

HEREFORD

GENOMIC BREEDING VALUE REPORT

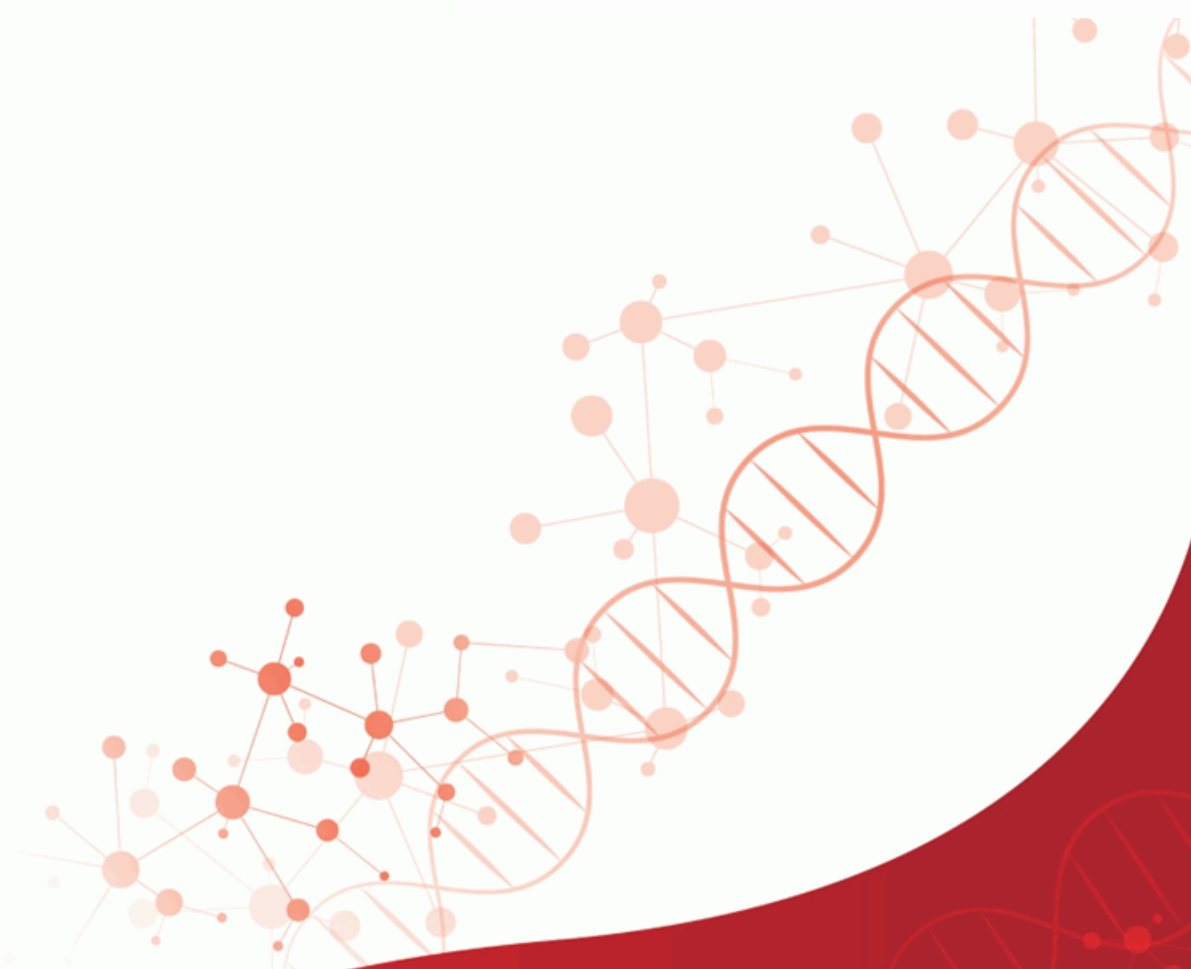
September 2026



BONHAVEN HEREFORDS

Herd Number: 712128

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EBVs, EBVi's and GEBVs

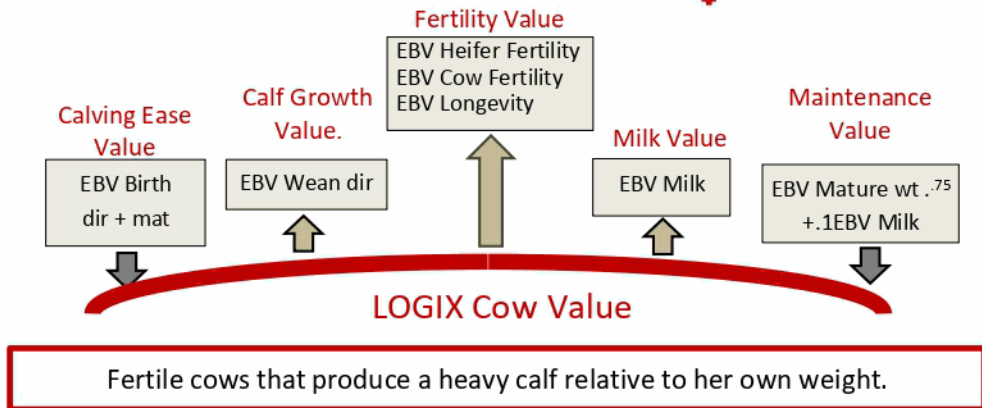
EBVi (Breeding Value Index): Genetic potential relative to the average (100) of the live (active) animals in the breed. Roughly 50% of the animals have values between 90 and 110. Values above 100, depending on the trait, tend to be in the more favourable direction.

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

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

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

LOGIX Cow Value



Selection Values

LOGIX Cow Value



Selecting for:

- fertile,
- low maintenance,
- easy calving cows
- with heavy weaners

LOGIX Growth Value



Select for efficient growers on veld and in feedlot, as measured in Phase C and D Growth Tests.

LOGIX Production Value



80% LOGIX Cow Value +
20% LOGIX Growth Value

LOGIX Carcass Value



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

How to use the Cow Value

Selection values should be compatible with your selection goal.

AVERAGE ANIMALS

(NO GROWTH EXTREMES)

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

GROWERS

(GOOD ENVIRONMENT)

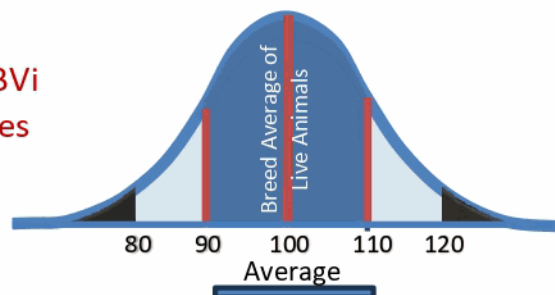
- WeanerCalf / Growth Value > 120
 - Cow Value and Fertility Value average to high
- Growers are usually heavier at birth (lower Calving Ease Value), and maturity (lower Maintenance Value).

LOW- MAINTENANCE ANIMALS

(HARSH ENVIRONMENT)

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

Interpretation of EBVi and Selection Values

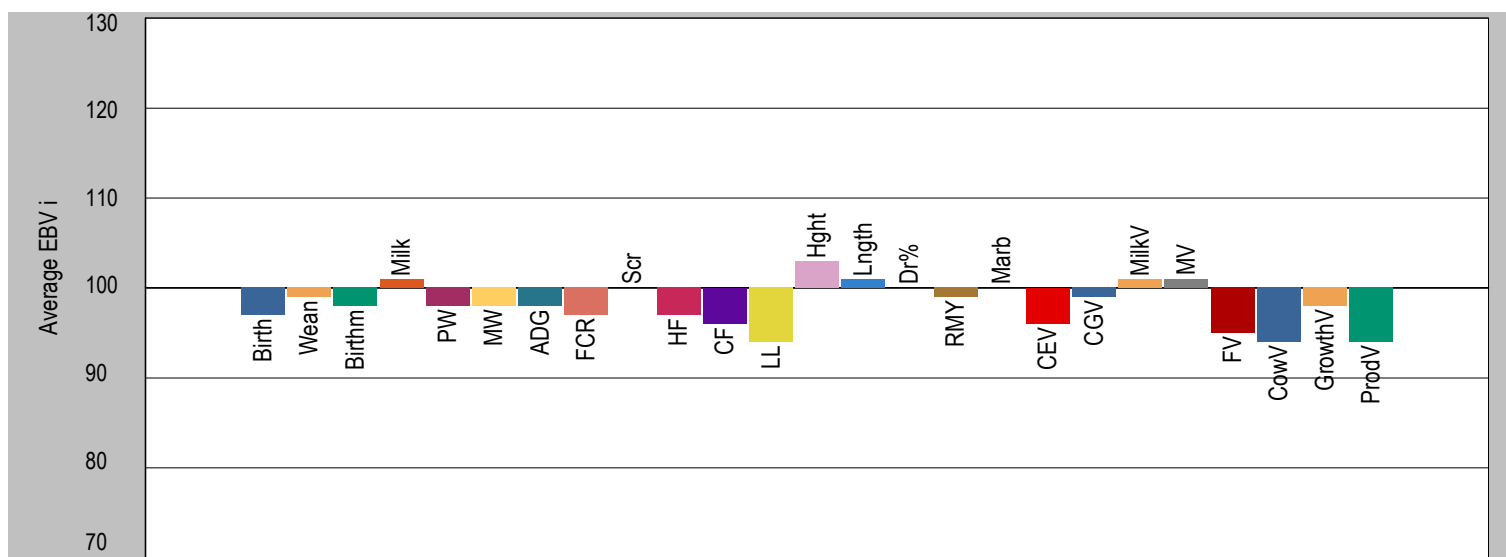


Examples

Type of Animal	Cow Value	Calving Ease V	Weaner Calf V	Milk Value	Maint. Value	Fertility Value
Average	Med-High	Avg	Avg	Avg	Avg	Med-High
Grower	Med-High		High			Med-High
Low Maintenance	Med-High				High	Med-High

	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	0.99	97	0.77
	Wean Weight	17.6	99	18.0
	Birth Mat.	0.66	98	0.57
	Milk (Wn.Mat.)	8.3	101	8.0
Postwean Growth	Postwean Wt	32.0	98	33.0
	Mature Weight	32	98	34
	ADG	125	98	133
	FCR	-71	97	-75
Fertility	Scrotal Circumf.	15.9	100	16.0
	Heifer Fertility	-3.3	97	-5.6
	Cow Fertility	-2.3	96	-2.9
	Longevity	33.6	94	36.2
Frame	Height	24	103	22
	Length	32	101	31
Carcass	Dressing%	0.10	100	0.10
	RedMeatYield	1.1	99	1.3
	Marbling	-0.30	100	-0.29

Selection Value	Ave. Herd
Calving Ease	96
Calf Growth	99
Milk	101
Maintenance	101
Fertility	95
Cow Value	94
Growth Value	98
Production Value	94

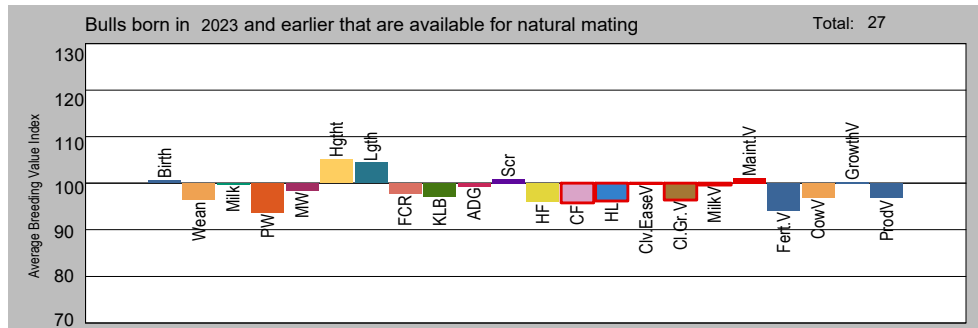
- Average of live animals in the breed: 100
- Above 100: **more favourable**,
- Below 100: **less favourable**

