56	95 48	94 32	91 37	93 48	99 22	93 43	
11	GG 230057	GG230057	WDW 180025	GG 180039	2.8		76 72	107 73	103 55	89 37	108 38	91 55	94 21	90 48	
12	GG 230065	GG230065	WDW 180045	GG 190047	0.9		95 71	109 71	98 52	95 36	101 37	97 53	112 22	100 47	
13	GG 240018	GG 240018	190Z	GG 160045	0.0		103 72	106 74	88 58	105 41	87 41	91 57	104 36	92 53	
14	GG 240023	GG 240023	NJW79Z	GG 160029	0.0		92 70	107 73	102 53	102 33	86 34	91 52	104 37	92 49	
15	GG 240026	GG 240026	WDW 200174	GG 180034	2.8		96 67	113 72	100 49	93 34	95 33	95 51	108 20	97 45	
16	GG 240027	GG 240027	WDW 180025	GG 170005	1.0		89 70	112 74	96 54	101 37	112 37	98 54	101 24	98 48	
★★★★☆															
1	GG 160036	GG160036	BH 100032	GG 110002	1.5		73 84	102 77	95 79	105 49	97 49	81 66	89 29	79 59	
2	GG 170039	GG170039	BH 100032	GG 110012	0.7		75 80	102 78	99 78	104 45	101 49	86 64	92 29	85 57	
3	GG 180006	GG180006	BH 100032	GG 130034	1.2		115 82	83 77	85 79	87 57	89 48	89 67	88 29	87 59	
4	GG 200033	GG200033	2214	GG 160010	0.0		103 76	90 75	80 71	98 46	90 29	83 59			
5	GG 210023	GG210023	WDW 180025	GG 140017	0.2		82 73	106 73	89 54	103 35	102 44	85 55			
6	GG 210025	GG210025	WDW 180025	GG 130042	0.3		75 77	115 76	82 69	71 48	117 42	81 61			
7	GG 220050	GG220050	WDW 180025	GG 150064	0.4		87 75	117 75	87 62	78 37	106 36	86 56			
8	GG 230002	GG230002	WDW 190009	GG 180031	0.5		89 72	106 72	81 55	91 34	101 37	81 53	97 32	82 49	
9	GG 230004	GG230004	WDW 190009	GG 190039	0.3		93 72	108 72	86 54	96 30	103 37	88 52	99 32	88 48	
10	GG 230020	GG230020	WDW 190009	GG 140030	0.9		88 70	100 73	92 56	103 29	97 35	87 52	87 31	85 48	
11	GG 230030	GG230030	WDW 180025	GG 170039	2.0		78 73	114 74	97 54	87 35	111 38	89 54	99 20	90 47	
12	GG 230032	GG230032	WDW 180025	GG 160037	2.3		75 73	130 74	89 54	80 34	111 38	83 54	109 22	85 48	
13	GG 230033	GG230033	WDW 180025	GG 130042	0.3		75 73	114 74	88 55	93 31	109 37	82 53			
14	GG 240021	GG 240021	190Z	GG 200032	2.6		105 68	105 68	84 53	96 42	85 37	88 53	100 36	88 50	
15	GG 240038	GG 240038	WDW 180025	GG 210006	1.3		75 66	137 70	94 50	82 33	104 33	83 50	116 24	86 45	
16	GG 240039	GG 240039	WDW 200174	GG 190021	0.1		96 67	112 71	86 47	99 34	86 31	82 50	97 23	82 45	
★★★															

Selection List on Cow Value

Cows 2 years and older

ID Name Sorted on ID		Sire ID	Dam ID	% Inbreeding	Polled HH: Horned, PcPc: Polled, PcH: Polled horn carrier	Myostatin nt821 Q204X F94L Genomic tested				Calving Ease Value Acc	Calf Growth Value Acc	Milk Value Acc	Maint. Value Acc	Fertility Value Acc	Cow Value Acc	Growth Value Acc	Prod Value Acc	
										★★★								
1	GG 180017	GG180017	190Z	GG 070032	0.0					8881	9478	6580	13260	8944	7667	7442	7362	
2	GG 180031	GG180031	BH 100032	GG 080074	0.8					10082	8979	7180	9058	9550	7868	9033	7761	
3	GG 190021	GG190021	190Z	GG 130034	0.0					9280	11277	7675	9356	8141	7065	9435	7159	
4	GG 230016	GG230016	WDW 190063	GG 180017	1.7					8272	10073	7751	10439	9335	7354	9141	7251	
5	GG 230058	GG230058	WDW 180045	GG 190021	0.0					9568	10771	7851	9439	8734	7853	9724	7847	
6	GG 240011	GG 240011	190Z	GG 190050	0.0					9271	11672	6858	10845	8940	7257	10136	7453	
										★★★								
1	GG 190015	GG190015	190Z	GG 130012	0.2					9980	9676	5374	10455	9541	6864	7838	6559	

