

HEREFORD

GENOMIC BREEDING VALUE REPORT

September 2026



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EBVs, EBVi's and GEBVs

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

EBV (Breeding Value): Genetic potential relative to the average of the animals born in the base year (1990), expressed in the unit of measurement.

GEBV (Genomic Breeding Value) Interpreted like the EBVi. (GEBV = EBV + Genomic information)

LOGIX Selection values combine different breeding values in a logical way. For example, Heifer Fertility (how early a heifer starts calving), Cow Fertility (how regular she calves) and Longevity (retention within the family) are combined to form the Fertility Value.

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

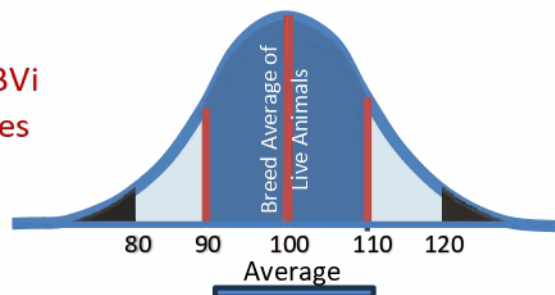
Select for more meat on the carcass as measured from end weight in Phase C and D Growth Tests and RTU scanning.

LOGIX Production Value

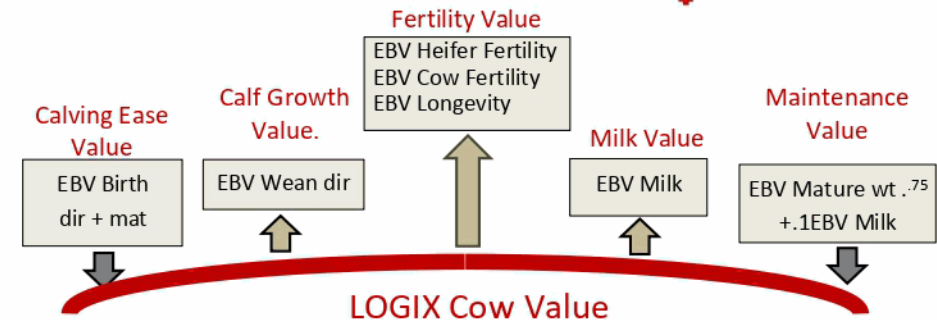


80% LOGIX Cow Value +
20% LOGIX Growth Value

Interpretation of EBVi and Selection Values



LOGIX Cow Value



Fertile cows that produce a heavy calf relative to her own weight.

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)

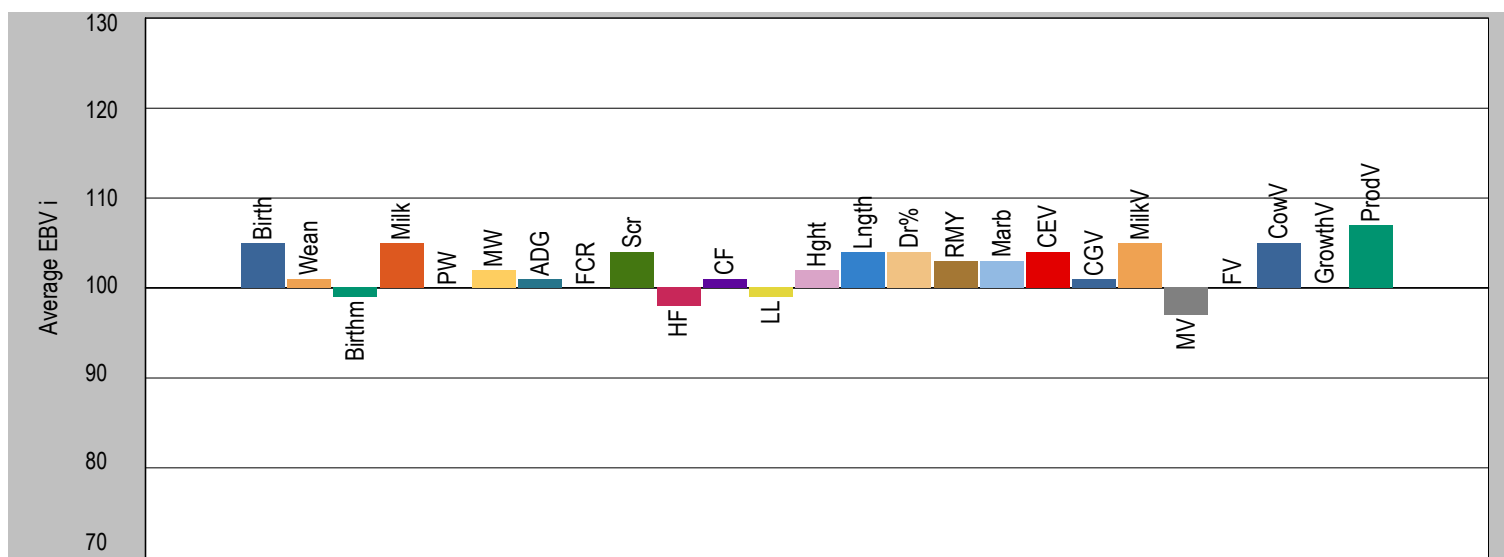
- Maintenance Value >110
 - Cow Value and Fertility Value average to high
- Lighter cows have a lower maintenance.

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	0.42	105	0.77
	Wean Weight	18.4	101	18.0
	Birth Mat.	0.61	99	0.57
	Milk (Wn.Mat.)	9.3	105	8.0
Postwean Growth	Postwean Wt	33.3	100	33.0
	Mature Weight	36	102	34
	ADG	138	101	133
	FCR	-75	100	-75
Fertility	Scrotal Circumf.	17.9	104	16.0
	Heifer Fertility	-4.5	98	-5.6
	Cow Fertility	-3.1	101	-2.9
	Longevity	35.9	99	36.2
Frame	Height	24	102	22
	Length	34	104	31
Carcass	Dressing%	0.15	104	0.10
	RedMeatYield	1.9	103	1.3
	Marbling	-0.15	103	-0.29

Selection Value	Ave. Herd
Calving Ease	104
Calf Growth	101
Milk	105
Maintenance	97
Fertility	100
Cow Value	105
Growth Value	100
Production Value	107

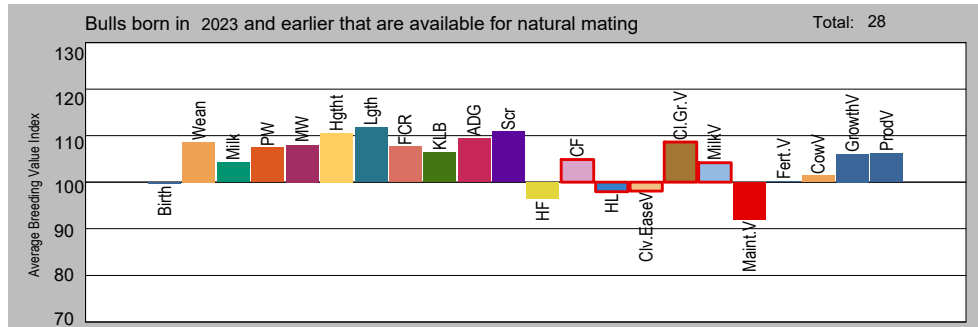
- Average of live animals in the breed: 100
- Above 100: **more favourable**,
- Below 100: **less favourable**

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

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

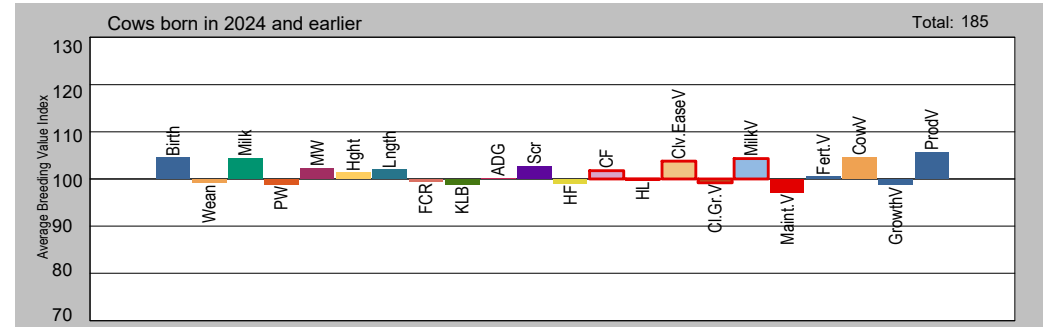
Genetic Windows

Bulls on the farm



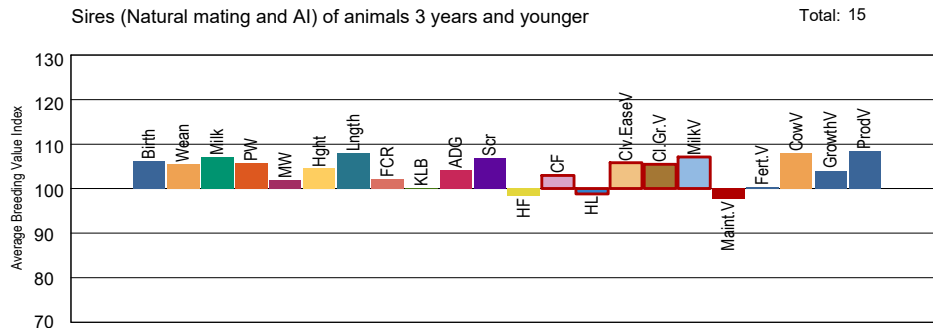
Animals available for breeding

Cow Herd

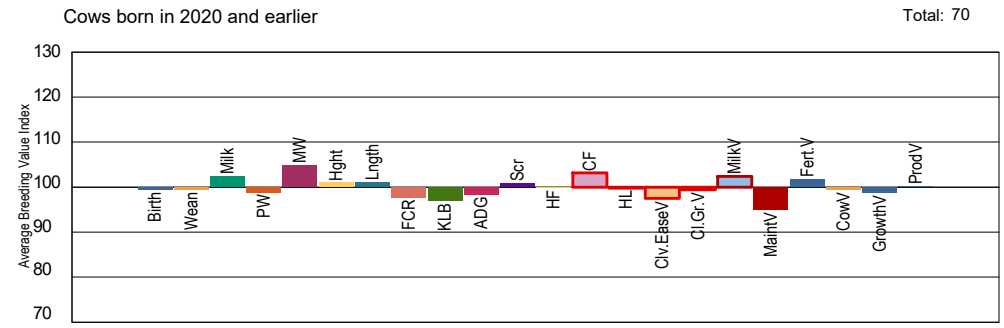


Results of previous selection decisions

Sires of young animals

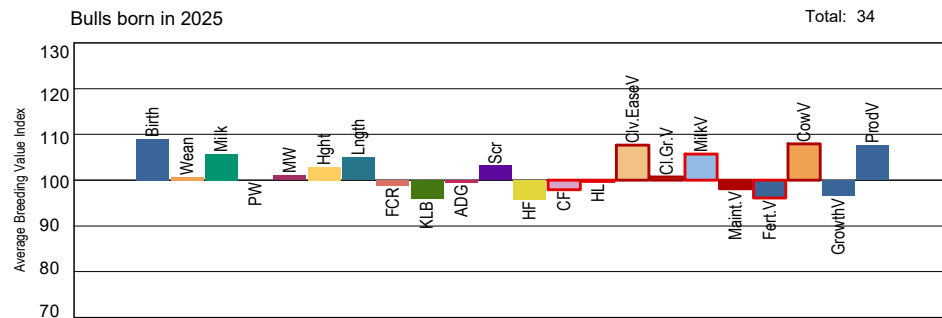


Cows older than 6 years

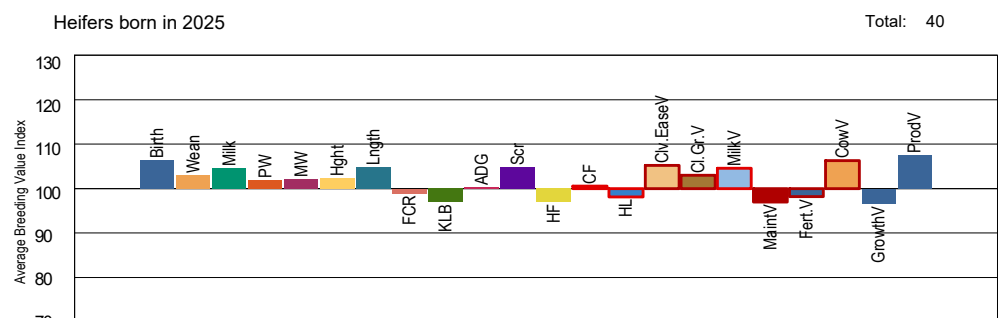


Selection possibilities

Bull calves



Heifer calves

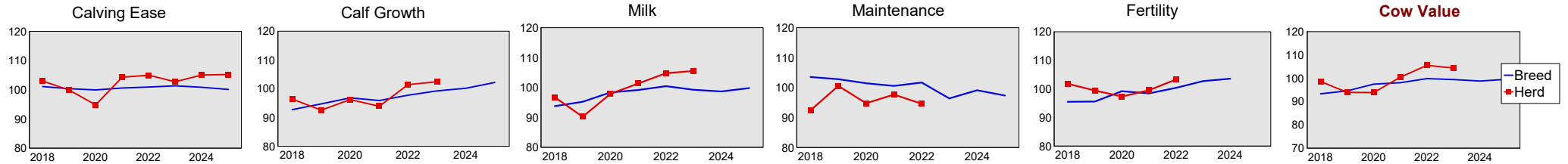


Summary of Cow Herd

			Selection Values (SV)							Calf Weight		Dam		Growth & Efficiency				Fertiity				Frame		
Birth Year	No. Cows	Average Cow Value	Calving Ease	Calf Grwth	Milk	Maint.	Fertility	Cow Value	Growth Value	Prod Value	Birth Weight	Wean Weight	Birth Mat.	Milk (Wn.Mat)	Postwn Weight	Mature Weight	ADG	Kleiber	Scrotal Circumf.	Heifer Fertility	Cow Fertility	Longevity	Height	Length
			Cows in Breed Average:										100	99	100	100	99	99	99	99	98	101	100	100
2013	2	★★★★☆	118	83	112	102	93	106	81	102	115	83	109	112	82	97	81	76	94	100	87	105	87	92
2014	5	★★★★☆	105	97	99	100	106	104	93	116	106	97	99	99	95	99	93	93	99	104	106	100	95	96
2015	6	★★★★	95	100	102	97	92	96	94	95	97	100	94	102	97	103	94	93	94	93	95	95	97	97
2016	7	★★★★	92	104	98	98	108	96	96	95	95	104	94	98	101	102	96	96	98	102	113	94	99	98
2017	7	★★★★☆	102	103	104	90	99	103	107	104	101	103	104	104	101	110	107	104	105	93	105	98	109	109
2018	15	★★★★☆	102	100	104	93	104	103	100	105	102	100	100	104	100	107	100	99	101	98	108	100	101	102
2019	13	★★★★	97	95	97	104	101	98	91	96	99	95	97	97	95	96	91	90	96	100	101	98	94	93
2020	15	★★★★	90	102	107	88	103	97	107	98	95	102	86	107	104	112	106	104	109	105	99	105	109	109
2021	24	★★★★☆	107	97	101	98	100	105	98	107	106	97	103	101	97	101	98	97	102	99	100	103	100	100
2022	28	★★★★★	109	100	107	99	102	110	97	113	109	100	101	107	100	100	102	100	104	98	104	103	101	102
2023	26	★★★★☆	107	99	107	97	101	108	97	111	107	99	100	107	98	102	102	100	104	100	104	98	103	104
2024	37	★★★★☆	107	99	106	99	97	108	101	109	107	99	102	106	100	100	103	102	105	98	97	98	102	103
2025	40	★★★★☆	105	103	105	97	98	106	97	108	106	103	99	105	102	102	100	97	105	97	101	98	102	105
Cows in Herd Average:			103	99	104	97	100	103	97	105	103	99	99	104	98	102	98	96	101	99	102	100	100	101

Genetic Trends for On-Farm Traits

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



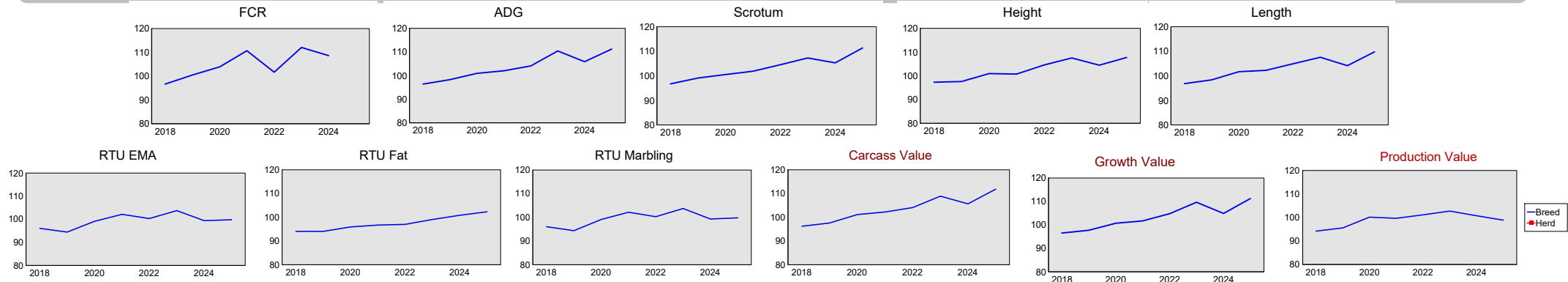
Herd

Birth Year	Calving Ease				Calf Growth			Milk			Maintenance				Fertility								Cow Value
	Birth Weight		Calv. Ease	Mat EBV	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		
2018	108	0.55	0.51	103	96	16.5	96	96	7.02	97	22	34.9	92		13	-6.8	14	-3.3	108	29.9	102	99	
2019	109	0.82	0.48	100	110	14.8	93	110	5.13	90	29	29.4	101		16	-8.0	10	-3.1	112	28.0	99	94	
2020	121	0.92	0.87	95	107	16.4	96	107	7.32	98	30	31.8	95		15	-5.7	12	-2.6	121	30.2	97	94	
2021	124	0.45	0.52	104	110	15.4	94	110	8.33	101	26	30.6	98		16	-4.2	14	-3.0	120	32.0	100	101	
2022	118	0.38	0.55	105	113	18.6	101	113	9.34	105	34	36.9	95		19	-5.1			53	33.0	103	106	
2023	112	0.50	0.62	103	93	19.0	102	93	9.54	105												104	
2024	119	0.40	0.52	105																			
2025	132	0.31	0.61	105																			

Breed

Birth Year	Calving Ease				Calf Growth			Milk			Maintenance					Fertility							Cow Value	
	Birth Weight		Calv. Ease	Dir EBV	Mat EBV	Weaning Weight		Calf Growth	Milk (Wn.Mat.)		Postwean Weight		Mature Weight		Maintenance	Heifer Fert.		Cow Fert.		Longevity		Ferti- lity		
	Number	Dir EBV				Number	EBV		Number	EBV	Milk	Number	EBV	Number		EBV	Number	EBV	Number	EBV	Number			EBV
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			EMA			Fat		Marbling		Carcass Value	Growth Value	Prod Value
	Number	EBV	EBVi	Number	EBV	EBVi	Number	EBV	EBVi	Number	EBV	EBVi	Number	EBV	EBVi	RTU Number	EBV	EBVi	EBV	EBVi	EBV	EBVi			
2018																									
2019																									
2020																									
2021																									
2022																									
2023																									
2024																									
2025																									

Breed

Birth Year	Growth									Frame						Carcass						Selection Values			
	FCR			ADG			Scrotum			Height			Length			RTU Number	EMA		Fat		Marbling		Cracss Value	Growth Value	Prod Value
	Number	EBV	EBVi	Number	EBV	EBVi	Number	EBV	EBVi	Number	EBV	EBVi	Number	EBV	EBVi		EBV	EBVi	EBV	EBVi					
2017	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.	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	Grwth	Value	Value	Value	Value	Value	Dir	Dir	Mat.	Mat.	wt	weight							Fertility	Fertility	ty						Grwth
81E		43092364	160B	112	83	113	115	85	103	85	101	117	83	91	113	83	83	91	94	90	98	77	98	96	96	84	107	90	49	26	
NJW 160B 028X HISTORIC 81E-ET				81	85	46	32	47	58	29	52	-0.46	10.7	0.95	11.8	22.3	16	100	-67	11.1	-4.5	0.7	35.5	20	27	-0.66	0.62	-0.78	1		
BH 100032		WDW 060088	PJB 040010	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	
BENCHMARK 1032				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		78	215
BH 130027		BH 100032	PJB 090043	93	100	127	101	82	95	103	96	100	100	85	127	106	95	101	100	104	73	98	96	106	103	102	109	101	108	65	
BENCHMARK 1327				93	95	86	48	69	76	36	68	0.76	17.9	1.19	15.7	36.9	29	137	-76	17.8	12.8	-2.7	34.2	26	33	0.66	0.81	-0.25		25	37
BH 190023		BH 130027	PJB 090092	97	135	113	86	121	107	136	113	106	135	77	113	142	114	136	124	130	89	143	111	122	127	130	100	101	34	28	
MARK 923				92	93	85	82	76	84	82	84	0.30	32.6	1.49	11.8	59.9	48	268	-106	30.9	2.2	-9.5	40.9	36	58	2.72	-0.03	-0.24			
BH 190058		BH 130027	BH 120049	97	128	100	87	93	98	119	101	98	128	98	100	125	114	120	114	124	87	106	88	120	126	119	134	111	140	45	
SUPER BM 958				86	92	64	30	50	63	24	55	0.90	29.8	0.66	8.1	49.0	48	210	-94	28.1	3.7	-3.8	31.0	35	56	1.90	3.34	0.22			
GG 110026		SLM 080008	GG 080018	101	82	96	103	98	92			98	82	109	96	86	97	79	81	76	106	102	69	82	82	83	89	96	42	41	
GG 110026				87	91	72	26	52	64			0.92	10.4	0.20	6.9	23.9	30	54	-51	4.0	-9.8	-3.1	22.2	11	13	-0.76	-1.10	-0.48		6	16
GG 110035		KRM 030007	GG 050031	101	107	84	88	97	94	111	96	103	107	98	84	104	114	110	107	106	91	112	73	114	110	113	96	115	241	211	
GG 110035				97	98	93	33	77	76	42	69	0.55	21.1	0.66	3.3	35.6	48	169	-84	18.8	0.4	-4.8	24.0	31	41	1.49	-0.39	0.43		47	131
KC 140021		WDW 100067	KC 090020	86	101	99	107	87	90	107	92	93	101	85	99	106	92	105	108	92	90	97	72	108	104	103	95	113	40	39	
BOOKMAKER 421				88	92	77	52	61	72	30	64	1.29	18.4	1.16	7.7	36.6	26	153	-86	12.1	1.1	-2.4	23.6	28	34	0.73	-0.52	0.32		6	12
KC 160032		KC 140021	KC 060031	93	94	84	98	95	87	108	89	95	94	96	84	92	103	110	117	100	107	98	64	103	102	111	98	117	64	59	
DEUCE 632				89	94	70	36	60	68	23	59	1.17	15.4	0.73	3.2	28.1	37	172	-97	16.1	-10.1	-2.6	20.0	24	33	1.35	-0.29	0.54		6	6
KJA 010103		TF H 0024	KJA 980026	121	89	103	100	102	118	69	112	115	89	118	103	91	99	63	58	90	103	105	88	79	85	84	100	84	293	163	
OKER 103				98	98	97	83	86	90	80	88	-0.31	13.5	-0.14	8.8	27.1	32	-5	-22	10.9	-7.5	-3.7	30.8	9	16	-0.66	-0.05	-1.03		99	386
KJA 110057		KJA 080016	KJA 040415	130	84	115	112	88	119	97	118	121	84	123	115	86	86	99	99	101	94	87	96	89	92	106	98	95	261	188	
CAMPBELL 157K				97	98	91	78	78	86	52	79	-0.81	11.4	-0.38	12.3	23.7	20	128	-74	16.7	-1.1	-0.9	34.6	15	23	0.98	-0.22	-0.53		34	85

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	Grwth	Value	Value	Value	Value	Value	Dir	Dir	Mat.	Mat.	wt	weight			Fertility	Fertility	ty					Test	Dgt/Calvs.			
KRM 010048	TH H 0057 KRM D 0049 PRIDE 01 48			112	86	118	114	86	110	89	108	118	86	88	118	87	84	86	91	108	104	84	68	78	78	97	91	99	339	245
				98	98	97	91	88	92	80	90	-0.56	12.0	1.06	13.1	24.8	17	81	-63	19.8	-8.3	-0.4	21.8	9	10	0.26	-0.96	-0.35	54	80
KRM 150061	DVB 130019 KRM 110092 150061			79	98	107	84	88	86	112	89	88	98	107	106	117	109	96	115	102	81	92	113	114	97	91	99	104	89	
				93	96	81	56	69	77	60	74	1.69	17.2	1.51	10.0	36.8	51	166	-70	23.5	-7.3	0.1	32.7	31	45	0.26	-0.94	-0.36	6	14
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		30
PAL 090026	PAL 060126 PAL 060042 09 026			112	70	126	96	83	85	85	83	121	70	76	126	75	102	84	88	85	97	79	82	88	84	81	101	113	26	31
				88	90	82	22	52	64	20	55	-0.79	5.5	1.53	15.6	17.0	35	75	-59	8.3	-3.8	0.3	28.4	15	15	-0.90	0.07	0.35	9	42
PAL 110022	SLM 080026 PAL 070059 11 22			113	96	39	128	84	81	71	76	105	96	120	39	94	78	75	89	62	87	93	78	72	63	68	102	95	27	27
				87	88	79	29	60	66	27	58	0.36	16.1	-0.26	-9.7	28.9	11	40	-60	-3.0	3.1	-1.8	26.4	5	-6	-1.87	0.11	-0.53	9	36
PAL 110073	PAL 060065 PAL 030047 11 73			100	67	100	104	68	63	77	60	97	67	106	100	65	95	76	79	79	97	55	81	80	78	72	101	98	20	19
				86	85	76	24	51	62	24	54	0.96	4.3	0.32	8.1	10.2	28	42	-49	5.2	-3.7	4.1	28.0	10	9	-1.61	0.07	-0.39	5	23
PAL 110085	PAL 030041 PAL 040113 11 85			78	90	98	96	79	73	96	74	79	90	98	98	88	104	94	93	95	92	80	80	93	93	96	92	95	86	81
				92	95	82	28	64	69	29	61	2.31	13.6	0.63	7.5	25.1	38	112	-66	13.5	-0.2	0.2	27.2	18	24	0.19	-0.85	-0.54	10	32
PAL 120038	KJA 010103 PAL 060055 12 38			107	112	86	91	121	107	97	106	101	112	116	86	107	110	95	87	98	113	120	109	98	105	101	104	103	7	7
				83	82	75	46	62	67	42	62	0.73	22.9	-0.09	3.8	37.3	44	114	-59	15.1	-14.3	-6.0	40.4	21	36	0.62	0.40	-0.16	3	20
PAL 150032	P43145081 PAL 100127 15 32			77	110	124	86	121	95	115	98	85	110	81	124	114	113	114	112	108	102	133	102	115	114	113	98	104	6	5
				80	78	72	29	53	60	20	52	1.85	22.2	1.33	14.8	41.9	47	186	-90	19.7	-6.8	-8.0	37.3	32	45	1.49	-0.22	-0.10	5	12
PAL 150037	P43145081 PAL 100075 15 37			99	90	124	101	118	113	93	112	103	90	93	124	91	96	96	104	98	118	116	91	101	100	91	117	104	45	42
				84	92	66	35	54	65	27	57	0.56	13.6	0.85	14.8	27.5	29	119	-80	14.9	-18.1	-5.3	32.4	23	31	-0.18	1.68	-0.09		
PAL 180026	BH 100032 PAL 140058 18 026			113	101	99	96	101	112	99	111	114	101	100	99	106	103	95	93	112	101	100	104	104	104	107	97	105	18	17
				84	87	64	46	58	67	36	61	-0.25	18.3	0.58	7.8	37.0	37	115	-66	21.8	-6.5	-2.9	37.8	25	34	1.03	-0.35	-0.06		

Sires

Bull				Selection Values							Calf		Dam		Growth				Fertility				Frame		Carcass			Measured Progeny		
ID	Index EBV Acc	Sire ID	Dam ID	Calv. Ease Value	Calf Grwth Value	Milk Value	Maint. Value	Fertility Value	Cow Value	Growth Value	Prod Value	Birth Dir	Wean Dir	Birth Mat.	Wean Mat.	Post wn wt	Mature weight	ADG	FCR	Scrotal	Heifer Fertility	Cow Fertility	Long-evi ty	Height	Length	EMA	Fat	Marbling	Birth Grwth Test	Wean Dgt/Calvs.
				Name																										
PAL 180101	GG 110035 PAL 100075	18 101		93	146	100	70	100	95	138	102	98	146	89	100	132	135	137	127	134	79	121	101	146	151	145	114	124	25	16
				82	86	64	28	54	61	28	54	0.90	37.3	1.03	7.9	53.8	70	271	-110	33.0	9.1	-6.2	36.5	51	81	3.88	1.33	0.87		
PAL 200039	KC 140021 PAL 130044	20 039		86	100	106	106	92	94	93	93	85	100	102	106	103	93	93	90	100	94	93	98	95	103	100	109	105	2	
				73	73	57	35	46	56	27	50	1.87	17.9	0.49	9.7	35.1	26	106	-62	15.7	-1.4	-1.8	35.2	19	33	0.52	0.82	-0.05		
PAL 210049	KJA 110057 PAL 150059	21 049		117	85	105	117	90	111	88	109	115	85	106	105	85	82	86	87	85	103	81	96	80	79	88	97	83	24	
				82	74	61	42	50	60	28	54	-0.36	11.6	0.33	9.5	23.5	16	83	-59	8.6	-7.7	0.0	34.6	10	10	-0.39	-0.33	-1.12		
PAL 220075	KJA 110057 PAL 130031	22 075		132	91	111	98	87	121	94	119	130	91	105	111	91	100	94	99	100	83	91	114	101	101	108	99	104	32	
				83	74	61	44	51	61	32	55	-1.48	14.2	0.37	11.3	27.3	34	112	-74	16.1	6.2	-1.6	42.4	23	31	1.10	-0.19	-0.09		
SLM 140006	43092364 SLM 050006	406		109	101	107	108	113	123	105	123	115	101	87	107	105	90	105	101	110	117	106	99	111	115	116	105	113	257	193
				97	98	94	88	78	89	54	82	-0.37	18.5	1.12	9.9	36.0	24	152	-77	20.9	-17.1	-3.8	35.9	29	46	1.74	0.43	0.34	47	55 156
WDW 080082	WDW 020023 WDW 040079	WDW080082		105	95	92	121	108	115	75	110	102	95	107	92	88	80	76	80	95	119	104	73	87	84	94	102	99	276	204
				97	98	94	84	82	89	82	88	0.61	15.9	0.28	5.6	25.2	13	43	-49	13.3	-19.0	-3.5	24.0	14	15	0.04	0.15	-0.33	37	46 146
WDW 150142	JR 110008 WDW 100001	FAR FETCH 150142		96	88	68	112	84	71	88	71	88	88	119	68	90	90	85	90	85	87	95	75	83	78	93	67	98	59	54
				91	94	79	52	66	75	44	69	1.65	12.9	-0.21	-1.2	26.7	23	78	-63	8.2	3.6	-2.1	25.3	12	9	0.02	-3.27	-0.41	1	12 21
WDW 190009	P43384585 WDW 160137	CATAPULT		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	24	
WDW 200023	652D WDW 170137	BOLT PERMORNANCE		108	122	103	82	113	113	119	116	109	122	99	103	125	120	116	115	131	93	124	111	130	129	120	107	109	163	42
				85	91	50	41	48	63	46	60	0.08	27.4	0.60	8.7	49.3	54	194	-94	31.5	-0.8	-6.7	41.1	41	59	1.98	0.67	0.15	7	
ZK 060018	KRM 000059 BMH 030045	BEEFMAKER 060018		99	96	76	108	68	76	93	75	98	96	104	76	90	93	97	112	85	78	76	71	99	90	113	84	99	278	219
				98	98	95	87	90	91	91	91	0.92	16.3	0.39	1.1	26.6	27	121	-91	8.7	9.2	0.7	23.5	22	21	1.51	-1.64	-0.32	37	59 164