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

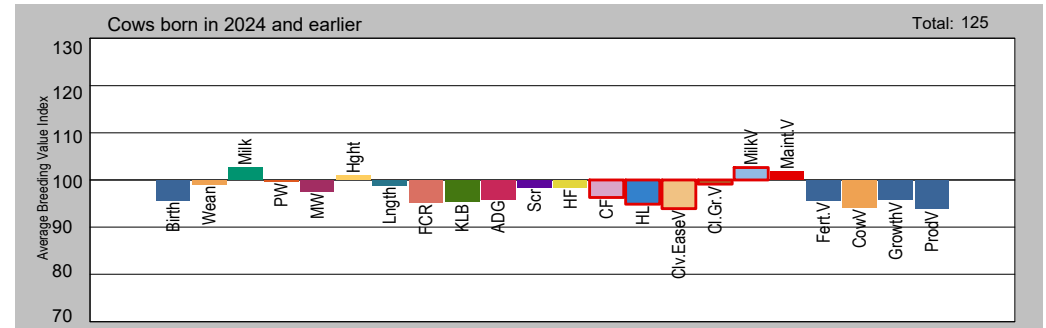
Genetic Windows

Bulls on the farm



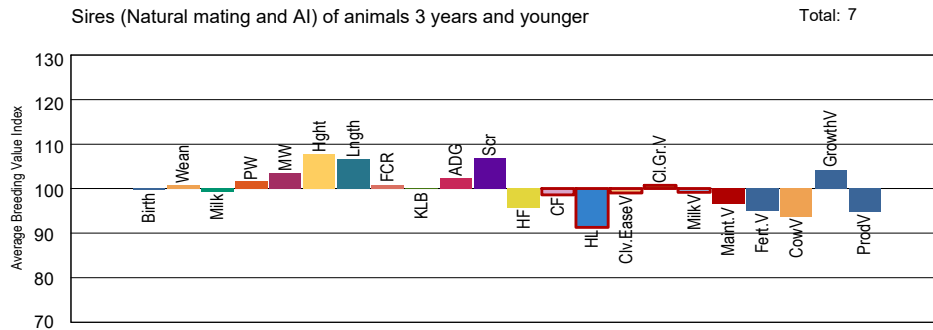
Animals available for breeding

Cow Herd

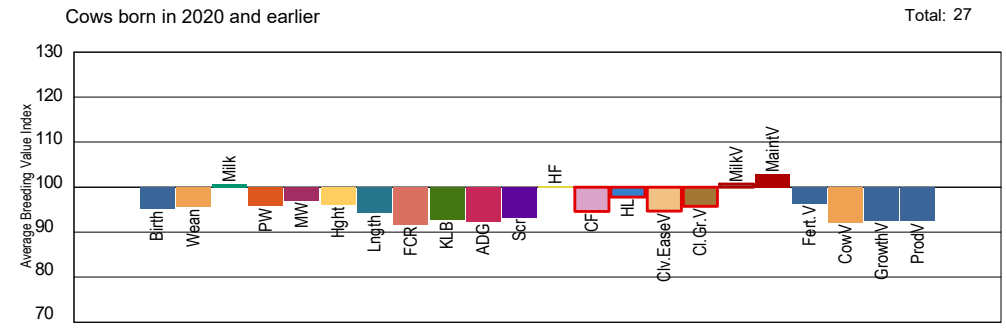


Results of previous selection decisions

Sires of young animals



Cows older than 6 years



Selection possibilities

Bull calves



Heifer calves

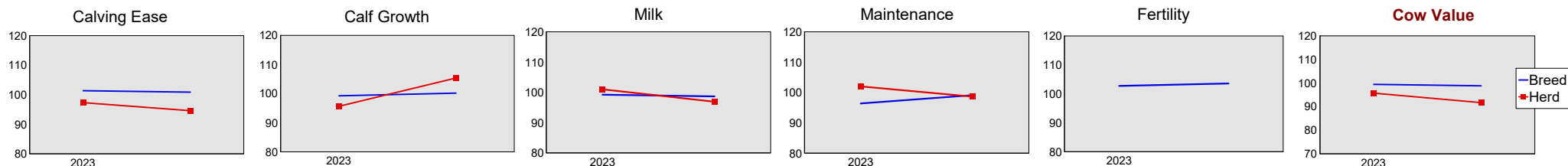


Summary of Cow Herd

			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	100	99	100	99	99	99	98	101	100	100
2017	1	★★★★☆	91	90	123	74	110	101	98	101	99	90	83	123	86	127	97	97	97	108	108	104	100	100
2018	3	★★★	96	99	72	110	90	78	82	76	92	99	111	72	98	92	82	85	80	103	82	95	89	84
2019	9	★★★★	93	96	101	102	96	90	94	94	93	96	101	101	95	98	95	94	96	101	93	97	101	99
2020	14	★★★★	96	95	105	104	97	96	94	95	97	95	97	105	97	95	93	93	94	99	97	99	94	93
2021	23	★★★★	96	94	108	103	96	96	94	95	98	94	97	108	96	95	93	93	97	99	96	95	98	95
2022	18	★★★★	94	101	106	100	101	99	96	101	97	101	93	106	101	99	97	96	101	103	101	96	104	101
2023	32	★★★★	95	97	103	104	95	96	95	95	96	97	97	103	96	96	96	95	99	98	95	94	101	99
2024	26	★★★★	90	109	97	99	91	90	103	89	93	109	95	97	110	101	102	100	103	91	97	91	107	105
Cows in Herd Average:			94	98	102	100	97	93	95	93	96	98	97	102	97	100	94	94	96	100	96	96	99	97

Genetic Trends for On-Farm Traits

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



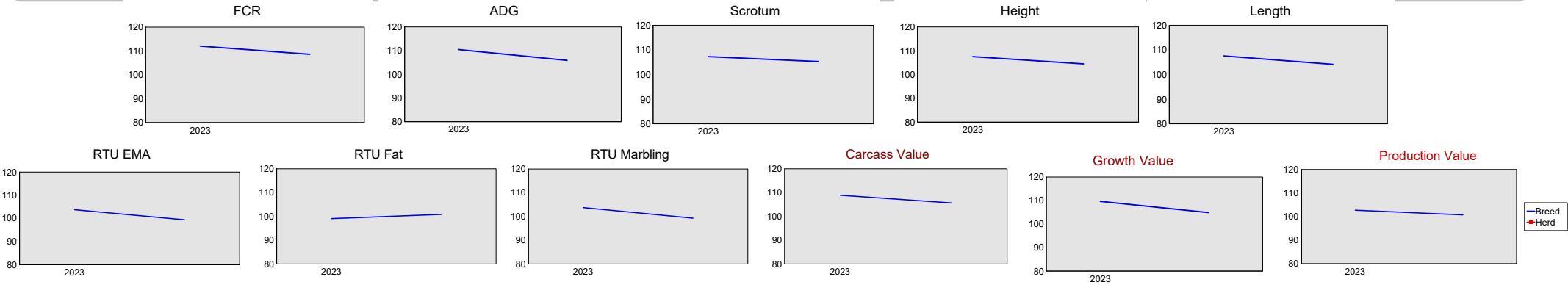
Herd

Birth Year	Calving Ease				Calf Growth			Milk			Maintenance				Fertility				Cow Value		
	Birth Weight		Calv. Ease	Mat EBV	Weaning Weight		Calf Growth	Milk (Wn.Mat.)		Postwean Weight	Mature Weight		Mainte- nance	Heifer Fert.		Cow Fert.		Longevity		Ferti- lity	
	Number	Dir EBV			Number	EBV		Number	EBV		Number	EBV		Number	EBV	Number	EBV	Number			EBV
	2023	63	0.88	0.63	97	51	16.2	96	51	8.24	101	20	30.0	102							
2024	66	1.07	0.67	95	57	20.2	105	57	7.04	97	46	35.2	99							92	

Breed

Birth Year	Calving Ease				Calf Growth			Milk			Maintenance						Fertility						Cow Value
	Birth Weight		Mat EBV	Calv. Ease	Weaning Weight		Calf Growth	Milk (Wn.Mat.)		Postwean Weight		Mature Weight		Mainte-nance	Heifer Fert.		Cow Fert.		Longevity		Ferti- lity		
	Number	Dir EBV			Number	EBV		Number	EBV	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			
2023																									
2024																									

Breed

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

Sires

Bull			Selection Values							Calf		Dam		Growth				Fertility				Frame		Carcass			Measured Progeny		
ID	Index EBV Acc	Sire ID Dam ID	Calv. Ease Value	Calf Grwth Value	Milk Value	Maint. Value	Fertility Value	Cow Value	Growth Value	Prod Value	Birth Dir	Wean Dir	Birth Mat.	Wean Mat.	Post wn wt	Mature weight	ADG	FCR	Scrotal	Heifer Fertility	Cow Fertility	Long-evi ty	Height	Length	EMA	Fat	Marbling	Birth Grwth Test	Wean Dgt/Calvs.
	Name																												
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 120026		WDW 060088 PJB 060028	93	115	89	86	75	78	106	80	94	115	98	89	112	115	105	105	105	82	80	89	108	106	105	95	101	101	87
MARKWART 12 26			94	96	89	59	75	80	41	72	1.21	24.4	0.65	4.7	41.0	50	153	-82	18.7	7.0	0.2	31.2	27	37	0.87	-0.51	-0.23	27	62
BH 120028		PJB 080032 PJB 090043	82	112	128	94	87	88	113	91	90	112	81	128	114	103	113	109	108	92	90	87	120	116	108	105	107	48	41
ZODIAC 12 28			89	92	76	37	62	69	20	59	1.49	22.9	1.32	16.0	41.9	37	181	-86	20.1	-0.4	-1.3	30.4	35	46	1.11	0.46	0.03	8	19
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 140002		BH 100161 BH 100115	92	118	67	106	82	68	107	71	91	118	103	67	100	96	108	103	113	80	92	91	115	117	117	108	107	22	22
140002			82	87	69	38	56	65	24	57	1.45	25.4	0.44	-1.6	33.0	29	163	-79	22.4	7.9	-1.7	32.1	32	48	1.81	0.79	0.03	4	9
BH 200002		BH 140002 BH 140059	104	92	86	105	81	89	108	91	99	92	113	86	80	95	107	99	109	86	88	86	113	115	115	113	114	44	35
GEORGE BUSH 2002			79	90	53	31	42	59	25	52	0.82	14.7	0.04	3.8	20.4	29	159	-74	20.3	4.1	-1.0	29.8	31	46	1.65	1.26	0.40		
											93	90	49	53	72	31	28	21	28	40	26	60	29	28	25	24	24		
DVB 150073		BMH 090075 DVB 080009	111	111	70	102	89	87	95	87	108	111	108	70	111	99	104	107	82	95	89	89	99	107	114	84	95	85	66
PRIME PRIDE 15073			94	94	87	80	74	84	70	81	0.17	22.6	0.24	-0.7	40.2	33	148	-85	7.1	-2.2	-1.3	31.5	22	37	1.57	-1.66	-0.55	19	47
											97	94	87	87	86	80	85	52	90	83	53	86	90	89	81	77	76		
JR 130005		WDW 080082 WDW 060066	97	93	73	87	96	82	92	81	96	93	105	73	92	116	91	93	89	96	105	75	89	85	100	100	109	115	76
ROGER 0513			94	95	87	69	71	81	48	74	1.09	14.9	0.38	0.0	28.1	51	101	-66	10.5	-2.9	-3.7	25.0	15	16	0.51	0.00	0.14	20	55
WDW 140081		BMH 090075 WDW 080072	100	85	96	104	82	85	88	84	100	85	99	96	91	95	86	86	85	101	74	83	91	87	92	92	104	57	40
WDW140081			92	93	82	71	72	80	52	74	0.74	11.8	0.60	6.7	27.2	29	83	-57	8.6	-6.2	1.1	28.8	17	18	-0.07	-0.84	-0.10	1	26
WDW 150038		DVB 110048 BMH 090059	97	93	101	99	103	103	95	102	101	93	92	101	96	100	94	101	96	112	96	91	97	95	88	118	103	103	78
CANON BALL 15038			92	95	81	53	66	75	46	69	0.70	15.1	0.88	8.3	30.5	33	109	-77	14.2	-14.2	-2.3	32.3	21	26	-0.38	1.73	-0.15	17	24
WDW 170057		BMH 140009 WDW 110048	90	102	83	98	73	71	101	72	88	102	105	83	98	103	103	103	102	87	70	93	109	100	91	84	90	26	14
XANADU			86	82	69	51	56	67	48	63	1.66	18.6	0.38	3.1	31.9	37	143	-78	17.0	3.7	1.7	33.1	28	31	-0.16	-1.63	-0.76	6	10