Selection List on Cow Value

Bull Calves younger than 2 years

ID	Name	Sire ID	Dam ID	% Inbreeding	Polled HH: Horned, PcPc: Polled, PcH: Polled horn carrier	Myostatin nt821 Q204X F94L	Genomic tested	Calving Ease Value Acc	Calf Growth Value Acc	Milk Value Acc	Maint. Value Acc	Fertility Value Acc	Cow Value Acc	Growth Value Acc	Prod Value Acc								
								★★★★★															
1	GG 260018	GG260018	WDW 200174	GG 160022	0.2			121	69	87	59	93	48	110	23	107	35	114	46				
2	GG 260022	GG260022	WDW 200174	GG 190049	2.8			112	66	98	58	113	45	105	31	86	33	112	46	100	21	112	41
								★★★★★															
1	GG 250036	GG250036	WDW 200174	GG 220050	1.5			107	65	112	70	95	42	89	27	98	29	103	47				
2	GG 250047	GG250047	WDW 200174	GG 190055	3.2			101	67	107	71	108	49	98	34	94	33	103	51	109	22	104	45
3	GG 250052	GG 250052	WDW 180025	GG 180025	1.8			93	69	109	62	110	53	80	34	106	37	105	50	107	20	106	44
4	GG 250055	GG 250055	WDW 200174	GG 180038	3.2			109	67	99	59	102	47	95	35	92	33	106	48	99	22	105	43
5	GG 260005	GG260005	WDW 200174	GG 230019	2.6			97	64	110	57	107	38	91	26	98	29	103	43				
6	GG 260010	GG260010	WDW 200174	GG 230004	2.6			115	64	101	57	97	38	100	24	96	29	109	42	101	22	109	38
7	GG 260015	GG260015	WDW 200174	GG 180031	3.1			114	68	93	59	89	48	98	35	92	33	102	48	96	22	101	43
8	GG 260027	GG260027	WDW 200174	GG 180039	3.2			96	68	102	60	108	49	103	32	92	33	101	48	97	22	100	43
								★★★★★															
1	GG 250002	GG250002	7110ET	GG 190050	0.0			112	69	97	68	80	57	111	44	91	42	97	55	94	34	96	51
2	GG 250013	GG250013	WDW 200174	GG 180031	3.1			104	65	100	69	85	49	96	35	93	34	91	50	98	22	91	44
3	GG 250028	GG250028	WDW 200174	GG 220057	2.7			94	64	111	69	98	42	98	27	103	30	97	47				
4	GG 250060	GG 250060	WDW 200174	GG 210023	1.3			98	64	105	57	95	39	105	25	95	31	97	43				
5	GG 250061	GG 250061	WDW 180025	GG 200065	3.4			87	68	107	61	95	50	91	37	105	38	93	50	102	22	93	44
6	GG 250063	GG 250063	WDW 200174	GG 200034	0.2			79	65	114	58	105	43	103	31	97	28	90	45				
7	GG 260002	GG260002	WDW 200174	GG 230032	2.9			97	64	114	58	97	39	92	25	100	29	98	43				
8	GG 260003	GG260003	WDW 200174	GG 230057	2.8			90	64	104	57	103	39	97	26	98	29	95	43				
9	GG 260008	GG260008	WDW 200174	GG 230007	1.6			96	64	107	57	100	38	103	22	95	28	98	42	103	22	98	38
10	GG 260009	GG260009	WDW 200174	GG 230002	2.7			101	64	105	57	91	38	98	25	95	29	94	42	100	22	94	38
11	GG 260028	GG260028	WDW 200174	GG 180038	3.2			100	67	102	59	99	47	95	35	92	33	98	48	99	22	98	43
12	GG 260032	GG260032	WDW 200174	GG 160036	2.9			87	69	103	59	98	48	105	31	93	33	90	47	96	20	89	42
13	GG 260035	GG260035	WDW 200174	GG 170058	2.8			97	68	106	55	100	44	101	27	88	33	95	44	99	20	95	39
								★★★★★															