Breeding Values and Accuracies: Bulls

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

Inbreeding in red is high

Value <80 Value >120

Breeding values with an accuracy < 5% are not printed

Animal				Selection Values									Birth		Wean				Growth			Fertility				Frame		Carcass			
Index EBV Acc	% Inbreeding	Sire ID Dam ID		Calv. Ease V	Calf Growth V		Milk V	Maint. V	Fertility V	Cow Value	Growth Value	Prod. Value	Carcass Value	Birth wt dir	Birth mat	Mature wt	Wean wt	Wean mat	Cow-Calf Ratio (Wean)	Postwean wt	ADG	FCR	Scrotal Circ.	Heifer Fertility	Cow Fertility	Longevity	Height	Length	EMA	Fat	Marbling
ID Number Name																															
KC 160032 84756378 DEUCE 632	1	KC 140021 KC 060031		93 89	94 94	84 70	98 36	95 60		87 68	108 23	89 59	106 16	95 1.17 96	96 0.73 73	103 37 36	94 15.4 94	84 3.2 70	81 61 67	92 28.1 57	110 172 27	117 -97 17	100 16.1 29	107 -10.1 65	98 -2.6 35	64 20.0 80	103 24 28	102 33 28	111 1.35 16	98 -0.29 15	117 0.54 15
BH 190058 90003674 SUPER BM 958	3	BH 130027 BH 120049		97 86	128 92	100 64	87 30	93 50		98 63	119 24	101 55	129 26	98 0.90 98	98 0.66 61	114 48 30	128 29.8 92	100 8.1 64	115 139 62	125 49.0 72	120 210 28	114 -94 18	124 28.1 31	87 3.7 51	106 -3.8 27	88 31.0 72	120 35 31	126 56 31	119 1.90 27	134 3.34 25	111 0.22 25
PAL 230003 96185269 23 003		PAL 150037 PAL 200081		89 67	94 70	115 47	95 23	112 38		104 48	98 21	104 43	98 22	96 1.06 76	84 1.24 47	103 37 23	94 15.4 70	115 12.2 47	106 119 47	98 31.5 33	99 128 26	100 -75 14	100 16.2 28	114 -15.6 40	106 -3.8 25	102 37.0 49	104 25 29	103 33 28	94 0.03 22	105 0.41 21	103 -0.12 21
PAL 230006 96185244 23 006	1	PAL 150037 PAL 200006		109 67	94 70	122 47	86 23	119 38		122 48	103 21	122 43	107 22	114 -0.26 76	89 1.00 47	113 47 23	94 15.2 70	122 14.5 47	108 123 47	97 31.0 34	105 153 26	105 -81 14	111 21.7 28	115 -15.6 40	118 -5.7 25	101 36.5 48	108 27 29	109 39 28	97 0.27 22	117 1.67 21	110 0.18 21
PAL 230010 96185228 23 010	1	KJA 110057 PAL 200007		118 70	95 71	112 56	96 43	88 46		114 56	108 34	115 52	106 36	118 -0.53 76	103 0.43 58	103 36 43	95 15.7 71	112 11.4 56	105 115 57	95 29.9 42	108 162 48	105 -81 16	109 20.6 51	92 -0.1 49	87 -0.9 32	103 37.7 56	105 26 51	107 38 50	111 1.35 37	95 -0.51 34	101 -0.24 33
PAL 230014 96185137 23 014		PAL 150037 PAL 200076		90 66	102 70	125 47	85 24	93 38		97 48	112 22	99 43	115 22	99 0.83 75	78 1.45 46	113 47 24	102 18.9 70	125 15.2 47	116 141 47	105 36.3 34	113 183 26	112 -90 15	115 23.3 28	102 -7.1 40	87 -0.9 25	98 35.2 49	120 35 29	120 51 28	107 1.06 23	110 0.93 21	110 0.21 21
PAL 230015 96185152 23 015	2	KJA 110057 PAL 200056		112 70	87 71	113 56	100 43	89 46		104 56	95 32	103 51	95 34	112 -0.13 76	101 0.52 58	98 31 43	87 12.7 71	113 11.6 56	102 109 57	90 26.6 41	95 116 48	94 -67 14	100 15.8 50	96 -3.0 49	83 -0.3 32	104 38.1 56	95 19 51	96 27 50	98 0.37 36	95 -0.51 33	96 -0.47 32
PAL 230017 96187299 23 017	1	BH 190058 PAL 200093		113 86	101 87	108 84	81 82	109 66		122 80	103 82	122 80	116 82	113 -0.22 88	101 0.51 83	120 54 82	101 18.3 87	108 10.2 84	99 103 84	106 36.6 60	108 162 82	115 -95 82	110 20.9 82	103 -7.8 33	114 -5.1 82	93 33.2 84	118 34 82	115 46 82	104 0.77 82	143 4.16 82	124 0.85 82
PAL 230018 96185160 23 018	1	BH 190058 PAL 200040		98 66	116 70	107 47	87 23	98 37		103 48	114 22	105 43	118 22	103 0.57 76	89 1.01 45	113 47 23	116 24.7 70	107 9.9 47	112 131 47	116 43.2 42	113 181 27	105 -82 15	119 25.6 29	92 0.1 39	103 -3.3 24	107 39.1 48	115 32 29	119 49 28	109 1.18 23	117 1.64 22	109 0.16 21
PAL 230023 96184536 23 023	1	BH 190058 PAL 200027		89 66	114 70	90 45	95 22	85 36		82 47			111 18	90 1.51 76	99 0.59 43	106 39 22	114 23.8 70	90 5.1 45	100 105 46	111 40.3 41	108 161 20	109 -87 15	107 19.5 22	86 4.1 38	93 -1.8 23	90 31.6 48	107 27 22	109 40 21	110 1.26 18	115 1.43 17	109 0.13 17
PAL 230026 96183983 23 026	1	BH 190058 PAL 200015		72 66	125 70	103 46	82 21	95 33		82 47	121 20	86 42	124 22	78 2.37 76	86 1.14 45	119 53 21	125 28.4 70	103 8.9 46	113 133 46	125 49.0 42	120 209 25	112 -90 13	124 27.7 27	89 1.9 33	102 -3.1 19	101 36.8 48	123 36 27	126 56 26	117 1.77 23	116 1.52 21	112 0.28 21
PAL 230030 96185277 23 030		PAL 150059		85 62	98 39	89 39	114 15	82 27		83 35			95 12	83 2.04 72	105 0.35 40	87 20 15	98 17.2 39	89 4.6 39	94 92 31	92 27.7 20	102 140 14	92 -65 7	105 18.5 15	79 8.8 26	103 -3.3 18	63 19.6 37	103 24 15	91 22 15	84 -0.67 12	92 -0.87 11	88 -0.86 11

Breeding Values and Accuracies: Bulls

Green: >120 High
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Animal				Selection Values									Birth		Wean				Growth			Fertility				Frame		Carcass		
Index EBV Acc	% Inbreeding	Sire ID Dam ID		Calv. Ease V	Calf Growth V	Milk V	Maint. V	Fertility V	Cow Value	Growth Value	Prod. Value	Carcass Value	Birth wt dir	Birth mat	Mature wt	Wean wt	Wean mat	Cow-Calf Ratio (Wean)	Postwean wt	ADG	FCR	Scrotal Circ.	Heifer Fertility	Cow Fertility	Longevity	Height	Length	EMA	Fat	Marbling
ID Number Name																														
PAL 230032 96184197 23 032	1	PAL 150037 PAL 170117		91 69	117 73	104 51	85 21	121 39	107 50			114 14	95 1.11 78	90 0.97 49	116 50 21	117 25.0 73	104 9.2 51	109 126 48	113 41.2 32	113 181 21	114 -94 13	112 22.0 23	114 -15.4 40	126 -6.9 26	87 30.5 52	116 33 23	116 47 22	113 1.47 15	105 0.40 14	111 0.22 14
PAL 230034 96184312 23 034		KJA 110057 PAL 160040		103 73	99 74	105 61	105 42	103 49	112 59	96 29	111 53	97 31	99 0.84 79	111 0.10 61	93 27 42	99 17.5 74	105 9.3 61	106 118 59	97 30.8 41	96 118 45	99 -74 11	97 14.2 47	103 -7.9 54	103 -3.4 34	97 35.0 58	94 19 48	94 25 47	99 0.46 32	102 0.14 30	99 -0.35 29
PAL 230039 96184387 23 039	1	PAL 180101 PAL 190094		84 67	121 70	81 48	86 19	107 38	81 48			111 14	82 2.10 76	104 0.40 48	116 51 19	121 26.6 70	81 2.4 48	93 90 46	113 41.6 30	109 166 20	108 -86 16	108 19.9 22	96 -3.0 40	115 -5.3 25	98 35.4 48	112 30 22	113 44 21	114 1.54 14	101 0.07 13	116 0.47 13
PAL 230041 96184528 23 041	1	KJA 110057 PAL 170089		103 72	91 74	109 60	105 41	93 46	105 58	96 28	104 52	97 30	100 0.76 78	108 0.24 59	93 26 41	91 14.0 74	109 10.5 60	103 112 58	93 28.4 41	98 126 44	100 -76 9	98 15.0 46	98 -4.1 49	90 -1.4 32	99 35.6 58	93 18 47	94 25 46	100 0.52 32	102 0.11 29	101 -0.23 29
PAL 230047 96184619 23 047	2	PAL 150037 PAL 190044		105 67	93 71	108 49	103 29	111 40	118 51	87 26	115 46	94 26	104 0.46 76	104 0.42 49	95 28 29	93 15.0 71	108 10.3 49	104 113 50	91 27.5 38	88 89 29	95 -68 21	96 14.0 31	110 -12.4 42	110 -4.4 28	99 35.7 50	98 21 31	96 27 31	94 0.06 26	108 0.76 25	103 -0.17 24
PAL 230051 96184643 23 051	2	PAL 180101 PAL 190038		97 67	129 70	97 47	92 19	93 35	94 47			126 14	97 1.00 76	101 0.52 48	108 42 19	129 30.0 70	97 7.0 47	115 138 45	123 47.7 29	124 225 20	120 -101 16	123 27.6 21	70 15.1 34	116 -5.4 22	108 39.6 48	126 39 21	129 59 21	129 2.70 15	98 -0.27 13	113 0.34 13
PAL 230062 96184858 23 062	1	PAL 150037 PAL 160093		91 69	101 74	119 53	90 21	131 40	111 50			105 14	97 0.99 78	87 1.10 51	109 43 21	101 18.2 74	119 13.6 53	113 133 49	101 33.5 32	106 156 21	109 -87 13	106 18.8 23	126 -23.3 42	127 -7.0 26	98 35.1 52	109 28 23	108 39 22	104 0.82 15	104 0.32 14	107 0.06 14
PAL 230067 96183967 23 067	3	KJA 110057 PAL 160070		108 73	98 75	101 61	107 43	93 49	108 59	92 30	106 53	95 31	103 0.56 79	113 0.05 61	92 25 43	98 17.2 75	101 8.3 61	103 112 60	97 31.1 41	94 111 46	96 -70 12	97 14.4 48	94 -1.2 55	94 -2.1 34	101 36.5 58	91 17 49	92 23 48	99 0.42 32	102 0.17 30	96 -0.48 29
PAL 230069 96184106 23 069	3	PAL 180101 PAL 180069		104 68	133 70	97 50	77 25	106 39	105 50	130 20	110 44	132 18	105 0.41 76	98 0.63 50	125 60 25	133 31.7 70	97 7.0 50	110 128 48	122 47.3 36	126 232 24	118 -98 16	123 27.4 25	95 -2.1 42	114 -5.0 27	105 38.7 49	130 41 25	133 63 25	130 2.73 19	106 0.58 18	108 0.10 18
PAL 230077 96184239 23 077	14	PAL 180101 PAL 180107		79 68	147 70	98 50	70 17	92 39	81 48			144 12	86 1.80 76	84 1.21 50	135 70 17	147 37.9 70	98 7.4 50	118 144 46	141 59.7 32	139 279 20	124 -105 14	134 33.1 21	71 14.1 41	113 -5.0 26	103 37.5 49	134 44 21	147 77 20	143 3.73 13	104 0.32 12	111 0.25 12
PAL 230078 96184247 23 078	3	KJA 110057 PAL 130075		127 74	80 74	117 62	105 41	92 46	111 58	93 30	109 52	93 30	122 -0.84 79	114 -0.01 62	93 26 41	80 9.5 74	117 12.9 62	102 109 59	82 21.5 42	93 106 45	93 -66 12	97 14.2 47	98 -4.0 48	88 -1.1 32	104 38.0 58	91 17 47	92 23 47	98 0.36 31	98 -0.27 28	100 -0.27 27
PAL 230104 96184163 23 104	1	BH 190058 PAL 170082		90 69	119 73	101 51	91 23	102 38	96 50			119 20	91 1.45 78	99 0.63 49	109 43 23	119 25.9 73	101 8.2 51	111 130 49	118 44.6 42	116 193 21	112 -91 12	116 24.0 23	95 -1.9 39	110 -4.5 24	96 34.3 50	112 30 25	116 46 23	112 1.41 20	121 2.03 19	105 -0.06 18

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ID Number Name																														
PAL 230105 96184270 23 105	1	BH 190058 PAL 170060	103 69	114 72	103 50	89 27	89 37	101 50	115 26	104 45	118 24	104 0.44 78	98 0.64 49	112 46 27	114 24.0 72	103 8.8 50	108 123 50	111 40.2 44	115 191 28	114 -93 24	115 23.6 29	85 4.6 36	97 -2.5 25	98 35.4 50	118 33 30	120 50 29	119 1.96 25	113 1.27 24	110 0.20 24	
PAL 230109 96184361 23 109	8	BH 190058 PAL 180088	103 68	121 70	97 49	88 25	97 38	100 49	117 20	103 43	120 20	104 0.47 77	99 0.63 49	113 47 25	121 27.0 70	97 7.0 49	108 122 48	119 45.1 44	117 195 23	111 -89 15	118 24.9 25	97 -3.4 40	97 -2.5 23	104 38.1 50	114 31 25	120 50 24	118 1.85 21	113 1.23 20	112 0.27 20	
PAL 230114 96184585 23 114	1	BH 190023 PAL 140082	90 70	118 72	112 53	86 18	109 34	102 49			121 12	99 0.85 78	79 1.41 53	114 48 18	118 25.7 72	112 11.5 53	118 144 48	120 45.9 40	122 214 17	114 -93 9	123 27.3 18	90 0.9 35	121 -6.1 19	110 40.8 48	118 33 17	120 51 17	117 1.80 13	104 0.39 12	102 -0.20 12	
WDW 230029 95046736 MAN HUNT		WDW 200023 WDW 200100	104 66	113 58	101 42	91 28	110 34	108 45	108 25	109 41	111 34	103 0.52 76	103 0.46 43	110 44 28	113 23.3 58	101 8.1 42	106 118 43	114 41.9 38	105 153 35	106 -83 12	115 23.2 39	96 -2.6 38	115 -5.2 20	121 45.7 45	118 33 40	114 45 39	108 1.07 36	109 0.81 33	104 -0.11 32	
PAL 240002 98787625 24 002		P43145081 PAL 110021	100 85	127 85	114 84	94 81	104 72	106 80	121 80	109 80	130 80	102 0.60 85	95 0.76 84	104 38 81	127 29.4 85	114 12.1 84	131 173 83	126 50.0 58	126 231 81	124 -105 80	118 25.1 81	88 2.5 52	110 -4.4 80	128 48.7 84	111 29 81	121 51 81	117 1.80 80	120 1.93 80	119 0.61 80	
PAL 240004 99684342 24 004	1	BH 100032 PAL 170065	108 86	108 85	106 84	112 82	103 73	118 80	112 81	119 80	113 81	106 0.33 86	107 0.29 85	87 20 82	108 21.2 85	106 9.7 84	117 143 84	110 39.7 65	116 194 81	115 -94 80	99 15.4 82	112 -13.7 54	92 -1.6 81	108 39.6 84	97 21 82	107 38 82	97 0.31 81	100 -0.05 81	83 -1.12 81	
PAL 240005 98787641 24 005	1	BH 100032 PAL 170065	86 85	131 85	92 84	71 82	99 73	87 80	124 82	92 80	128 81	86 1.81 85	102 0.51 84	135 69 82	131 31.1 85	92 5.7 84	103 111 84	132 53.3 65	125 228 81	119 -99 81	120 26.2 82	84 5.3 54	117 -5.5 81	92 32.6 84	118 33 82	121 52 82	119 1.93 81	111 1.05 81	116 0.48 81	
PAL 240006 99684334 24 006		P43145081 PAL 110021	99 64	106 63	103 63	96 35	104 49	105 53	107 26	106 48	108 23	96 1.08 65	109 0.19 62	103 37 35	106 20.4 63	103 8.8 63	105 117 54	105 36.2 42	108 161 32	106 -83 19	109 20.4 34	96 -2.7 52	110 -4.4 35	103 37.7 59	107 27 35	107 38 35	104 0.81 24	106 0.60 22	110 0.21 22	
PAL 240010 98787658 24 010	1	BH 100032 PAL 170065	103 64	107 62	111 60	92 42	108 50	114 54	110 31	115 49	113 34	104 0.46 65	99 0.62 61	107 40 42	107 20.7 62	111 11.3 60	112 131 55	108 38.2 51	111 175 37	110 -88 24	110 20.8 39	107 -10.6 54	108 -4.2 36	96 34.4 59	109 28 39	111 42 39	108 1.09 35	109 0.82 33	105 -0.07 33	
PAL 240011 99684367 24 011	1	BH 100032 PAL 170065	103 64	107 62	111 60	92 42	108 50	114 54	110 31	115 49	113 34	104 0.46 65	99 0.62 61	107 40 42	107 20.7 62	111 11.3 60	112 131 55	108 38.2 51	111 175 37	110 -88 24	110 20.8 39	107 -10.6 54	108 -4.2 36	96 34.4 59	109 28 39	111 42 39	108 1.09 35	109 0.82 33	105 -0.07 33	
PAL 240013 98787633 24 013	1	BH 100032 PAL 170065	103 64	107 62	111 60	92 42	108 50	114 54	110 31	115 49	113 34	104 0.46 65	99 0.62 61	107 40 42	107 20.7 62	111 11.3 60	112 131 55	108 38.2 51	111 175 37	110 -88 24	110 20.8 39	107 -10.6 54	108 -4.2 36	96 34.4 59	109 28 39	111 42 39	108 1.09 35	109 0.82 33	105 -0.07 33	
PAL 240015 99730681 24 015		P43145081 PAL 160093	84 73	111 63	108 61	89 29	123 46	105 52	110 20	106 46	110 22	88 1.67 78	92 0.89 61	111 45 29	111 22.5 63	108 10.4 61	110 128 51	110 39.2 37	114 184 25	115 -94 13	108 20.0 27	117 -17.6 51	124 -6.5 30	94 33.4 57	112 30 29	110 41 28	111 1.34 23	97 -0.34 21	106 0.02 21	

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ID Number Name																													
PAL 240021 98786866 24 021		SLM 140006 PAL 210039	83 87	114 85	73 84	106 82	80 72	65 80	117 82	69 80	105 82	84 1.97	99 0.60	96 29	114 23.8	73 0.1	89 81	119 45.4	115 191	110 -88	90 10.9	99 -5.2	70 1.7	91 32.3	102 24	103 34	96 0.23	80 -2.06	105 -0.04
PAL 240022 97754709 24 022	2	KJA 110057 PAL 210101	101 70	102 61	104 52	102 41	93 44	103 52	100 28	103 47	101 30	98 0.90	106 0.31	97 31	102 18.7	104 9.2	106 119	103 34.7	100 132	99 -74	105 18.7	96 -2.5	92 -1.7	102 36.9	98 21	100 31	108 1.09	98 -0.25	103 -0.16
PAL 240023 98786809 24 023		SLM 140006 PAL 210022	120 86	93 84	119 83	97 82	101 73	124 80	105 80	124 80	102 81	126 -1.16	87 1.11	100 34	93 15.1	119 13.6	111 129	89 26.1	101 137	95 -69	116 23.8	97 -3.9	111 -4.6	80 27.3	109 28	111 41	111 1.33	71 -2.87	101 -0.22
PAL 240024 98786833 24 024		SLM 140006 PAL 210064	94 87	100 85	125 84	108 83	108 72	109 80	95 82	107 80	98 82	100 0.78	86 1.13	89 23	100 17.9	125 15.2	127 165	100 33.2	95 114	88 -60	96 13.8	104 -8.0	107 -3.9	112 41.5	97 21	104 35	112 1.42	75 -2.56	71 -1.68
PAL 240025 98786783 24 025		SLM 140006 PAL 210052	119 70	97 61	111 56	100 48	115 47	129 55	106 30	129 50	109 46	122 -0.84	95 0.79	98 32	97 16.9	111 11.2	108 123	98 31.9	107 161	105 -82	110 20.9	118 -17.8	107 -4.0	103 37.6	109 28	111 42	116 1.67	100 -0.08	108 0.12
PAL 240028 97754717 24 028	2	KJA 110057 PAL 210108	123 69	96 61	109 53	95 40	98 46	124 52	111 28	125 47	112 30	121 -0.78	106 0.31	104 38	96 16.5	109 10.4	103 111	95 30.0	113 181	113 -92	110 21.0	100 -5.4	99 -2.7	95 33.9	105 26	108 39	118 1.82	98 -0.26	104 -0.09
PAL 240030 97754691 24 030	1	KJA 110057 PAL 210105	117 70	94 61	107 53	103 41	98 46	120 53	97 28	119 48	97 30	116 -0.44	104 0.42	95 29	94 15.4	107 10.0	104 113	96 30.4	97 121	97 -71	102 16.7	98 -4.3	97 -2.5	104 37.8	96 20	96 27	104 0.84	97 -0.39	101 -0.26
PAL 240035 97754741 24 035	1	KJA 110057 PAL 210107	129 70	85 61	110 52	108 41	91 46	118 53	91 29	116 48	96 31	126 -1.13	109 0.20	90 24	85 11.6	110 10.9	101 108	85 23.4	93 107	96 -70	105 18.6	90 1.5	94 -2.0	101 36.4	100 22	98 28	103 0.73	103 0.26	102 -0.19
PAL 240037 97754774 24 037	1	BH 190058 PAL 210013	99 66	112 58	106 43	93 25	92 35	102 45	110 20	103 40	115 20	99 0.85	101 0.52	107 40	112 22.9	106 9.6	111 129	111 40.2	111 175	109 -86	113 22.3	89 2.0	100 -2.9	92 32.9	110 28	113 43	113 1.47	116 1.50	107 0.06
PAL 240038 97754782 24 038	1	BH 190058 PAL 210043	86 67	119 59	101 44	95 25	92 35	88 45			112 20	88 1.67	96 0.72	104 38	119 26.0	101 8.2	113 134	117 43.9	109 166	106 -83	111 21.5	89 1.9	98 -2.6	96 34.4	107 27	110 41	110 1.28	115 1.43	106 -0.02
PAL 240047 98039035 24 047	2	PAL 180101 PAL 170057	95 69	124 57	105 50	82 20	100 35	101 45			125 14	95 1.10	99 0.62	119 53	124 28.0	105 9.3	113 134	115 42.8	119 206	116 -95	118 25.0	88 2.5	113 -4.9	98 35.3	124 38	128 58	123 2.23	109 0.86	117 0.51
PAL 240060 98039118 24 060	2	PAL 200039 PAL 140063	87 68	104 54	88 49	106 20	86 36	80 44			93 12	83 1.99	109 0.20	94 27	104 19.8	88 4.3	96 95	103 35.2	92 103	93 -67	92 12.1	82 6.9	96 -2.2	94 33.7	93 18	94 24	93 0.00	105 0.41	105 -0.05

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	PAL 240062		KJA 110057 PAL 180022	109	89	114	103	102	111	97	110	96	107	107	95	89	114	106	93	97	98	97	96	105	105	94	94	102	96	99
	98039167 24 062			71	61	58	40	46	54	28	49	30	0.27	0.31	28	13.3	11.9	117	28.4	124	-73	14.3	-3.1	-3.7	38.3	19	25	0.63	-0.40	-0.35
													77	59	40	61	58	53	39	44	9	46	50	33	54	46	45	31	28	28
	PAL 240069		KJA 110057 PAL 150059	113	93	109	110	96	119	94	117	93	113	102	89	93	109	107	92	95	97	95	100	96	93	90	89	98	98	93
	98039233 24 069			73	63	60	42	47	55	28	50	31	-0.16	0.48	22	15.1	10.4	121	28.1	113	-71	13.6	-5.9	-2.3	33.3	16	20	0.34	-0.27	-0.62
													79	61	42	63	60	55	41	45	10	47	51	33	58	48	47	32	30	29
	PAL 240071	1	KJA 110057 PAL 180014	118	86	113	104	89	109	95	108	95	114	112	94	86	113	103	84	94	93	100	94	88	97	88	92	94	108	91
	98039258 24 071			72	62	59	44	46	55	31	50	33	-0.25	0.09	28	12.0	11.8	111	23.0	112	-66	16.2	-1.7	-1.1	35.1	15	23	0.08	0.70	-0.72
													78	60	44	62	59	55	44	46	14	48	50	32	56	49	48	34	32	31
	PAL 240074		SLM 140006 PAL 130044	115	92	108	107	101	120	88	118	95	117	98	92	92	108	104	92	88	87	102	107	95	100	95	102	101	103	105
	98786882 24 074			74	62	62	50	51	58	36	54	46	-0.47	0.64	25	14.6	10.2	114	27.6	89	-58	17.1	-10.6	-2.1	36.3	19	32	0.59	0.21	-0.07
													79	62	50	62	62	58	53	52	19	54	56	39	57	54	54	47	45	44
	PAL 240079	1	KJA 110057 PAL 200006	112	91	116	92	104	116	102	115	104	109	110	106	91	116	104	95	104	101	111	103	103	102	99	102	102	108	104
	98039308 24 079			71	62	56	42	47	54	32	50	34	0.13	0.17	40	14.3	12.5	114	29.9	148	-76	21.4	-7.7	-3.3	36.9	22	33	0.66	0.70	-0.08
													77	57	42	62	56	53	41	47	13	50	53	33	55	50	49	35	33	32
	PAL 240080		SLM 140006 PAL 180065	106	96	106	102	113	118	96	117	100	106	101	96	96	106	104	99	94	93	100	115	107	96	101	104	104	103	97
	98786890 24 080			72	62	59	49	49	57	34	52	47	0.34	0.52	30	16.3	9.7	113	32.2	112	-66	16.0	-16.1	-4.0	34.5	23	35	0.81	0.30	-0.42
													77	60	49	62	59	57	52	50	16	52	55	36	55	52	52	48	46	45
	PAL 240081		SLM 140006 PAL 180030	113	97	107	99	99	117	95	116	99	116	94	99	97	107	104	96	93	96	100	108	95	85	101	99	94	117	104
	98786924 24 081			86	84	83	81	72	79	80	79	81	-0.40	0.80	33	16.6	10.0	113	30.5	107	-71	15.7	-11.4	-2.2	29.4	23	30	0.04	1.59	-0.12
													87	83	81	84	83	83	66	81	78	81	55	80	82	81	81	81	81	80
	PAL 240086		KJA 110057 PAL 180108	106	98	107	98	113	117	100	117	100	102	110	101	98	107	104	97	102	103	104	109	113	96	98	99	107	91	100
	98039357 24 086			72	62	59	40	48	54	29	49	30	0.62	0.17	35	17.1	9.9	113	30.8	140	-78	17.8	-12.2	-5.0	34.6	21	30	1.04	-0.93	-0.27
													77	60	40	62	59	54	40	45	11	47	54	34	56	47	46	31	29	28
	PAL 240087		SLM 140006 PAL 190033	100	101	110	108	116	118	94	116	100	105	88	91	101	110	114	101	92	89	104	120	107	99	101	104	106	104	106
	98786916 24 087			72	62	59	50	49	57	38	53	49	0.38	1.05	24	18.5	10.7	135	34.0	102	-61	17.8	-19.5	-4.0	35.7	23	35	0.95	0.31	-0.01
													77	60	50	62	59	57	52	52	21	54	55	36	55	54	54	50	48	47
	PAL 240088		KJA 110057 PAL 190094	110	89	90	107	100	102	89	100	88	103	118	93	89	90	86	89	91	94	93	103	99	94	85	85	96	93	102
	98201080 24 088			71	62	57	42	47	54	30	49	30	0.55	-0.17	27	13.3	5.2	74	25.8	99	-67	12.3	-7.8	-2.7	33.6	13	16	0.18	-0.69	-0.21
													77	58	42	62	57	54	40	44	13	47	52	33	55	47	46	32	29	28
	PAL 240092	2	PAL 210049 PAL 200092	90	99	87	104	84	80			90	90	101	97	99	87	89	95	90	87	95	91	83	98	91	89	88	103	83
	98201015 24 092			66	53	45	23	34	43			18	1.47	0.54	30	17.5	4.1	81	29.7	98	-59	13.3	0.6	-0.3	35.3	17	20	-0.42	0.23	-1.11
													75	47	23	53	45	40	30	25	10	27	34	22	45	27	27	18	17	16
	PAL 240102	1	PAL 210049 PAL 190083	100	89	103	108	96	101			90	103	95	91	89	103	97	90	93	95	88	107	88	96	87	87	91	101	100
	98201049 24 102			67	53	44	23	36	43			16	0.58	0.76	25	13.3	8.7	99	26.4	106	-69	10.1	-10.3	-1.0	34.6	14	18	-0.16	0.01	-0.30
													76	47	23	53	44	40	29	24	7	26	39	24	44	25	25	17	15	15