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																												
WDW 170149		WDW 140113 WDW 150019	88	124	87	91	48	62	121	67	92	124	91	87	127	111	117	109	113	57	61	84	114	118	121	78	96	33	26
BIGSHOT			84	87	51	36	56	62	70	64	93	87	65	51	50.2	45	196	-87	22.4	24.0	3.1	29.3	31	48	2.05	-2.21	-0.49	1	
WDW 170173		BH 130012 WDW 140034	105	78	108	107	106	101	87	99	103	78	108	108	84	92	85	81	103	111	101	94	92	91	85	115	74	44	31
JAILBREAK			85	90	69	49	57	69	40	63	94	90	66	69	22.9	25	76	-51	17.5	-12.9	-3.1	33.7	18	22	-0.65	1.46	-1.53		5 7
WDW 190062		5051 WDW 120002	104	82	92	99	93	86	92	85	99	82	114	92	83	101	91	91	86	115	81	80	91	88	84	104	83	24	
BOYS TOWN			78	70	52	40	45	56	36	52	90	70	51	52	21.8	35	101	-63	9.0	-15.7	0.1	27.4	17	19	-0.66	0.38	-1.10		
WDW 200023		652D WDW 170137	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
BOLT PERMORNANCE			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	
WDW 210106		WDW 170149 WDW 160043	82	138	77	82	86	69	126	74	86	138	91	77	137	122	123	119	119	80	102	81	126	126	132	75	100	25	23
JOHNTY			78	88	52	37	43	60	38	56	91	88	50	52	57.0	56	221	-100	25.7	8.1	-3.3	27.6	39	56	2.94	-2.48	-0.30		

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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
BH 200002 90004409 GEORGE BUSH 2002	2	BH 140002 BH 140059	104 79	92 90	86 53	105 31	81 42	89 59	108 25	91 52	111 24	99 0.82 93	113 0.04 49	95 29 31	92 14.7 90	86 3.8 53	84 69 58	80 20.4 72	107 159 28	99 -74 21	109 20.3 28	86 4.1 40	88 -1.0 26	86 29.8 60	113 31 29	115 46 28	115 1.65 25	113 1.26 24	114 0.40 24
WDW 210106 92214378 JOHNTY	9	WDW 170149 WDW 160043	82 78	138 88	77 52	82 37	86 43	69 60	126 38	74 56	124 34	86 1.79 91	91 0.92 50	122 56 37	138 34.0 88	77 1.2 52	101 106 59	137 57.0 50	123 221 35	119 -100 37	119 25.7 41	80 8.1 48	102 -3.3 25	81 27.6 56	126 39 42	126 56 40	132 2.94 35	75 -2.48 32	100 -0.30 31
BH 220070 95392023 BH 220070	3	BH 130027 BH 130046	100 70	96 61	105 59	116 29	96 45	110 51	91 20	108 45	92 23	102 0.61 76	96 0.72 58	83 17 29	96 16.3 61	105 9.5 59	109 125 50	94 29.4 54	89 94 25	90 -62 14	94 12.7 27	92 -0.4 51	101 -3.0 27	99 35.8 56	100 23 27	97 27 27	95 0.10 24	99 -0.17 22	97 -0.44 22
BH 230015 97071153 BH 230015	6	BH 200002 BH 200063	102 66	87 71	93 45	108 24	96 33	94 48	98 20	94 42	99 20	100 0.76 77	106 0.32 41	92 25 24	87 12.5 71	93 5.8 45	87 76 47	82 21.7 46	96 120 22	94 -67 18	99 15.4 23	105 -9.3 36	91 -1.5 20	94 33.5 43	101 23 23	101 32 23	99 0.47 20	112 1.10 19	106 0.02 19
BH 230022 97071187 BH 230022	9	BH 200002 BH 180014	99 67	111 72	73 47	98 24	93 33	81 48	103 20	83 42	108 18	94 1.19 77	113 0.05 44	103 37 24	111 22.8 72	73 0.1 47	85 71 48	100 32.9 48	104 147 22	102 -77 17	103 17.2 22	98 -3.9 35	92 -1.7 21	98 35.5 44	110 28 23	109 40 22	111 1.36 19	105 0.48 18	109 0.15 18
BH 230025 97162846 BH 230025	2	BH 200002 WDW 180114	104 67	89 73	83 45	111 28	80 33	85 49	92 22	84 44	92 20	101 0.67 77	108 0.26 44	90 23 28	89 13.5 73	83 2.9 45	81 62 49	87 24.5 50	90 97 22	87 -58 19	91 11.6 24	90 1.0 32	79 0.3 22	89 31.5 44	96 20 24	96 27 23	97 0.26 20	102 0.19 19	106 0.00 18
BH 230026 97162770 BH 230026	2	BH 130027 BH 190025	94 70	100 72	103 56	102 30	98 42	100 53	96 24	99 47	99 26	95 1.14 78	99 0.62 54	97 31 30	100 17.9 72	103 8.9 56	104 114 53	101 33.7 59	96 117 28	99 -74 18	96 13.8 30	97 -3.5 47	99 -2.8 25	103 37.4 53	101 23 31	98 29 30	97 0.30 27	108 0.78 26	101 -0.22 25
BH 230029 97075154 BH 230029	6	BH 200002 BH 200037	109 66	90 73	90 44	109 26	101 35	103 49			98 20	106 0.35 77	110 0.16 41	91 24 26	90 14.0 73	90 4.9 44	87 77 48	82 21.3 62	97 120 22	94 -67 15	99 15.2 23	101 -6.0 37	101 -3.0 23	100 36.1 46	97 20 23	99 29 23	102 0.64 21	105 0.42 20	101 -0.22 20
BH 230031 97075162 BH 230031	15	BH 130027 BH 200003	106 69	89 72	102 55	107 28	77 42	94 52	92 22	93 46	90 24	105 0.38 77	104 0.41 52	92 26 28	89 13.5 72	102 8.4 55	96 96 52	93 28.4 66	89 91 26	88 -60 16	91 11.3 28	80 7.9 47	79 0.3 24	104 38.0 54	92 18 29	88 19 28	86 -0.57 25	107 0.64 24	93 -0.61 23
BH 230032 97075170 BH 230032	5	BH 200002 BH 200011	110 66	90 72	107 44	93 27	89 35	105 49	103 20	105 43	105 22	107 0.21 77	107 0.29 42	106 40 27	90 13.6 72	107 9.8 44	95 94 48	88 25.5 62	101 136 23	89 -61 16	105 18.4 24	94 -1.3 37	89 -1.2 22	96 34.4 47	104 25 24	109 40 24	102 0.69 22	116 1.54 21	103 -0.12 21
BH 230035 97075204 BH 230035	1	WDW 150038 BH 140019	91 71	106 75	114 59	85 35	123 45	109 56	115 27	111 50	116 26	98 0.89 78	83 1.27 57	114 48 35	106 20.6 75	114 12.1 59	111 128 56	107 37.6 68	113 182 29	111 -90 24	113 22.4 31	114 -15.5 49	124 -6.6 29	102 37.3 57	118 34 31	118 49 30	108 1.08 26	115 1.47 25	114 0.40 24
BH 230040 97075030 BH 230040	1	WDW 150038 BH 190041	104 70	84 74	105 55	109 32	104 43	104 54	94 27	103 49	95 25	105 0.43 78	99 0.60 53	90 23 32	84 11.4 74	105 9.5 55	97 97 54	82 21.7 67	93 106 28	96 -70 24	95 13.5 30	106 -10.0 48	101 -3.0 25	101 36.6 55	97 20 31	95 25 30	90 -0.25 26	113 1.29 24	102 -0.17 24

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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																														
BH 230044 97075063 BH 230044	6	BH 130027 BH 170034		92 71	96 74	124 59	84 32	97 45	99 55	106 21	100 48	105 24	99 0.80 78	84 1.21 56	115 49 32	96 16.5 74	124 14.8 59	111 128 55	97 30.8 68	104 150 25	103 -78 15	105 18.6 27	90 1.4 51	104 -3.5 28	104 38.2 55	108 28 28	108 38 27	102 0.65 24	106 0.54 23	106 0.01 23
BH 230048 97075097 BH 230048	3	WDW 170173 BH 150055		98 70	87 73	112 55	97 36	112 42	104 55	104 33	105 51	99 34	96 1.08 78	105 0.36 52	101 35 36	87 12.4 73	112 11.4 55	100 104 55	91 27.5 52	103 145 36	102 -78 28	104 18.0 38	118 -17.8 47	103 -3.4 28	100 36.0 52	109 28 38	103 34 38	104 0.79 34	100 -0.08 33	93 -0.62 32
BH 230057 97148084 BH 230057	6	BH 200002 BH 210014		101 66	101 69	80 42	100 23	106 33	94 47	94 20	94 42	104 20	95 1.15 77	116 -0.09 41	101 35 23	101 18.4 69	80 2.3 42	84 69 45	90 26.5 45	99 128 22	105 -81 18	94 12.7 23	108 -11.0 36	105 -3.7 20	92 32.9 43	107 27 23	105 36 23	106 0.92 20	113 1.27 19	111 0.23 19
BH 230058 97075261 BH 230058	7	BH 200002 BH 160028		112 86	101 87	93 82	101 80	83 67	99 79	98 80	98 79	105 80	112 -0.08 88	103 0.45 82	99 32 80	101 18.5 87	93 5.9 82	96 95 83	96 30.2 72	102 141 80	108 -86 80	92 12.2 80	81 7.5 38	89 -1.2 80	102 37.2 82	106 26 80	105 35 80	109 1.15 80	114 1.32 80	111 0.23 80
BH 230059 97075279 BH 230059	3	BH 200002 BH 150016		100 68	94 72	112 46	98 21	83 34	99 48			111 16	104 0.50 78	93 0.85 45	101 34 21	94 15.6 72	112 11.6 46	106 118 46	89 26.0 62	109 167 18	103 -79 12	110 20.8 19	81 7.7 37	91 -1.6 19	98 35.2 46	114 31 20	116 46 19	113 1.50 17	109 0.80 16	110 0.20 16
BH 230060 97075287 BH 230060	5	BH 200002 BH 200045		103 66	93 72	103 44	101 21	88 34	102 47			107 18	103 0.51 77	101 0.51 41	98 31 21	93 15.1 72	103 8.8 44	98 101 46	86 23.9 62	105 152 19	100 -75 13	108 19.8 20	84 5.3 37	97 -2.4 20	97 34.9 45	111 29 20	110 41 20	110 1.24 18	107 0.63 17	106 0.00 17
BH 230062 97075295 BH 230062	7	BH 130027 BH 180031		100 71	101 73	105 57	105 31	90 44	103 54	102 23	103 48	103 26	102 0.62 78	96 0.74 55	94 27 31	101 18.6 73	105 9.5 57	109 124 54	99 32.5 60	100 134 28	100 -75 17	100 16.0 30	91 0.8 51	95 -2.1 27	93 33.1 54	106 26 30	103 33 29	100 0.53 27	108 0.78 25	103 -0.12 25
BH 230063 97075303 BH 230063	4	BH 200002 BH 190029		106 66	89 72	88 45	96 27	98 34	94 49			100 18	104 0.44 77	106 0.34 42	105 39 27	89 13.3 72	88 4.4 45	80 59 48	75 17.0 50	95 115 20	92 -65 15	102 17.2 21	107 -10.6 37	91 -1.6 21	96 34.4 45	96 20 21	100 31 21	98 0.38 18	116 1.50 17	107 0.07 17
BH 230064 99081457 BH 230064	9	BH 130027 JNP 170001		99 87	90 85	128 84	102 82	105 71	107 80	101 82	107 80	106 82	107 0.27 89	82 1.29 84	95 29 82	90 13.7 85	128 16.1 84	118 146 84	93 28.2 67	91 100 82	80 -49 82	120 26.2 83	107 -10.3 46	105 -3.7 82	89 31.3 84	125 38 83	121 51 83	98 0.39 82	143 4.16 82	124 0.85 82
BH 230067 97075311 BH 230067	25	WDW 150038 BH 180008		89 70	105 73	99 56	92 31	97 42	92 53	100 26	92 48	104 23	97 0.99 78	83 1.26 54	109 43 31	105 20.0 73	99 7.7 56	99 103 53	102 34.6 60	99 131 26	102 -77 24	99 15.6 28	99 -5.0 48	96 -2.3 24	99 35.8 54	102 24 29	104 35 28	95 0.17 24	117 1.61 22	106 0.01 21
BH 230068 97075329 BH 230068	6	BH 200002 BH 200070		101 66	94 55	95 42	111 21	82 32	95 42			101 17	99 0.81 77	104 0.39 42	89 22 21	94 15.6 55	95 6.4 42	96 95 39	88 25.1 44	98 125 19	94 -68 13	101 16.3 20	81 7.4 36	91 -1.5 19	94 33.4 42	106 26 20	105 36 19	104 0.85 17	106 0.54 17	105 -0.03 16
BH 230070 99101610 BH 230070	26	WDW 150038 JNP 180001		99 69	91 56	99 48	101 32	100 40	99 48	95 28	99 44	97 25	100 0.77 77	98 0.65 51	98 32 32	91 14.1 56	99 7.7 48	93 89 45	93 28.3 51	93 108 28	97 -72 26	96 14.1 30	110 -12.2 43	94 -1.9 24	91 32.4 54	98 21 31	96 27 30	89 -0.28 26	116 1.58 24	105 -0.04 24