Selection List on Cow Value
Bull Calves younger than 2 years

ID		Name	Sire ID	Dam ID	% Inbreeding HH:Horned, PcPc:Polled, PcH: Polled horn carrier	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	GG 250017	GG250017	WDW 180025	GG 180017	2.8					82	70	111	74	82	55	97	40	105	36	80	55	92	25	80	49	
2	GG 250023	GG250023	WDW 180025	GG 170058	1.9					77	70	128	72	98	51	74	33	103	37	86	52	116	20	89	46	
3	GG 250038	GG250038	WDW 200174	GG 180034	2.8					82	67	92	72	101	49	104	34	95	33	88	51	93	20	87	45	
4	GG 250044	GG250044	WDW 180025	GG 180039	2.8					70	70	132	73	100	55	76	37	108	37	84	54	115	21	87	47	
5	GG 250054	GG 250054	WDW 180025	GG 200052	2.3					77	68	115	55	99	44	79	31	101	34	86	46	102	20	87	41	
6	GG 260006	GG260006	WDW 200174	GG 230016	1.1					89	63	105	57	87	37	105	27	91	28	82	42	97	26	82	39	
7	GG 260026	GG260026	WDW 200174	GG 190020	1.6					79	66	117	58	112	46	86	27	93	28	88	44					
8	GG 260030	GG260030	WDW 200174	GG 220050	1.5					92	65	114	58	91	42	91	27	97	28	88	44					
9	GG 260033	GG260033	WDW 200174	GG 190021	0.1					100	67	110	59	87	46	99	34	85	30	86	47	98	23	86	42	
										★★																
1	GG 250006	GG250006	190Z	GG 190020	0.2					80	69	114	71	98	56	91	41	88	36	79	54	109	34	81	50	
2	GG 260038	GG260038	WDW 200174	GG 210025	1.4					79	66	119	58	85	44	88	31	103	30	79	45					
										★★																
1	GG 250010	GG250010	190Z	GG 190049	0.0					80	70	140	71	80	56	94	43	81	40	66	56	127	36	72	52	