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ID Number Name																														
PAL 240105 98201098 24 105	1	BH 190058 PAL 160092		91 70	115 60	95 51	94 17	91 34	88 45			108 16	95 1.13 79	90 0.97 50	106 40 17	115 24.4 60	95 6.4 51	105 115 43	112 40.7 41	105 151 18	103 -79 12	106 18.9 20	89 1.7 33	99 -2.8 20	90 31.7 50	106 26 20	107 38 19	104 0.84 16	113 1.27 15	107 0.06 15
PAL 240106 98201106 24 106	4	PAL 210049 PAL 180021		114 67	96 53	96 48	104 24	93 34	108 44			95 18	111 -0.04 76	108 0.24 49	96 29 24	96 16.2 53	96 6.7 48	95 93 42	92 28.0 31	97 120 25	97 -72 9	94 13.0 27	97 -3.8 34	92 -1.7 22	98 35.3 46	96 20 27	94 25 26	99 0.44 19	96 -0.43 17	97 -0.45 17
PAL 240123 98201148 24 123	1	BH 190058 PAL 140119		101 70	114 61	98 52	92 20	104 37	103 46			110 14	99 0.81 79	105 0.39 51	108 42 20	114 23.8 61	98 7.5 52	106 117 44	108 38.4 41	104 150 20	100 -75 13	107 19.2 22	102 -7.0 39	104 -3.5 24	101 36.7 48	107 27 22	110 40 21	103 0.74 15	116 1.57 14	102 -0.19 14
PAL 240129 98200769 24 129	2	PAL 210049 PAL 180002		101 68	97 53	108 47	101 29	91 35	104 45	100 21	104 40	97 22	103 0.54 77	97 0.70 49	97 31 29	97 16.8 53	108 10.4 47	106 118 43	97 31.2 35	98 126 28	97 -72 12	96 13.8 30	98 -4.2 35	87 -0.9 23	99 35.9 46	94 19 30	94 25 29	100 0.47 23	95 -0.57 21	90 -0.79 21
PAL 240135 98200884 24 135		BH 190058 PAL 170117		102 68	121 60	99 50	83 18	108 38	108 45			121 16	106 0.33 77	93 0.87 49	119 53 18	121 26.6 60	99 7.6 50	107 120 43	116 43.4 40	118 200 20	114 -94 12	119 25.3 22	102 -6.7 39	118 -5.7 24	83 28.7 50	118 34 21	121 51 20	118 1.89 17	112 1.16 15	111 0.23 15
PAL 250001 99684383 25 001	6	KJA 010103 PAL 220009		114 70	87 61	104 56	104 46	103 53	113 55	80 43	109 53	83 26	109 0.08 76	113 0.05 58	95 28 46	87 12.5 61	104 9.2 56	96 96 54	90 26.3 52	77 49 51	77 -46 33	91 11.4 53	109 -11.8 56	98 -2.6 46	94 33.5 56	84 12 53	87 18 53	91 -0.17 27	95 -0.51 25	92 -0.67 25
PAL 250005 99848202 25 005		SLM 140006 PAL 220072		97 69	106 61	109 53	98 45	124 45	116 53	105 29	116 48	109 44	103 0.54 75	87 1.10 55	101 35 45	106 20.7 61	109 10.4 53	112 131 53	107 37.4 48	106 157 47	106 -83 10	109 20.6 48	122 -20.5 52	119 -5.9 31	101 36.4 52	112 30 49	113 44 48	112 1.40 45	103 0.26 43	111 0.22 43
PAL 250007 99848210 25 007	1	KJA 010103 PAL 220101		104 70	106 61	104 55	96 43	115 51	114 54	92 40	112 51	96 23	103 0.53 76	103 0.47 57	103 36 43	106 20.3 61	104 9.1 55	106 119 53	107 37.4 52	88 90 47	87 -58 32	100 15.9 49	106 -9.9 55	120 -5.9 44	99 35.6 55	95 19 49	98 29 48	97 0.30 24	101 0.09 22	93 -0.63 21
PAL 250010 99684409 25 010		SLM 140006 PAL 220054		131 70	88 61	112 56	105 48	103 46	128 55	101 30	127 50	104 46	132 -1.59 76	100 0.55 57	93 27 48	88 13.0 61	112 11.5 56	104 114 55	90 26.7 50	101 137 51	99 -74 9	105 18.5 53	106 -10.0 51	98 -2.6 32	104 37.9 54	103 24 53	106 37 52	109 1.22 47	101 0.10 45	108 0.08 45
PAL 250015 99848277 25 015		SLM 140006 PAL 220050		106 70	100 61	104 56	99 46	113 47	116 55	101 32	115 50	105 44	110 0.06 76	93 0.87 57	100 34 46	100 17.8 61	104 9.0 56	103 111 54	101 33.4 50	100 133 48	97 -72 13	105 18.4 50	114 -15.1 54	110 -4.4 34	97 34.8 54	108 28 50	110 41 50	110 1.24 45	103 0.29 44	108 0.12 43
PAL 250017 99674970 25 017	2	BH 190058 PAL 220017		106 65	110 58	98 43	97 26	89 36	100 45	107 20	101 40	111 20	103 0.55 75	108 0.24 43	102 36 26	110 22.1 58	98 7.2 43	105 115 42	108 38.2 41	107 161 26	106 -83 11	110 21.2 28	88 2.9 40	96 -2.3 21	94 33.4 46	105 26 29	108 39 28	110 1.25 21	113 1.28 19	104 -0.11 19
PAL 250019 99847634 25 019		SLM 140006 PAL 220094		112 69	109 61	108 54	99 46	107 46	118 54	108 30	119 49	113 44	117 -0.49 76	89 1.03 55	100 33 46	109 21.8 61	108 10.2 54	114 136 54	110 39.7 50	108 162 48	103 -79 12	114 23.1 49	100 -5.6 53	110 -4.4 32	106 39.0 52	109 28 50	115 46 49	116 1.69 45	103 0.24 44	107 0.06 43

Breeding Values and Accuracies: Bulls

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

Inbreeding in red is high

Value <80 Value >120

Breeding values with an accuracy < 5% are not printed

Animal				Selection Values								Birth		Wean				Growth			Fertility				Frame		Carcass				
Index EBV Acc	% Inbreeding	Sire ID Dam ID		Calv. Ease V	Calf Growth V		Milk V	Maint. V	Fertility V	Cow Value	Growth Value	Prod. Value	Carcass Value	Birth wt dir	Birth mat	Mature wt	Wean wt	Wean mat	Cow-Calf Ratio (Wean)	Postwean wt	ADG	FCR	Scrotal Circ.	Heifer Fertility	Cow Fertility	Longevity	Height	Length	EMA	Fat	Marbling
ID Number Name																															
PAL 250021 99674988 25 021	8	KJA 010103 PAL 220003		129 70	87 61	106 56	109 46	95 52		123 55	84 42	119 52	87 26	123 -0.90 75	118 -0.14 58	90 23 46	87 12.5 61	106 9.7 56	100 104 54	89 25.9 52	82 66 51	82 -51 32	96 14.1 53	91 0.6 53	101 -3.1 45	98 35.1 57	86 14 53	90 21 53	95 0.11 27	95 -0.57 25	90 -0.75 24
PAL 250024 99675068 25 024		BH 190058 PAL 220044		119 65	102 58	101 43	99 27	96 36		116 45	103 20	116 40	108 21	113 -0.22 75	116 -0.08 44	100 34 27	102 18.9 58	101 8.3 43	103 110 43	101 33.3 42	103 145 28	101 -77 12	108 19.9 29	94 -1.2 40	102 -3.3 22	93 33.1 47	101 23 30	105 35 29	105 0.89 22	116 1.51 20	101 -0.23 20
PAL 250030 99847667 25 030	1	BH 190058 PAL 220033		92 64	125 58	94 41	90 17	88 33		87 42			117 14	96 1.04 75	91 0.94 41	110 44 17	125 28.4 58	94 6.3 41	110 126 39	120 45.7 39	112 177 17	110 -88 11	112 21.8 19	80 7.9 37	101 -3.1 19	93 32.9 44	114 31 19	117 47 18	111 1.36 15	122 2.12 14	111 0.24 13
PAL 250036 99675985 25 036		81E PAL 140082		114 69	78 59	119 48	105 17	90 32		98 44			90 21	121 -0.79 78	84 1.21 49	93 26 17	78 8.7 59	119 13.3 48	102 109 41	78 18.9 25	92 102 23	93 -66 8	96 13.8 26	98 -4.3 31	85 -0.6 17	101 36.9 47	96 20 26	96 27 25	87 -0.49 22	107 0.63 20	93 -0.61 20
PAL 250045 99676074 25 045	1	81E PAL 150034		116 87	97 85	98 83	105 82	78 66		104 79	83 82	101 80	89 82	119 -0.60 89	96 0.74 84	94 28 82	97 16.5 85	98 7.3 83	98 100 83	88 25.5 51	83 68 82	91 -64 81	84 8.0 82	80 8.2 34	82 -0.1 81	103 37.5 84	97 21 82	98 28 82	91 -0.18 82	107 0.67 82	91 -0.72 82
PAL 250052 99676124 25 052		81E PAL 200001		89 66	102 57	116 39	95 23	100 35		98 43	107 22	100 39	108 27	97 0.96 76	82 1.32 43	104 37 23	102 18.7 57	116 12.6 39	113 134 40	104 35.4 29	109 167 29	105 -81 12	109 20.7 32	105 -9.2 39	94 -2.0 21	101 36.5 44	112 30 33	115 45 32	99 0.44 28	104 0.40 26	101 -0.23 26
PAL 250054 6020117930 25 054		WDW 190009 PAL 180065		94 69	105 61	101 52	94 28	108 40		102 49	97 34	102 46	101 44	91 1.41 77	108 0.22 52	105 39 28	105 20.0 61	101 8.3 52	102 110 47	103 34.6 46	94 110 46	91 -63 18	94 12.8 49	113 -14.8 45	100 -2.9 26	103 37.5 48	89 16 49	100 31 48	99 0.46 45	96 -0.44 43	84 -1.04 40
PAL 250056 99676157 25 056		81E PAL 190038		101 66	94 57	103 41	123 21	85 31		105 42			91 23	99 0.87 76	106 0.33 44	78 11 21	94 15.5 57	103 8.8 41	108 123 40	96 30.7 24	96 117 24	99 -73 12	96 13.8 27	82 6.7 32	92 -1.6 16	105 38.6 45	95 19 27	95 25 26	92 -0.06 24	93 -0.69 22	93 -0.61 21
PAL 250060 6020117963 25 060	1	WDW 190009 PAL 210105		94 67	112 60	97 45	94 22	106 35		98 45	101 30	98 42	105 42	97 0.96 76	93 0.86 47	107 40 22	112 23.0 60	97 7.2 45	104 114 42	110 39.4 41	99 130 43	96 -70 14	99 15.6 46	108 -10.9 42	99 -2.7 20	112 41.4 44	95 20 46	103 34 45	105 0.87 43	92 -0.80 41	97 -0.44 38
PAL 250061 99676140 25 061		81E PAL 160034		102 69	94 58	113 46	107 22	97 37		110 45			95 23	106 0.29 78	91 0.95 48	91 25 22	94 15.5 58	113 11.6 46	110 127 42	93 28.5 28	96 119 25	100 -75 9	98 14.8 28	99 -5.1 40	98 -2.5 22	95 33.8 48	103 24 28	100 31 27	94 0.05 24	105 0.42 22	97 -0.45 22
PAL 250062 99676181 25 062		81E PAL 210064		113 66	84 56	116 38	110 25	88 33		105 43	88 20	102 38	90 25	116 -0.40 76	94 0.82 43	88 21 25	84 11.3 56	116 12.6 38	107 120 40	84 22.6 28	91 100 30	92 -65 7	90 11.0 33	96 -2.6 35	83 -0.2 19	105 38.5 46	91 17 33	93 24 32	92 -0.11 26	96 -0.48 24	85 -0.99 23
PAL 250063 99676199 25 063		81E PAL 190062		99 67	93 58	113 43	108 28	85 35		103 45	86 27	100 41	91 30	106 0.32 76	85 1.16 46	90 23 28	93 14.9 58	113 11.6 43	110 127 43	92 27.5 33	88 89 32	91 -63 20	93 12.7 34	95 -2.5 37	81 0.0 22	97 35.0 47	96 20 35	96 27 34	92 -0.10 31	102 0.17 29	99 -0.34 29

Breeding Values and Accuracies: Bulls

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

Inbreeding in red is high

Value <80 Value >120

Breeding values with an accuracy < 5% are not printed

Animal				Selection Values								Birth		Wean				Growth			Fertility				Frame		Carcass			
Index EBV Acc	Inbreeding	Sire ID Dam ID		Calv. Ease V	Calf Growth V	Milk V	Maint. V	Fertility V	Cow Value	Growth Value	Prod. Value	Carcass Value	Birth wt dir	Birth mat	Mature wt	Wean wt	Wean mat	Cow-Calf Ratio (Wean)	Postwean wt	ADG	FCR	Scrotal Circ.	Heifer Fertility	Cow Fertility	Longevity	Height	Length	EMA	Fat	Marbling
ID Number Name																														
PAL 250068 99675415 25 068	2	PAL 220075 PAL 170057		106 69	100 53	108 49	97 27	94 35	108 45	97 20	107 40	101 20	103 0.56 78	109 0.20 50	101 35 27	100 17.9 53	108 10.2 49	106 118 43	98 31.8 31	98 126 27	101 -77 11	101 16.5 28	90 1.1 35	98 -2.6 23	105 38.3 46	102 24 29	103 34 28	104 0.84 20	101 0.10 19	107 0.03 18
PAL 250076 99675498 25 076	1	PAL 220075 PAL 180021		127 67	96 53	101 49	95 25	92 34	118 44			102 18	125 -1.11 76	106 0.33 49	105 38 25	96 16.4 53	101 8.1 49	96 95 42	92 28.2 31	100 135 26	103 -79 11	102 16.8 28	87 3.1 35	98 -2.5 23	107 39.2 45	107 27 28	105 35 27	109 1.19 19	97 -0.36 18	107 0.07 17
PAL 250081 99674871 25 081	4	BH 190058 PAL 210100		115 66	111 58	103 41	87 20	95 31	113 43			119 16	114 -0.28 76	103 0.45 44	114 48 20	111 22.5 58	103 8.8 41	105 116 40	110 39.1 40	114 186 19	109 -87 12	119 25.7 20	89 1.7 31	103 -3.4 18	97 35.1 45	118 34 21	121 51 20	117 1.75 17	117 1.60 16	111 0.24 16
PAL 250082 99674749 25 082	1	BH 190058 PAL 210013		107 66	108 58	108 43	93 25	92 35	109 45	110 20	110 40	115 20	108 0.15 76	99 0.61 45	107 40 25	108 21.3 58	108 10.4 43	110 127 42	107 37.8 42	111 175 27	109 -86 11	113 22.3 28	89 2.0 36	100 -2.9 21	92 32.9 48	110 28 29	113 43 28	113 1.47 21	116 1.50 19	107 0.06 19
PAL 250086 99674772 25 086	1	BH 190058 PAL 200081		81 67	115 59	101 45	89 21	99 36	88 44	110 20	90 39	112 22	86 1.83 76	88 1.04 46	111 45 21	115 24.2 59	101 8.3 45	107 121 42	116 43.4 41	109 169 25	104 -81 13	112 22.2 27	99 -5.0 39	100 -2.9 22	99 35.6 47	112 30 28	114 45 26	106 0.97 23	113 1.22 22	106 0.01 21
PAL 250088 99674798 25 088	4	PAL 220075 PAL 160070		117 69	95 54	102 51	101 28	92 38	113 46	90 22	111 41	94 20	117 -0.50 78	102 0.49 50	98 31 28	95 16.1 54	102 8.7 51	100 104 44	94 29.3 32	91 98 29	95 -69 13	95 13.6 30	89 2.1 42	96 -2.3 26	107 39.2 46	95 20 31	95 26 30	98 0.36 21	102 0.17 19	100 -0.28 19
PAL 250093 99674848 25 093	1	BH 190058 PAL 130080		89 70	110 60	105 52	93 24	79 38	88 47			106 20	94 1.21 79	89 1.02 51	107 40 24	110 22.2 60	105 9.5 52	109 125 45	111 40.3 44	102 141 22	102 -78 15	101 16.3 23	86 3.8 40	83 -0.3 23	89 31.2 50	105 26 24	107 37 23	102 0.64 20	115 1.41 19	110 0.17 18
PAL 250094 99674855 25 094	1	PAL 220075 PAL 170005		123 69	88 54	108 50	94 24	92 35	115 45			100 18	124 -1.01 78	100 0.57 50	105 39 24	88 13.1 54	108 10.2 50	96 96 43	88 25.0 30	99 128 26	100 -75 11	103 17.4 27	88 2.4 35	97 -2.5 23	103 37.6 46	104 25 27	103 34 27	105 0.92 19	100 -0.02 17	105 -0.03 17
PAL 250099 99674913 25 099	3	PAL 220075 PAL 160074		114 69	94 53	101 50	102 24	90 32	109 44			91 17	111 -0.02 78	108 0.24 49	97 31 24	94 15.4 53	101 8.2 50	97 99 42	92 27.9 30	89 93 25	92 -65 10	92 11.8 27	92 -0.3 31	90 -1.4 20	101 36.8 45	94 19 27	94 25 26	98 0.38 18	92 -0.87 16	99 -0.34 16
PAL 250104 99674962 25 104	1	BH 190058 PAL 210072		107 67	107 59	104 44	95 26	94 34	108 45			115 20	103 0.58 76	113 0.05 46	104 38 26	107 21.1 59	104 9.2 44	108 122 43	105 36.5 42	111 174 26	108 -86 10	113 22.7 28	91 0.5 35	101 -3.0 20	96 34.6 48	109 28 29	113 44 28	111 1.35 21	118 1.71 19	106 0.02 19
PAL 250106 99675019 25 106	4	PAL 220075 PAL 180096		129 67	89 53	102 48	96 25	92 35	116 44	94 20	115 39	97 19	131 -1.50 76	99 0.60 49	104 37 25	89 13.3 53	102 8.5 48	92 87 42	89 25.6 31	94 112 27	97 -72 12	97 14.6 28	87 3.0 35	98 -2.6 23	104 38.1 46	102 24 28	99 30 28	104 0.81 20	97 -0.36 18	106 0.00 18
PAL 250108 99675035 25 108	1	BH 190058 PAL 200063		99 67	109 59	106 43	90 21	88 33	100 44	108 20	101 39	112 22	104 0.50 76	89 1.01 46	110 43 21	109 21.6 59	106 9.8 43	108 122 41	108 38.2 42	108 163 25	103 -79 13	114 22.9 27	92 -0.3 33	90 -1.3 19	95 33.9 47	113 30 28	115 46 26	104 0.82 23	115 1.47 21	106 0.00 21

Breeding Values and Accuracies: Bulls

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

Inbreeding in red is high

Value <80 Value >120

Breeding values with an accuracy < 5% are not printed

Animal			Selection Values										Birth		Wean				Growth			Fertility				Frame		Carcass		
Index EBV Acc	% Inbreeding	Sire ID Dam ID	Calv. Ease V	Calf Growth V	Milk V	Maint. V	Fertility V	Cow Value	Growth Value	Prod. Value	Carcass Value	Birth wt dir	Birth mat	Mature wt	Wean wt	Wean mat	Cow-Calf Ratio (Wean)	Postwean wt	ADG	FCR	Scrotal Circ.	Heifer Fertility	Cow Fertility	Longevity	Height	Length	EMA	Fat	Marbling	
ID Number Name																														
PAL 250116 99675126 25 116	2	PAL 220075 PAL 170021	127 69	93 54	113 49	89 24	88 34	121 45			107 18	125 -1.10 78	106 0.33 50	110 44 24	93 15.2 54	113 11.7 49	102 108 42		92 28.0 30	105 151 26	105 -82 11	106 19.1 27	84 5.5 35	95 -2.1 22	103 37.4 46	111 29 27	111 42 27	112 1.44 19	100 -0.09 17	110 0.19 17
PAL 250121 99675233 25 121	1	BH 190058 PAL 200060	87 67	118 59	108 45	83 21	105 36	100 44	117 20	103 39	120 22	95 1.16 76	83 1.27 46	117 51 21	118 25.5 59	108 10.4 45	113 133 42		118 44.5 41	117 197 25	111 -89 13	120 26.0 27	105 -8.8 39	105 -3.7 22	98 35.4 47	119 34 28	122 52 26	114 1.54 23	112 1.18 22	108 0.09 21
PAL 250129 99675308 25 129	1	BH 190058 PAL 190033	101 67	112 60	109 48	96 28	106 39	111 47	101 26	111 43	109 26	105 0.43 76	92 0.90 48	102 36 28	112 22.8 60	109 10.4 48	115 138 45		108 38.5 45	99 130 29	96 -71 21	111 21.4 31	105 -9.1 41	107 -4.0 26	93 33.2 49	105 26 31	109 40 30	107 1.03 26	118 1.77 25	104 -0.07 25

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																														
PAL 130044 78778941 13 44		KJA 010103	PAL 060013	110 86	88 76	105 82	106 46	89 63	105 67	71 44	100 62	80 28	105 0.37 87	113 0.04 83	93 26 46	88 12.9 76	105 9.5 82	98 101 68	83 22.3 57	72 27 52	71 -38 36	95 13.3 54	98 -4.0 66	84 -0.4 53	101 36.7 70	78 9 53	88 19 53	86 -0.57 29	100 -0.01 26	96 -0.48 26
PAL 130075 78779071 13 75	1 	PAL 090026	PAL 070017	126 86	77 77	119 84	97 25	96 45	106 60	90 24	104 53	90 12	125 -1.08 87	104 0.42 83	101 35 25	77 8.1 77	119 13.4 84	98 100 62	80 19.9 46	89 91 28	89 -60 18	93 12.5 30	101 -6.5 37	90 -1.4 29	108 39.6 68	95 19 28	95 25 27	92 -0.13 13	97 -0.30 12	106 0.02 11
PAL 140055 80859192 14 055	4 	PAL 120038	PAL 080053	111 84	97 80	96 82	95 32	133 55	118 64	95 28	116 57	98 24	107 0.27 86	113 0.06 81	106 39 32	97 16.6 80	96 6.7 82	92 87 65	100 32.8 50	100 131 35	96 -71 21	96 13.8 36	117 -17.4 58	136 -8.4 41	105 38.3 66	94 18 36	99 30 35	93 -0.04 25	110 0.93 24	112 0.30 23
PAL 140063 80859275 14 063	1 	PAL 110022	PAL 080025	98 84	104 78	72 79	107 19	79 54	75 59			88 12	93 1.31 86	114 0.02 81	95 28 19	104 19.9 78	72 -0.2 79	82 64 59	99 32.4 38	91 100 23	97 -71 13	85 8.5 25	70 15.3 57	98 -2.6 38	91 32.2 66	92 17 22	85 16 21	86 -0.52 13	100 -0.01 12	105 -0.05 12
PAL 140072 80834898 14 072		KRM 010048	PAL 040113	101 89	110 88	107 89	106 80	110 76	117 82	92 80	115 82	101 79	111 -0.01 90	76 1.53 88	92 26 80	110 22.3 88	107 10.0 89	118 145 86	111 40.0 68	95 114 80	94 -68 78	122 27.2 81	120 -19.4 64	101 -3.0 80	87 30.5 84	98 21 80	104 35 80	99 0.45 79	116 1.49 79	118 0.58 79
PAL 140082 80834971 14 082	7 	PAL 110073	PAL 090014	98 85	81 80	118 84	96 15	95 42	90 58			91 9	106 0.32 86	83 1.28 83	102 36 15	81 10.0 80	118 13.3 84	100 105 60	80 20.4 30	92 104 20	91 -64 11	101 16.5 22	98 -4.1 36	93 -1.8 25	104 38.2 66	97 21 18	96 27 18	89 -0.32 9	107 0.65 9	97 -0.44 9
PAL 140119 81717415 14 119	2 	PAL 120038	PAL 090105	116 85	94 80	100 83	97 26	115 54	119 62	93 24	118 54	90 12	113 -0.19 86	108 0.24 82	102 36 26	94 15.6 80	100 7.9 83	95 93 63	87 24.8 38	88 90 29	85 -55 18	89 10.3 31	117 -17.6 60	103 -3.3 39	114 42.5 64	94 19 28	94 24 28	88 -0.42 13	99 -0.19 12	94 -0.59 12
PAL 150010 83385294 15 10	2	GG 110035	PAL 120053	119 84	101 80	83 81	95 22	104 46	108 60	104 26	109 53	103 22	115 -0.34 85	111 0.13 81	107 40 22	101 18.3 80	83 3.0 81	84 69 61	97 31.0 44	104 149 26	103 -79 23	102 16.7 29	97 -3.5 42	113 -5.0 27	87 30.3 68	106 26 29	105 36 28	103 0.77 23	102 0.15 21	108 0.11 21
PAL 150034 83650739 15 34		P43145081	PAL 100022	105 85	103 80	107 81	97 29	93 46	107 62			99 22	103 0.53 86	105 0.35 82	102 36 29	103 19.0 80	107 10.0 81	107 120 63	95 30.0 42	100 133 24	104 -80 12	97 14.4 26	94 -1.3 44	94 -2.0 27	101 36.8 68	107 27 28	103 34 27	104 0.80 22	93 -0.72 21	105 -0.06 20
PAL 150044 83385591 15 44	9	PAL 110085	PAL 110056	79 84	101 80	106 82	94 18	86 43	83 59			92 8	88 1.69 86	71 1.73 81	105 39 18	101 18.4 80	106 9.7 82	104 113 60	97 31.1 37	92 105 23	92 -65 11	87 9.7 25	91 0.5 35	83 -0.3 26	106 38.9 67	93 18 19	95 26 19	94 0.04 8	90 -1.02 8	94 -0.57 8
PAL 150059 83650788 15 59		P43145081	PAL 060118	88 84	105 79	100 78	108 31	105 52	100 62	90 22	98 54	88 22	96 1.07 86	83 1.25 81	91 25 31	105 20.0 79	100 7.9 78	108 122 63	102 34.5 42	91 99 28	95 -69 14	89 10.4 30	107 -10.6 51	104 -3.6 35	90 31.9 69	91 17 30	86 17 29	89 -0.30 23	97 -0.33 22	91 -0.71 22
PAL 150075 83385450 15 75	4	PAL 110085	PAL 070106	86 84	92 78	105 77	94 27	76 52	82 61	91 26	81 54	91 12	86 1.80 86	101 0.54 80	106 39 27	92 14.7 78	105 9.3 77	96 96 61	93 28.5 41	88 87 32	88 -59 19	92 11.8 34	84 5.7 50	78 0.5 39	93 33.2 68	92 17 30	97 28 30	94 0.03 13	99 -0.14 12	99 -0.32 12

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ID Number Name																													
PAL 150122 83351932 15 122	1	GG 110026 PAL 090067	91 83	97 78	112 76	92 26	87 51	94 60	91 22	93 52	92 14	95 1.15 85	92 0.90 78	107 41 26	97 16.6 78	112 11.6 76	105 116 60	97 31.2 40	88 89 27	90 -62 17	95 13.5 28	82 6.8 56	98 -2.6 32	94 33.4 66	93 18 28	96 26 27	93 0.02 15	96 -0.40 14	107 0.05 14
PAL 160034 84705888 16 034		P43145081 PAL 060118	87 83	108 80	110 80	99 31	109 56	102 63	99 22	102 55	102 22	91 1.46 85	92 0.89 80	100 34 31	108 21.3 80	110 10.9 80	115 138 64	105 36.1 42	101 138 28	106 -82 14	105 18.6 30	100 -5.7 62	118 -5.7 37	91 32.0 68	109 28 30	104 35 29	103 0.76 23	103 0.21 22	104 -0.11 22
PAL 160055 84706282 16 055		P43145081 PAL 090014	78 83	105 72	122 78	92 29	107 50	93 59	111 20	95 51	111 21	85 1.84 85	82 1.30 80	106 40 29	105 19.9 72	122 14.2 78	119 147 60	108 38.3 41	112 178 25	107 -85 12	115 23.2 27	94 -1.3 51	119 -5.8 32	97 34.9 67	114 31 28	115 45 27	114 1.54 22	106 0.52 20	106 0.00 20
PAL 160065 84661800 16 065	2	PAL 110085 PAL 110032	114 83	92 80	98 80	96 26	120 55	118 62	93 26	116 55	93 12	107 0.25 85	119 -0.19 79	104 38 26	92 14.7 80	98 7.3 80	91 84 62	85 23.4 42	89 94 31	87 -58 19	97 14.7 32	109 -11.6 59	126 -6.9 39	98 35.4 67	94 19 29	97 28 28	94 0.09 13	98 -0.22 11	99 -0.32 11
PAL 160070 84705979 16 070		P43145081 PAL 070109	100 83	101 80	93 81	105 35	97 57	98 64	85 27	95 57	89 23	100 0.75 85	100 0.58 80	95 29 35	101 18.5 80	93 5.8 81	97 98 65	99 32.2 43	87 85 33	91 -64 20	90 11.1 35	95 -2.1 64	101 -3.0 38	99 35.9 68	90 16 36	89 20 36	88 -0.38 24	106 0.52 22	96 -0.48 22
PAL 160092 84662014 16 092		GG 110035 PAL 100062	87 83	101 78	90 79	102 19	90 46	83 58	90 20	82 50	86 16	96 1.09 85	82 1.32 80	98 31 19	101 18.4 78	90 5.1 79	93 90 59	98 31.5 38	89 91 23	90 -62 15	88 9.8 25	92 -0.3 43	93 -1.8 28	92 32.4 68	92 17 24	89 20 23	90 -0.22 17	92 -0.79 16	104 -0.11 15
PAL 160093 84661297 16 093		GG 110035 PAL 080013	91 84	108 80	118 81	81 21	142 57	112 61	110 23	113 53	108 18	100 0.76 85	79 1.43 81	119 53 21	108 21.2 80	118 13.1 81	112 131 61	106 37.0 38	112 176 27	112 -90 17	110 20.7 30	134 -29.3 65	137 -8.6 38	99 35.8 68	113 31 27	112 42 26	113 1.51 19	90 -1.07 18	109 0.14 17
PAL 160109 84661446 16 109		GG 110035 PAL 080104	89 83	111 80	56 80	110 19	88 50	63 59	82 20	62 51	83 16	88 1.68 85	103 0.45 80	93 27 19	111 22.4 80	56 -4.8 80	73 45 60	103 35.2 36	83 68 22	86 -57 15	81 6.5 24	87 3.0 49	98 -2.5 33	83 28.6 67	84 13 24	81 13 23	84 -0.72 17	100 -0.08 15	106 0.01 15
PAL 170005 86357068 17 005		GG 110035 PAL 140082	102 82	92 79	100 78	91 18	97 45	101 58	104 20	102 50	102 16	104 0.50 84	98 0.63 78	109 43 18	92 14.4 79	100 8.1 78	90 83 58	90 26.3 38	103 144 22	101 -76 15	105 18.7 24	94 -1.4 43	103 -3.4 27	92 32.7 66	108 27 24	105 36 23	103 0.74 17	102 0.15 15	107 0.03 15
PAL 170021 86357175 17 021		GG 110035 PAL 140074	114 82	100 78	112 78	81 19	89 45	112 58	117 20	115 50	116 16	110 -0.01 84	109 0.19 78	120 54 19	100 17.8 78	112 11.4 78	101 107 58	97 31.0 38	115 191 22	111 -89 15	112 22.1 24	85 4.8 43	99 -2.7 27	91 32.3 66	121 36 24	121 52 23	117 1.79 17	101 0.02 16	116 0.46 15
PAL 170057 86356417 17 057		P43145081 PAL 100123	97 82	101 76	110 77	96 30	100 45	105 60	101 21	105 52	103 22	94 1.22 84	109 0.22 78	102 36 30	101 18.5 76	110 10.7 77	108 122 61	98 31.5 38	102 140 26	103 -79 14	102 16.9 28	98 -4.1 43	104 -3.6 27	95 34.1 65	103 24 30	106 36 29	101 0.57 22	104 0.38 21	109 0.15 20
PAL 170060 86356409 17 060		ZK 060018 PAL 130075	113 82	92 77	108 77	94 45	84 53	107 65	102 47	107 61	101 42	114 -0.25 84	100 0.57 78	105 38 45	92 14.5 77	108 10.3 77	99 102 66	90 26.5 50	103 144 48	108 -86 45	99 15.4 49	86 3.9 50	87 -0.9 41	99 35.7 67	107 27 49	104 35 49	113 1.48 43	92 -0.87 41	107 0.04 40