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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
BH 230073 97074991 BH 230073	15	BH 130027 BH 160032		100 69	100 61	116 57	103 32	96 43	107 51	100 23	107 45	99 30	107 0.26	86 1.13	95 28	100 18.2	116 12.6	117 142	105 35.9	98 125	98 -72	98 15.1	92 0.1	102 -3.3	96 34.4	105 25	102 32	103 0.72	100 -0.09	98 -0.36
BH 230076 97074975 BH 230076	7	BH 130027 BH 190044		92 70	105 73	114 56	104 32	88 44	97 54	107 22	98 48	106 25	97 1.02	90 0.97	94 28	105 20.1	114 11.9	118 145	107 37.2	105 153	103 -80	105 18.6	86 3.9	93 -1.8	103 37.5	109 28	107 37	103 0.72	104 0.31	101 -0.26
WDW 230133 95623989 CHESLIN	2	WDW 190062 WDW 200009		102 67	83 51	84 41	109 36	95 35	84 45	81 27	81 41	80 28	97 1.01	114 0.02	91 25	83 10.6	84 3.4	76 52	85 23.1	83 71	86 -57	76 4.0	113 -14.5	83 -0.3	89 31.3	82 11	82 13	81 -0.91	96 -0.41	85 -1.02
BH 240011 98555949 BH 240011	4	BH 200002 BH 200013		96 66	104 72	104 45	91 27	89 34	97 49			117 20	95 1.13	102 0.48	109 43	104 19.7	104 9.1	103 111	100 32.8	115 188	106 -83	115 23.6	98 -4.3	86 -0.8	92 32.6	121 35	122 52	121 2.06	104 0.37	106 0.01
BH 240012 98555931 BH 240012	1	WDW 150038 BH 180014		105 70	76 73	90 57	115 33	104 42	89 54	70 28	84 49	73 24	100 0.74	112 0.07	85 19	76 8.0	90 5.1	79 57	77 18.4	72 28	82 -52	73 2.3	121 -19.8	87 -0.9	99 36.0	75 7	70 1	70 -1.74	105 0.45	93 -0.64
BH 240014 98555964 BH 240014	4	WDW 210106 BH 210011		81 64	136 72	99 42	77 24	84 33	81 47	132 22	87 42	131 21	87 1.71	85 1.18	126 60	136 33.0	99 7.8	115 137	134 55.0	129 240	121 -102	127 29.4	78 9.2	99 -2.7	90 31.8	135 44	135 65	135 3.14	90 -1.01	106 -0.02
BH 240015 98618374 BH 240015	3	WDW 210106 BH 190021		94 66	113 72	94 46	96 27	91 34	90 49	114 22	93 44	112 21	98 0.94	91 0.93	104 38	113 23.4	94 6.1	103 111	108 37.9	112 177	108 -86	112 22.1	84 5.4	104 -3.5	90 31.7	115 32	114 44	116 1.68	91 -0.93	98 -0.36
BH 240024 98556095 BH 240024	4	WDW 210106 BH 170030		91 67	105 73	84 48	100 27	89 36	80 50	98 25	81 45	96 22	91 1.46	102 0.51	101 35	105 19.9	84 3.2	90 81	105 36.2	97 120	97 -71	96 14.1	93 -0.5	92 -1.7	89 31.1	99 22	96 27	101 0.56	86 -1.44	94 -0.56
BH 240025 98556244 BH 240025	3	BH 200002 BH 170034		101 67	83 73	107 49	92 26	96 35	95 50			99 16	101 0.68	100 0.57	108 42	83 11.0	107 9.9	90 83	76 17.6	99 129	95 -69	100 15.9	99 -4.8	96 -2.3	96 34.3	103 24	104 35	99 0.44	107 0.68	109 0.15
BH 240028 98556129 BH 240028	2	BH 130027 BH 190025		98 70	96 72	104 56	105 30	98 42	104 53	91 24	103 47	94 26	99 0.86	99 0.61	94 27	96 16.5	104 9.2	104 113	97 30.8	92 101	96 -70	92 11.9	98 -4.4	98 -2.6	101 36.6	97 21	93 24	93 -0.04	108 0.74	100 -0.30
BH 240031 98556111 BH 240031	3	BH 200002 BH 210016		98 65	94 72	88 42	105 22	89 32	91 47			100 18	94 1.23	112 0.07	95 28	94 15.2	88 4.5	87 75	87 24.7	98 125	94 -67	103 17.6	94 -1.5	91 -1.5	92 32.5	101 23	102 32	102 0.64	109 0.84	100 -0.31
BH 240033 98555998 BH 240033	4	WDW 210106 WDW 200009		92 66	111 57	77 41	100 34	92 35	78 46	98 28	79 42	99 28	91 1.44	102 0.48	102 35	111 22.4	77 1.4	88 79	112 40.5	99 131	101 -76	93 12.4	96 -2.6	94 -2.0	90 31.8	100 22	101 32	105 0.89	82 -1.83	93 -0.62

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ID Number Name																														
BH 240034 98556012 BH 240034	3	BH 200002 BH 210051		104 65	90 57	96 38	104 23	94 32	99 42			101 18	101 0.72 77	108 0.24 38	95 28 23	90 13.8 57	96 6.9 38	91 86 39	87 24.4 49	100 133 20	95 -69 15	105 18.5 21	99 -5.3 35	94 -1.9 19	93 33.0 42	103 24 21	104 35 21	103 0.72 19	109 0.84 18	98 -0.38 18
BH 240037 98556004 BH 240037	2	WDW 210106 BH 150021		94 69	125 72	74 47	90 30	103 37	83 51	108 30	85 47	113 28	91 1.44 78	108 0.26 48	112 46 30	125 28.3 72	74 0.5 47	93 88 50	116 43.1 50	110 169 31	111 -90 26	104 17.7 33	102 -6.9 41	105 -3.7 25	93 32.9 46	115 32 34	114 44 33	119 1.92 29	87 -1.31 27	102 -0.18 26
BH 240038 98618937 BH 240038	3	WDW 210106 BH 190055		92 66	100 72	90 45	103 28	103 33	93 49	91 22	92 44	96 20	94 1.19 77	97 0.71 41	97 30 28	100 17.9 72	90 4.9 45	93 88 48	98 31.9 43	89 92 22	89 -61 21	105 18.4 25	101 -6.5 37	107 -4.0 21	88 31.0 42	104 25 25	98 29 24	106 0.96 21	115 1.40 20	107 0.04 19
BH 240039 98556020 BH 240039	3	WDW 210106 BH 210060		100 65	104 71	89 42	98 25	88 31	91 47	106 22	92 42	103 22	100 0.74 77	101 0.52 40	103 36 25	104 19.8 71	89 4.9 42	94 90 46	102 34.6 47	103 146 23	103 -79 20	104 17.7 26	87 3.0 34	96 -2.3 18	88 30.8 42	105 26 26	103 34 25	107 1.07 23	89 -1.17 21	94 -0.56 20
BH 240041 98556038 BH 240041	1	BH 200002 BH 190028		99 66	64 73	96 47	105 28	96 35	70 50			83 18	92 1.38 77	118 -0.18 43	94 28 28	64 3.0 73	96 6.8 47	71 41 49	62 8.8 57	82 68 20	80 -49 16	85 8.2 21	108 -11.2 37	90 -1.3 22	87 30.3 45	88 15 22	87 18 21	90 -0.25 19	103 0.30 18	99 -0.31 17
BH 240046 98556061 BH 240046	4	WDW 210106 BH 170023		92 67	126 73	88 48	83 29	90 36	84 50	116 24	87 45	117 20	95 1.15 77	94 0.83 46	119 53 29	126 28.7 73	88 4.4 48	101 108 50	120 45.7 50	115 191 23	114 -93 22	113 22.5 26	87 3.6 40	99 -2.8 22	91 32.1 45	120 35 27	119 50 26	122 2.17 21	85 -1.49 19	98 -0.41 19
BH 240047 98556079 BH 240047	4	BH 200002 BH 180055		102 66	85 73	88 47	110 24	83 35	83 49			91 16	96 1.04 77	114 0.00 43	90 24 24	85 11.8 73	88 4.4 47	82 64 48	77 17.9 56	91 98 19	89 -61 15	92 12.0 20	98 -3.9 37	76 0.8 22	98 35.2 45	98 21 20	97 27 20	95 0.15 17	102 0.14 16	99 -0.34 16
BH 240048 98556087 BH 240048	5	BH 200002 BH 210034		90 65	100 73	99 44	101 22	83 33	87 47			110 17	90 1.47 77	100 0.59 40	98 32 22	100 17.8 73	99 7.5 44	99 103 46	89 26.2 56	107 159 19	100 -75 13	110 21.2 20	85 4.9 37	90 -1.3 19	91 32.3 43	114 31 20	115 45 20	113 1.46 17	110 0.97 17	107 0.06 16
BH 240054 98555782 BH 240054	1	BH 200002 WDW 200133		106 66	96 73	104 43	96 27	92 33	106 49	113 21	108 43	112 23	106 0.34 77	101 0.52 41	103 37 27	96 16.3 73	104 9.1 43	99 103 48	90 26.4 51	113 181 24	109 -87 16	114 23.0 26	96 -2.9 35	94 -2.0 19	87 30.4 44	114 31 26	115 45 25	114 1.56 24	99 -0.11 22	109 0.14 22
BH 240061 98555816 BH 240061	5	BH 200002 BH 200045		101 66	99 72	100 44	97 21	88 33	98 47			114 18	101 0.68 77	101 0.52 41	102 36 21	99 17.5 72	100 8.0 44	99 101 46	88 25.6 54	111 174 19	104 -81 13	113 22.6 20	82 7.0 37	99 -2.8 20	94 33.7 43	117 33 20	117 48 20	116 1.73 18	107 0.69 17	108 0.12 17
BH 240062 98555840 BH 240062	9	BH 200002 BH 160009		104 68	82 74	99 50	117 31	92 37	95 52	95 25	94 47	94 26	99 0.82 78	111 0.11 45	82 16 31	82 10.3 74	99 7.6 50	92 87 52	79 19.4 48	95 115 28	92 -65 21	93 12.4 29	103 -7.7 38	86 -0.8 26	90 31.6 46	96 20 29	97 27 29	98 0.35 26	102 0.17 25	105 -0.03 25
BH 240063 98555857 BH 240063	7	BH 200002 BH 190041		108 66	88 73	98 45	111 23	93 34	103 48			103 20	106 0.31 77	106 0.31 43	88 22 23	88 13.1 73	98 7.3 45	94 91 47	79 19.6 56	100 133 21	95 -69 15	102 16.9 22	92 -0.3 37	97 -2.5 21	93 33.3 44	105 26 23	105 36 22	104 0.83 20	111 1.06 19	108 0.12 19