Selection List on Cow Value

Heifers younger than 2 years

ID		Name	Sire ID	Dam ID	% Inbreeding	Polled HH: Horned, PcPc: Polled, PcH: Polled horn carrier	Myostatin nt821	Q204X	F94L	Genomic tested	Calving Ease Value Acc	Calf Growth Value Acc	Milk Value Acc	Maint. Value Acc	Fertility Value Acc	Cow Value Acc	Growth Value Acc	Prod Value Acc									
											★★★★★																
1	GG 260019	GG260019	WDW 200174	GG 190047	2.7						118	67	103	59	107	48	104	31	98	33	120	47	109	21	121	42	
2	GG 260024	GG260024	WDW 200174	GG 180037	2.8						121	67	99	59	109	48	119	31	97	34	129	47	107	20	129	42	
											★★★★★																
1	GG 250003	GG250003	7110ET	GG 180037	0.0						112	70	101	70	96	57	128	42	94	43	116	56	102	34	115	52	
2	GG 250033	GG250033	WDW 200174	GG 210010	0.3						122	65	102	70	100	44	99	31	86	28	111	48	100	23	111	43	
3	GG 260040	GG260040	WDW 200174	GG 200041	5.3						113	57	89	59	98	47	120	35	94	33	110	46	88	22	108	41	
											★★★★★																
1	GG 250004	GG250004	7110ET	GG 200041	0.0						133	69	68	70	96	56	148	45	91	42	109	56	67	36	103	52	
2	GG 250005	GG250005	7110ET	GG 160045	0.0						119	71	89	72	99	57	110	40	88	42	109	56	92	34	107	52	
3	GG 250032	GG250032	WDW 200174	GG 200033	0.0						112	65	97	70	91	46	103	32	90	28	101	49					
4	GG 250034	GG250034	WDW 200174	GG 170023	3.7						107	68	102	72	94	49	102	33	95	35	100	51	98	24	100	46	
5	GG 260007	GG260007	WDW 200174	GG 230008	3.0						111	64	104	57	98	38	100	25	96	29	107	42	101	22	107	38	
6	GG 260017	GG260017	WDW 200174	GG 160029	2.7						101	69	105	59	102	48	98	30	93	33	102	47	103	20	102	42	
7	GG 260031	GG260031	WDW 200174	GG 190055	3.2						100	67	100	59	109	48	104	34	93	33	104	48	99	22	104	43	
8	GG 260036	GG260036	WDW 200174	GG 180004	2.7						116	68	96	59	97	48	94	31	92	33	109	47	101	21	109	42	
9	GG 260039	GG260039	WDW 200174	GG 220032	6.4						109	65	107	58	98	41	101	28	96	29	105	44					
											★★★★																
1	GG 250001	GG250001	7110ET	GG 190050	0.0						111	69	99	68	80	57	113	44	91	42	97	55	91	34	96	51	
2	GG 250015	GG250015	WDW 180025	GG 190047	1.9						80	70	133	72	100	54	80	36	114	37	90	53	121	22	94	47	
3	GG 250042	GG250042	WDW 200174	GG 160010	0.0						131	68	69	72	99	49	115	28	83	29	96	49					
4	GG 260001	GG260001	WDW 200174	GG 230030	2.7						90	64	108	58	99	39	96	25	100	29	94	43					
5	GG 260011	GG260011	WDW 200174	GG 230065	6.4						93	63	112	57	96	38	101	26	95	29	92	42					
6	GG 260012	GG260012	WDW 200174	GG 230017	1.5						99	63	100	56	104	35	102	23	88	26	99	41					
7	GG 260013	GG260013	WDW 200174	GG 230046	6.4						98	63	106	52	96	36	100	25	90	29	93	41					
8	GG 260020	GG260020	WDW 200174	GG 190050	2.7						107	67	108	59	88	48	101	33	94	33	97	47	103	20	98	42	
9	GG 260021	GG260021	WDW 200174	GG 180006	2.7						110	68	97	59	90	48	96	34	89	33	98	48	95	21	98	43	

Selection List on Cow Value
Heifers younger than 2 years

ID	Name	Sire ID	Dam ID	% Inbreeding HH: Horned, PcPc: Polled, PcH: Polled horn carrier	Myostatin nt821 Q204X F94L Genomic tested	Calving Ease Value Acc	Calf Growth Value Acc	Milk Value Acc	Maint. Value Acc	Fertility Value Acc	Cow Value Acc	Growth Value Acc	Prod Value Acc								
						★★★															
10	GG 260041	GG260041	WDW 200174	GG 200033	0.0	106	56	98	58	90	45	102	32	89	27	95	43				
						★★★☆															
1	GG 250012	GG250012	WDW 180025	GG 170039	2.0	76	70	115	74	98	54	87	35	110	38	89	54	98	20	89	47
2	GG 250040	GG250040	WDW 200174	GG 140047	0.2	83	69	108	73	92	51	105	22	101	30	87	49				
3	GG 250058	GG 250058	WDW 200174	GG 160036	2.9	82	69	105	59	97	48	105	31	93	33	85	47	96	20	85	42
4	GG 250065	GG 250065	WDW 200174	GG 200026	0.1	81	65	116	57	96	37	105	23	95	28	85	42				
5	GG 260004	GG260004	WDW 200174	GG 230033	1.4	80	64	113	58	92	39	100	24	99	29	81	43				
6	GG 260014	GG260014	WDW 200174	GG 230036	1.3	75	64	121	58	102	39	91	25	102	28	85	43				
7	GG 260034	GG260034	WDW 200174	GG 190015	0.4	103	67	101	58	76	46	105	33	92	30	86	46	90	24	85	42
						★★															
1	GG 250007	GG250007	190Z	GG 160029	0.0	85	72	118	74	81	58	102	43	88	41	74	57	107	36	76	53
2	GG 250008	GG250008	190Z	GG 180004	0.0	91	71	116	73	71	58	97	44	87	40	72	57	105	36	74	53
3	GG 250041	GG250041	WDW 200174	GG 210011	0.1	79	65	126	70	95	45	96	27	86	28	76	47	114	23	79	42
4	GG 250059	GG 250059	WDW 200174	GG 190021	0.1	92	66	113	59	85	46	99	34	85	30	79	47	98	23	79	42

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.