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ID Number Name																														
PAL 170071 86355393 17 071	1	GG 110035 PAL 110021	111 82	106 79	80 79	94 27	103 55	99 61	105 27	100 54	105 19	104 0.44 84	118 -0.16 78	108 42 27	106 20.3 79	80 2.1 79	85 70 62	102 34.0 44	102 142 31	99 -74 21	106 19.2 33	98 -4.5 60	106 -3.9 39	101 36.6 67	107 27 33	106 36 32	104 0.85 20	102 0.19 18	115 0.44 18	
PAL 170076 86356995 17 076		P43145081 PAL 110102	89 82	111 72	99 77	96 30	117 50	98 59	98 21	98 51	100 20	88 1.63 84	103 0.47 78	103 37 30	111 22.5 72	99 7.6 77	106 118 60	106 36.9 40	98 127 27	98 -73 13	95 13.4 30	100 -5.7 52	129 -7.3 31	97 35.0 66	101 23 29	100 31 28	103 0.71 21	98 -0.23 20	96 -0.46 20	
PAL 170093 86355468 17 093	1	GG 110035 PAL 090051	90 83	122 79	120 79	76 27	101 56	98 62	122 27	102 55	124 19	96 1.08 85	88 1.07 79	125 59 27	122 27.1 79	120 13.9 79	121 152 62	121 46.8 41	123 219 31	122 -103 21	118 25.0 33	88 2.5 63	108 -4.2 38	114 42.2 68	119 34 33	123 53 32	126 2.43 20	95 -0.50 18	102 -0.21 18	
PAL 180008 88831730 18 008	16	PAL 150032 PAL 150073	72 78	118 74	114 71	87 21	128 48	93 56			115 14	80 2.25 81	80 1.37 73	112 46 21	118 25.5 74	114 12.0 71	120 149 55	120 45.8 30	117 196 19	114 -93 9	109 20.6 20	107 -10.4 55	138 -8.7 33	104 38.0 57	117 33 20	114 45 20	114 1.55 15	98 -0.27 14	106 -0.01 14	
PAL 180013 88831748 18 013		PAL 150032 PAL 150105	69 79	117 74	132 72	79 20	112 47	88 56			117 14	77 2.49 82	76 1.56 73	120 54 20	117 25.2 74	132 17.3 72	130 170 55	116 43.6 34	114 185 20	107 -84 13	111 21.7 22	93 -0.5 52	130 -7.5 31	91 32.4 57	120 35 22	123 53 21	118 1.90 15	105 0.45 14	107 0.07 13	
PAL 180014 89268767 18 014	1	BH 100032 PAL 150015	112 88	84 86	113 86	96 78	91 70	102 80	93 78	100 80	91 78	114 -0.23 89	98 0.63 86	102 36 78	84 11.3 86	113 11.8 86	98 101 83	80 20.4 64	90 96 78	87 -59 77	99 15.6 78	95 -2.3 49	90 -1.3 78	98 35.5 83	87 15 78	91 22 78	82 -0.82 78	117 1.62 77	87 -0.91 77	
PAL 180021 88832084 18 021		GG 110035 PAL 150034	110 81	107 77	86 75	92 22	97 46	99 58	107 20	101 50	106 19	106 0.30 83	110 0.15 76	109 43 22	107 20.9 77	86 3.9 75	90 83 58	99 32.5 40	107 158 23	107 -84 15	103 17.5 25	92 0.0 45	104 -3.5 28	99 35.9 64	113 30 26	109 40 25	110 1.27 20	95 -0.54 18	111 0.22 18	
PAL 180022 88831888 18 022	2	PAL 150032 PAL 150016	90 79	92 74	113 73	96 19	116 45	103 55			95 14	95 1.15 81	89 1.02 74	103 37 19	92 14.7 74	113 11.8 73	104 114 55	99 32.5 32	96 119 18	98 -72 11	92 11.9 20	99 -5.0 46	123 -6.4 32	113 42.0 57	100 23 20	97 27 19	97 0.27 15	95 -0.58 14	103 -0.17 14	
PAL 180030 89257737 18 030	1	BH 100032 PAL 070046	129 82	86 78	97 76	103 44	101 58	117 65	83 34	113 59	83 34	121 -0.77 84	122 -0.32 77	97 30 44	86 11.9 78	97 7.1 76	88 78 66	85 23.2 53	81 61 41	84 -54 27	89 10.6 42	105 -9.4 65	99 -2.8 43	93 33.0 66	83 12 43	83 14 42	82 -0.86 34	104 0.38 33	91 -0.72 32	
PAL 180053 89257562 18 053	1	BH 100032 PAL 110021	106 82	101 78	98 77	100 44	96 58	101 65	101 35	102 59	99 34	101 0.71 84	113 0.04 77	100 34 44	101 18.2 78	98 7.2 77	98 101 66	102 34.6 54	98 126 41	96 -69 27	104 17.8 43	91 0.8 64	98 -2.5 44	114 42.6 66	97 20 43	97 28 42	98 0.33 34	100 -0.06 33	102 -0.21 32	
PAL 180065 89257539 18 065	1	BH 100032 PAL 130057	113 82	85 77	109 73	96 45	112 58	115 65	88 36	113 59	89 34	109 0.13 84	113 0.05 77	102 36 45	85 11.9 77	109 10.6 73	96 95 65	88 25.2 56	84 72 42	83 -54 28	90 11.1 44	114 -15.2 64	109 -4.3 44	93 33.1 66	90 17 44	93 24 43	92 -0.12 35	102 0.16 33	81 -1.19 32	
PAL 180069 89257695 18 069	1	BH 100032 PAL 140119	123 82	92 78	101 76	99 40	112 55	124 64	101 30	123 57	95 32	118 -0.54 84	115 -0.02 77	100 34 40	92 14.4 78	101 8.3 76	95 93 65	89 26.0 52	96 118 36	92 -65 23	93 12.4 38	119 -18.8 62	99 -2.8 40	106 38.9 64	94 19 38	93 24 37	92 -0.07 33	97 -0.38 32	84 -1.07 31	

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ID Number Name																													
PAL 180086 89257778 18 086	1	BH 100032 PAL 090014	108 82	98 78	100 76	95 39	82 56	99 64	103 30	100 57	101 32	105 0.41 84	108 0.24 77	104 38 39	98 16.9 78	100 8.0 76	97 97 64	98 31.4 52	102 139 35	99 -74 23	106 19.0 38	70 15.0 63	99 -2.7 39	100 36.0 66	100 23 36	101 32 36	103 0.75 33	97 -0.36 31	96 -0.47 31
PAL 180088 89257927 18 088	1	BH 100032 PAL 110107	108 82	99 77	96 73	97 40	100 55	104 63	102 31	105 57	99 32	106 0.30 84	105 0.35 77	103 37 40	99 17.7 77	96 6.8 73	95 94 63	101 33.5 52	102 140 36	99 -74 24	101 16.5 38	111 -13.3 62	85 -0.6 38	110 40.7 66	96 20 38	101 32 37	106 0.93 33	90 -0.99 32	108 0.11 31
PAL 180096 88832191 18 096	1	GG 110035 PAL 130034	105 81	97 76	86 73	94 24	97 47	96 58	95 22	95 51	96 20	106 0.34 84	100 0.58 76	107 41 24	97 16.6 76	86 3.9 73	83 67 58	96 30.2 38	94 112 25	96 -70 18	94 13.1 27	92 -0.1 46	104 -3.6 29	95 33.8 65	103 24 27	98 29 26	100 0.51 21	95 -0.53 20	108 0.09 19
PAL 180106 88831821 18 106		GG 110035 PAL 140007	99 80	99 77	101 74	89 21	92 45	100 57	100 21	100 50	100 17	102 0.61 83	95 0.78 75	111 45 21	99 17.7 77	101 8.3 74	96 96 57	97 31.1 40	98 126 24	97 -72 16	100 16.0 26	90 1.1 43	100 -2.9 28	88 31.0 64	105 26 26	103 34 25	103 0.73 18	101 0.09 16	110 0.21 15
PAL 180107 88831797 18 107	2	GG 110035 PAL 090021	79 89	122 87	105 87	81 80	82 75	81 81	120 80	85 81	119 80	87 1.76 90	84 1.24 87	120 54 80	122 27.3 87	105 9.5 87	112 132 85	128 51.2 54	121 212 80	106 -83 80	115 23.7 81	72 13.8 59	98 -2.6 81	101 36.5 85	102 23 81	119 50 80	119 1.94 80	91 -0.90 80	90 -0.77 80
PAL 180108 88832183 18 108		GG 110035 PAL 080013	100 82	102 77	104 76	84 21	138 55	116 59	104 23	117 52	102 18	105 0.41 84	91 0.94 78	116 50 21	102 19.0 77	104 9.3 76	99 102 58	99 32.3 38	105 153 27	106 -83 17	106 18.8 30	125 -23.2 62	140 -9.0 37	96 34.5 66	108 27 27	106 36 26	108 1.09 19	84 -1.65 18	106 -0.01 17
PAL 190007 90033838 19 007		WDW 080082 PAL 160065	116 79	95 77	96 72	106 44	125 55	125 63	85 42	121 59	91 42	112 -0.10 82	111 0.14 74	93 27 44	95 15.9 77	96 6.8 72	96 96 64	86 23.7 52	84 73 47	85 -55 36	97 14.6 49	121 -19.8 61	124 -6.5 39	96 34.6 64	92 17 49	92 23 48	95 0.16 43	100 -0.03 42	100 -0.30 41
PAL 190026 89738249 19 026		WDW 150142 PAL 160055	77 79	98 74	104 64	100 30	97 50	87 57	102 24	88 50	97 22	82 2.13 82	91 0.95 72	99 33 30	98 17.1 74	104 9.1 64	102 110 56	103 35.0 36	100 135 24	101 -76 22	101 16.6 27	86 3.9 55	110 -4.4 34	96 34.3 61	100 23 28	98 29 27	105 0.91 23	87 -1.36 21	102 -0.17 20
PAL 190029 89738744 19 029	25	GG 110035 PAL 150015	104 80	103 77	103 72	85 19	100 45	107 56	109 20	108 49	110 18	108 0.17 83	92 0.91 74	115 49 19	103 19.2 77	103 8.8 72	98 101 56	99 32.2 37	108 165 22	106 -83 16	109 20.4 25	90 1.6 44	109 -4.3 28	101 36.5 64	112 30 25	112 43 24	108 1.14 18	106 0.58 17	114 0.40 16
PAL 190033 89738058 19 033		WDW 080082 PAL 120034	98 80	98 77	115 73	107 47	119 57	117 65	83 46	114 61	89 44	104 0.48 83	88 1.07 74	91 24 47	98 17.0 77	115 12.3 73	115 139 66	95 29.7 54	78 51 51	76 -45 39	97 14.7 53	124 -22.0 63	108 -4.2 44	98 35.5 65	91 17 53	93 23 53	95 0.15 45	102 0.19 43	98 -0.37 42
PAL 190038 89738124 19 038		WDW 150142 PAL 150099	106 89	98 88	97 87	131 83	86 69	108 82	98 82	108 82	92 82	100 0.80 90	117 -0.11 87	72 5 83	98 17.1 88	97 7.2 87	109 126 86	102 34.2 52	100 134 83	103 -79 82	101 16.6 83	66 18.0 38	106 -3.9 82	112 41.7 86	94 19 83	93 24 83	100 0.55 82	80 -1.99 82	97 -0.44 82
PAL 190041 90030438 19 041		WDW 150142 PAL 140082	104 89	90 88	88 87	101 82	100 69	93 81	97 82	93 81	94 82	107 0.24 90	93 0.84 87	100 33 82	90 13.6 88	88 4.5 87	82 65 86	90 26.3 52	98 127 82	98 -72 82	108 20.0 82	99 -5.0 39	100 -2.9 82	103 37.7 86	101 23 82	96 27 82	97 0.25 82	99 -0.18 82	90 -0.75 82

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PAL 190044 89738025 19 044	7	WDW 080082 PAL 130031	109 80	99 76	92 72	104 46	104 57	106 64	84 44	103 60	92 44	103 0.51 83	114 0.00 75	96 30 46	99 17.3 76	92 5.5 72	93 90 65	93 28.8 52	83 71 49	88 -60 38	98 14.7 51	101 -6.0 64	105 -3.6 42	102 37.2 65	99 22 51	96 27 50	100 0.53 45	99 -0.12 44	102 -0.18 43
PAL 190062 90034240 19 062	7	WDW 080082 PAL 120082	90 80	102 77	113 73	102 46	86 51	94 64	86 44	92 60	93 45	99 0.87 83	80 1.40 75	96 30 46	102 18.7 77	113 11.7 73	114 136 65	98 32.0 53	86 79 49	88 -60 38	97 14.2 50	92 -0.4 53	85 -0.6 36	96 34.5 65	96 20 51	96 27 50	99 0.47 46	98 -0.28 44	108 0.11 44
PAL 190068 89990675 19 068		KC 140021 PAL 110107	83 79	100 76	111 70	104 29	82 49	88 58	96 20	87 50	94 16	92 1.39 82	72 1.71 72	95 28 29	100 17.8 76	111 11.2 70	112 131 58	103 34.7 42	94 111 24	96 -70 15	90 11.2 25	93 -0.9 55	77 0.6 32	100 36.3 61	96 20 24	98 28 23	96 0.18 17	97 -0.39 16	111 0.22 16
PAL 190082 89738603 19 082	1	WDW 150142 PAL 140044	90 79	94 76	81 69	102 35	103 46	86 59	90 31	85 53	83 29	89 1.61 82	105 0.36 71	98 32 35	94 15.5 76	81 2.6 69	81 61 60	95 30.0 36	86 82 33	88 -60 27	94 13.0 35	103 -7.5 45	105 -3.7 31	91 32.1 62	85 13 35	83 14 34	91 -0.16 30	76 -2.44 28	94 -0.58 28
PAL 190083 89738629 19 083		KC 160032 PAL 090064	95 80	88 75	104 64	99 20	102 50	96 55			95 9	103 0.54 83	82 1.32 72	100 34 20	88 12.7 75	104 9.0 64	94 90 53	89 25.9 34	99 130 18	103 -79 11	91 11.6 20	111 -13.0 58	95 -2.1 34	96 34.5 59	93 18 18	96 27 18	94 0.07 9	104 0.35 9	117 0.53 9
PAL 190094 89738728 19 094		WDW 150142 PAL 090090	88 79	94 76	65 70	102 28	112 50	77 58	82 25	75 51	79 19	82 2.08 82	114 0.01 72	100 34 28	94 15.6 76	65 -2.1 70	67 30 58	93 28.4 34	83 71 25	89 -60 22	84 7.9 28	113 -14.5 56	110 -4.4 35	92 32.6 60	82 11 27	79 10 26	85 -0.62 20	89 -1.17 18	108 0.11 18
PAL 190107 89738470 19 107	2	WDW 150142 PAL 130085	102 79	77 74	98 63	106 31	93 52	84 58	83 26	82 52	78 23	104 0.44 82	96 0.75 72	94 27 31	77 8.3 74	98 7.3 63	83 67 56	83 21.8 34	82 67 26	87 -59 24	80 5.8 29	107 -10.7 59	83 -0.2 35	95 34.1 61	85 13 29	81 12 28	86 -0.56 24	83 -1.74 22	103 -0.13 22
PAL 200001 91602128 20 001		KRM 150061 PAL 170065	79 77	117 75	122 63	76 33	114 51	99 58	129 33	104 53	128 37	88 1.63 81	70 1.78 69	124 59 33	117 25.0 75	122 14.3 63	119 148 57	120 45.9 42	127 234 42	114 -93 21	129 30.3 45	112 -13.9 59	111 -4.6 36	103 37.6 59	128 40 46	133 63 45	114 1.53 38	102 0.18 36	113 0.32 35
PAL 200006 91602193 20 006	1	KRM 150061 PAL 170016	93 90	99 89	116 87	75 84	120 76	110 83	108 84	111 83	110 84	94 1.18 91	97 0.70 88	126 60 84	99 17.5 89	116 12.5 87	102 108 87	105 36.5 58	109 169 85	102 -78 83	120 26.1 85	113 -14.3 58	119 -5.8 84	107 39.2 86	110 29 85	112 42 85	98 0.34 84	117 1.62 84	114 0.37 84
PAL 200007 91602151 20 007	1	KRM 150061 PAL 170060	99 77	100 75	108 64	85 37	88 45	99 58	114 38	102 54	110 41	104 0.47 81	89 1.03 69	116 50 37	100 17.9 75	108 10.4 64	101 106 59	102 34.1 44	112 179 45	107 -84 29	113 22.5 48	92 -0.1 45	86 -0.7 31	106 38.8 58	117 33 49	117 47 48	112 1.38 42	92 -0.84 40	105 -0.03 39
PAL 200008 91602102 20 008	1	KRM 150061 PAL 170007	87 77	108 74	97 62	85 32	101 51	91 57	114 34	94 52	110 38	90 1.50 81	93 0.87 68	117 51 32	108 21.2 74	97 7.1 62	97 97 56	110 39.2 42	111 173 42	102 -78 22	118 24.8 45	110 -12.6 59	92 -1.7 36	99 35.7 58	116 33 45	117 47 44	109 1.21 39	94 -0.62 36	107 0.03 36
PAL 200015 91601757 20 015	1	KRM 150061 PAL 170034	77 77	110 75	113 64	81 30	95 43	87 56	117 32	90 51	113 36	85 1.84 81	67 1.90 68	120 54 30	110 22.3 75	113 11.8 64	110 127 56	114 42.1 41	114 186 40	105 -81 20	117 24.6 43	94 -1.4 43	95 -2.2 28	106 38.8 58	119 34 44	119 50 43	109 1.19 37	97 -0.37 35	110 0.22 34

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ID Number Name																													
PAL 200026 91277392 20 026	1	KC 160032 PAL 170093	92 91	109 91	103 88	87 87	115 78	104 85	120 86	107 85	119 87	88 1.62 92	110 0.17 89	113 47 87	109 21.9 91	103 8.8 88	104 114 89	119 45.0 56	128 239 87	140 -127 86	104 17.9 87	109 -11.8 57	112 -4.7 87	114 42.5 89	98 22 87	104 35 87	124 2.34 87	85 -1.51 87	89 -0.82 87
PAL 200040 91601740 20 040	1	KRM 150061 PAL 110021	89 77	108 75	110 67	87 36	101 53	97 60	110 36	99 55	107 37	96 1.07 81	83 1.24 67	112 46 36	108 21.3 75	110 10.8 67	109 125 59	111 39.9 45	106 156 46	97 -71 25	115 23.5 49	97 -3.3 59	100 -2.9 40	117 43.6 60	111 29 49	113 43 48	100 0.52 38	100 -0.05 36	108 0.12 35
PAL 200053 91601641 20 053	1	KRM 150061 PAL 160014	99 77	104 75	93 65	84 31	92 44	93 57	112 32	95 52	109 36	102 0.60 81	94 0.83 69	118 52 31	104 19.5 75	93 5.9 65	90 83 57	106 36.8 41	110 170 41	102 -78 21	111 21.7 44	95 -1.9 44	92 -1.6 28	101 36.5 59	117 33 44	116 46 43	107 1.01 38	92 -0.79 35	106 0.01 35
PAL 200056 91602037 20 056	2	KRM 150061 PAL 120007	88 78	100 75	107 65	86 35	88 45	92 58	101 34	92 53	100 38	97 0.95 82	78 1.47 69	115 49 35	100 18.1 75	107 9.9 65	100 104 58	103 35.0 42	99 130 43	94 -68 23	105 18.2 46	96 -2.9 45	82 -0.1 30	107 39.5 59	109 28 46	108 39 45	98 0.32 39	93 -0.73 37	100 -0.27 36
PAL 200057 91277269 20 057	7	WDW 080082 PAL 130031	105 79	93 74	93 68	110 46	107 56	108 63	76 44	104 59	85 44	99 0.87 82	116 -0.09 72	90 23 46	93 15.0 74	93 6.1 68	93 90 63	86 24.2 52	73 32 49	80 -50 38	94 13.0 51	105 -8.8 62	106 -3.8 41	105 38.5 64	91 17 51	87 18 50	94 0.05 45	103 0.23 44	98 -0.39 43
PAL 200060 91601815 20 060	1	KRM 150061 PAL 160093	80 78	109 75	116 64	80 30	118 50	100 57	115 32	102 52	111 36	89 1.59 82	69 1.85 70	121 55 30	109 21.6 75	116 12.5 64	110 128 56	112 40.6 40	114 185 41	107 -84 20	116 23.9 44	123 -21.3 58	105 -3.7 35	108 39.8 58	117 33 44	117 48 43	109 1.17 37	91 -0.97 35	105 -0.04 35
PAL 200063 91601773 20 063	1	KRM 150061 PAL 140002	86 78	96 74	108 58	94 31	83 43	88 56	97 32	88 51	96 36	92 1.32 81	84 1.21 70	105 39 31	96 16.2 74	108 10.2 58	101 107 54	98 31.5 41	95 116 41	91 -64 20	103 17.7 44	98 -4.4 42	74 1.1 27	101 36.8 59	105 26 44	105 35 43	90 -0.26 37	96 -0.41 35	101 -0.23 34
PAL 200081 91601633 20 081	1	KRM 150061 PAL 150016	71 78	98 75	104 65	91 31	105 51	85 58	100 32	86 53	96 36	80 2.23 82	77 1.49 70	109 42 31	98 17.3 75	104 9.1 65	99 102 57	105 36.1 40	99 128 40	93 -67 21	100 16.2 44	112 -13.6 59	95 -2.1 35	109 40.1 58	105 25 44	102 33 43	94 0.04 38	91 -0.89 35	102 -0.20 35
PAL 200094 91277251 20 094		KC 160032 PAL 150015	110 77	85 75	113 62	96 20	106 39	110 53			100 12	120 -0.68 81	78 1.47 68	103 36 20	85 11.8 75	113 11.7 62	99 102 52	86 24.2 34	102 141 17	109 -87 12	100 16.1 19	109 -11.6 39	104 -3.5 22	93 33.0 57	101 23 18	100 31 18	97 0.26 12	113 1.23 11	115 0.43 11
PAL 200103 91277202 20 103		GG 110035 PAL 090064	95 79	87 75	98 69	102 18	112 50	97 55	86 20	95 48	86 16	104 0.50 82	78 1.47 72	97 31 18	87 12.4 75	98 7.4 69	89 81 54	88 25.2 36	89 91 23	93 -66 15	84 7.9 26	107 -10.4 50	113 -4.8 37	101 36.8 64	90 16 25	89 20 23	88 -0.41 17	108 0.75 15	107 0.06 15
PAL 210006 93171650 21 006	1	KJA 110057 PAL 180006	132 76	96 74	104 58	100 44	95 48	127 59	106 31	127 53	105 34	126 -1.14 80	117 -0.13 66	99 33 44	96 16.1 74	104 9.0 58	100 105 59	95 29.8 44	106 157 46	105 -82 14	106 19.0 49	96 -2.5 50	96 -2.3 32	98 35.5 61	100 22 49	102 33 48	111 1.31 35	97 -0.32 32	98 -0.37 31
PAL 210009 93171700 21 009	3	KJA 110057 PAL 180043	127 75	84 72	102 59	111 44	94 48	115 59	89 31	113 53	89 33	118 -0.59 79	123 -0.36 67	88 22 44	84 11.3 72	102 8.5 59	94 92 58	85 23.4 44	89 93 46	90 -63 14	92 11.9 49	101 -6.4 50	88 -1.1 33	101 36.6 61	84 12 49	85 16 48	95 0.13 34	95 -0.50 32	92 -0.69 31

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ID Number Name																													
PAL 210013 93171692 21 013	1	KJA 110057 PAL 180121	115 75	89 72	115 59	99 41	91 47	109 58	101 30	109 52	101 31	115 -0.33 79	101 0.53 67	99 33 41	89 13.4 72	115 12.3 59	105 115 57	91 27.5 40	102 141 45	103 -79 12	101 16.4 47	91 0.4 50	95 -2.1 32	97 34.7 60	99 22 47	99 30 47	107 1.04 32	97 -0.35 30	104 -0.10 29
PAL 210015 93125722 21 015	1	KRM 150061 PAL 180030	105 75	94 72	106 56	92 36	100 51	110 57	98 34	109 52	95 39	109 0.08 79	91 0.95 66	107 41 36	94 15.3 72	106 9.7 56	97 99 55	97 31.0 44	96 117 43	91 -63 23	103 17.5 47	107 -10.6 60	94 -1.9 34	100 36.3 58	99 22 47	100 30 46	90 -0.23 40	98 -0.27 38	95 -0.52 37
PAL 210019 93125565 21 019	1	KRM 150061 PAL 180022	102 75	84 71	111 55	92 30	99 47	97 54	100 30	97 49	96 36	107 0.23 79	89 1.04 65	107 41 30	84 11.2 71	111 11.2 55	94 92 52	92 27.6 40	98 127 39	94 -67 19	100 15.8 43	97 -3.4 56	98 -2.6 28	109 40.2 56	103 24 43	101 32 42	92 -0.06 37	92 -0.80 35	99 -0.34 34
PAL 210022 93172039 21 022		KJA 110057 PAL 180108	125 76	80 72	116 60	101 40	120 53	122 59	93 29	120 53	90 30	122 -0.89 80	108 0.26 68	97 30 40	80 9.5 72	116 12.7 60	100 105 57	78 19.2 40	93 107 45	94 -67 11	100 15.8 47	115 -16.2 62	120 -6.0 36	95 33.8 60	92 17 47	91 22 46	98 0.37 31	80 -2.04 29	95 -0.53 28
PAL 210024 93125615 21 024	1	KC 160032 PAL 180004	86 75	96 73	84 51	102 27	100 41	83 53			97 18	86 1.84 80	103 0.45 63	99 32 27	96 16.4 73	84 3.2 51	84 69 50	97 31.2 38	100 133 22	105 -81 15	95 13.2 24	106 -9.6 41	99 -2.7 24	86 30.2 57	95 19 24	93 24 23	101 0.55 19	97 -0.38 18	105 -0.03 18
PAL 210027 93125649 21 027	1	KC 160032 PAL 180076	74 73	113 71	90 49	92 27	95 47	76 52			110 14	68 3.11 78	91 0.94 62	109 43 27	113 23.4 71	90 5.0 49	98 100 49	110 39.6 37	112 176 22	114 -93 15	112 21.8 23	99 -4.7 57	96 -2.3 29	88 30.8 56	112 30 23	111 41 22	115 1.60 15	97 -0.36 14	111 0.26 14
PAL 210038 93171841 21 038		KJA 110057 PAL 170076	102 90	107 89	93 88	105 86	115 77	104 84	82 86	100 84	91 86	92 1.33 91	123 -0.37 89	95 28 86	107 20.8 89	93 6.0 88	102 109 88	100 33.2 58	82 64 86	81 -51 85	88 10.1 86	92 -0.3 59	133 -8.0 85	98 35.2 88	81 11 87	87 18 86	100 0.54 86	101 0.03 85	85 -1.01 85
PAL 210039 93171833 21 039	1	KJA 110057 PAL 150034	120 88	94 86	112 83	102 80	104 71	125 80	109 80	126 80	103 79	116 -0.39 89	113 0.04 85	96 29 80	94 15.6 86	112 11.6 83	108 123 83	89 26.1 54	109 168 81	109 -87 78	106 19.2 81	104 -8.2 49	102 -3.2 79	103 37.4 84	110 29 81	105 35 81	113 1.46 79	82 -1.84 79	113 0.34 79
PAL 210043 93171858 21 043	1	KJA 110057 PAL 160092	92 77	102 74	106 61	104 40	90 47	97 59	97 28	97 53	96 30	97 0.98 81	90 0.98 69	95 28 40	102 18.9 74	106 9.8 61	110 126 58	101 33.8 40	97 122 44	97 -72 11	98 14.8 47	92 0.1 49	91 -1.5 32	104 37.8 61	94 19 47	94 25 46	102 0.66 31	96 -0.47 29	101 -0.25 28
PAL 210052 93171734 21 052		KJA 110057 PAL 160093	120 77	97 74	113 61	93 40	118 54	130 60	108 29	130 54	108 30	119 -0.64 81	105 0.37 69	106 40 40	97 16.7 74	113 11.9 61	107 119 58	96 30.2 40	110 170 45	109 -87 11	110 20.9 47	119 -18.4 62	109 -4.2 37	107 39.4 62	106 26 47	107 38 46	115 1.61 31	94 -0.60 29	104 -0.11 28
PAL 210064 93171825 21 064	1	KJA 110057 PAL 150044	108 77	88 74	117 62	105 40	91 46	104 59	91 28	103 53	90 29	109 0.09 81	99 0.63 69	92 26 40	88 13.0 74	117 12.8 62	109 124 59	87 24.4 40	91 100 44	90 -62 9	90 10.9 47	93 -0.7 47	88 -1.1 31	112 41.5 61	87 14 46	91 22 45	99 0.44 30	85 -1.57 28	81 -1.19 27
PAL 210066 93125714 21 066	1	KRM 150061 PAL 120034	96 77	91 74	110 59	93 36	106 52	103 58	97 37	103 54	94 37	98 0.93 81	96 0.72 67	106 40 36	91 14.2 74	110 10.8 59	99 102 56	95 29.7 45	90 95 46	81 -51 25	103 17.6 49	116 -16.9 59	92 -1.6 38	109 40.2 59	99 22 49	102 33 48	92 -0.09 38	96 -0.39 36	96 -0.47 35