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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				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
BH 240064 98555865 BH 240064	3	BH 200002 BH 140019		106 69	88 74	111 51	97 27	112 36	112 51			109 20	108 0.18 78	96 0.74 48	102 36 27	88 13.1 74	111 11.0 51	99 103 51	84 22.9 58	107 160 22	101 -76 15	107 19.5 23	106 -9.4 38	116 -5.3 24	95 34.0 47	112 30 23	114 44 23	107 1.05 21	112 1.11 20	115 0.42 20
BH 240066 6020851694 BH 240066	16	BH 200002 JNP 190101		112 64	89 71	98 42	103 23	84 31	100 46			107 20	109 0.07 76	108 0.23 39	97 30 23	89 13.2 71	98 7.5 42	91 85 45	81 20.5 54	104 148 22	98 -72 15	106 18.9 23	86 4.0 31	91 -1.5 19	86 30.2 42	110 29 23	110 41 22	109 1.15 21	112 1.14 20	111 0.25 19
BH 240067 98555881 BH 240067	3	BH 130027 WDW 180100		101 71	96 74	99 56	104 32	86 42	98 54	96 24	97 48	94 25	101 0.69 78	101 0.52 55	95 29 32	96 16.1 74	99 7.6 56	98 99 54	95 29.7 56	95 115 27	99 -74 18	93 12.7 29	84 5.7 46	95 -2.2 26	92 32.7 54	99 22 30	92 23 29	95 0.12 26	96 -0.43 24	101 -0.24 24
BH 240069 98555907 BH 240069	3	WDW 210106 BH 210062		99 53	105 72	87 43	98 25	89 33	89 45	98 23	89 41	95 22	102 0.65 60	95 0.78 37	103 36 25	105 19.9 72	87 4.1 43	91 86 47	108 38.4 43	95 115 23	97 -71 20	95 13.4 26	89 2.2 39	98 -2.7 18	85 29.4 42	102 24 27	100 31 26	108 1.14 23	75 -2.51 22	94 -0.55 21
BH 240070 98555915 BH 240070	1	WDW 150038 BH 200007		90 70	113 74	99 55	93 35	101 43	95 55	109 28	97 50	110 26	95 1.12 78	88 1.08 53	107 41 35	113 23.6 74	99 7.8 55	107 119 55	110 39.4 59	108 162 29	108 -86 25	109 20.4 31	99 -5.2 48	104 -3.5 27	95 34.1 54	108 27 31	109 39 31	106 0.95 27	108 0.77 25	104 -0.09 25
BH 240072 98689557 BH 240072		BH 190001		104 36	86 31	95 33	110 12	71 19	88 25			98 9	102 0.63 39	106 0.31 31	89 23 12	86 12.3 31	95 6.5 33	90 82 25	80 20.1 26	104 147 10	91 -63 7	109 20.6 11	68 16.1 21	96 -2.2 10	60 18.2 27	106 26 11	96 27 11	87 -0.49 9	94 -0.63 9	90 -0.78 9
BH 240075 98559552 BH 240075		WDW 200023 BH 180031		106 86	112 87	86 83	107 81	95 68	98 80	97 80	98 80	106 81	106 0.34 88	101 0.53 82	93 27 81	112 23.2 87	86 3.8 83	100 105 84	106 37.1 60	99 130 81	107 -84 80	99 15.3 81	99 -4.9 40	95 -2.2 80	91 32.1 83	113 30 81	107 38 81	99 0.40 81	117 1.59 81	106 0.03 81
BH 240078 98559560 BH 240078		WDW 200023 BH 170022		109 68	120 73	107 50	85 25	98 35	112 50	117 24	114 45	120 33	111 -0.08 78	96 0.75 46	115 49 25	120 26.6 73	107 10.0 50	115 137 49	119 45.1 52	115 188 34	111 -89 11	120 25.8 37	95 -2.5 37	100 -2.9 19	105 38.4 48	126 39 38	124 54 37	118 1.86 34	104 0.31 32	109 0.16 30
BH 240079 98556152 BH 240079	15	BH 130027 BH 200003		102 69	87 72	103 55	110 28	76 41	91 52	88 22	89 46	85 24	100 0.74 77	105 0.36 52	89 22 28	87 12.5 72	103 8.8 55	97 99 52	93 28.7 60	84 74 26	85 -55 16	87 9.2 28	82 6.8 47	78 0.5 24	99 35.9 52	88 15 29	83 14 28	81 -0.94 25	106 0.59 24	91 -0.70 23
BH 240081 98559537 BH 240081		WDW 200023 BH 200070		102 67	107 72	102 48	99 25	98 35	104 49	103 25	104 44	106 34	103 0.55 78	99 0.62 43	100 34 25	107 21.0 72	102 8.7 48	108 121 48	108 38.3 42	101 136 35	101 -77 12	110 21.2 39	86 4.2 39	109 -4.2 19	106 38.7 46	113 30 39	110 41 38	105 0.90 35	103 0.23 33	102 -0.18 31
BH 240084 98556186 BH 240084	6	BH 130027 BH 210031		96 70	100 73	123 55	98 29	99 42	104 53	107 22	105 47	106 26	102 0.64 78	88 1.08 52	99 33 29	100 17.8 73	123 14.6 55	120 148 52	106 36.7 54	105 150 27	101 -77 16	109 20.4 29	95 -2.5 49	104 -3.5 25	97 35.0 52	109 28 29	108 39 28	103 0.75 26	108 0.71 25	95 -0.51 24
BH 240085 98556194 BH 240085	2	BH 200002 BH 200071		86 66	115 72	102 44	91 23	100 33	94 48			125 16	92 1.39 77	88 1.04 42	109 43 23	115 24.2 72	102 8.4 44	109 124 46	106 36.8 46	120 209 19	111 -89 13	122 26.8 20	89 2.2 37	113 -4.9 19	94 33.7 44	123 37 20	128 58 20	126 2.43 17	112 1.16 16	117 0.51 16

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Index EBV Acc	Inbreeding	Sire ID Dam ID	Calv. Ease V	Calf Growth V	Milk V	Maint. V	Fertility V	Cow Value	Growth Value	Prod. Value	Carcass Value	Birth wt dir	Birth mat	Mature wt	Wean wt	Wean mat	Cow-Calf Ratio (Wean)	Postwean wt	ADG	FCR	Scrotal Circ.	Heifer Fertility	Cow Fertility	Longevity	Height	Length	EMA	Fat	Marbling	
ID Number Name																														
BH 240086 98620917 BH 240086	3	WDW 210106 JNP 210009	92 65	115 71	87 42	89 25	92 30	85 47	116 24	89 42	114 23	92 1.37 77	102 0.50 40	112 46 25	115 24.1 71	87 4.3 42	96 95 46	114 42.3 38	112 179 24	107 -84 22	115 23.6 27	91 0.5 32	100 -2.9 18	84 29.1 40	118 34 27	118 48 26	117 1.81 24	95 -0.53 22	99 -0.34 22	
BH 240088 6020847387 BH 240088	2	WDW 210106 BH 210084	99 63	112 54	105 39	90 23	82 33	97 42	112 22	99 38	111 20	104 0.46 74	89 1.01 40	110 44 23	112 22.9 54	105 9.4 39	109 124 39	114 41.8 40	111 176 22	110 -88 20	109 20.5 24	80 7.9 38	94 -2.0 19	88 30.7 42	114 31 25	113 43 24	115 1.64 21	89 -1.11 20	98 -0.39 19	
BH 240091 98554793 BH 240091	3	WDW 210106 BH 210048	83 63	121 57	95 38	90 24	76 33	75 42	110 22	78 38	110 21	89 1.59 74	87 1.11 39	111 45 24	121 26.6 57	95 6.4 38	107 119 40	121 46.4 44	109 166 22	107 -84 20	107 19.4 25	68 16.5 39	94 -2.0 18	92 32.8 41	111 30 25	111 42 24	112 1.44 22	93 -0.71 20	100 -0.26 19	
BH 250010 98689565 BH 250010	6	BH 200002 BH 200055	95 54	98 55	108 41	101 22	81 33	95 40			109 20	96 1.03 61	97 0.68 39	98 31 22	98 17.2 55	108 10.2 41	106 118 39	94 29.0 46	106 155 21	100 -76 15	107 19.3 22	89 1.9 36	82 -0.1 20	91 32.4 42	112 30 22	113 43 22	111 1.36 20	109 0.80 19	110 0.20 19	