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ID Number Name																													
PAL 210068 93172013 21 068		KJA 110057 PAL 160109	97 77	107 74	89 61	108 40	85 52	88 59	92 28	87 53	93 30	97 1.01 81	101 0.51 69	92 25 40	107 20.8 74	89 4.7 61	99 102 58	103 35.2 40	93 106 44	94 -68 11	93 12.7 46	81 7.3 59	94 -1.9 36	100 36.3 62	89 16 47	89 20 46	98 0.34 31	99 -0.12 28	102 -0.21 28
PAL 210069 93125573 21 069	1	KRM 150061 PAL 140119	91 77	107 74	98 58	86 31	110 46	98 56	110 32	100 51	106 36	95 1.17 81	94 0.83 67	116 50 31	107 21.0 74	98 7.5 58	98 100 54	105 36.5 40	106 156 41	96 -70 21	109 20.4 44	108 -11.4 48	104 -3.6 34	113 41.9 57	111 30 44	113 43 43	100 0.54 37	96 -0.49 35	99 -0.32 34
PAL 210072 93171643 21 072	1	KJA 110057 PAL 170057	113 77	89 74	107 60	104 42	96 47	111 59	100 28	111 53	101 30	102 0.63 81	129 -0.60 68	94 28 42	89 13.2 74	107 9.9 60	100 104 59	88 25.2 40	101 138 45	102 -77 10	103 17.3 47	96 -2.6 49	96 -2.2 32	105 38.2 61	97 21 48	100 31 47	104 0.80 32	101 0.09 29	102 -0.19 29
PAL 210085 93124634 21 085	2	PAL 180026 PAL 110102	122 75	94 72	90 53	100 26	112 43	117 53	94 23	116 47	93 20	116 -0.41 80	116 -0.06 64	101 34 26	94 15.3 72	90 5.0 53	86 74 50	95 29.6 38	91 99 27	90 -62 17	97 14.5 29	105 -9.1 43	113 -5.0 32	106 38.9 55	99 22 26	96 27 26	99 0.43 21	93 -0.78 20	100 -0.27 19
PAL 210100 93124642 21 100	1	PAL 180026 PAL 170021	120 75	99 72	102 51	87 25	97 39	116 52	111 20	117 46	110 21	116 -0.41 80	112 0.09 64	113 47 25	99 17.7 72	102 8.4 51	96 95 49	100 32.9 36	108 163 24	104 -81 16	115 23.2 25	92 -0.3 37	100 -2.9 25	107 39.2 54	116 32 25	116 46 25	115 1.60 22	99 -0.14 20	111 0.25 20
PAL 210101 93124717 21 101	2	PAL 180026 PAL 160081	84 75	113 72	98 50	92 25	98 40	87 52	103 22	88 46	103 22	91 1.46 80	86 1.15 63	108 42 25	113 23.3 72	98 7.3 50	104 114 49	114 41.9 37	101 136 24	98 -73 17	109 20.6 26	98 -3.9 39	98 -2.5 26	107 39.3 55	107 27 26	108 39 25	109 1.20 22	98 -0.28 21	110 0.21 20
PAL 210105 93124758 21 105	1	PAL 180026 PAL 150016	105 75	103 72	99 52	95 26	108 47	108 53	97 22	107 47	96 22	112 -0.13 80	84 1.23 64	104 38 26	103 19.3 72	99 7.8 52	100 105 50	106 36.9 37	95 113 25	94 -68 17	102 16.8 26	103 -7.4 55	107 -4.0 32	111 41.0 54	103 25 26	101 31 25	102 0.70 22	95 -0.56 21	106 0.02 21
PAL 210107 93124774 21 107	2	PAL 180026 PAL 160034	106 85	95 84	99 79	105 76	94 70	105 77	86 76	102 77	94 75	107 0.27 87	101 0.54 82	95 28 76	95 15.7 84	99 7.7 79	98 99 80	94 29.0 54	88 87 76	93 -66 75	109 20.4 76	86 4.1 55	102 -3.1 76	105 38.3 80	111 29 76	103 34 76	99 0.47 75	108 0.73 75	109 0.15 75
PAL 210122 93124915 21 122	1	PAL 180026 PAL 160069	112 87	114 86	87 82	88 80	83 73	95 80	108 80	97 80	104 80	118 -0.53 89	88 1.07 84	114 48 80	114 23.7 86	87 4.3 82	94 92 83	115 42.9 56	100 135 80	92 -65 80	106 19.0 80	87 3.3 55	86 -0.7 81	94 33.5 83	110 29 80	111 41 80	113 1.50 80	92 -0.80 80	119 0.62 80
PAL 210123 93124923 21 123	2	PAL 180026 PAL 140083	105 75	100 72	82 53	103 25	97 39	93 52	91 20	91 46	91 20	103 0.51 80	105 0.38 64	97 31 25	100 18.0 72	82 2.7 53	86 73 50	102 34.4 35	90 97 24	92 -65 15	94 12.9 25	98 -4.4 38	94 -1.9 26	109 40.1 53	93 18 24	92 23 24	93 -0.05 21	102 0.13 20	106 0.02 19
PAL 220002 94747623 22 002	1	KJA 110057 PAL 190054	126 72	93 72	107 58	109 46	107 53	133 59	93 36	130 54	97 38	123 -0.92 77	109 0.21 62	90 23 46	93 15.0 72	107 9.9 58	105 115 59	91 27.1 44	93 106 50	94 -67 21	104 18.0 52	112 -14.0 62	101 -3.0 36	96 34.5 60	93 18 53	94 25 52	105 0.88 39	99 -0.17 36	99 -0.32 35
PAL 220003 94747631 22 003	1	KJA 110057 PAL 190038	131 73	88 72	108 57	119 41	87 46	124 57	100 30	123 52	97 30	123 -0.97 78	119 -0.21 63	80 14 41	88 12.8 72	108 10.2 57	106 118 57	90 26.5 38	101 137 44	102 -78 13	103 17.4 47	79 8.7 48	97 -2.5 31	107 39.4 58	93 18 47	95 25 46	105 0.88 32	89 -1.09 29	96 -0.46 28

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ID Number Name																													
PAL 220005 94747680 22 005		KJA 110057 PAL 190016	114 73	83 71	99 57	117 45	95 48	106 58	83 35	103 53	85 36	107 0.21 78	118 -0.16 63	82 16 45	83 10.9 71	99 7.7 57	93 90 58	82 21.6 44	84 73 48	87 -58 19	90 11.1 51	102 -7.0 50	91 -1.5 33	98 35.3 60	82 12 51	82 13 50	92 -0.08 37	97 -0.34 35	95 -0.50 34
PAL 220009 94747805 22 009		KJA 110057 PAL 190107	114 73	82 71	108 56	108 42	103 51	110 57	92 30	108 52	90 31	112 -0.13 78	106 0.33 63	91 24 42	82 10.2 71	108 10.3 56	97 97 56	85 23.4 39	92 103 45	94 -68 14	92 12.0 47	115 -16.2 61	91 -1.5 33	100 36.2 58	88 15 47	88 19 47	98 0.33 32	91 -0.96 30	100 -0.30 29
PAL 220010 94747813 22 010	2	KJA 110057 PAL 190112	121 73	78 72	104 58	115 42	88 46	104 57	84 30	102 52	81 30	116 -0.43 78	112 0.08 63	84 17 42	78 8.7 72	104 9.1 58	93 89 57	80 19.9 39	83 71 44	85 -56 14	87 9.3 47	96 -3.0 48	86 -0.7 31	96 34.6 58	78 9 47	79 10 47	90 -0.24 32	89 -1.10 29	93 -0.61 28
PAL 220011 94747870 22 011	1	KJA 110057 PAL 190044	128 74	87 72	102 59	108 46	87 52	114 59	90 36	112 54	94 36	118 -0.59 78	124 -0.41 64	91 24 46	87 12.5 72	102 8.5 59	96 95 59	85 23.3 44	90 96 49	93 -66 20	99 15.2 51	86 4.2 62	91 -1.6 35	103 37.7 60	93 18 52	93 24 51	102 0.68 38	99 -0.18 35	98 -0.37 34
PAL 220012 94747730 22 012	1	KJA 110057 PAL 190083	127 73	84 71	110 56	103 40	95 51	115 57	100 28	115 51	99 29	126 -1.18 78	103 0.45 63	95 29 40	84 11.1 71	110 10.7 56	98 99 56	84 22.7 39	102 139 44	103 -79 9	99 15.4 46	99 -5.2 61	91 -1.6 33	101 36.5 58	94 19 46	97 28 45	103 0.75 30	101 0.09 28	107 0.05 27
PAL 220017 94747433 22 017	2	KJA 110057 PAL 190027	110 72	94 72	93 58	109 42	85 50	101 58	94 30	100 52	94 30	102 0.63 77	120 -0.23 62	91 24 42	94 15.4 72	93 5.9 58	93 89 57	94 28.9 39	95 113 45	97 -71 14	97 14.2 47	89 2.1 61	86 -0.8 32	99 35.8 58	90 16 48	90 21 47	101 0.59 32	93 -0.77 29	97 -0.44 29
PAL 220023 94831195 22 023	1	BH 190058 PAL 190029	99 71	116 71	106 49	85 17	97 35	104 48				105 0.42 78	87 1.11 55	116 50 17	116 24.8 71	106 9.7 49	110 127 46	113 41.3 41	117 195 18	112 -90 12	119 25.3 20	87 3.2 34	108 -4.2 20	99 35.7 51	119 34 21	122 52 19	116 1.68 16	121 1.98 15	113 0.35 15
PAL 220033 94747565 22 033	3	PAL 180101 PAL 140096	92 72	119 72	90 52	94 17	83 43	81 50				99 0.82 79	83 1.27 57	107 41 17	119 26.1 72	90 4.9 52	103 112 47	113 41.2 30	103 144 19	105 -81 13	99 15.4 21	74 12.2 54	97 -2.5 25	97 34.8 51	107 27 20	108 38 20	104 0.82 12	110 0.90 11	111 0.26 10
PAL 220036 94747797 22 036		KJA 110057 PAL 160093	102 76	105 74	115 61	92 40	126 52	119 59	110 29	120 53	109 30	103 0.56 80	98 0.64 66	107 41 40	105 20.1 74	115 12.2 61	113 133 58	104 35.5 40	111 175 45	110 -88 11	111 21.6 47	126 -23.2 63	119 -5.8 34	102 36.9 60	107 27 47	109 40 46	116 1.71 31	94 -0.59 29	104 -0.08 28
PAL 220043 94747714 22 043	4	KJA 110057 PAL 150075	102 75	94 74	108 60	101 41	78 52	98 59	96 30	98 53	97 30	97 0.99 80	112 0.08 65	98 31 41	94 15.4 74	108 10.2 60	103 111 58	94 29.3 41	95 116 46	95 -69 12	99 15.4 48	82 6.7 60	81 0.0 35	99 35.6 60	93 18 48	97 28 47	102 0.69 31	99 -0.15 28	98 -0.38 27
PAL 220044 94747573 22 044	4	KJA 110057 PAL 180070	134 74	79 72	99 59	113 45	99 52	117 59	87 32	115 54	86 33	121 -0.76 78	136 -0.90 64	87 20 45	79 9.3 72	99 7.8 59	89 80 59	79 19.7 44	86 80 47	87 -58 15	91 11.7 50	101 -6.0 63	99 -2.8 35	98 35.1 59	81 11 50	83 14 49	91 -0.13 34	97 -0.32 32	92 -0.69 31
PAL 220046 94747847 22 046		KJA 110057 PAL 130024	116 75	89 74	128 62	96 43	73 52	101 60	105 30	102 54	106 32	118 -0.57 80	98 0.67 65	101 34 43	89 13.3 74	128 16.0 62	115 137 60	92 27.8 42	107 158 45	107 -84 14	107 19.3 48	80 8.5 62	74 1.0 34	101 36.6 60	106 26 48	108 39 47	108 1.12 33	104 0.36 30	107 0.04 30

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ID Number Name																													
PAL 220050		GG 110035	106	96	102	90	114	115	98	114	99	108	98	110	96	102	95	95	95	94	100	111	114	94	105	105	103	102	104
94747607		PAL 130057	76	74	63	28	53	57	28	51	19	0.20	0.67	44	16.4	8.4	93	29.8	115	-67	15.8	-13.1	-5.1	33.7	26	36	0.74	0.15	-0.11
22 050												80	66	28	74	63	55	44	32	22	34	61	35	62	34	33	20	18	18
PAL 220053	3	PAL 150037	91	88	125	98	108	99			95	100	80	99	88	125	112	90	95	98	100	108	104	104	100	98	90	112	101
94747839		PAL 140082	72	73	54	19	36	50			12	0.74	1.40	33	13.1	15.1	132	26.3	113	-72	15.9	-11.1	-3.5	38.0	22	29	-0.22	1.17	-0.26
22 053												79	58	19	73	54	49	30	19	11	20	33	22	53	20	20	13	12	12
PAL 220054	3	KJA 110057	136	83	112	102	93	120	97	119	97	129	119	96	83	112	99	83	97	96	100	96	90	109	95	97	102	98	102
94747722		PAL 130075	76	74	62	41	47	59	30	53	30	-1.36	-0.21	30	10.8	11.5	102	22.3	122	-71	16.1	-2.9	-1.3	40.0	19	28	0.69	-0.23	-0.19
22 054												80	66	41	74	62	59	42	45	12	47	48	32	60	47	47	31	28	27
PAL 220059	4	KJA 110057	121	98	108	101	102	123	100	122	99	119	108	98	98	108	106	93	98	95	99	103	96	112	96	98	102	99	96
94747524		PAL 140119	76	74	62	41	52	59	30	53	30	-0.61	0.25	31	17.0	10.4	119	28.8	126	-69	15.6	-7.4	-2.3	41.7	20	29	0.65	-0.16	-0.47
22 059												80	66	41	74	62	59	40	45	12	47	62	34	59	47	47	31	28	27
PAL 220064	2	PAL 180101	88	128	103	79	120	100			130	91	93	123	128	103	114	122	126	121	121	98	132	108	131	132	129	106	115
94747771		PAL 180008	72	71	49	17	42	49			12	1.42	0.84	57	29.7	9.0	135	47.2	232	-102	26.6	-4.5	-7.7	39.9	41	62	2.68	0.53	0.42
22 064												79	56	17	71	49	46	29	19	12	20	54	24	49	20	19	13	12	11
PAL 220072	1	PAL 150037	94	107	113	87	136	114			108	101	85	112	107	113	111	105	108	110	109	127	133	102	112	111	107	101	108
94743481		PAL 180108	71	71	51	21	44	50			14	0.69	1.19	46	21.0	11.8	130	36.2	163	-88	20.3	-23.9	-8.0	37.0	30	42	1.06	0.09	0.10
22 072												78	57	21	71	51	48	32	21	13	23	54	26	52	23	22	15	14	14
PAL 220083		WDW 080082	105	104	97	104	102	107	94	106	99	103	106	95	104	97	103	96	94	97	102	105	101	96	104	101	105	98	104
95335436		PAL 150034	76	75	62	44	48	60	42	56	44	0.54	0.32	28	19.8	7.1	112	30.4	112	-72	16.9	-8.8	-3.0	34.5	25	32	0.87	-0.23	-0.08
22 083												80	66	44	75	62	60	50	46	36	48	49	34	61	49	48	44	43	42
PAL 220086		BH 190058	103	115	103	89	99	105			120	101	107	111	115	103	109	111	115	112	117	91	106	101	116	120	113	120	111
94829769		PAL 170057	72	73	51	21	34	50			16	0.70	0.30	45	24.2	8.8	125	39.8	189	-90	24.4	0.7	-3.8	36.7	32	51	1.51	1.89	0.25
22 086												80	56	21	73	51	48	41	19	11	21	33	19	51	22	21	17	16	16
PAL 220094	1	BH 190023	110	119	107	91	101	113	111	114	115	113	92	109	119	107	117	118	111	105	119	83	114	113	107	116	115	101	101
94830023		PAL 130044	73	73	53	29	46	54	24	48	18	-0.23	0.88	43	26.0	10.1	142	44.7	173	-81	25.3	5.8	-5.0	42.1	27	46	1.63	0.05	-0.22
22 094												79	59	29	73	53	52	46	29	19	30	56	30	52	30	30	18	17	17
PAL 220097	1	BH 190023	114	110	113	100	121	126	107	126	111	122	81	98	110	113	119	114	109	105	120	112	121	107	103	108	107	107	107
94830106		PAL 140072	73	73	53	30	46	54	25	48	24	-0.88	1.34	32	22.0	11.7	147	42.2	166	-82	26.0	-13.7	-6.2	39.2	25	39	1.07	0.67	0.04
22 097												79	59	30	73	53	52	46	30	19	31	56	30	52	30	29	25	24	24
PAL 220098	1	BH 190023	108	102	117	93	111	116			108	117	80	105	102	117	114	105	108	105	108	94	119	113	103	105	102	107	102
94829967		PAL 150015	72	73	53	19	36	50			14	-0.51	1.40	39	18.6	13.0	135	36.1	165	-82	20.2	-1.6	-5.9	42.2	24	36	0.68	0.63	-0.20
22 098												79	58	19	73	53	48	42	17	11	19	37	21	50	19	18	14	13	13
PAL 220101		BH 190023	89	121	106	93	128	105			115	95	87	107	121	106	118	122	114	112	110	110	134	110	110	111	110	103	101
94829736		PAL 160040	72	73	52	23	44	52			16	1.13	1.11	41	26.7	9.7	144	47.0	184	-90	20.9	-12.3	-8.1	40.4	29	42	1.27	0.23	-0.22
22 101												79	58	23	73	52	49	42	19	11	21	56	24	51	21	20	17	16	15

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ID Number Name																													
PAL 220106 94829819 22 106	1	BH 190023 PAL 150016	82 72	125 73	104 52	89 21	114 44	95 51			117 16	91 1.44 79	75 1.57 58	111 45 21	125 28.3 73	104 9.1 52	117 141 49	129 51.5 41	117 198 18	112 -91 12	113 22.3 20	93 -1.0 56	125 -6.8 24	113 42.1 51	115 31 20	115 45 19	116 1.71 16	97 -0.38 15	105 -0.03 14
PAL 220116 94829850 22 116	1	BH 190023 PAL 160057	97 72	115 72	103 52	94 21	106 38	103 50			111 12	102 0.64 79	89 1.02 58	106 39 21	115 24.3 72	103 8.7 52	111 130 48	117 43.9 42	110 171 21	106 -82 12	110 21.1 22	93 -0.8 41	114 -5.1 24	107 39.2 50	104 25 21	107 38 20	109 1.17 13	98 -0.21 12	99 -0.33 12
PAL 230004 96185285 23 004	1	PAL 150037 PAL 200060	85 67	100 69	119 47	89 23	118 38	104 48	106 21	105 43	107 22	93 1.29 76	81 1.32 47	110 44 23	100 18.1 69	119 13.4 47	112 130 46	103 34.8 33	107 160 26	107 -84 14	109 20.4 28	120 -19.1 40	111 -4.6 25	102 36.9 49	111 29 29	111 42 28	102 0.67 22	104 0.38 21	106 -0.02 20
PAL 230005 96185293 23 005	3	PAL 150037 PAL 200092	91 67	103 69	97 47	94 20	99 36	93 47			100 14	95 1.12 76	90 0.98 48	106 40 20	103 19.1 69	97 7.2 47	98 99 45	98 32.0 32	99 128 20	98 -73 13	104 18.0 22	97 -3.8 35	102 -3.1 23	97 34.9 50	105 25 22	104 34 22	92 -0.06 15	113 1.27 14	95 -0.53 13
PAL 230007 96185251 23 007		PAL 150037 PAL 200094	117 85	90 86	120 82	97 80	127 65	126 78	102 80	126 78	107 80	125 -1.08 87	82 1.29 82	100 34 80	90 13.6 86	120 13.8 82	109 125 83	94 29.2 51	106 157 80	119 -99 80	107 19.5 80	127 -24.3 33	122 -6.2 80	88 30.9 82	112 30 80	109 40 80	95 0.11 80	129 2.87 80	117 0.54 80
PAL 230009 96185202 23 009	1	PAL 150037 PAL 200008	105 67	93 69	114 46	94 24	110 38	116 48	101 22	115 43	102 22	110 0.03 76	89 1.00 46	105 39 24	93 15.2 69	114 12.0 46	105 115 46	95 30.0 34	101 138 27	101 -77 15	106 18.8 28	115 -15.9 40	103 -3.4 25	97 34.9 49	106 26 29	106 36 28	98 0.34 23	106 0.51 21	104 -0.07 21
PAL 230011 96185236 23 011	1	KJA 110057 PAL 200057	114 70	90 71	103 57	112 46	98 49	114 58	86 36	111 54	90 36	106 0.35 76	121 -0.29 58	87 21 46	90 13.6 71	103 8.9 57	100 105 58	87 24.6 44	85 78 49	89 -62 20	97 14.6 51	99 -5.2 54	96 -2.3 35	104 37.9 57	89 16 52	89 20 51	99 0.46 38	100 0.00 35	96 -0.47 34
PAL 230031 96184189 23 031		PAL 150037 PAL 190062	90 67	97 71	117 50	99 29	102 38	101 50	93 26	100 45	99 26	95 1.13 76	88 1.06 49	98 32 29	97 16.8 71	117 12.9 50	113 134 50	97 30.8 38	95 113 29	99 -74 21	101 16.3 31	104 -8.5 38	101 -3.1 25	96 34.3 51	102 24 31	102 33 31	99 0.41 26	108 0.73 25	108 0.08 24
PAL 230037 96184346 23 037	2	PAL 150037 PAL 190007	115 67	88 71	112 49	105 28	122 39	126 50	87 26	123 45	93 24	116 -0.41 76	100 0.57 49	93 26 28	88 13.0 71	112 11.6 49	105 115 49	84 23.0 37	88 89 29	93 -66 21	96 13.9 30	120 -19.5 41	119 -5.8 26	96 34.4 50	95 19 30	94 25 30	91 -0.16 25	109 0.81 24	101 -0.23 23
PAL 230046 96184601 23 046	4	KJA 110057 PAL 140056	114 73	87 75	100 62	110 41	94 46	107 58	87 30	105 52	87 30	105 0.42 79	124 -0.40 61	89 22 41	87 12.6 75	100 8.0 62	95 93 59	87 24.4 42	87 83 45	87 -58 12	90 10.9 47	101 -6.4 48	88 -1.0 32	103 37.6 58	84 13 47	86 17 47	94 0.04 31	97 -0.38 28	95 -0.55 28
PAL 230048 96184593 23 048		KJA 110057 PAL 190105	111 70	83 71	108 56	108 41	85 46	101 56	92 28	100 50	91 30	110 0.00 76	103 0.44 56	90 24 41	83 10.8 71	108 10.2 56	98 99 56	86 23.8 40	94 109 44	98 -72 11	91 11.5 46	97 -3.4 52	82 -0.2 31	89 31.3 56	88 15 47	88 19 46	98 0.33 31	97 -0.35 28	102 -0.18 28
PAL 230053 96184734 23 053	1	PAL 150037 PAL 180096	95 67	100 71	102 50	95 21	108 36	104 48			101 16	97 1.02 76	97 0.70 49	104 38 21	100 18.2 71	102 8.4 50	100 105 47	100 33.0 32	99 129 21	103 -79 14	99 15.7 22	104 -8.1 35	111 -4.6 23	95 34.1 51	106 26 23	103 34 22	100 0.48 16	107 0.61 15	107 0.07 15

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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
PAL 230054 96184742 23 054		KJA 110057 PAL 190029	118 71	101 72	108 59	94 40	94 46	118 57	110 28	119 51	111 30	117 -0.52 77	104 0.40 59	106 39 40	101 18.5 72	108 10.1 59	105 116 57	98 31.8 40	110 170 44	107 -85 11	111 21.6 47	89 1.8 49	100 -3.0 32	101 36.6 57	107 27 47	110 40 46	114 1.56 31	103 0.25 29	107 0.06 28
PAL 230061 96184841 23 061	2	PAL 180101 PAL 170057	100 69	128 72	105 51	79 20	101 36	105 49			131 14	103 0.57 78	95 0.78 50	123 57 20	128 29.7 72	105 9.3 51	114 137 48	118 44.7 32	125 228 21	120 -101 13	124 27.8 22	86 4.1 35	115 -5.2 23	100 36.0 49	131 41 23	135 65 22	129 2.69 15	110 0.91 14	119 0.62 14
PAL 230063 96184890 23 063	1	PAL 150037 PAL 180108	94 68	102 71	111 51	89 21	128 39	112 49			105 14	97 0.98 77	92 0.88 50	110 44 21	102 19.0 71	111 11.2 51	107 120 48	101 33.5 32	105 153 21	108 -86 13	106 19.0 23	120 -19.3 41	129 -7.4 26	96 34.2 51	109 28 23	108 39 22	104 0.85 15	101 0.06 14	107 0.05 14
PAL 230064 96184908 23 064		KJA 110057 PAL 160109	109 73	108 75	83 61	106 40	88 47	95 58	95 28	94 52	97 30	106 0.33 79	109 0.20 61	95 28 40	108 21.5 75	83 3.0 61	94 92 59	103 35.0 40	96 119 44	97 -71 11	97 14.2 46	88 2.6 50	95 -2.1 33	93 32.9 58	92 18 47	93 24 46	101 0.61 31	100 -0.09 28	103 -0.14 28
PAL 230065 96184916 23 065		KJA 110057 PAL 180022	114 71	93 72	114 59	99 40	102 46	118 57	103 28	118 51	102 30	114 -0.26 77	102 0.47 59	99 33 40	93 15.2 72	114 12.0 59	107 121 57	96 30.5 39	103 144 44	103 -79 9	102 16.9 46	94 -1.6 50	107 -4.0 33	107 39.1 56	100 23 46	101 32 45	108 1.08 31	97 -0.34 28	101 -0.23 28
PAL 230066 96184924 23 066	4	KJA 110057 PAL 140087	127 73	85 75	116 62	102 41	90 46	115 58	98 30	114 52	97 30	123 -0.91 79	112 0.09 61	95 29 41	85 11.8 75	116 12.5 62	104 114 59	84 22.9 40	97 120 45	95 -69 12	100 16.0 47	96 -2.8 48	88 -1.1 32	98 35.5 58	92 17 47	97 28 47	100 0.53 31	99 -0.14 28	98 -0.37 28
PAL 230070 96184114 23 070	3	KJA 110057 PAL 160065	130 73	86 75	109 61	104 41	104 48	125 58	94 30	124 52	95 30	123 -0.92 79	119 -0.19 61	95 28 41	86 12.1 75	109 10.4 61	99 102 59	83 21.9 41	93 108 45	92 -65 12	99 15.4 48	102 -6.7 53	106 -3.8 34	99 35.9 58	91 17 47	94 25 47	99 0.47 31	98 -0.23 28	97 -0.44 27
PAL 230072 96184072 23 072	3	PAL 150037 PAL 140063	104 69	100 73	98 52	102 20	99 39	105 50			96 14	104 0.46 78	100 0.57 51	97 31 20	100 18.1 73	98 7.4 52	100 104 48	98 31.4 32	96 120 20	103 -78 12	94 12.9 21	93 -0.7 39	108 -4.1 26	93 33.1 51	99 22 21	95 26 21	91 -0.14 14	109 0.86 13	106 -0.02 12
PAL 230074 96184098 23 074		KJA 110057 PAL 160014	106 72	101 74	106 61	95 41	90 47	107 58	106 30	108 52	106 30	104 0.46 78	107 0.29 60	104 38 41	101 18.4 74	106 9.8 61	104 115 59	102 34.1 40	106 157 45	105 -82 12	106 18.9 47	90 1.4 50	95 -2.2 32	95 33.9 58	106 26 47	106 37 46	113 1.48 32	96 -0.42 29	105 -0.05 29
PAL 230075 96184213 23 075	1	PAL 150037 PAL 130024	108 69	82 73	132 54	95 24	94 40	98 51	98 20	97 45	102 18	113 -0.22 78	89 1.03 51	102 36 24	82 10.3 73	132 17.4 54	113 132 50	86 24.2 35	101 138 22	106 -83 15	101 16.4 24	101 -6.2 41	90 -1.3 26	97 34.7 52	108 27 24	107 37 24	96 0.20 18	113 1.26 17	110 0.17 17
PAL 230076 96184221 23 076		KJA 110057 PAL 180021	126 72	101 72	100 60	99 40	93 46	118 57	105 28	118 51	106 30	121 -0.80 77	112 0.07 60	100 34 40	101 18.5 72	100 8.1 60	101 107 57	96 30.7 40	106 154 44	105 -82 11	105 18.5 47	91 0.4 49	97 -2.4 32	100 36.3 58	104 25 47	104 35 46	112 1.41 32	97 -0.34 29	104 -0.09 28
PAL 230085 96185186 23 085		KJA 110057 PAL 190082	111 71	89 71	98 58	107 43	96 46	105 57	93 32	104 52	90 32	105 0.39 77	114 -0.02 58	92 25 43	89 13.2 71	98 7.5 58	93 90 57	90 26.5 40	92 103 46	93 -67 15	97 14.6 48	98 -4.6 49	96 -2.2 32	96 34.6 56	86 14 48	87 18 48	98 0.37 33	87 -1.33 31	94 -0.57 30

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ID Number Name																														
PAL 230090 96184676 23 090	1	BH 190058 PAL 170071	103 69	120 73	89 51	90 20	99 38	97 49				117 16	100 0.77 78	107 0.27 49	111 45 20	120 26.4 73	89 4.8 51	101 108 48	116 43.2 42	111 176 21	107 -84 14	115 23.6 23	92 -0.2 39	106 -3.9 24	99 35.6 51	114 31 23	116 46 22	112 1.40 17	118 1.77 16	113 0.34 15
PAL 230092 96184718 23 092		BH 190058 PAL 170076	84 69	132 72	95 51	86 21	106 36	89 49				124 16	85 1.89 78	99 0.60 49	115 50 21	132 31.6 72	95 6.5 51	113 134 48	126 50.0 42	118 202 20	113 -92 11	118 25.1 21	90 1.3 36	120 -6.0 21	97 34.8 50	120 35 22	124 54 21	120 2.02 17	117 1.64 16	107 0.06 16
PAL 230112 96184569 23 112	1	BH 190058 PAL 170005	102 69	119 72	99 51	84 17	96 34	101 48				123 16	105 0.39 78	94 0.83 49	117 51 17	119 26.0 72	99 7.6 51	106 119 47	114 42.3 41	118 202 18	113 -91 12	121 26.6 20	87 3.1 33	107 -4.0 20	95 33.8 50	121 36 20	124 54 19	118 1.88 16	119 1.81 15	111 0.27 14
PAL 230116 96183991 23 116	2	BH 190023 PAL 130080	107 70	108 71	116 53	91 26	94 39	110 51				111 18	117 -0.46 78	73 1.65 53	108 42 26	108 21.4 71	116 12.6 53	116 140 50	114 42.3 44	112 177 21	109 -86 15	105 18.5 23	87 3.6 43	102 -3.2 24	103 37.4 50	108 27 23	109 40 22	109 1.20 18	98 -0.25 17	105 -0.02 17
PAL 240001 98787591 24 001	1	BH 100032 PAL 170065	103 64	107 62	111 60	92 42	108 50	114 54	110 31	115 49	113 34	104 0.46 65	99 0.62 61	107 40 42	107 20.7 62	111 11.3 60	112 131 55	108 38.2 51	111 175 37	110 -88 24	110 20.8 39	107 -10.6 54	108 -4.2 36	96 34.4 59	109 28 39	111 42 39	108 1.09 35	109 0.82 33	105 -0.07 33	
PAL 240007 98787583 PAL24-007	1	BH 100032 PAL 170065	120 87	79 86	122 85	113 84	128 74	123 81	83 82	119 81	94 83	125 -1.09 87	89 1.04 86	84 18 84	79 9.1 86	122 14.4 85	110 127 85	81 20.4 66	85 76 83	94 -68 82	99 15.3 83	130 -26.1 54	119 -5.8 83	97 34.7 86	104 25 83	97 28 83	91 -0.16 83	143 4.16 83	131 1.23 83	
PAL 240008 98787617 24 008	1	BH 100032 PAL 170065	103 64	107 62	111 60	92 42	108 50	114 54	110 31	115 49	113 34	104 0.46 65	99 0.62 61	107 40 42	107 20.7 62	111 11.3 60	112 131 55	108 38.2 51	111 175 37	110 -88 24	110 20.8 39	107 -10.6 54	108 -4.2 36	96 34.4 59	109 28 39	111 42 39	108 1.09 35	109 0.82 33	105 -0.07 33	
PAL 240009 99684359 24 009	1	BH 100032 PAL 170065	103 64	107 62	111 60	92 42	108 50	114 54	110 31	115 49	113 34	104 0.46 65	99 0.62 61	107 40 42	107 20.7 62	111 11.3 60	112 131 55	108 38.2 51	111 175 37	110 -88 24	110 20.8 39	107 -10.6 54	108 -4.2 36	96 34.4 59	109 28 39	111 42 39	108 1.09 35	109 0.82 33	105 -0.07 33	
PAL 240012 99684326 24 012		P43145081 PAL 110021	99 64	106 63	103 63	96 35	104 49	105 53	107 26	106 48	108 23	96 1.08 65	109 0.19 62	103 37 35	106 20.4 63	103 8.8 63	105 117 54	105 36.2 42	108 161 32	106 -83 19	109 20.4 34	96 -2.7 52	110 -4.4 35	103 37.7 59	107 27 35	107 38 35	104 0.81 24	106 0.60 22	110 0.21 22	
PAL 240014 98787609 24 014	1	BH 100032 PAL 170065	103 64	107 62	111 60	92 42	108 50	114 54	110 31	115 49	113 34	104 0.46 65	99 0.62 61	107 40 42	107 20.7 62	111 11.3 60	112 131 55	108 38.2 51	111 175 37	110 -88 24	110 20.8 39	107 -10.6 54	108 -4.2 36	96 34.4 59	109 28 39	111 42 39	108 1.09 35	109 0.82 33	105 -0.07 33	
PAL 240016 97765606 24 016	1	KJA 110057 PAL 210085	135 70	85 61	105 53	105 41	100 45	125 53	96 29	124 48	95 30	129 -1.38 76	117 -0.12 56	93 27 41	85 11.6 61	105 9.5 53	96 95 52	86 24.0 40	95 113 45	94 -68 11	99 15.6 47	99 -5.1 49	100 -2.9 33	101 36.8 54	94 19 47	94 25 46	103 0.70 32	95 -0.50 29	98 -0.40 29	
PAL 240017 97765614 24 017	2	KJA 110057 PAL 210123	123 70	90 61	100 53	107 41	92 44	114 53	94 28	113 48	94 30	118 -0.57 76	113 0.05 56	92 25 41	90 13.8 61	100 8.0 53	96 95 52	92 27.6 40	94 113 44	96 -70 11	98 14.8 46	96 -2.8 48	90 -1.4 31	103 37.4 53	91 17 47	92 23 46	99 0.47 32	100 -0.05 29	101 -0.26 29	

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ID Number Name																													
PAL 240018 97765622 24 018		KJA 110057 PAL 210025	109 69	92 61	104 52	101 40	88 46	106 52	104 28	106 47	103 30	105 0.42 75	110 0.15 55	97 31 40	92 14.6 61	104 9.2 52	99 102 51	94 29.4 40	106 155 44	104 -81 9	103 17.7 46	96 -2.7 52	87 -0.9 32	90 31.8 54	94 19 46	100 31 45	109 1.19 31	96 -0.42 28	99 -0.35 27
PAL 240019 97765630 24 019	2	KJA 110057 PAL 210100	127 70	91 61	109 52	99 41	92 44	121 52	104 28	121 47	104 30	121 -0.76 76	117 -0.12 56	100 33 41	91 14.2 61	109 10.5 52	101 107 51	92 27.8 40	103 145 44	102 -77 11	108 20.0 47	93 -0.7 48	94 -1.9 31	102 36.9 54	102 24 47	104 35 46	110 1.29 32	99 -0.18 29	103 -0.14 29
PAL 240027 98786825 24 027		SLM 140006 PAL 210066	110 70	93 61	110 55	100 47	110 47	119 55	101 34	118 51	102 47	115 -0.33 76	89 1.00 57	98 32 47	93 15.0 61	110 11.0 55	104 114 54	97 30.8 50	97 123 51	91 -64 14	107 19.2 53	117 -17.0 54	99 -2.7 34	104 38.0 54	105 26 53	109 39 53	104 0.83 48	101 0.02 46	105 -0.06 46
PAL 240040 97754683 24 040	5	BH 190058 PAL 210015	89 66	116 58	100 42	90 23	97 36	92 44	109 21	94 39	112 24	90 1.51 76	98 0.67 45	111 45 23	116 24.9 58	100 7.8 42	108 121 41	116 43.5 42	108 163 26	103 -79 14	114 22.8 28	97 -3.5 39	100 -2.8 22	94 33.7 46	110 28 29	113 43 28	104 0.84 24	116 1.53 23	103 -0.15 22
PAL 240044 97754808 24 044	1	BH 190058 PAL 210019	114 66	99 58	110 42	89 21	96 35	115 43	110 20	116 38	112 22	119 -0.65 76	89 1.01 44	110 44 21	99 17.7 58	110 10.9 42	104 113 40	102 34.1 41	109 169 24	104 -81 13	112 22.0 26	92 0.1 38	102 -3.2 20	99 35.6 46	111 29 27	113 44 26	105 0.92 23	113 1.27 21	105 -0.06 21
PAL 240051 98039068 24 051		KJA 110057 PAL 150010	118 73	96 63	97 61	103 41	96 46	114 55	100 30	113 50	101 30	111 -0.01 79	119 -0.20 61	96 30 41	96 16.2 63	97 7.1 61	96 95 55	94 29.3 42	101 138 45	101 -76 14	102 16.7 47	95 -2.3 49	100 -2.9 32	92 32.5 57	97 21 47	99 29 47	105 0.88 32	100 -0.03 29	102 -0.21 29
PAL 240052 98039076 24 052	2	PAL 180101 PAL 190038	102 67	121 57	99 46	96 19	93 34	99 43			119 14	102 0.65 76	102 0.49 48	104 37 19	121 26.7 57	99 7.8 46	114 135 41	116 43.4 29	119 203 20	116 -95 16	118 24.8 21	72 13.5 34	114 -5.0 22	106 39.1 46	120 35 21	122 52 21	123 2.21 15	97 -0.33 13	110 0.22 13
PAL 240054 98039084 24 054	2	KJA 110057 PAL 200063	110 71	89 61	112 54	102 42	86 45	104 53	97 32	104 49	97 34	109 0.10 77	103 0.43 58	96 29 42	89 13.4 61	112 11.4 54	104 113 52	91 27.1 40	97 122 47	95 -69 13	102 17.2 50	96 -2.7 49	80 0.1 32	99 35.7 55	97 21 50	98 29 49	98 0.36 35	97 -0.31 32	98 -0.38 32
PAL 240056 98039126 24 056		KJA 110057 PAL 160109	109 73	98 63	85 61	111 40	88 47	98 55	90 28	97 50	90 30	104 0.46 79	113 0.03 61	90 23 40	98 17.0 63	85 3.7 61	90 82 55	95 29.6 40	91 98 44	93 -66 11	91 11.6 46	90 1.0 50	92 -1.7 33	90 31.6 57	87 14 47	87 18 46	95 0.13 31	99 -0.15 28	101 -0.26 28
PAL 240057 98039134 24 057	1	KJA 110057 PAL 200007	116 71	92 62	112 56	97 43	88 45	111 54	105 34	111 50	104 36	114 -0.29 77	106 0.34 58	101 35 43	92 14.4 62	112 11.5 56	103 112 54	93 28.5 42	105 154 48	103 -79 16	107 19.6 51	93 -0.6 49	86 -0.8 32	101 36.7 55	103 24 51	105 35 50	109 1.18 37	95 -0.53 34	100 -0.28 33
PAL 240058 98039142 24 058		KJA 110057 PAL 140072	111 74	99 64	110 62	109 46	99 50	119 57	95 36	117 53	99 36	111 -0.05 79	101 0.53 62	89 23 46	99 17.7 64	110 10.8 62	113 134 57	100 33.1 46	97 121 50	97 -71 19	112 21.9 53	107 -10.3 55	94 -2.0 38	92 32.6 58	93 18 52	98 29 51	103 0.72 37	107 0.64 35	106 0.03 34
PAL 240059 98039100 24 059	2	KJA 110057 PAL 200056	116 71	89 62	113 56	98 43	88 45	108 54	99 32	108 50	99 34	117 -0.46 77	99 0.62 58	100 34 43	89 13.5 62	113 11.7 56	103 111 54	91 27.5 41	99 129 48	97 -71 14	103 17.5 50	95 -2.0 49	84 -0.5 32	102 37.1 55	99 22 51	100 31 50	102 0.65 36	96 -0.47 33	98 -0.40 32

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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
PAL 240061 98039159 24 061	2	KJA 110057 PAL 180106	117 71	91 62	109 59	100 40	90 46	113 54	98 28	113 49	99 30	115 -0.31 77	108 0.23 59	99 32 40	91 14.1 62	109 10.6 59	101 107 54	90 26.7 40	98 127 44	98 -73 11	101 16.3 47	92 0.0 49	94 -1.9 32	92 32.8 56	97 21 47	98 29 46	105 0.86 31	100 -0.06 29	103 -0.16 28
PAL 240064 98039183 24 064		KJA 110057 PAL 180096	116 72	91 62	100 58	102 41	92 46	110 54	96 30	109 49	97 30	111 -0.07 77	112 0.08 60	97 30 41	91 14.4 62	100 7.9 58	95 93 54	91 27.5 40	97 120 44	97 -72 12	98 14.9 47	93 -0.6 50	96 -2.2 32	96 34.2 56	96 20 47	95 26 46	103 0.75 32	97 -0.37 29	101 -0.22 29
PAL 240066 98039209 24 066	1	KJA 110057 PAL 160055	104 86	95 83	117 83	101 81	99 71	110 79	110 80	111 79	111 80	102 0.64 88	107 0.29 83	96 30 81	95 16.0 83	117 12.9 83	113 133 82	99 32.1 54	110 170 81	101 -77 79	117 24.6 81	94 -1.2 51	103 -3.3 80	108 39.7 83	110 29 81	114 44 81	122 2.18 80	107 0.63 79	104 -0.10 79
PAL 240067 98039217 24 067		KJA 110057 PAL 200060	95 71	100 62	113 56	95 42	103 47	104 54	106 32	105 50	104 34	96 1.03 77	98 0.65 58	103 37 42	100 18.0 62	113 11.7 56	110 126 53	102 34.3 41	106 156 47	103 -79 13	109 20.3 50	108 -11.2 53	96 -2.3 33	102 37.2 55	103 24 50	105 35 49	108 1.08 35	94 -0.59 33	100 -0.28 32
PAL 240075 98039274 24 075	2	KJA 110057 PAL 180013	97 72	102 61	123 58	94 40	100 46	105 54	107 28	106 49	108 30	97 0.98 78	100 0.57 59	103 37 40	102 18.6 61	123 14.6 58	119 147 53	102 34.1 39	106 156 44	103 -79 10	106 19.2 46	93 -0.8 51	108 -4.2 32	94 33.5 54	104 25 46	108 38 46	112 1.44 31	102 0.12 28	101 -0.23 28
PAL 240089 98200983 24 089		BH 190058 PAL 150034	94 70	119 61	102 51	92 21	93 34	96 46			114 16	93 1.30 79	104 0.43 51	108 42 21	119 25.8 61	102 8.4 51	112 131 44	113 41.5 42	110 171 19	109 -87 11	111 21.3 20	90 1.2 34	100 -2.9 19	95 33.9 50	113 31 22	115 45 21	111 1.35 17	114 1.31 16	108 0.08 16
PAL 240090 98200991 24 090	1	BH 190058 PAL 160074	110 69	106 60	100 50	96 18	93 32	107 45			106 14	110 0.04 78	101 0.53 49	104 38 18	106 20.6 60	100 7.8 50	103 111 43	103 34.9 40	102 142 17	100 -76 10	104 17.8 18	94 -1.6 30	97 -2.5 17	88 31.1 48	104 25 19	107 37 18	104 0.79 15	110 0.90 14	102 -0.19 14
PAL 240096 98200801 24 096	1	PAL 210049 PAL 200081	90 66	93 53	103 44	103 26	98 36	97 44	94 22	96 40	90 24	93 1.27 75	93 0.86 46	95 29 26	93 15.2 53	103 8.9 44	100 104 41	97 30.9 31	92 105 30	91 -63 11	93 12.4 32	107 -10.6 39	88 -1.0 24	103 37.4 44	93 18 32	91 22 32	91 -0.18 25	94 -0.61 23	92 -0.66 23
PAL 240097 98200819 24 097	3	PAL 210049 PAL 180053	117 67	90 54	103 49	108 31	93 38	112 46	95 24	111 42	91 23	114 -0.25 76	108 0.24 49	91 25 31	90 13.9 54	103 8.8 49	99 102 45	92 27.6 36	92 104 30	92 -64 15	94 13.2 32	97 -3.5 41	89 -1.3 28	105 38.6 46	89 15 32	88 19 31	93 -0.03 24	98 -0.19 22	92 -0.67 22
PAL 240103 98201023 24 103	1	PAL 210049 PAL 190107	103 67	84 52	100 44	111 26	91 36	95 44	86 20	93 39	81 19	103 0.55 76	102 0.47 47	88 21 26	84 11.1 52	100 7.9 44	92 87 41	87 24.4 29	84 75 26	87 -59 13	83 7.2 28	105 -9.2 39	82 -0.1 24	96 34.4 45	83 12 28	80 11 27	87 -0.47 20	90 -1.03 18	93 -0.63 18
PAL 240107 98200918 24 107		BH 190058 PAL 150044	92 86	113 84	100 82	90 80	84 64	90 78	102 80	90 78	108 79	102 0.65 88	79 1.40 82	111 45 80	113 23.4 84	100 8.1 82	106 117 82	110 39.5 58	106 155 80	110 -88 79	96 13.9 80	87 3.4 31	87 -0.8 79	98 35.4 82	101 23 80	106 37 80	99 0.41 79	119 1.80 79	106 0.02 79
PAL 240118 98201221 24 118	1	BH 190058 PAL 170082	96 69	113 60	104 50	94 23	101 37	103 46			116 20	97 0.97 78	98 0.65 49	106 40 23	113 23.5 60	104 9.0 50	110 128 44	113 41.4 42	113 180 21	110 -88 12	113 22.5 23	96 -2.8 39	109 -4.3 24	91 32.1 49	108 28 25	112 42 23	108 1.14 20	121 1.99 19	103 -0.13 18

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PAL 240121		PAL 210049	116	91	106	100	95	114			97	118	97	99	91	106	99	90	97	97	97	96	96	95	99	96	95	98	102	98
98201254		PAL 190029	67	53	47	23	34	43			18	-0.53	0.68	32	14.4	9.6	102	26.4	124	-71	14.5	-3.1	-2.2	35.6	20	26	0.37	0.13	-0.36	
24 121												76	48	23	53	47	41	30	25	9	27	34	22	46	27	26	19	17	17	
PAL 240125		BH 190058	96	106	109	91	94	101			110	100	91	108	106	109	108	104	106	103	113	92	99	96	109	111	104	121	104	
98200934	1	PAL 140082	70	61	53	16	33	45			14	0.77	0.95	42	20.3	10.5	123	35.3	157	-79	22.3	-0.2	-2.8	34.6	28	41	0.79	1.99	-0.11	
24 125												79	51	16	61	53	43	40	17	10	19	31	18	49	19	18	14	13	13	
PAL 240126		PAL 210049	124	76	100	117	88	102	92	101	81	119	114	83	76	100	88	78	84	80	76	115	66	97	76	73	76	99	64	
98200967	2	PAL 180069	86	84	83	81	68	79	80	79	81	-0.65	0.01	16	7.9	7.8	78	19.1	74	-50	4.1	-15.6	2.3	35.0	8	4	-1.32	-0.15	-2.00	
24 126												88	83	81	84	83	83	54	81	80	81	40	81	83	81	81	81	81	81	
PAL 240130		BH 190058	88	127	109	81	97	96			126	91	94	119	127	109	119	125	122	118	121	87	107	101	119	124	122	115	106	
98201171	1	PAL 170093	70	60	51	20	38	46			16	1.41	0.81	54	29.4	10.5	147	49.3	215	-99	26.6	3.1	-4.0	36.6	34	55	2.17	1.42	0.01	
24 130												79	50	20	60	51	44	42	21	14	23	41	24	50	23	22	17	15	15	
PAL 240133		BH 190058	102	111	103	91	88	100	111	102	115	102	100	109	111	103	107	109	112	111	112	86	96	94	114	115	116	113	109	
98200876	1	PAL 170060	69	60	50	27	37	47	26	43	24	0.60	0.57	43	22.8	8.9	121	38.7	177	-90	21.8	3.8	-2.3	33.4	31	45	1.69	1.23	0.13	
24 133												78	49	27	60	50	46	44	28	24	29	36	25	49	30	29	25	24	24	
PAL 250003		KJA 010103	102	107	102	92	100	105	93	104	99	100	104	107	107	102	103	106	90	87	104	95	107	93	99	104	100	110	99	
99848269	1	PAL 220023	69	60	54	42	50	53	40	50	23	0.75	0.39	41	20.7	8.5	112	36.6	95	-59	18.1	-2.1	-3.9	33.3	22	34	0.51	0.96	-0.34	
25 003												75	56	42	60	54	52	52	47	32	48	50	44	55	49	48	24	22	21	
PAL 250004		KJA 010103	115	88	100	108	99	111	76	106	81	108	118	91	88	100	94	88	74	73	90	102	98	93	81	84	88	98	90	
99684375	6	PAL 220005	70	61	56	47	52	56	44	54	28	0.20	-0.18	24	12.8	7.9	92	25.2	34	-41	11.0	-7.2	-2.6	33.1	10	15	-0.37	-0.19	-0.77	
25 004												75	58	47	61	56	55	52	52	33	54	53	46	57	54	53	29	27	26	
PAL 250006		BH 190058	104	105	101	100	91	102	102	102	105	102	106	99	105	101	105	104	102	101	106	91	96	92	99	103	104	112	102	
99684391	2	PAL 220010	65	58	43	26	34	44	20	39	20	0.65	0.31	33	20.2	8.2	116	35.9	141	-76	18.7	0.3	-2.2	32.8	22	33	0.83	1.12	-0.20	
25 006												75	43	26	58	43	42	41	26	11	28	35	21	46	29	28	21	19	19	
PAL 250008		PAL 220075	118	97	114	96	99	118			103	121	93	103	97	114	108	99	101	102	104	89	105	114	102	103	105	103	103	
99848236	1	PAL 220098	65	52	40	24	31	42			18	-0.82	0.86	36	16.8	11.9	123	32.3	138	-78	18.1	2.3	-3.7	42.3	23	34	0.89	0.22	-0.14	
25 008												75	42	24	52	40	39	32	25	10	26	33	20	41	26	26	18	17	16	
PAL 250009		SLM 140006	116	103	111	104	117	129	106	129	111	125	82	94	103	111	115	107	107	103	115	114	114	103	107	112	112	106	110	
99848244		PAL 220097	69	61	54	46	46	54	30	49	45	-1.06	1.29	28	19.3	11.2	138	37.7	159	-79	23.4	-15.4	-5.0	37.5	27	42	1.41	0.55	0.19	
25 009												76	55	46	61	54	54	50	48	12	50	53	32	52	50	49	46	44	44	
PAL 250011		KJA 010103	98	108	102	94	108	106	94	104	97	99	97	105	108	102	106	111	90	87	101	98	115	101	97	100	100	98	95	
99848251	1	PAL 220106	70	61	55	43	51	54	40	51	23	0.82	0.68	39	21.5	8.6	118	40.2	97	-59	16.6	-4.2	-5.2	36.5	20	31	0.52	-0.22	-0.53	
25 011												76	57	43	61	55	53	52	47	32	48	55	44	55	49	48	24	22	21	
PAL 250012		BH 190058	110	111	103	97	100	113	106	113	113	109	104	102	111	103	110	108	107	104	114	99	103	92	106	110	112	117	105	
99684417	1	PAL 220002	65	58	43	27	36	45	22	40	22	0.08	0.42	36	22.6	8.9	128	38.4	158	-81	23.1	-5.2	-3.4	32.7	26	41	1.39	1.59	-0.05	
25 012												75	43	27	58	43	43	42	29	14	30	40	22	47	31	30	23	22	22	

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Animal			Selection Values									Birth		Wean				Growth			Fertility				Frame		Carcass		
Index EBV Acc	% Inbreeding	Sire ID Dam ID	Calv. Ease V	Calf Growth V	Milk V	Maint. V	Fertility V	Cow Value	Growth Value	Prod. Value	Carcass Value	Birth wt dir	Birth mat	Mature wt	Wean wt	Wean mat	Cow-Calf Ratio (Wean)	Postwean wt	ADG	FCR	Scrotal Circ.	Heifer Fertility	Cow Fertility	Longevity	Height	Length	EMA	Fat	Marbling
ID Number Name																													
PAL 250013 99684425 25 013	1	BH 190058 PAL 220036	96 66	118 59	107 44	89 25	110 36	109 45			119 20	97 0.98 76	99 0.62 45	111 45 25	118 25.5 59	107 9.9 44	114 137 43	116 43.1 42	116 192 27	112 -91 10	118 24.9 28	106 -9.8 40	112 -4.8 21	95 33.9 47	114 31 29	118 48 28	117 1.81 21	114 1.38 19	107 0.07 19
PAL 250014 99684433 25 014	1	KJA 010103 PAL 220083	115 71	96 62	100 58	102 47	102 52	117 56	82 44	113 54	88 30	111 -0.03 76	111 0.11 59	97 30 47	96 16.3 62	100 8.1 58	99 102 56	93 28.2 54	79 54 52	79 -48 36	96 13.9 53	104 -8.1 53	103 -3.4 46	92 32.7 57	91 17 53	93 24 53	95 0.10 31	99 -0.14 29	94 -0.56 29
PAL 250016 99684441 25 016	6	KJA 010103 PAL 220012	129 70	84 61	108 56	101 46	98 53	120 55	85 42	116 52	88 26	126 -1.16 76	109 0.21 58	97 31 46	84 11.3 61	108 10.2 56	96 95 54	85 23.5 52	82 67 51	82 -52 32	94 13.1 53	101 -6.4 56	98 -2.6 46	94 33.7 56	86 14 53	91 22 52	94 0.04 27	101 0.02 25	96 -0.49 24
PAL 250020 99847642 25 020	1	PAL 220075 PAL 220086	123 65	101 52	109 40	94 24	93 31	119 42			109 18	121 -0.82 75	104 0.40 42	105 39 24	101 18.2 52	109 10.5 40	106 117 39	99 32.1 32	105 150 25	106 -82 10	108 20.2 27	87 3.4 32	99 -2.7 20	108 39.6 41	108 27 27	110 41 26	111 1.30 19	109 0.85 17	108 0.08 17
PAL 250026 99675084 25 026	1	BH 190058 PAL 220011	119 65	105 58	103 43	97 27	90 36	114 45	104 22	114 40	112 22	115 -0.37 75	109 0.20 44	102 36 27	105 20.0 58	103 8.9 43	105 117 43	102 34.4 42	105 153 28	104 -80 13	111 21.7 30	86 3.9 40	99 -2.7 22	96 34.3 47	106 26 31	109 40 30	110 1.29 23	116 1.58 22	104 -0.08 21
PAL 250027 99847659 25 027	7	BH 190058 PAL 220116	102 65	119 59	103 41	90 18	99 32	106 42			120 14	106 0.30 75	92 0.90 42	110 44 18	119 26.0 59	103 8.9 41	113 133 39	118 44.8 42	115 190 18	110 -88 11	117 24.6 19	90 1.4 33	110 -4.4 18	98 35.1 44	112 30 20	117 47 18	114 1.54 15	116 1.57 14	105 -0.06 14
PAL 250031 99675977 25 031		81E PAL 210022	118 65	81 56	115 38	108 26	102 35	113 43	89 20	111 38	89 25	119 -0.66 75	99 0.60 43	90 23 26	81 10.1 56	115 12.2 38	103 111 40	81 20.8 28	92 104 30	94 -67 8	95 13.4 33	107 -10.4 40	98 -2.7 21	97 34.7 45	94 19 34	94 24 33	91 -0.14 26	93 -0.71 24	92 -0.66 24
PAL 250035 99676017 25 035		81E PAL 160093	107 69	92 58	117 46	97 19	113 37	118 44			98 22	115 -0.34 78	83 1.25 48	101 35 19	92 14.8 58	117 13.0 46	108 123 41	92 28.0 28	101 138 25	103 -79 11	100 15.9 28	116 -16.9 41	107 -3.9 22	99 35.7 48	104 25 27	104 35 26	99 0.43 23	98 -0.23 21	99 -0.32 21
PAL 250040 99676025 25 040		81E PAL 140055	129 85	75 83	107 81	112 79	119 66	123 77	83 78	120 77	86 78	129 -1.37 87	103 0.43 81	87 20 79	75 7.6 83	107 10.1 81	93 88 81	82 21.5 52	93 107 79	91 -63 78	84 7.9 79	117 -17.7 39	113 -4.9 78	103 37.8 81	92 18 79	93 24 79	79 -1.08 79	110 0.92 78	107 0.04 78
PAL 250041 99675274 25 041	1	KJA 010103 PAL 200103	93 72	95 62	96 60	101 42	107 53	99 56	78 41	95 53	82 23	93 1.30 77	102 0.50 61	98 32 42	95 15.7 62	96 6.8 60	93 90 55	96 30.3 50	76 43 48	76 -45 33	87 9.4 49	105 -8.9 53	109 -4.3 47	95 33.8 58	84 13 49	87 18 49	86 -0.54 24	104 0.35 22	96 -0.49 21
PAL 250044 99676058 25 044		81E PAL 180013	83 68	103 56	121 43	96 19	98 33	94 43			103 22	90 1.52 78	85 1.19 45	101 35 19	103 19.1 56	121 14.0 43	119 147 39	103 34.7 26	102 142 23	101 -76 8	101 16.4 26	96 -2.5 36	103 -3.4 19	95 33.9 44	108 27 26	109 40 25	101 0.62 22	106 0.53 21	99 -0.36 20
PAL 250046 6020117906 25 046	1	WDW 190009 PAL 180022	77 69	112 60	101 52	94 19	110 35	91 45	101 28	91 42	104 41	75 2.59 77	99 0.62 51	106 40 19	112 23.0 60	101 8.1 52	107 121 44	112 40.6 40	100 133 42	98 -72 13	94 13.2 45	106 -9.7 39	107 -3.9 20	113 41.9 46	94 19 45	101 32 44	102 0.65 42	92 -0.81 40	95 -0.53 37