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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																													
BH 170034 86675741 CAROLINE 170034	1	BH 120026 PJB 090106	91 81	90 80	123 80	74 42	110 55	101 65	98 22	101 56	96 20	99 0.86 83	83 1.25 76	127 62 42	90 13.8 80	123 14.7 80	101 107 67	86 24.2 71	97 124 23	97 -71 19	97 14.6 25	108 -11.4 62	108 -4.1 38	104 38.0 64	100 22 25	100 31 25	92 -0.11 20	102 0.17 19	107 0.07 18
BH 180014 93996742 BH 180014	3	BH 120026 BH 150021	98 79	112 71	65 77	101 38	105 50	80 60	87 30	79 54	92 28	91 1.42 82	118 -0.16 73	102 35 38	112 23.0 71	65 -2.1 77	80 59 62	104 35.6 62	90 95 33	95 -69 26	86 9.1 35	113 -14.4 56	93 -1.9 33	106 39.0 62	95 19 35	91 22 34	94 0.08 29	96 -0.43 28	99 -0.35 28
BH 180028 88880000 PRECIOUS 1828	2	WDW 150038 BH 100115	88 77	99 76	73 69	110 35	90 50	75 59	84 31	73 53	83 26	83 1.99 81	110 0.15 69	91 24 35	99 17.4 76	73 0.2 69	80 59 60	98 31.7 60	84 73 31	91 -64 29	81 6.2 33	103 -7.7 60	83 -0.2 28	92 32.6 62	93 18 34	85 16 33	83 -0.76 27	99 -0.18 26	98 -0.39 25
WDW 180114 87981270 JOY FULL	5	WDW 140081 WDW 100104	103 79	85 76	79 71	119 47	76 49	79 63	74 34	75 57	71 30	102 0.63 82	104 0.40 72	83 16 47	85 11.8 76	79 2.0 71	77 54 65	91 27.0 44	72 29 35	71 -39 31	72 2.2 38	94 -1.6 51	71 1.6 36	87 30.3 61	78 9 38	75 6 37	76 -1.28 31	91 -0.90 29	97 -0.43 28
BH 190021 90003724 CAROLINE 921	5	BH 130027 BH 110083	106 78	73 77	115 75	128 39	96 52	99 62	84 21	96 54	80 24	109 0.12 81	95 0.78 70	73 6 39	73 6.6 77	115 12.2 75	104 113 64	69 13.0 70	82 67 26	82 -52 14	89 10.2 29	93 -1.0 62	101 -3.1 33	97 35.0 60	84 13 29	81 12 28	80 -0.96 25	105 0.45 23	90 -0.77 23
BH 190025 97147334 BH 190025	2	WDW 150038 BH 150021	99 77	103 66	80 69	102 36	113 46	95 57	89 32	93 52	96 30	96 1.08 81	110 0.18 69	99 33 36	103 19.3 66	80 2.1 69	86 73 57	98 31.7 57	92 102 34	99 -75 28	89 10.5 36	119 -18.8 50	101 -3.1 29	105 38.3 60	98 21 37	95 26 36	93 0.02 31	108 0.76 29	102 -0.17 28
BH 190026 90003880 BELLE 926	1	JR 130005 BH 140016	82 76	97 76	86 72	79 45	99 51	81 62	97 26	81 55	97 26	79 2.33 80	107 0.28 67	125 60 45	97 16.9 76	86 3.8 72	78 55 64	98 31.7 68	97 122 28	95 -68 22	96 13.7 30	103 -7.7 61	100 -2.9 31	89 31.1 60	101 23 30	99 30 30	103 0.71 26	100 -0.04 25	103 -0.13 24
BH 190028 90003898 BELLE 928	2	JR 130005 PJB 080030	83 78	75 78	97 75	89 47	109 53	76 64	81 28	73 57	80 26	77 2.50 81	112 0.07 71	112 46 47	75 7.5 78	97 7.1 75	75 49 67	83 21.8 70	81 62 30	79 -48 24	82 7.0 32	121 -19.9 62	101 -3.0 35	84 29.2 63	87 14 32	85 16 32	89 -0.29 27	96 -0.43 26	94 -0.57 26
BH 190033 90003690 KISMET 933	3	BH 130027 BH 110110	86 78	99 79	130 75	93 38	90 52	91 62	106 20	93 54	105 24	90 1.53 82	93 0.85 70	105 38 38	99 17.5 79	130 16.7 75	122 154 64	104 35.5 70	103 146 25	100 -75 13	106 18.8 27	100 -5.4 62	83 -0.3 34	101 36.5 59	115 32 28	111 42 27	106 0.97 24	102 0.13 23	97 -0.45 22
BH 190041 90003617 ULYSSES 941	4	BH 130027 BH 140044	104 78	85 75	109 71	121 35	104 52	111 60	91 28	109 54	91 30	104 0.46 81	102 0.50 70	78 11 35	85 11.7 75	109 10.6 71	106 118 60	83 21.9 70	89 92 33	88 -60 21	91 11.6 35	100 -5.5 62	106 -3.8 33	101 36.7 60	93 18 35	91 22 34	89 -0.31 31	109 0.83 30	101 -0.24 29
BH 190044 90003641 PHYLLIDA 944	4	BH 120026 BH 120052	96 77	112 78	102 72	109 43	93 53	100 63	105 26	101 56	104 24	100 0.74 81	91 0.92 68	90 23 43	112 22.9 78	102 8.6 72	116 140 64	111 39.8 70	104 150 27	103 -79 23	102 17.2 29	100 -5.3 63	87 -1.0 34	105 38.7 62	106 26 29	105 36 29	99 0.44 25	98 -0.24 23	98 -0.36 23
BH 190054 90003799 JASMINE 954	6	BH 140002 BH 160006	77 76	128 76	78 72	98 36	71 48	56 60			113 14	81 2.17 80	90 0.98 66	103 37 36	128 29.9 76	78 1.7 72	102 110 61	113 41.2 68	110 169 18	105 -82 15	112 21.8 19	82 6.5 57	68 2.0 30	104 37.9 56	119 34 20	119 50 19	116 1.69 15	101 0.09 14	103 -0.16 14

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ID Number Name																														
JNP 190101 93784114 JNP 190101	3	BH 130027 BH 140059		103 66	91 63	108 62	103 34	85 43	102 52	101 28	102 47	100 32	100 0.74	108 0.26	96 29	91 14.0	108 10.1	101 107	92 27.6	98 125	94 -67	101 16.2	87 3.4	93 -1.8	86 29.9	104 25	102 33	99 0.41	110 0.98	107 0.04
BH 200003 91374710 HELEN 2003	1	WDW 150038 BH 150047		107 86	87 86	75 86	110 81	69 71	72 80	84 81	71 80	79 81	98 0.95	123 -0.36	91 24	87 12.5	75 0.8	72 42	90 26.5	79 53	77 -46	80 5.9	85 4.4	62 3.0	104 37.8	80 10	76 8	71 -1.66	105 0.49	87 -0.93
BH 200004 91374728 FRECKLES 2004	6	BH 130027 BH 140001		86 68	103 76	120 71	102 27	106 49	102 56	101 20	102 49	100 22	95 1.15	77 1.49	96 29	103 19.1	120 13.7	121 152	101 33.5	99 129	96 -70	104 17.9	103 -7.6	110 -4.5	93 33.3	105 26	102 33	102 0.67	105 0.48	97 -0.44
BH 200005 91455584 MINX 2005	8	BH 130027 BH 120020		94 75	82 75	84 70	123 35	76 51	72 59	78 29	70 53	73 30	87 1.72	118 -0.14	79 12	82 10.4	84 3.2	80 60	90 26.7	76 45	82 -53	76 3.8	82 6.6	80 0.2	92 32.7	81 11	71 2	76 -1.27	92 -0.80	90 -0.76
BH 200007 91384701 REBA 2007	8	BH 100032 BH 170006		90 77	112 77	105 73	100 44	100 54	99 63	99 30	99 56	99 33	97 0.99	85 1.18	98 32	112 23.2	105 9.5	115 138	110 39.7	99 128	98 -73	99 15.7	93 -1.0	106 -3.8	100 36.2	94 19	95 26	100 0.49	96 -0.41	96 -0.47
BH 200011 91376442 SILK 2011	9	BH 100032 BH 160054		92 88	98 87	118 86	80 82	94 77	98 82	102 82	99 82	102 82	89 1.60	108 0.22	120 54	98 17.3	118 13.2	105 116	105 36.5	98 126	81 -51	104 18.1	99 -5.2	92 -1.7	96 34.2	98 21	107 38	93 -0.03	119 1.86	94 -0.58
BH 200013 91384693 KISMET 2013	1	BH 100032 BH 110110		86 77	106 76	124 70	86 44	96 53	95 62	111 29	97 55	108 33	88 1.65	96 0.75	112 46	106 20.3	124 15.0	119 147	111 40.1	109 165	104 -80	109 20.5	115 -15.9	81 0.1	96 34.2	114 31	113 43	111 1.37	94 -0.65	93 -0.64
BH 200037 91376400 REBA 2037	1	BH 100032 BH 130017		114 75	82 75	97 69	119 41	118 54	114 61	77 30	109 55	78 32	111 -0.02	109 0.21	81 14	82 10.3	97 7.1	91 85	78 18.7	78 52	81 -51	81 6.5	117 -17.1	112 -4.7	105 38.2	72 5	73 4	81 -0.95	95 -0.49	86 -0.98
BH 200045 91384933 GRACE 2045	8	BH 130027 BH 160014		99 75	98 67	118 69	98 30	94 49	103 55	106 22	103 48	103 24	104 0.49	90 0.98	100 34	98 17.3	118 13.1	114 135	96 30.2	103 143	100 -75	107 19.2	82 7.1	107 -3.9	104 37.8	108 27	105 36	104 0.83	100 -0.01	98 -0.40
BH 200049 91454660 FREE SPIRIT 2049	2	JR 130005 BH 160004		92 75	97 67	94 69	100 39	114 49	100 58	92 28	99 52	91 32	94 1.23	97 0.69	100 34	97 16.6	94 6.1	92 87	98 31.5	92 104	93 -67	90 10.9	116 -16.3	111 -4.7	91 32.3	92 17	89 20	96 0.20	104 0.34	98 -0.39
BH 200060 91384958 PHYLIDA 2060	3	BH 130027 BH 160046		93 75	96 67	131 70	96 33	85 50	94 56	105 28	96 50	105 30	101 0.71	83 1.26	100 34	96 16.4	131 17.0	123 157	101 33.6	104 149	103 -79	103 17.3	82 6.6	93 -1.9	99 35.9	107 27	106 36	105 0.88	104 0.33	105 -0.04
BH 200063 91375113 CAROLINE 2063	1	WDW 150038 BH 140046		97 76	87 68	98 70	110 36	110 50	101 58	89 32	99 53	88 31	98 0.90	99 0.61	90 23	87 12.6	98 7.3	93 88	89 25.9	87 84	89 -61	90 11.1	123 -21.3	96 -2.3	97 35.0	90 16	88 19	85 -0.63	110 0.95	99 -0.33