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Animal			Selection Values								Birth		Wean				Growth			Fertility				Frame		Carcass			
Index EBV Acc	% Inbreeding	Sire ID Dam ID	Calv. Ease V	Calf Growth V	Milk V	Maint. V	Fertility V	Cow Value	Growth Value	Prod. Value	Carcass Value	Birth wt dir	Birth mat	Mature wt	Wean wt	Wean mat	Cow-Calf Ratio (Wean)	Postwean wt	ADG	FCR	Scrotal Circ.	Heifer Fertility	Cow Fertility	Longevity	Height	Length	EMA	Fat	Marbling
ID Number Name																													
PAL 250047 99676066 25 047		81E PAL 180069	117 67	87 58	107 44	107 26	98 36	115 45	93 22	113 40	92 26	117 -0.47 76	103 0.46 46	92 25 26	87 12.6 58	107 10.0 44	100 105 43	86 24.3 32	94 109 27	93 -66 13	92 11.7 30	109 -11.7 40	88 -1.1 23	102 37.2 46	95 19 30	94 25 29	88 -0.37 27	102 0.12 25	87 -0.93 25
PAL 250048 99676082 25 048	1	81E PAL 140063	90 69	101 58	88 46	111 18	82 36	82 44			88 21	87 1.72 78	106 0.31 48	89 22 18	101 18.2 58	88 4.4 46	95 93 41	98 31.8 27	91 100 24	95 -69 9	88 9.8 27	84 5.4 38	87 -1.0 22	95 33.9 47	94 19 26	90 21 25	85 -0.59 22	104 0.30 20	97 -0.42 20
PAL 250050 6020117922 25 050	1	WDW 190009 PAL 210069	87 67	114 60	97 47	89 23	107 36	92 45	108 32	94 42	110 44	88 1.65 76	98 0.65 48	112 46 23	114 23.9 60	97 7.0 47	103 111 43	110 39.3 42	105 151 46	97 -71 16	103 17.4 49	111 -12.9 40	97 -2.5 21	113 41.9 46	100 22 49	109 40 48	104 0.79 45	93 -0.76 43	93 -0.61 40
PAL 250053 99676108 25 053		81E PAL 180014	110 68	85 57	112 44	105 25	88 34	101 45	89 21	99 40	90 26	112 -0.13 78	95 0.76 46	93 26 25	85 11.5 57	112 11.6 44	102 109 42	83 22.1 32	91 98 27	91 -63 13	95 13.4 30	97 -3.4 35	83 -0.3 20	98 35.5 46	92 17 30	94 25 29	83 -0.74 27	112 1.12 25	88 -0.85 25
PAL 250058 99676132 25 058		81E PAL 180106	100 67	93 57	106 44	102 19	88 32	102 43			94 22	103 0.53 76	94 0.80 46	97 31 19	93 15.2 57	106 9.6 44	101 107 40	93 28.3 28	95 113 24	96 -70 10	95 13.5 27	94 -1.7 33	88 -1.1 18	93 33.3 46	100 23 27	100 30 26	94 0.04 23	104 0.35 21	100 -0.28 21
PAL 250065 99675381 25 065	1	BH 190058 PAL 130044	107 70	106 60	104 52	96 28	91 41	106 49	95 26	105 44	104 19	106 0.34 79	104 0.39 51	103 37 28	106 20.7 60	104 9.1 52	107 120 47	103 34.6 46	96 118 30	94 -68 20	110 20.7 31	92 -0.2 42	95 -2.1 29	95 33.8 51	99 22 31	107 38 30	102 0.67 20	117 1.66 18	103 -0.13 18
PAL 250066 99675399 25 066	4	PAL 220075 PAL 180030	130 67	89 53	104 49	100 31	94 39	120 46	89 24	117 42	91 23	125 -1.07 76	114 0.02 49	98 32 31	89 13.2 53	104 9.1 49	96 95 44	88 25.5 36	87 86 31	92 -64 16	95 13.3 32	94 -1.6 42	95 -2.2 28	103 37.7 46	92 17 33	92 22 32	95 0.12 24	101 0.10 22	98 -0.40 22
PAL 250067 99675407 25 067	1	BH 190058 PAL 210043	89 67	118 59	102 44	95 25	92 35	92 45			112 20	92 1.38 76	95 0.76 46	104 38 25	118 25.4 59	102 8.5 44	113 134 43	115 42.9 42	109 166 26	106 -83 10	111 21.5 28	89 1.9 35	98 -2.6 21	96 34.4 48	107 27 29	110 41 28	110 1.28 21	115 1.43 19	106 -0.02 19
PAL 250073 99675464 25 073	1	BH 190058 PAL 210027	89 66	117 58	98 40	89 20	94 35	91 43			120 14	93 1.29 76	92 0.90 43	111 45 20	117 25.0 58	98 7.3 40	106 118 39	114 41.8 40	116 193 18	114 -93 11	118 25.0 19	93 -0.5 38	101 -3.1 20	88 30.9 46	116 33 20	118 49 19	117 1.75 15	116 1.49 14	111 0.24 14
PAL 250077 99675506 25 077	1	BH 190058 PAL 200092	91 67	116 59	88 46	89 18	86 34	81 44			112 16	94 1.20 76	94 0.82 47	113 47 18	116 24.6 59	88 4.4 46	97 97 41	110 39.4 40	107 161 19	101 -77 12	114 23.1 20	83 6.3 34	95 -2.2 20	94 33.4 48	111 29 21	113 44 20	103 0.73 16	121 2.07 15	97 -0.43 15
PAL 250079 99675522 25 079	1	BH 190058 PAL 200040	77 66	125 59	100 46	87 23	97 37	84 45	115 22	87 40	118 22	80 2.28 76	95 0.78 45	113 47 23	125 28.5 59	100 8.1 46	113 135 43	125 48.9 42	113 183 27	106 -82 15	120 25.8 29	92 0.2 39	103 -3.3 24	102 37.3 47	116 32 29	119 50 28	109 1.21 23	117 1.64 22	109 0.17 21
PAL 250085 99674764 25 085	2	PAL 220075 PAL 170060	126 69	90 53	111 49	96 31	86 37	115 46	98 30	114 43	100 26	126 -1.18 78	101 0.51 50	102 36 31	90 13.6 53	111 11.1 49	100 105 44	89 25.9 34	99 128 33	104 -80 24	100 15.7 35	85 5.0 37	89 -1.2 27	106 39.1 46	104 25 35	102 33 34	110 1.29 27	95 -0.53 26	105 -0.02 25

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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																													
PAL 250091 99674822 25 091	2	BH 190058 PAL 190041	106 68	106 60	96 47	93 20	97 33	103 45			111 16	109 0.08 77	94 0.82 47	107 41 20	106 20.6 60	96 6.8 47	99 102 42	105 36.0 40	109 168 18	106 -83 14	116 24.1 20	93 -0.7 32	103 -3.3 18	96 34.4 48	111 29 21	111 42 20	108 1.08 17	116 1.58 16	101 -0.26 15
PAL 250092 99674830 25 092	1	BH 190058 PAL 200015	72 66	125 59	103 45	84 21	94 33	82 44	118 20	85 39	121 22	77 2.43 76	86 1.13 45	117 51 21	125 28.5 59	103 8.8 45	114 135 42	125 49.1 42	117 198 25	110 -87 13	121 26.4 27	90 1.1 33	101 -3.0 19	97 34.9 46	120 35 27	123 53 26	114 1.54 23	116 1.49 21	111 0.22 21
PAL 250095 99674863 25 095	1	BH 190058 PAL 210039	116 67	108 59	109 44	94 26	98 35	118 45			116 20	115 -0.36 76	103 0.43 46	105 39 26	108 21.3 59	109 10.5 44	111 130 43	104 35.5 42	115 189 26	112 -90 10	115 23.7 28	95 -2.3 35	104 -3.5 21	96 34.2 48	115 32 29	115 46 28	116 1.68 21	108 0.75 19	112 0.28 19
PAL 250096 99674889 25 096	5	BH 190058 PAL 210006	117 66	111 59	103 43	93 26	94 35	114 45	113 20	116 40	117 21	115 -0.33 76	107 0.29 45	106 40 26	111 22.5 59	103 8.8 43	108 122 43	109 38.7 42	113 183 27	110 -88 11	115 23.6 29	91 0.6 36	101 -3.0 21	93 33.3 48	110 29 30	114 44 29	115 1.60 22	116 1.51 20	104 -0.07 20
PAL 250097 99674897 25 097	1	BH 190058 PAL 190007	112 68	109 60	100 48	96 27	109 37	117 47	102 24	117 42	110 25	112 -0.12 77	102 0.47 48	103 37 27	109 21.7 60	100 8.0 48	106 117 45	102 34.5 44	102 141 28	100 -75 20	111 21.4 29	104 -8.1 40	115 -5.1 24	92 32.8 48	106 26 29	109 40 29	107 1.03 26	117 1.66 24	105 -0.04 24
PAL 250098 99674905 25 098		BH 190058 PAL 200094	104 66	106 59	107 44	91 18	100 32	110 43			115 14	110 0.03 76	88 1.07 45	108 42 18	106 20.6 59	107 10.0 44	107 120 40	105 36.3 40	111 175 17	112 -90 10	112 22.1 18	98 -4.0 32	105 -3.6 17	91 32.0 46	111 29 19	113 44 18	108 1.08 15	124 2.29 14	113 0.33 13
PAL 250107 99675027 25 107	1	PAL 220075 PAL 140072	112 70	102 55	108 52	102 33	99 40	117 48	93 28	115 44	100 27	117 -0.47 78	91 0.92 52	96 30 33	102 18.9 55	108 10.3 52	111 128 47	103 34.6 38	95 113 35	97 -71 19	111 21.6 37	101 -6.6 42	96 -2.3 31	101 36.5 48	99 22 36	102 33 35	104 0.78 28	107 0.65 26	111 0.25 26
PAL 250119 99675183 25 119	1	BH 190058 PAL 190068	92 68	112 60	107 47	95 21	88 35	95 45			111 16	100 0.80 77	84 1.23 47	104 38 21	112 23.0 60	107 10.0 47	113 134 43	112 40.7 42	107 161 18	106 -82 12	107 19.7 20	90 1.4 37	91 -1.6 21	94 33.6 48	108 28 20	112 42 19	107 1.04 16	115 1.48 15	111 0.22 15
PAL 250128 99675290 25 128	2	PAL 220075 PAL 180002	111 68	99 53	112 48	93 30	90 35	109 46	103 22	110 41	104 22	114 -0.26 77	96 0.75 49	106 40 30	99 17.5 53	112 11.5 48	107 120 44	99 32.3 35	102 140 29	103 -79 14	103 17.5 31	88 2.7 36	92 -1.7 24	108 39.8 46	104 25 31	105 36 30	109 1.22 23	95 -0.50 22	100 -0.27 22

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	Calf Growth Value	Milk Value	Maint. Value	Fertility Value	Cow Value	Growth Value	Prod Value									
Sorted on ID										Acc	Acc	Acc	Acc	Acc	Acc	Acc	Acc									
										★★★★★																
1	PAL 230006	23 006	PAL 150037	PAL 200006	1.3					109	67	94	70	122	47	86	23	119	38	122	48	103	21	122	43	
2	PAL 230017	23 017	BH 190058	PAL 200093	0.8					113	86	101	87	108	84	81	82	109	66	122	80	103	82	122	80	
3	PAL 240023	24 023	SLM 140006	PAL 210022	0.4					120	86	93	84	119	83	97	82	101	73	124	80	105	80	124	80	
4	PAL 240025	24 025	SLM 140006	PAL 210052	0.4					119	70	97	61	111	56	100	48	115	47	129	55	106	30	129	50	
5	PAL 240028	24 028	KJA 110057	PAL 210108	1.6					123	69	96	61	109	53	95	40	98	46	124	52	111	28	125	47	
6	PAL 240030	24 030	KJA 110057	PAL 210105	1.3					117	70	94	61	107	53	103	41	98	46	120	53	97	28	119	48	
7	PAL 240074	24 074	SLM 140006	PAL 130044	0.5					115	74	92	62	108	62	107	50	101	51	120	58	88	36	118	54	
										★★★★★																
1	PAL 230010	23 010	KJA 110057	PAL 200007	1.1					118	70	95	71	112	56	96	43	88	46	114	56	108	34	115	52	
2	PAL 230034	23 034	KJA 110057	PAL 160040	0.2					103	73	99	74	105	61	105	42	103	49	112	59	96	29	111	53	
3	PAL 230047	23 047	PAL 150037	PAL 190044	2.1					105	67	93	71	108	49	103	29	111	40	118	51	87	26	115	46	
4	PAL 230062	23 062	PAL 150037	PAL 160093	1.2					91	69	101	74	119	53	90	21	131	40	111	50					
5	PAL 230078	23 078	KJA 110057	PAL 130075	3.4					127	74	80	74	117	62	105	41	92	46	111	58	93	30	109	52	
6	PAL 240004	24 004	BH 100032	PAL 170065	0.6					108	86	108	85	106	84	112	82	103	73	118	80	112	81	119	80	
7	PAL 240010	24 010	BH 100032	PAL 170065	0.6					103	64	107	62	111	60	92	42	108	50	114	54	110	31	115	49	
8	PAL 240011	24 011	BH 100032	PAL 170065	0.6					103	64	107	62	111	60	92	42	108	50	114	54	110	31	115	49	
9	PAL 240013	24 013	BH 100032	PAL 170065	0.6					103	64	107	62	111	60	92	42	108	50	114	54	110	31	115	49	
10	PAL 240035	24 035	KJA 110057	PAL 210107	1.2					129	70	85	61	110	52	108	41	91	46	118	53	91	29	116	48	
11	PAL 240062	24 062	KJA 110057	PAL 180022	0.3					109	71	89	61	114	58	103	40	102	46	111	54	97	28	110	49	
12	PAL 240069	24 069	KJA 110057	PAL 150059	0.2					113	73	93	63	109	60	110	42	96	47	119	55	94	28	117	50	
13	PAL 240079	24 079	KJA 110057	PAL 200006	1.5					112	71	91	62	116	56	92	42	104	47	116	54	102	32	115	50	
14	PAL 240080	24 080	SLM 140006	PAL 180065	0.1					106	72	96	62	106	59	102	49	113	49	118	57	96	34	117	52	
15	PAL 240081	24 081	SLM 140006	PAL 180030	0.3					113	86	97	84	107	83	99	81	99	72	117	79	95	80	116	79	
16	PAL 240086	24 086	KJA 110057	PAL 180108	0.4					106	72	98	62	107	59	98	40	113	48	117	54	100	29	117	49	
17	PAL 240087	24 087	SLM 140006	PAL 190033	0.1					100	72	101	62	110	59	108	50	116	49	118	57	94	38	116	53	
										★★★★★																
1	PAL 230003	23 003	PAL 150037	PAL 200081	0.5					89	67	94	70	115	47	95	23	112	38	104	48	98	21	104	43	
2	PAL 230015	23 015	KJA 110057	PAL 200056	1.7					112	70	87	71	113	56	100	43	89	46	104	56	95	32	103	51	

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									
										★★★★★																
3	PAL 230018	23 018	BH 190058	PAL 200040	1.5					98	66	116	70	107	47	87	23	98	37	103	48	114	22	105	43	
4	PAL 230032	23 032	PAL 150037	PAL 170117	1.2					91	69	117	73	104	51	85	21	121	39	107	50					
5	PAL 230041	23 041	KJA 110057	PAL 170089	1.2					103	72	91	74	109	60	105	41	93	46	105	58	96	28	104	52	
6	PAL 230067	23 067	KJA 110057	PAL 160070	3.3					108	73	98	75	101	61	107	43	93	49	108	59	92	30	106	53	
7	PAL 230069	23 069	PAL 180101	PAL 180069	3.3					104	68	133	70	97	50	77	25	106	39	105	50	130	20	110	44	
8	PAL 230105	23 105	BH 190058	PAL 170060	0.9					103	69	114	72	103	50	89	27	89	37	101	50	115	26	104	45	
9	PAL 230109	23 109	BH 190058	PAL 180088	7.7					103	68	121	70	97	49	88	25	97	38	100	49	117	20	103	43	
10	PAL 230114	23 114	BH 190023	PAL 140082	0.9					90	70	118	72	112	53	86	18	109	34	102	49					
11	PAL 240002	24 002	P43145081	PAL 110021	0.0					100	85	127	85	114	84	94	81	104	72	106	80	121	80	109	80	
12	PAL 240006	24 006	P43145081	PAL 110021	0.0					99	64	106	63	103	63	96	35	104	49	105	53	107	26	106	48	
13	PAL 240015	24 015	P43145081	PAL 160093	0.0					84	73	111	63	108	61	89	29	123	46	105	52	110	20	106	46	
14	PAL 240022	24 022	KJA 110057	PAL 210101	2.2					101	70	102	61	104	52	102	41	93	44	103	52	100	28	103	47	
15	PAL 240024	24 024	SLM 140006	PAL 210064	0.4					94	87	100	85	125	84	108	83	108	72	109	80	95	82	107	80	
16	PAL 240037	24 037	BH 190058	PAL 210013	1.2					99	66	112	58	106	43	93	25	92	35	102	45	110	20	103	40	
17	PAL 240047	24 047	PAL 180101	PAL 170057	1.9					95	69	124	57	105	50	82	20	100	35	101	45					
18	PAL 240071	24 071	KJA 110057	PAL 180014	1.1					118	72	86	62	113	59	104	44	89	46	109	55	95	31	108	50	
19	PAL 240088	24 088	KJA 110057	PAL 190094	0.2					110	71	89	62	90	57	107	42	100	47	102	54	89	30	100	49	
20	PAL 240102	24 102	PAL 210049	PAL 190083	0.8					100	67	89	53	103	44	108	23	96	36	101	43					
21	PAL 240106	24 106	PAL 210049	PAL 180021	4.1					114	67	96	53	96	48	104	24	93	34	108	44					
22	PAL 240123	24 123	BH 190058	PAL 140119	1.1					101	70	114	61	98	52	92	20	104	37	103	46					
23	PAL 240129	24 129	PAL 210049	PAL 180002	2.1					101	68	97	53	108	47	101	29	91	35	104	45	100	21	104	40	
24	PAL 240135	24 135	BH 190058	PAL 170117	0.5					102	68	121	60	99	50	83	18	108	38	108	45					
25	WDW 230029	MAN HUNT	WDW 200023	WDW 200100	0.5					104	66	113	58	101	42	91	28	110	34	108	45	108	25	109	41	
										★★★★★																
1	BH 190058	SUPER BM 958	BH 130027	BH 120049	2.9					97	86	128	92	100	64	87	30	93	50	98	63	119	24	101	55	
2	PAL 230014	23 014	PAL 150037	PAL 200076	0.4					90	66	102	70	125	47	85	24	93	38	97	48	112	22	99	43	
3	PAL 230051	23 051	PAL 180101	PAL 190038	2.0					97	67	129	70	97	47	92	19	93	35	94	47					
4	PAL 230104	23 104	BH 190058	PAL 170082	0.9					90	69	119	73	101	51	91	23	102	38	96	50					

Selection List on Cow Value
Bulls 2 years and older

ID		Name	Sire ID	Dam ID	Polled HH: Horned, PcPc: Polled, PcH: Polled horn carrier	Myostatin nt821 Q204X F94L Genomic tested	Calving Ease Value	Calf Growth Value	Milk Value	Maint. Value	Fertility Value	Cow Value	Growth Value	Prod Value	
Sorted on ID					% Inbreeding		Acc	Acc	Acc	Acc	Acc	Acc	Acc	Acc	
							★★★★								
1	KC 160032	DEUCE 632	KC 140021	KC 060031	0.6		93 89	94 94	84 70	98 36	95 60	87 68	108 23	89 59	
2	PAL 230023	23 023	BH 190058	PAL 200027	0.7		89 66	114 70	90 45	95 22	85 36	82 47			
3	PAL 230026	23 026	BH 190058	PAL 200015	1.3		72 66	125 70	103 46	82 21	95 33	82 47	121 20	86 42	
4	PAL 230030	23 030		PAL 150059	0.0		85 62	98 39	89 39	114 15	82 27	83 35			
5	PAL 230039	23 039	PAL 180101	PAL 190094	1.4		84 67	121 70	81 48	86 19	107 38	81 48			
6	PAL 230077	23 077	PAL 180101	PAL 180107	14.1		79 68	147 70	98 50	70 17	92 39	81 48			
7	PAL 240005	24 005	BH 100032	PAL 170065	0.6		86 85	131 85	92 84	71 82	99 73	87 80	124 82	92 80	
8	PAL 240038	24 038	BH 190058	PAL 210043	1.1		86 67	119 59	101 44	95 25	92 35	88 45			
9	PAL 240060	24 060	PAL 200039	PAL 140063	2.0		87 68	104 54	88 49	106 20	86 36	80 44			
10	PAL 240092	24 092	PAL 210049	PAL 200092	1.6		90 66	99 53	87 45	104 23	84 34	80 43			
11	PAL 240105	24 105	BH 190058	PAL 160092	0.7		91 70	115 60	95 51	94 17	91 34	88 45			
							★★★								
1	PAL 240021	24 021	SLM 140006	PAL 210039	0.3		83 87	114 85	73 84	106 82	80 72	65 80	117 82	69 80	

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																											
										★★★★★★																	
1	PAL 210052	21 052	KJA 110057	PAL 160093	0.4					120	77	97	74	113	61	93	40	118	54	130	60	108	29	130	54		
2	PAL 220002	22 002	KJA 110057	PAL 190054	1.5					126	72	93	72	107	58	109	46	107	53	133	59	93	36	130	54		
										★★★★★★☆																	
1	PAL 180069	18 069	BH 100032	PAL 140119	1.0					123	82	92	78	101	76	99	40	112	55	124	64	101	30	123	57		
2	PAL 190007	19 007	WDW 080082	PAL 160065	0.1					116	79	95	77	96	72	106	44	125	55	125	63	85	42	121	59		
3	PAL 210006	21 006	KJA 110057	PAL 180006	0.9					132	76	96	74	104	58	100	44	95	48	127	59	106	31	127	53		
4	PAL 210022	21 022	KJA 110057	PAL 180108	0.4					125	76	80	72	116	60	101	40	120	53	122	59	93	29	120	53		
5	PAL 210039	21 039	KJA 110057	PAL 150034	0.6					120	88	94	86	112	83	102	80	104	71	125	80	109	80	126	80		
6	PAL 220003	22 003	KJA 110057	PAL 190038	1.3					131	73	88	72	108	57	119	41	87	46	124	57	100	30	123	52		
7	PAL 220054	22 054	KJA 110057	PAL 130075	3.4					136	76	83	74	112	62	102	41	93	47	120	59	97	30	119	53		
8	PAL 220059	22 059	KJA 110057	PAL 140119	4.0					121	76	98	74	108	62	101	41	102	52	123	59	100	30	122	53		
9	PAL 220097	22 097	BH 190023	PAL 140072	0.5					114	73	110	73	113	53	100	30	121	46	126	54	107	25	126	48		
10	PAL 230007	23 007	PAL 150037	PAL 200094	0.4					117	85	90	86	120	82	97	80	127	65	126	78	102	80	126	78		
11	PAL 230037	23 037	PAL 150037	PAL 190007	2.3					115	67	88	71	112	49	105	28	122	39	126	50	87	26	123	45		
12	PAL 230070	23 070	KJA 110057	PAL 160065	3.2					130	73	86	75	109	61	104	41	104	48	125	58	94	30	124	52		
13	PAL 240007	PAL24-007	BH 100032	PAL 170065	0.6					120	87	79	86	122	85	113	84	128	74	123	81	83	82	119	81		
14	PAL 240016	24 016	KJA 110057	PAL 210085	1.4					135	70	85	61	105	53	105	41	100	45	125	53	96	29	124	48		
15	PAL 240019	24 019	KJA 110057	PAL 210100	1.8					127	70	91	61	109	52	99	41	92	44	121	52	104	28	121	47		
										★★★★★★																	
1	PAL 140055	14 055	PAL 120038	PAL 080053	3.8	HH	0	0	0	6.4	111	84	97	80	96	82	95	32	133	55	118	64	95	28	116	57	
2	PAL 140072	14 072	KRM 010048	PAL 040113	0.0	HH	0	0	0	6.4	101	89	110	88	107	89	106	80	110	76	117	82	92	80	115	82	
3	PAL 140119	14 119	PAL 120038	PAL 090105	2.0	PcH	0	0	0	6.4	116	85	94	80	100	83	97	26	115	54	119	62	93	24	118	54	
4	PAL 160065	16 065	PAL 110085	PAL 110032	1.5					114	83	92	80	98	80	96	26	120	55	118	62	93	26	116	55		
5	PAL 160093	16 093	GG 110035	PAL 080013	0.2					91	84	108	80	118	81	81	21	142	57	112	61	110	23	113	53		
6	PAL 170021	17 021	GG 110035	PAL 140074	0.5					114	82	100	78	112	78	81	19	89	45	112	58	117	20	115	50		
7	PAL 180030	18 030	BH 100032	PAL 070046	1.2					129	82	86	78	97	76	103	44	101	58	117	65	83	34	113	59		
8	PAL 180065	18 065	BH 100032	PAL 130057	0.8					113	82	85	77	109	73	96	45	112	58	115	65	88	36	113	59		
9	PAL 180108	18 108	GG 110035	PAL 080013	0.2					100	82	102	77	104	76	84	21	138	55	116	59	104	23	117	52		

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									
												★★★★★																
10	PAL 190033	19 033	WDW 080082	PAL 120034	0.2							98	80	98	77	115	73	107	47	119	57	117	65	83	46	114	61	
11	PAL 200006	20 006	KRM 150061	PAL 170016	1.4							93	90	99	89	116	87	75	84	120	76	110	83	108	84	111	83	
12	PAL 200094	20 094	KC 160032	PAL 150015	0.5							110	77	85	75	113	62	96	20	106	39	110	53					
13	PAL 210009	21 009	KJA 110057	PAL 180043	2.6							127	75	84	72	102	59	111	44	94	48	115	59	89	31	113	53	
14	PAL 210015	21 015	KRM 150061	PAL 180030	1.5							105	75	94	72	106	56	92	36	100	51	110	57	98	34	109	52	
15	PAL 210072	21 072	KJA 110057	PAL 170057	1.5							113	77	89	74	107	60	104	42	96	47	111	59	100	28	111	53	
16	PAL 210085	21 085	PAL 180026	PAL 110102	2.2							122	75	94	72	90	53	100	26	112	43	117	53	94	23	116	47	
17	PAL 210100	21 100	PAL 180026	PAL 170021	1.4							120	75	99	72	102	51	87	25	97	39	116	52	111	20	117	46	
18	PAL 220009	22 009	KJA 110057	PAL 190107	0.3							114	73	82	71	108	56	108	42	103	51	110	57	92	30	108	52	
19	PAL 220011	22 011	KJA 110057	PAL 190044	1.5							128	74	87	72	102	59	108	46	87	52	114	59	90	36	112	54	
20	PAL 220012	22 012	KJA 110057	PAL 190083	0.6							127	73	84	71	110	56	103	40	95	51	115	57	100	28	115	51	
21	PAL 220036	22 036	KJA 110057	PAL 160093	0.4							102	76	105	74	115	61	92	40	126	52	119	59	110	29	120	53	
22	PAL 220044	22 044	KJA 110057	PAL 180070	3.8							134	74	79	72	99	59	113	45	99	52	117	59	87	32	115	54	
23	PAL 220050	22 050	GG 110035	PAL 130057	0.4							106	76	96	74	102	63	90	28	114	53	115	57	98	28	114	51	
24	PAL 220072	22 072	PAL 150037	PAL 180108	1.2							94	71	107	71	113	51	87	21	136	44	114	50					
25	PAL 220094	22 094	BH 190023	PAL 130044	0.6							110	73	119	73	107	53	91	29	101	46	113	54	111	24	114	48	
26	PAL 220098	22 098	BH 190023	PAL 150015	1.0							108	72	102	73	117	53	93	19	111	36	116	50					
27	PAL 230009	23 009	PAL 150037	PAL 200008	1.2							105	67	93	69	114	46	94	24	110	38	116	48	101	22	115	43	
28	PAL 230011	23 011	KJA 110057	PAL 200057	1.5							114	70	90	71	103	57	112	46	98	49	114	58	86	36	111	54	
29	PAL 230054	23 054	KJA 110057	PAL 190029	0.5							118	71	101	72	108	59	94	40	94	46	118	57	110	28	119	51	
30	PAL 230063	23 063	PAL 150037	PAL 180108	1.2							94	68	102	71	111	51	89	21	128	39	112	49					
31	PAL 230065	23 065	KJA 110057	PAL 180022	0.3							114	71	93	72	114	59	99	40	102	46	118	57	103	28	118	51	
32	PAL 230066	23 066	KJA 110057	PAL 140087	3.6							127	73	85	75	116	62	102	41	90	46	115	58	98	30	114	52	
33	PAL 230076	23 076	KJA 110057	PAL 180021	0.5							126	72	101	72	100	60	99	40	93	46	118	57	105	28	118	51	
34	PAL 230116	23 116	BH 190023	PAL 130080	2.1							107	70	108	71	116	53	91	26	94	39	110	51					
35	PAL 240001	24 001	BH 100032	PAL 170065	0.6							103	64	107	62	111	60	92	42	108	50	114	54	110	31	115	49	
36	PAL 240008	24 008	BH 100032	PAL 170065	0.6							103	64	107	62	111	60	92	42	108	50	114	54	110	31	115	49	
37	PAL 240009	24 009	BH 100032	PAL 170065	0.6							103	64	107	62	111	60	92	42	108	50	114	54	110	31	115	49	
38	PAL 240014	24 014	BH 100032	PAL 170065	0.6							103	64	107	62	111	60	92	42	108	50	114	54	110	31	115	49	
39	PAL 240017	24 017	KJA 110057	PAL 210123	2.2							123	70	90	61	100	53	107	41	92	44	114	53	94	28	113	48	
40	PAL 240027	24 027	SLM 140006	PAL 210066	0.1							110	70	93	61	110	55	100	47	110	47	119	55	101	34	118	51	
41	PAL 240044	24 044	BH 190058	PAL 210019	1.1							114	66	99	58	110	42	89	21	96	35	115	43	110	20	116	38	

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																											
										★★★★★																	
42	PAL 240051	24 051	KJA 110057	PAL 150010	0.4					118	73	96	63	97	61	103	41	96	46	114	55	100	30	113	50		
43	PAL 240057	24 057	KJA 110057	PAL 200007	1.1					116	71	92	62	112	56	97	43	88	45	111	54	105	34	111	50		
44	PAL 240058	24 058	KJA 110057	PAL 140072	0.1					111	74	99	64	110	62	109	46	99	50	119	57	95	36	117	53		
45	PAL 240061	24 061	KJA 110057	PAL 180106	1.9					117	71	91	62	109	59	100	40	90	46	113	54	98	28	113	49		
46	PAL 240064	24 064	KJA 110057	PAL 180096	0.5					116	72	91	62	100	58	102	41	92	46	110	54	96	30	109	49		
47	PAL 240066	24 066	KJA 110057	PAL 160055	0.6					104	86	95	83	117	83	101	81	99	71	110	79	110	80	111	79		
48	PAL 240097	24 097	PAL 210049	PAL 180053	2.9					117	67	90	54	103	49	108	31	93	38	112	46	95	24	111	42		
49	PAL 240121	24 121	PAL 210049	PAL 190029	0.4					116	67	91	53	106	47	100	23	95	34	114	43						
										★★★★☆																	
1	PAL 130044	13 44	KJA 010103	PAL 060013	0.1	HH	0	0	0	6.5	110	86	88	76	105	82	106	46	89	63	105	67	71	44	100	62	
2	PAL 130075	13 75	PAL 090026	PAL 070017	1.2	HH	0	0	0	6.5	126	86	77	77	119	84	97	25	96	45	106	60	90	24	104	53	
3	PAL 150010	15 10	GG 110035	PAL 120053	2.0					119	84	101	80	83	81	95	22	104	46	108	60	104	26	109	53		
4	PAL 150034	15 34	P43145081	PAL 100022	0.0					105	85	103	80	107	81	97	29	93	46	107	62						
5	PAL 150059	15 59	P43145081	PAL 060118	0.0					88	84	105	79	100	78	108	31	105	52	100	62	90	22	98	54		
6	PAL 160034	16 034	P43145081	PAL 060118	0.0					87	83	108	80	110	80	99	31	109	56	102	63	99	22	102	55		
7	PAL 170005	17 005	GG 110035	PAL 140082	0.4					102	82	92	79	100	78	91	18	97	45	101	58	104	20	102	50		
8	PAL 170057	17 057	P43145081	PAL 100123	0.0					97	82	101	76	110	77	96	30	100	45	105	60	101	21	105	52		
9	PAL 170060	17 060	ZK 060018	PAL 130075	0.1					113	82	92	77	108	77	94	45	84	53	107	65	102	47	107	61		
10	PAL 180014	18 014	BH 100032	PAL 150015	0.6					112	88	84	86	113	86	96	78	91	70	102	80	93	78	100	80		
11	PAL 180022	18 022	PAL 150032	PAL 150016	1.9					90	79	92	74	113	73	96	19	116	45	103	55						
12	PAL 180053	18 053	BH 100032	PAL 110021	1.0					106	82	101	78	98	77	100	44	96	58	101	65	101	35	102	59		
13	PAL 180088	18 088	BH 100032	PAL 110107	1.1					108	82	99	77	96	73	97	40	100	55	104	63	102	31	105	57		
14	PAL 180106	18 106	GG 110035	PAL 140007	0.3					99	80	99	77	101	74	89	21	92	45	100	57	100	21	100	50		
15	PAL 190029	19 029	GG 110035	PAL 150015	25.1					104	80	103	77	103	72	85	19	100	45	107	56	109	20	108	49		
16	PAL 190038	19 038	WDW 150142	PAL 150099	0.2					106	89	98	88	97	87	131	83	86	69	108	82	98	82	108	82		
17	PAL 190044	19 044	WDW 080082	PAL 130031	6.8					109	80	99	76	92	72	104	46	104	57	106	64	84	44	103	60		
18	PAL 200026	20 026	KC 160032	PAL 170093	0.5					92	91	109	91	103	88	87	87	115	78	104	85	120	86	107	85		
19	PAL 200057	20 057	WDW 080082	PAL 130031	6.8					105	79	93	74	93	68	110	46	107	56	108	63	76	44	104	59		
20	PAL 200060	20 060	KRM 150061	PAL 160093	0.9					80	78	109	75	116	64	80	30	118	50	100	57	115	32	102	52		
21	PAL 210013	21 013	KJA 110057	PAL 180121	1.1					115	75	89	72	115	59	99	41	91	47	109	58	101	30	109	52		

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			Calving Ease Value	Calf Growth Value	Milk Value	Maint. Value	Fertility Value	Cow Value	Growth Value	Prod Value										
								nt821	Q204X	F94L	Genomic tested	Acc	Acc	Acc	Acc	Acc	Acc	Acc										
											★★★★☆																	
22	PAL 210038	21 038		KJA 110057	PAL 170076	0.3						102	90	107	89	93	88	105	86	115	77	104	84	82	86	100	84	
23	PAL 210064	21 064		KJA 110057	PAL 150044	0.9						108	77	88	74	117	62	105	40	91	46	104	59	91	28	103	53	
24	PAL 210066	21 066		KRM 150061	PAL 120034	0.8						96	77	91	74	110	59	93	36	106	52	103	58	97	37	103	54	
25	PAL 210105	21 105		PAL 180026	PAL 150016	1.0						105	75	103	72	99	52	95	26	108	47	108	53	97	22	107	47	
26	PAL 210107	21 107		PAL 180026	PAL 160034	1.9						106	85	95	84	99	79	105	76	94	70	105	77	86	76	102	77	
27	PAL 220005	22 005		KJA 110057	PAL 190016	0.4						114	73	83	71	99	57	117	45	95	48	106	58	83	35	103	53	
28	PAL 220010	22 010		KJA 110057	PAL 190112	1.8						121	73	78	72	104	58	115	42	88	46	104	57	84	30	102	52	
29	PAL 220017	22 017		KJA 110057	PAL 190027	1.7						110	72	94	72	93	58	109	42	85	50	101	58	94	30	100	52	
30	PAL 220023	22 023		BH 190058	PAL 190029	0.6						99	71	116	71	106	49	85	17	97	35	104	48					
31	PAL 220046	22 046		KJA 110057	PAL 130024	0.3						116	75	89	74	128	62	96	43	73	52	101	60	105	30	102	54	
32	PAL 220064	22 064		PAL 180101	PAL 180008	1.6						88	72	128	71	103	49	79	17	120	42	100	49					
33	PAL 220083	22 083		WDW 080082	PAL 150034	0.2						105	76	104	75	97	62	104	44	102	48	107	60	94	42	106	56	
34	PAL 220086	22 086		BH 190058	PAL 170057	0.5						103	72	115	73	103	51	89	21	99	34	105	50					
35	PAL 220101	22 101		BH 190023	PAL 160040	0.2						89	72	121	73	106	52	93	23	128	44	105	52					
36	PAL 220116	22 116		BH 190023	PAL 160057	0.5						97	72	115	72	103	52	94	21	106	38	103	50					
37	PAL 230004	23 004		PAL 150037	PAL 200060	0.7						85	67	100	69	119	47	89	23	118	38	104	48	106	21	105	43	
38	PAL 230031	23 031		PAL 150037	PAL 190062	0.2						90	67	97	71	117	50	99	29	102	38	101	50	93	26	100	45	
39	PAL 230046	23 046		KJA 110057	PAL 140056	3.6						114	73	87	75	100	62	110	41	94	46	107	58	87	30	105	52	
40	PAL 230048	23 048		KJA 110057	PAL 190105	0.1						111	70	83	71	108	56	108	41	85	46	101	56	92	28	100	50	
41	PAL 230053	23 053		PAL 150037	PAL 180096	0.8						95	67	100	71	102	50	95	21	108	36	104	48					
42	PAL 230061	23 061		PAL 180101	PAL 170057	1.9						100	69	128	72	105	51	79	20	101	36	105	49					
43	PAL 230072	23 072		PAL 150037	PAL 140063	2.8						104	69	100	73	98	52	102	20	99	39	105	50					
44	PAL 230074	23 074		KJA 110057	PAL 160014	0.3						106	72	101	74	106	61	95	41	90	47	107	58	106	30	108	52	
45	PAL 230085	23 085		KJA 110057	PAL 190082	0.2						111	71	89	71	98	58	107	43	96	46	105	57	93	32	104	52	
46	PAL 230112	23 112		BH 190058	PAL 170005	0.7						102	69	119	72	99	51	84	17	96	34	101	48					
47	PAL 240012	24 012		P43145081	PAL 110021	0.0						99	64	106	63	103	63	96	35	104	49	105	53	107	26	106	48	
48	PAL 240018	24 018		KJA 110057	PAL 210025	0.5						109	69	92	61	104	52	101	40	88	46	106	52	104	28	106	47	
49	PAL 240054	24 054		KJA 110057	PAL 200063	1.9						110	71	89	61	112	54	102	42	86	45	104	53	97	32	104	49	
50	PAL 240059	24 059		KJA 110057	PAL 200056	1.7						116	71	89	62	113	56	98	43	88	45	108	54	99	32	108	50	
51	PAL 240067	24 067		KJA 110057	PAL 200060	0.4						95	71	100	62	113	56	95	42	103	47	104	54	106	32	105	50	
52	PAL 240075	24 075		KJA 110057	PAL 180013	1.7						97	72	102	61	123	58	94	40	100	46	105	54	107	28	106	49	
53	PAL 240090	24 090		BH 190058	PAL 160074	0.9						110	69	106	60	100	50	96	18	93	32	107	45					

Selection List on Cow Value

Cows 2 years and older

ID			Name	Sire ID	Dam ID	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																															
											★★★★★																				
54	PAL 240118	24 118	BH 190058	PAL 170082	0.9											96	69	113	60	104	50	94	23	101	37	103	46				
55	PAL 240125	24 125	BH 190058	PAL 140082	0.7											96	70	106	61	109	53	91	16	94	33	101	45				
56	PAL 240126	24 126	PAL 210049	PAL 180069	2.3											124	86	76	84	100	83	117	81	88	68	102	79	92	80	101	79
57	PAL 240133	24 133	BH 190058	PAL 170060	0.9											102	69	111	60	103	50	91	27	88	37	100	47	111	26	102	43
											★★★★																				
1	PAL 140082	14 082	PAL 110073	PAL 090014	6.9	HH	0	0	0	🔴						98	85	81	80	118	84	96	15	95	42	90	58				
2	PAL 150122	15 122	GG 110026	PAL 090067	1.3											91	83	97	78	112	76	92	26	87	51	94	60	91	22	93	52
3	PAL 160055	16 055	P43145081	PAL 090014	0.0											78	83	105	72	122	78	92	29	107	50	93	59	111	20	95	51
4	PAL 160070	16 070	P43145081	PAL 070109	0.0											100	83	101	80	93	81	105	35	97	57	98	64	85	27	95	57
5	PAL 170071	17 071	GG 110035	PAL 110021	1.0											111	82	106	79	80	79	94	27	103	55	99	61	105	27	100	54
6	PAL 170076	17 076	P43145081	PAL 110102	0.0											89	82	111	72	99	77	96	30	117	50	98	59	98	21	98	51
7	PAL 170093	17 093	GG 110035	PAL 090051	1.3											90	83	122	79	120	79	76	27	101	56	98	62	122	27	102	55
8	PAL 180008	18 008	PAL 150032	PAL 150073	16.0											72	78	118	74	114	71	87	21	128	48	93	56				
9	PAL 180021	18 021	GG 110035	PAL 150034	0.2											110	81	107	77	86	75	92	22	97	46	99	58	107	20	101	50
10	PAL 180086	18 086	BH 100032	PAL 090014	0.9											108	82	98	78	100	76	95	39	82	56	99	64	103	30	100	57
11	PAL 180096	18 096	GG 110035	PAL 130034	0.9											105	81	97	76	86	73	94	24	97	47	96	58	95	22	95	51
12	PAL 190041	19 041	WDW 150142	PAL 140082	0.4											104	89	90	88	88	87	101	82	100	69	93	81	97	82	93	81
13	PAL 190062	19 062	WDW 080082	PAL 120082	6.8											90	80	102	77	113	73	102	46	86	51	94	64	86	44	92	60
14	PAL 190083	19 083	KC 160032	PAL 090064	0.1											95	80	88	75	104	64	99	20	102	50	96	55				
15	PAL 200001	20 001	KRM 150061	PAL 170065	0.2											79	77	117	75	122	63	76	33	114	51	99	58	129	33	104	53
16	PAL 200007	20 007	KRM 150061	PAL 170060	1.0											99	77	100	75	108	64	85	37	88	45	99	58	114	38	102	54
17	PAL 200008	20 008	KRM 150061	PAL 170007	1.5											87	77	108	74	97	62	85	32	101	51	91	57	114	34	94	52
18	PAL 200040	20 040	KRM 150061	PAL 110021	0.7											89	77	108	75	110	67	87	36	101	53	97	60	110	36	99	55
19	PAL 200053	20 053	KRM 150061	PAL 160014	1.4											99	77	104	75	93	65	84	31	92	44	93	57	112	32	95	52
20	PAL 200056	20 056	KRM 150061	PAL 120007	1.5											88	78	100	75	107	65	86	35	88	45	92	58	101	34	92	53
21	PAL 200103	20 103	GG 110035	PAL 090064	0.2											95	79	87	75	98	69	102	18	112	50	97	55	86	20	95	48
22	PAL 210019	21 019	KRM 150061	PAL 180022	0.8											102	75	84	71	111	55	92	30	99	47	97	54	100	30	97	49
23	PAL 210043	21 043	KJA 110057	PAL 160092	0.8											92	77	102	74	106	61	104	40	90	47	97	59	97	28	97	53
24	PAL 210069	21 069	KRM 150061	PAL 140119	0.6											91	77	107	74	98	58	86	31	110	46	98	56	110	32	100	51
25	PAL 210122	21 122	PAL 180026	PAL 160069	1.1											112	87	114	86	87	82	88	80	83	73	95	80	108	80	97	80

Selection List on Cow Value

Cows 2 years and older

ID Sorted on 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	
26	PAL 210123	21 123	PAL 180026	PAL 140083	1.5	105 75	100 72	82 53	103 25	97 39	93 52	91 20	91 46	
27	PAL 220043	22 043	KJA 110057	PAL 150075	3.5	102 75	94 74	108 60	101 41	78 52	98 59	96 30	98 53	
28	PAL 220053	22 053	PAL 150037	PAL 140082	3.3	91 72	88 73	125 54	98 19	108 36	99 50			
29	PAL 220106	22 106	BH 190023	PAL 150016	0.7	82 72	125 73	104 52	89 21	114 44	95 51			
30	PAL 230005	23 005	PAL 150037	PAL 200092	3.0	91 67	103 69	97 47	94 20	99 36	93 47			
31	PAL 230064	23 064	KJA 110057	PAL 160109	0.4	109 73	108 75	83 61	106 40	88 47	95 58	95 28	94 52	
32	PAL 230075	23 075	PAL 150037	PAL 130024	0.6	108 69	82 73	132 54	95 24	94 40	98 51	98 20	97 45	
33	PAL 230090	23 090	BH 190058	PAL 170071	0.9	103 69	120 73	89 51	90 20	99 38	97 49			
34	PAL 240040	24 040	BH 190058	PAL 210015	4.8	89 66	116 58	100 42	90 23	97 36	92 44	109 21	94 39	
35	PAL 240052	24 052	PAL 180101	PAL 190038	2.0	102 67	121 57	99 46	96 19	93 34	99 43			
36	PAL 240056	24 056	KJA 110057	PAL 160109	0.4	109 73	98 63	85 61	111 40	88 47	98 55	90 28	97 50	
37	PAL 240089	24 089	BH 190058	PAL 150034	0.5	94 70	119 61	102 51	92 21	93 34	96 46			
38	PAL 240096	24 096	PAL 210049	PAL 200081	0.7	90 66	93 53	103 44	103 26	98 36	97 44	94 22	96 40	
39	PAL 240103	24 103	PAL 210049	PAL 190107	0.5	103 67	84 52	100 44	111 26	91 36	95 44	86 20	93 39	
40	PAL 240107	24 107	BH 190058	PAL 150044	0.5	92 86	113 84	100 82	90 80	84 64	90 78	102 80	90 78	
41	PAL 240130	24 130	BH 190058	PAL 170093	0.8	88 70	127 60	109 51	81 20	97 38	96 46			
1	PAL 150044	15 44	PAL 110085	PAL 110056	9.0	79 84	101 80	106 82	94 18	86 43	83 59			
2	PAL 150075	15 75	PAL 110085	PAL 070106	4.2	86 84	92 78	105 77	94 27	76 52	82 61	91 26	81 54	
3	PAL 160092	16 092	GG 110035	PAL 100062	0.3	87 83	101 78	90 79	102 19	90 46	83 58	90 20	82 50	
4	PAL 180013	18 013	PAL 150032	PAL 150105	0.4	69 79	117 74	132 72	79 20	112 47	88 56			
5	PAL 180107	18 107	GG 110035	PAL 090021	1.8	79 89	122 87	105 87	81 80	82 75	81 81	120 80	85 81	
6	PAL 190026	19 026	WDW 150142	PAL 160055	0.2	77 79	98 74	104 64	100 30	97 50	87 57	102 24	88 50	
7	PAL 190068	19 068	KC 140021	PAL 110107	0.3	83 79	100 76	111 70	104 29	82 49	88 58	96 20	87 50	
8	PAL 190082	19 082	WDW 150142	PAL 140044	1.1	90 79	94 76	81 69	102 35	103 46	86 59	90 31	85 53	
9	PAL 190107	19 107	WDW 150142	PAL 130085	1.8	102 79	77 74	98 63	106 31	93 52	84 58	83 26	82 52	
10	PAL 200015	20 015	KRM 150061	PAL 170034	1.0	77 77	110 75	113 64	81 30	95 43	87 56	117 32	90 51	
11	PAL 200063	20 063	KRM 150061	PAL 140002	0.5	86 78	96 74	108 58	94 31	83 43	88 56	97 32	88 51	
12	PAL 200081	20 081	KRM 150061	PAL 150016	1.4	71 78	98 75	104 65	91 31	105 51	85 58	100 32	86 53	
13	PAL 210024	21 024	KC 160032	PAL 180004	0.9	86 75	96 73	84 51	102 27	100 41	83 53			

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									
										★★★★																	
14	PAL 210068	21 068	KJA 110057	PAL 160109	0.4						97	77	107	74	89	61	108	40	85	52	88	59	92	28	87	53	
15	PAL 210101	21 101	PAL 180026	PAL 160081	2.0						84	75	113	72	98	50	92	25	98	40	87	52	103	22	88	46	
16	PAL 220033	22 033	PAL 180101	PAL 140096	3.4						92	72	119	72	90	52	94	17	83	43	81	50					
17	PAL 230092	23 092	BH 190058	PAL 170076	0.2						84	69	132	72	95	51	86	21	106	36	89	49					
										★★★★																	
1	PAL 140063	14 063	PAL 110022	PAL 080025	0.9	HH	0	0	0	6.1	98	84	104	78	72	79	107	19	79	54	75	59					
2	PAL 190094	19 094	WDW 150142	PAL 090090	0.2						88	79	94	76	65	70	102	28	112	50	77	58	82	25	75	51	
3	PAL 210027	21 027	KC 160032	PAL 180076	0.6						74	73	113	71	90	49	92	27	95	47	76	52					
										★★★★																	
1	PAL 160109	16 109	GG 110035	PAL 080104	0.3						89	83	111	80	56	80	110	19	88	50	63	59	82	20	62	51	

Selection List on Cow Value

Bull Calves younger than 2 years

ID Sorted on ID			Name	Sire ID	Dam ID	% Inbreeding HH:Horned, PcPc:Polled, PcH: Polled horn carrier	Polled	Myostatin nt821 Q204X F94L Genomic tested	Calving Ease Value Acc	Calf Growth Value Acc	Milk Value Acc	Maint. Value Acc	Fertility Value Acc	Cow Value Acc	Growth Value Acc	Prod Value Acc									
									★★★★★																
1	PAL 250010	25 010		SLM 140006	PAL 220054	0.4			131	70	88	61	112	56	105	48	103	46	128	55	101	30	127	50	
2	PAL 250021	25 021		KJA 010103	PAL 220003	7.5			129	70	87	61	106	56	109	46	95	52	123	55	84	42	119	52	
3	PAL 250116	25 116		PAL 220075	PAL 170021	1.7			127	69	93	54	113	49	89	24	88	34	121	45					
									★★★★★																
1	PAL 250001	25 001		KJA 010103	PAL 220009	5.9			114	70	87	61	104	56	104	46	103	53	113	55	80	43	109	53	
2	PAL 250005	25 005		SLM 140006	PAL 220072	0.2			97	69	106	61	109	53	98	45	124	45	116	53	105	29	116	48	
3	PAL 250007	25 007		KJA 010103	PAL 220101	0.9			104	70	106	61	104	55	96	43	115	51	114	54	92	40	112	51	
4	PAL 250015	25 015		SLM 140006	PAL 220050	0.1			106	70	100	61	104	56	99	46	113	47	116	55	101	32	115	50	
5	PAL 250019	25 019		SLM 140006	PAL 220094	0.3			112	69	109	61	108	54	99	46	107	46	118	54	108	30	119	49	
6	PAL 250024	25 024		BH 190058	PAL 220044	4.7			119	65	102	58	101	43	99	27	96	36	116	45	103	20	116	40	
7	PAL 250061	25 061		81E	PAL 160034	0.8			102	69	94	58	113	46	107	22	97	37	110	45					
8	PAL 250076	25 076		PAL 220075	PAL 180021	0.9			127	67	96	53	101	49	95	25	92	34	118	44					
9	PAL 250081	25 081		BH 190058	PAL 210100	4.2			115	66	111	58	103	41	87	20	95	31	113	43					
10	PAL 250088	25 088		PAL 220075	PAL 160070	3.7			117	69	95	54	102	51	101	28	92	38	113	46	90	22	111	41	
11	PAL 250094	25 094		PAL 220075	PAL 170005	1.4			123	69	88	54	108	50	94	24	92	35	115	45					
12	PAL 250106	25 106		PAL 220075	PAL 180096	4.1			129	67	89	53	102	48	96	25	92	35	116	44	94	20	115	39	
13	PAL 250129	25 129		BH 190058	PAL 190033	0.8			101	67	112	60	109	48	96	28	106	39	111	47	101	26	111	43	
									★★★★★																
1	PAL 250017	25 017		BH 190058	PAL 220017	1.6			106	65	110	58	98	43	97	26	89	36	100	45	107	20	101	40	
2	PAL 250045	25 045		81E	PAL 150034	0.8			116	87	97	85	98	83	105	82	78	66	104	79	83	82	101	80	
3	PAL 250054	25 054		WDW 190009	PAL 180065	0.2			94	69	105	61	101	52	94	28	108	40	102	49	97	34	102	46	
4	PAL 250056	25 056		81E	PAL 190038	0.4			101	66	94	57	103	41	123	21	85	31	105	42					
5	PAL 250062	25 062		81E	PAL 210064	0.0			113	66	84	56	116	38	110	25	88	33	105	43	88	20	102	38	
6	PAL 250063	25 063		81E	PAL 190062	0.0			99	67	93	58	113	43	108	28	85	35	103	45	86	27	100	41	
7	PAL 250068	25 068		PAL 220075	PAL 170057	1.6			106	69	100	53	108	49	97	27	94	35	108	45	97	20	107	40	
8	PAL 250082	25 082		BH 190058	PAL 210013	1.2			107	66	108	58	108	43	93	25	92	35	109	45	110	20	110	40	
9	PAL 250099	25 099		PAL 220075	PAL 160074	2.5			114	69	94	53	101	50	102	24	90	32	109	44					
10	PAL 250104	25 104		BH 190058	PAL 210072	1.0			107	67	107	59	104	44	95	26	94	34	108	45					

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	
11	PAL 250108 25 108	BH 190058	PAL 200063	1.4				99 67	109 59	106 43	90 21	88 33	100 44	108 20	101 39	
12	PAL 250121 25 121	BH 190058	PAL 200060	1.2				87 67	118 59	108 45	83 21	105 36	100 44	117 20	103 39	
1	PAL 250036 25 036	81E	PAL 140082	0.0				114 69	78 59	119 48	105 17	90 32	98 44			
2	PAL 250052 25 052	81E	PAL 200001	0.4				89 66	102 57	116 39	95 23	100 35	98 43	107 22	100 39	
3	PAL 250060 25 060	WDW 190009	PAL 210105	0.7				94 67	112 60	97 45	94 22	106 35	98 45	101 30	98 42	
1	PAL 250030 25 030	BH 190058	PAL 220033	0.8				92 64	125 58	94 41	90 17	88 33	87 42			
2	PAL 250086 25 086	BH 190058	PAL 200081	1.2				81 67	115 59	101 45	89 21	99 36	88 44	110 20	90 39	
3	PAL 250093 25 093	BH 190058	PAL 130080	0.6				89 70	110 60	105 52	93 24	79 38	88 47			

Selection List on Cow Value

Heifers younger than 2 years

ID Sorted on ID			Name	Sire ID	Dam ID	% Inbreeding HH:Horned, PcPc:Polled, PcH: Polled horn carrier	Polled	Myostatin nt821 Q204X F94L Genomic tested	Calving Ease Value Acc	Calf Growth Value Acc	Milk Value Acc	Maint. Value Acc	Fertility Value Acc	Cow Value Acc	Growth Value Acc	Prod Value Acc									
											★★★★★														
1	PAL 250009	25 009		SLM 140006	PAL 220097	0.1			116	69	103	61	111	54	104	46	117	46	129	54	106	30	129	49	
2	PAL 250016	25 016		KJA 010103	PAL 220012	6.2			129	70	84	61	108	56	101	46	98	53	120	55	85	42	116	52	
3	PAL 250040	25 040		81E	PAL 140055	0.0			129	85	75	83	107	81	112	79	119	66	123	77	83	78	120	77	
4	PAL 250066	25 066		PAL 220075	PAL 180030	3.7			130	67	89	53	104	49	100	31	94	39	120	46	89	24	117	42	
											★★★★★														
1	PAL 250004	25 004		KJA 010103	PAL 220005	6.0			115	70	88	61	100	56	108	47	99	52	111	56	76	44	106	54	
2	PAL 250008	25 008		PAL 220075	PAL 220098	0.7			118	65	97	52	114	40	96	24	99	31	118	42					
3	PAL 250012	25 012		BH 190058	PAL 220002	1.2			110	65	111	58	103	43	97	27	100	36	113	45	106	22	113	40	
4	PAL 250014	25 014		KJA 010103	PAL 220083	0.7			115	71	96	62	100	58	102	47	102	52	117	56	82	44	113	54	
5	PAL 250020	25 020		PAL 220075	PAL 220086	1.4			123	65	101	52	109	40	94	24	93	31	119	42					
6	PAL 250026	25 026		BH 190058	PAL 220011	1.1			119	65	105	58	103	43	97	27	90	36	114	45	104	22	114	40	
7	PAL 250031	25 031		81E	PAL 210022	0.0			118	65	81	56	115	38	108	26	102	35	113	43	89	20	111	38	
8	PAL 250035	25 035		81E	PAL 160093	0.0			107	69	92	58	117	46	97	19	113	37	118	44					
9	PAL 250047	25 047		81E	PAL 180069	0.0			117	67	87	58	107	44	107	26	98	36	115	45	93	22	113	40	
10	PAL 250085	25 085		PAL 220075	PAL 170060	2.0			126	69	90	53	111	49	96	31	86	37	115	46	98	30	114	43	
11	PAL 250095	25 095		BH 190058	PAL 210039	1.0			116	67	108	59	109	44	94	26	98	35	118	45					
12	PAL 250096	25 096		BH 190058	PAL 210006	4.5			117	66	111	59	103	43	93	26	94	35	114	45	113	20	116	40	
13	PAL 250097	25 097		BH 190058	PAL 190007	0.6			112	68	109	60	100	48	96	27	109	37	117	47	102	24	117	42	
14	PAL 250098	25 098		BH 190058	PAL 200094	0.5			104	66	106	59	107	44	91	18	100	32	110	43					
15	PAL 250107	25 107		PAL 220075	PAL 140072	0.6			112	70	102	55	108	52	102	33	99	40	117	48	93	28	115	44	
											★★★★★														
1	PAL 250003	25 003		KJA 010103	PAL 220023	1.2			102	69	107	60	102	54	92	42	100	50	105	53	93	40	104	50	
2	PAL 250006	25 006		BH 190058	PAL 220010	1.6			104	65	105	58	101	43	100	26	91	34	102	44	102	20	102	39	
3	PAL 250011	25 011		KJA 010103	PAL 220106	0.9			98	70	108	61	102	55	94	43	108	51	106	54	94	40	104	51	
4	PAL 250013	25 013		BH 190058	PAL 220036	1.0			96	66	118	59	107	44	89	25	110	36	109	45					
5	PAL 250027	25 027		BH 190058	PAL 220116	7.1			102	65	119	59	103	41	90	18	99	32	106	42					
6	PAL 250053	25 053		81E	PAL 180014	0.0			110	68	85	57	112	44	105	25	88	34	101	45	89	21	99	40	
7	PAL 250058	25 058		81E	PAL 180106	0.0			100	67	93	57	106	44	102	19	88	32	102	43					

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	
Sorted on ID																
								★★★★☆								
8	PAL 250065 25 065	BH 190058	PAL 130044	1.0				107 70	106 60	104 52	96 28	91 41	106 49	95 26	105 44	
9	PAL 250091 25 091	BH 190058	PAL 190041	1.6				106 68	106 60	96 47	93 20	97 33	103 45			
10	PAL 250128 25 128	PAL 220075	PAL 180002	1.8				111 68	99 53	112 48	93 30	90 35	109 46	103 22	110 41	
								★★★★								
1	PAL 250041 25 041	KJA 010103	PAL 200103	1.4				93 72	95 62	96 60	101 42	107 53	99 56	78 41	95 53	
2	PAL 250044 25 044	81E	PAL 180013	0.4				83 68	103 56	121 43	96 19	98 33	94 43			
3	PAL 250046 25 046	WDW 190009	PAL 180022	0.6				77 69	112 60	101 52	94 19	110 35	91 45	101 28	91 42	
4	PAL 250050 25 050	WDW 190009	PAL 210069	0.6				87 67	114 60	97 47	89 23	107 36	92 45	108 32	94 42	
5	PAL 250067 25 067	BH 190058	PAL 210043	1.1				89 67	118 59	102 44	95 25	92 35	92 45			
6	PAL 250073 25 073	BH 190058	PAL 210027	0.7				89 66	117 58	98 40	89 20	94 35	91 43			
7	PAL 250119 25 119	BH 190058	PAL 190068	0.8				92 68	112 60	107 47	95 21	88 35	95 45			
								★★★★								
1	PAL 250048 25 048	81E	PAL 140063	0.8				90 69	101 58	88 46	111 18	82 36	82 44			
2	PAL 250077 25 077	BH 190058	PAL 200092	0.7				91 67	116 59	88 46	89 18	86 34	81 44			
3	PAL 250079 25 079	BH 190058	PAL 200040	1.5				77 66	125 59	100 46	87 23	97 37	84 45	115 22	87 40	
4	PAL 250092 25 092	BH 190058	PAL 200015	1.3				72 66	125 59	103 45	84 21	94 33	82 44	118 20	85 39	

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.