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ID Number Name																													
BH 200070 91454413 SUZETTE 2070	3	BH 130027 BH 130046	98 76	96 65	104 66	116 29	83 48	101 54	90 20	99 47	91 23	101 0.73 80	96 0.74 67	83 16 29	96 16.4 65	104 9.0 66	108 123 53	95 29.6 54	89 90 25	89 -61 14	93 12.3 27	76 10.6 60	94 -2.0 27	102 37.0 57	99 22 27	96 26 27	94 0.05 24	99 -0.17 22	97 -0.45 22
BH 200071 91454421 REBA 2071		BH 130027 PJB 090092	91 76	110 66	127 67	93 33	119 50	106 56	109 22	107 49	113 22	100 0.75 80	67 1.93 68	104 38 33	110 22.2 66	127 15.8 67	128 168 55	108 38.3 58	108 165 27	104 -81 15	111 21.5 29	100 -5.9 61	130 -7.6 30	103 37.7 59	107 27 29	111 42 28	109 1.21 23	109 0.82 22	109 0.13 22
WDW 200009 90028416 JESS	3	DVB 150073 WDW 150085	102 78	82 73	78 65	120 57	97 52	84 64	69 42	79 60	74 45	97 0.95 81	113 0.06 70	82 15 57	82 10.5 73	78 1.7 65	74 47 65	85 23.6 50	75 41 48	80 -50 32	66 -1.0 51	111 -13.3 62	86 -0.7 35	98 35.1 60	73 6 52	76 7 51	78 -1.17 46	88 -1.19 44	86 -0.94 43
BH 210011 93925659 BH 210011	7	BH 130027 BH 180006	84 72	113 72	128 64	85 30	83 47	87 55	115 21	90 48	114 24	92 1.38 77	83 1.27 60	113 47 30	113 23.5 72	128 16.1 64	127 165 55	117 43.9 66	112 178 25	108 -85 15	113 22.7 28	84 5.4 61	88 -1.0 26	97 35.0 55	120 35 28	118 48 27	114 1.59 25	103 0.23 23	103 -0.17 23
BH 210014 97147409 BH 210014	2	WDW 150038 BH 150021	94 87	124 84	71 84	86 80	131 74	90 80	94 80	90 80	111 80	88 1.68 89	116 -0.07 84	117 52 80	124 28.2 84	71 -0.5 84	88 78 83	112 40.4 68	103 145 80	120 -100 80	90 11.2 81	125 -22.5 59	127 -7.1 80	99 35.9 83	114 31 81	110 40 81	109 1.20 80	115 1.40 80	112 0.31 80
BH 210016 93967651 BH 210016	7	WDW 170173 BH 130015	101 72	90 73	93 62	107 32	97 45	96 55	86 27	94 49	85 28	97 0.96 78	109 0.19 58	93 26 32	90 13.8 73	93 6.0 62	89 81 56	90 26.5 64	85 78 30	86 -57 22	95 13.4 32	103 -7.4 57	94 -2.0 25	95 34.0 53	86 14 32	84 15 31	85 -0.62 28	104 0.38 27	84 -1.08 27
BH 210017 93925642 BH 210017	14	BH 130027 BH 140019	97 74	83 75	138 67	104 32	109 49	100 57	94 23	99 50	92 27	106 0.32 79	75 1.59 63	92 26 32	83 10.7 75	138 18.8 67	123 155 58	89 25.9 68	92 102 28	91 -64 16	94 12.9 30	95 -2.5 61	121 -6.2 29	97 34.8 57	97 20 31	94 25 30	90 -0.24 28	107 0.66 26	102 -0.20 26
BH 210018 93967727 BH 210018	8	WDW 170173 BH 110083	109 69	65 72	102 55	122 32	101 42	89 53	74 23	85 47	70 24	106 0.34 77	109 0.21 52	79 12 32	65 3.1 72	102 8.5 55	82 66 53	64 10.1 66	73 31 27	70 -37 18	87 9.4 29	111 -13.0 46	93 -1.8 25	93 33.3 54	76 8 29	73 5 28	70 -1.71 25	108 0.76 24	76 -1.43 24
BH 210024 94541539 BH 210024	4	WDW 170173 BH 180014	102 69	95 71	87 52	106 31	115 43	104 52	83 26	101 47	85 26	97 0.98 78	113 0.05 49	94 27 31	95 15.8 71	87 4.2 52	88 77 51	94 29.3 64	83 71 28	85 -56 21	91 11.4 30	126 -23.6 55	101 -3.1 23	98 35.1 51	89 16 30	86 17 30	86 -0.56 27	105 0.48 26	85 -1.01 25
BH 210028 93967735 BH 210028	5	WDW 170173 BH 180019	102 70	76 72	112 60	115 30	94 43	93 54	83 24	91 48	81 26	99 0.84 77	108 0.24 55	83 17 30	76 8.1 72	112 11.4 60	99 103 54	85 23.5 58	83 69 27	79 -48 20	94 13.0 29	102 -6.7 56	89 -1.1 22	99 36.0 51	84 12 29	84 15 29	84 -0.69 27	106 0.54 25	80 -1.23 25
BH 210031 93967750 BH 210031	3	WDW 170173 BH 120052	102 75	95 75	121 68	101 31	116 46	117 57	99 26	117 51	98 27	106 0.30 80	91 0.95 64	96 30 31	95 15.7 75	121 14.1 68	115 139 58	101 33.8 60	98 127 28	94 -68 21	105 18.3 31	120 -19.3 57	107 -4.0 27	99 35.7 54	102 24 31	102 33 30	94 0.07 28	106 0.52 26	86 -0.97 26
BH 210034 93925725 BH 210034	4	BH 130027 BH 120044	86 74	87 75	119 67	112 30	84 49	88 57	89 20	87 50	87 23	92 1.38 79	87 1.10 63	86 19 30	87 12.7 75	119 13.5 67	114 135 57	87 24.8 68	86 80 25	84 -54 13	92 12.1 27	91 0.8 62	85 -0.6 29	93 33.2 56	93 18 28	90 21 27	88 -0.40 24	105 0.47 22	92 -0.68 22

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ID Number Name																													
BH 210037 93925634 BH 210037	6	BH 130027 BH 140001	94 73	98 74	115 66	105 27	100 48	106 56	97 20	105 49	96 22	101 0.70	84 1.22	93 27	98 17.0	115 12.2	114 136	95 29.8	95 116	93 -67	101 16.2	97 -3.3	107 -4.0	90 31.9	101 23	98 29	98 0.38	105 0.44	95 -0.51
BH 210039 93925790 BH 210039	3	BH 130027 BH 150056	101 73	95 73	114 66	110 34	101 50	113 57	92 28	111 51	91 32	109 0.11	84 1.23	88 22	95 16.0	114 11.9	114 135	102 34.5	94 112	96 -70	91 11.5	101 -6.5	101 -3.0	98 35.1	96 20	89 20	88 -0.41	99 -0.19	101 -0.24
BH 210040 93992923 BH 210040	3	BH 130027 BH 110110	79 74	94 75	141 68	94 31	86 49	85 57	101 20	86 50	100 24	87 1.75	83 1.26	102 36	94 15.5	141 19.9	129 170	104 35.5	99 128	96 -70	101 16.5	100 -5.8	78 0.4	96 34.6	110 28	106 36	101 0.57	101 0.08	95 -0.55
BH 210046 93967743 BH 210046	5	WDW 170173 BH 160014	93 71	99 70	105 51	99 31	110 44	105 52	100 24	105 46	97 24	94 1.24	99 0.61	100 33	99 17.4	105 9.4	103 112	99 32.1	97 122	93 -66	108 20.2	111 -12.9	108 -4.1	97 34.9	103 25	102 33	98 0.34	104 0.34	85 -1.00
BH 210048 93925675 BH 210048	2	BH 130027 BH 180008	85 72	102 74	113 57	99 30	66 47	80 55	95 22	80 48	97 24	93 1.27	82 1.32	99 33	102 19.0	113 11.7	113 134	104 35.4	94 110	94 -68	94 13.0	56 25.0	86 -0.8	104 38.0	97 20	97 28	92 -0.05	111 1.05	101 -0.22
BH 210050 93967636 BH 210050	3	WDW 170173 BH 170008	91 71	89 74	96 62	112 36	103 46	95 56	84 29	92 51	82 31	91 1.47	102 0.47	87 21	89 13.4	96 6.9	94 91	90 26.8	81 63	78 -47	92 11.8	113 -14.3	94 -1.9	97 35.0	88 15	86 17	83 -0.75	107 0.70	87 -0.93
BH 210051 93967644 BH 210051	11	WDW 170173 BH 130057	104 72	88 72	107 54	104 33	107 46	109 54	93 26	108 48	91 28	103 0.54	103 0.44	95 28	88 12.8	107 10.1	99 102	93 28.2	93 107	91 -63	102 16.7	113 -14.6	100 -2.8	97 35.0	94 18	93 24	90 -0.21	105 0.42	82 -1.15
BH 210054 93925766 BH 210054	1	WDW 150038 BH 170016	95 72	104 73	103 63	104 35	106 48	105 57	98 28	105 51	99 24	100 0.79	90 0.98	95 28	104 19.7	103 8.8	108 123	108 38.0	95 116	97 -71	99 15.5	110 -12.5	102 -3.2	95 33.8	100 23	99 29	92 -0.07	113 1.27	103 -0.15
BH 210060 93925683 BH 210060	16	BH 130027 BH 150002	107 72	87 62	98 63	111 32	89 44	98 52	92 24	97 46	89 28	104 0.47	108 0.24	88 22	87 12.4	98 7.3	93 88	86 24.1	90 95	90 -63	94 12.8	91 0.3	93 -1.8	93 33.0	91 17	88 19	89 -0.29	102 0.19	92 -0.69
BH 210079 95538575 BH 210079	3	JR 130005 BH 170026	92 71	106 63	88 62	88 39	80 48	81 55	100 28	81 50	99 28	94 1.18	96 0.75	114 48	106 20.5	88 4.5	89 81	105 36.1	99 130	98 -73	97 14.3	76 11.3	97 -2.4	82 28.0	100 23	98 29	104 0.82	100 -0.08	109 0.14
BH 210084 6020552821 BH 210084	4	BH 130027 BH 120033	111 74	88 62	132 59	98 29	79 48	100 52	99 20	99 46	98 24	116 -0.43	88 1.04	98 32	88 12.8	132 17.2	118 145	93 28.2	99 131	101 -76	99 15.2	81 7.7	86 -0.7	94 33.6	101 23	99 30	98 0.35	103 0.25	96 -0.47
BH 210085 95538583 BH 210085	11	BH 130027 BH 170057	89 72	100 64	123 64	109 30	82 46	95 53			98 23	94 1.18	89 1.03	88 22	100 17.9	123 14.6	126 162	106 36.7	97 123	96 -70	99 15.4	86 3.8	86 -0.7	94 33.7	104 25	100 31	98 0.32	105 0.49	97 -0.42

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ID Number Name																													
JNP 210002 93984599 JNP 210002	1	WDW 170057 WDW 180100	97 72	96 60	83 58	101 33	81 37	81 51	95 28	81 46	92 27	95 1.14	106 0.31	99 33	96 16.2	83 2.9	82 66	95 29.5	97 120	101 -76	93 12.5	90 1.4	81 -0.1	91 32.3	100 23	92 23	89 -0.28	84 -1.64	96 -0.49
JNP 210009 93784130 JNP 210009	2	WDW 170173 BH 140059	103 72	82 64	100 64	105 34	97 40	94 53	94 30	94 48	93 32	97 0.95	115 -0.03	94 28	82 10.3	100 8.0	89 79	84 22.7	91 98	85 -56	101 16.5	105 -9.4	94 -2.0	87 30.5	98 21	97 28	91 -0.17	114 1.32	94 -0.59
BH 220011 97147342 BH 220011	2	BH 120028 BH 190025	92 69	107 57	104 52	98 26	101 40	99 47			104 20	94 1.18	95 0.77	101 35	107 20.9	104 9.2	109 124	105 36.5	102 141	104 -81	99 15.3	106 -9.6	95 -2.2	102 37.2	109 28	105 36	101 0.57	107 0.61	105 -0.07
BH 220012 94536687 BH 220012	3	BH 120028 BH 190055	89 68	98 72	114 53	109 27	103 41	105 51			94 17	95 1.15	87 1.10	89 22	98 17.2	114 12.0	116 140	99 32.3	86 82	85 -56	102 16.8	105 -9.0	103 -3.4	90 31.8	103 24	96 27	97 0.25	130 2.90	111 0.26
BH 220014 94536695 BH 220014	4	BH 120028 BH 190068	78 67	130 71	104 51	94 26	96 40	87 50			117 14	86 1.83	82 1.30	105 39	130 30.4	104 9.2	124 158	128 50.9	115 190	110 -88	113 22.5	95 -2.1	102 -3.2	91 32.3	121 35	120 50	115 1.61	104 0.36	107 0.04
BH 220015 94536703 BH 220015	5	BH 120028 BH 190078	88 69	101 57	104 51	98 28	89 40	91 47			98 18	90 1.54	98 0.67	101 35	101 18.2	104 9.2	104 113	99 32.3	99 130	98 -72	96 14.1	98 -4.5	85 -0.5	97 34.8	106 26	102 33	100 0.50	100 -0.04	101 -0.26
BH 220024 94536760 BH 220024	3	BH 120028 BH 190039	88 68	115 69	108 50	101 27	92 40	96 50			113 17	94 1.22	86 1.13	98 31	115 24.2	108 10.4	120 148	109 39.1	112 177	106 -83	110 21.1	94 -1.1	98 -2.6	88 30.8	117 33	117 47	112 1.41	106 0.59	109 0.14
BH 220025 94541422 BH 220025	15	BH 120028 BH 190026	83 68	99 73	109 53	91 29	93 41	92 52			97 18	86 1.81	95 0.77	108 42	99 17.4	109 10.6	103 112	102 34.5	97 122	96 -70	95 13.2	100 -5.8	93 -1.8	88 30.8	102 24	99 29	97 0.32	102 0.13	102 -0.20
BH 220026 94536778 BH 220026	1	WDW 150038 BH 140019	110 87	94 87	128 84	97 82	135 71	126 81	117 82	128 81	115 81	119 -0.63	81 1.36	99 33	94 15.6	128 16.1	120 148	98 31.5	112 177	109 -87	109 20.7	130 -26.0	129 -7.4	103 37.6	129 40	123 53	95 0.17	133 3.20	132 1.25
BH 220029 94536794 BH 220029	8	WDW 170173 BH 190021	102 68	81 73	109 52	114 32	101 39	101 52	89 23	99 46	86 26	102 0.64	101 0.52	84 18	81 9.8	109 10.7	100 104	81 20.7	87 85	85 -55	99 15.5	101 -6.0	102 -3.3	96 34.2	92 18	90 21	86 -0.55	110 0.99	83 -1.09
BH 220034 94536836 BH 220034	1	WDW 150038 BH 130018	107 70	75 73	89 58	121 31	84 45	82 54	66 26	77 48	67 21	106 0.35	105 0.37	80 13	75 7.5	89 4.8	79 58	72 15.2	68 14	77 -46	73 2.5	92 -0.1	83 -0.3	92 32.4	71 5	68 0	69 -1.85	102 0.11	81 -1.19
BH 220036 94536844 BH 220036	5	BH 130027 BH 170006	89 71	106 74	104 59	108 32	101 45	100 55	91 22	99 48	94 24	96 1.06	85 1.19	91 24	106 20.6	104 9.0	112 132	108 38.4	91 99	92 -65	94 12.8	93 -0.7	109 -4.2	99 35.6	92 17	91 22	92 -0.07	104 0.35	99 -0.32

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ID Number Name																													
BH 220041 94541547 BH 220041	1	WDW 150038 BH 180014	96 70	104 73	84 57	102 33	104 42	91 54	88 28	89 49	92 24	94 1.19 78	105 0.38 54	99 32 33	104 19.6 73	84 3.2 57	90 82 54	102 34.3 66	89 91 28	96 -70 25	89 10.3 30	113 -14.5 46	94 -2.0 25	100 36.1 55	93 18 31	90 21 30	89 -0.35 25	107 0.63 24	100 -0.30 23
BH 220048 94537123 BH 220048	3	WDW 170173 BH 150055	97 70	90 59	111 54	97 36	112 43	107 51	105 33	108 47	100 34	96 1.09 78	104 0.40 52	102 36 36	90 14.0 59	111 11.1 54	101 107 50	94 29.4 52	104 146 36	102 -78 28	104 18.1 38	117 -17.1 47	104 -3.5 28	99 35.7 53	109 28 38	103 34 38	105 0.85 34	100 -0.07 33	93 -0.61 32
BH 220050 94537131 BH 220050	3	WDW 170173 BH 170034	88 69	107 73	108 54	80 33	108 40	102 53	109 23	103 47	108 24	92 1.38 78	92 0.89 50	121 56 33	107 21.1 73	108 10.2 54	103 111 53	105 36.0 67	107 161 26	102 -78 19	116 23.8 27	103 -7.5 45	111 -4.5 25	101 36.5 51	113 31 28	115 45 27	105 0.91 25	110 0.98 24	97 -0.41 23
BH 220051 94537149 BH 220051	4	WDW 170173 BH 170023	97 69	114 73	99 53	90 33	100 41	99 53	105 24	100 47	107 25	99 0.85 78	97 0.71 50	111 45 33	114 23.6 73	99 7.7 53	105 116 53	111 40.0 66	105 151 28	102 -78 20	113 22.6 29	97 -3.9 46	103 -3.3 24	99 35.6 52	112 30 30	112 43 29	108 1.10 26	106 0.57 24	88 -0.84 24
BH 220062 94537222 BH 220062	1	WDW 150038 BH 170030	89 71	107 73	92 57	102 33	97 44	88 55	93 28	88 50	94 25	92 1.34 78	94 0.83 55	98 32 33	107 20.9 73	92 5.5 57	99 103 54	110 39.4 66	92 102 28	95 -69 25	94 13.0 30	104 -8.1 49	94 -1.9 26	95 33.8 56	95 19 31	93 23 30	90 -0.27 26	108 0.77 24	100 -0.28 24
BH 220065 94537255 BH 220065	1	WDW 150038 BH 150016	96 71	99 72	122 55	98 30	94 43	101 53	99 25	101 47	100 23	105 0.40 78	79 1.43 55	100 33 30	99 17.6 72	122 14.4 55	118 145 52	105 36.4 66	99 128 26	101 -77 22	100 16.0 28	94 -1.5 48	95 -2.2 24	99 35.9 56	103 24 28	101 32 28	95 0.17 24	111 0.99 22	103 -0.16 22
BH 220072 94537362 BH 220072	5	WDW 170173 BH 160032	105 58	91 59	106 51	106 33	107 39	113 47	92 26	112 43	90 30	106 0.32 62	98 0.64 49	93 26 33	91 14.0 59	106 9.8 51	101 108 48	94 29.4 50	90 95 31	88 -60 18	98 15.0 33	110 -12.7 45	104 -3.5 23	95 34.1 48	98 21 33	96 27 33	94 0.06 31	103 0.24 30	85 -1.00 29
BH 220077 96674296 BH 220077	4	WDW 170173 BH 160054	94 68	95 59	114 52	95 34	103 40	104 49	98 24	104 44	97 26	96 1.03 76	94 0.81 50	103 37 34	95 15.8 59	114 12.0 52	106 119 48	99 32.5 52	96 117 28	89 -61 19	105 18.6 30	103 -7.6 47	105 -3.6 25	93 33.2 49	102 24 30	102 33 29	93 -0.04 27	115 1.43 26	88 -0.84 25
BH 230009 97071104 BH 230009	5	BH 130027 BH 190039	99 69	100 59	111 53	107 31	90 42	105 49	103 22	106 44	104 24	104 0.44 77	88 1.05 52	91 24 31	100 18.1 59	111 11.3 53	114 137 48	99 32.2 56	102 140 26	99 -74 15	104 18.2 28	86 4.2 49	101 -3.0 25	93 32.9 51	107 27 28	106 36 28	105 0.88 25	108 0.73 24	104 -0.08 24
BH 230011 97148654 BH 230011	17	BH 130027 BH 190001	99 69	96 71	116 55	102 27	85 40	100 51	98 20	100 45	98 24	105 0.43 77	88 1.06 52	95 29 27	96 16.1 71	116 12.7 55	113 133 51	97 31.2 52	97 120 25	96 -70 13	100 15.8 27	80 8.4 46	94 -2.0 23	104 38.2 52	101 23 27	98 29 26	97 0.30 24	105 0.47 23	97 -0.41 22
BH 230012 97071112 BH 230012	4	BH 200002 BH 200013	92 66	100 59	104 44	96 27	89 34	95 45			110 20	91 1.45 77	105 0.37 43	104 37 27	100 18.0 59	104 9.2 44	102 109 43	97 31.0 46	108 162 22	101 -77 15	109 20.4 23	100 -5.9 37	84 -0.5 22	91 32.0 43	113 31 23	114 45 23	113 1.51 21	104 0.30 20	103 -0.12 20
BH 230013 97071120 BH 230013	1	WDW 150038 BH 190033	97 70	91 74	118 56	97 33	97 43	101 54	99 25	101 48	99 23	100 0.75 78	92 0.88 54	101 35 33	91 14.3 74	118 13.0 56	108 122 54	96 30.4 56	97 123 26	100 -75 22	100 16.0 28	106 -10.0 48	89 -1.2 26	98 35.1 54	105 26 29	102 33 28	96 0.19 24	110 0.92 22	99 -0.33 22

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ID Number Name																													
BH 230014 97071138 BH 230014	15	BH 200002 BH 190068	96 65	100 72	87 43	108 24	94 32	92 47			103 14	95 1.15 77	104 0.42 39	92 25 24	100 17.9 72	87 4.3 43	93 88 46	92 27.7 49	100 134 17	96 -70 13	102 17.0 17	97 -3.3 35	96 -2.3 20	93 33.0 42	105 26 18	106 36 17	105 0.91 15	107 0.64 14	106 -0.02 14
BH 230016 97071161 BH 230016	2	BH 200002 BH 200024	96 66	102 72	101 42	96 23	101 33	101 47			113 18	97 1.01 77	99 0.61 41	104 38 23	102 18.9 72	101 8.3 42	101 107 46	97 31.1 44	109 167 20	104 -80 16	111 21.2 21	103 -7.5 36	102 -3.2 20	91 32.4 44	114 31 21	116 47 21	114 1.54 19	110 0.95 17	108 0.11 17
BH 230017 97071179 BH 230017	5	BH 130027 BH 190055	94 69	86 73	113 56	114 31	101 43	101 53	81 22	98 47	88 24	98 0.93 77	93 0.86 53	85 18 31	86 12.2 73	113 11.6 56	107 121 53	87 24.9 56	80 57 26	80 -49 15	99 15.3 28	96 -3.1 50	107 -4.0 27	96 34.6 52	95 20 29	89 20 28	93 -0.04 25	132 3.06 24	108 0.10 24
BH 230019 97071088 BH 230019	1	BH 130027 BH 190028	86 71	91 73	111 57	94 34	96 44	93 55	94 22	92 48	93 26	87 1.73 78	98 0.65 55	105 38 34	91 14.2 73	111 11.1 57	100 106 55	97 31.2 56	92 103 27	91 -63 16	94 12.9 29	96 -2.9 51	100 -3.0 27	92 32.6 54	98 21 30	95 26 29	97 0.29 26	103 0.20 25	98 -0.38 24
BH 230020 97162762 BH 230020	2	WDW 150038 WDW 180100	102 70	83 73	89 55	110 34	97 41	88 54	81 27	85 49	80 24	99 0.84 78	108 0.26 54	90 23 34	83 10.8 73	89 4.7 55	81 63 54	86 24.1 48	82 65 27	92 -65 25	81 6.3 29	106 -9.9 43	91 -1.5 25	91 32.3 54	84 13 30	78 9 29	77 -1.22 25	100 -0.07 23	98 -0.40 22
BH 230021 97071096 BH 230021	1	WDW 150038 BH 200004	83 68	111 73	106 55	94 30	105 42	96 53	108 25	98 47	109 23	91 1.45 76	83 1.25 52	105 39 30	111 22.5 73	106 9.7 55	111 129 53	109 39.0 51	106 155 26	106 -83 22	109 20.6 28	104 -8.4 48	106 -3.9 24	94 33.5 53	111 29 29	110 41 28	105 0.90 24	113 1.19 22	104 -0.11 22
BH 230023 97071195 BH 230023	1	WDW 150038 BH 190021	101 70	79 73	109 56	114 34	100 42	98 54	87 26	96 48	86 23	104 0.47 78	95 0.77 53	84 18 34	79 9.1 73	109 10.5 56	98 100 54	79 19.6 56	86 81 26	90 -63 23	91 11.4 29	104 -8.1 48	98 -2.6 25	96 34.3 54	89 16 29	86 17 28	82 -0.86 24	111 1.06 22	95 -0.51 22
BH 230024 97075121 BH 230024	3	BH 200002 BH 170006	98 67	93 73	82 49	116 27	101 36	96 50			90 16	97 0.97 77	104 0.43 46	85 18 27	93 15.1 73	82 2.8 49	85 72 50	85 23.2 50	86 83 19	85 -56 15	89 10.5 20	102 -6.8 38	101 -3.0 23	96 34.3 46	87 15 20	88 19 20	91 -0.19 16	106 0.50 15	103 -0.14 15
BH 230030 97075113 BH 230030	9	BH 130027 BH 200049	92 70	106 72	108 55	98 31	99 43	101 53	102 23	101 47	102 27	97 0.97 78	89 1.04 53	101 35 31	106 20.3 72	108 10.4 55	111 129 53	108 37.9 52	101 137 28	100 -76 16	101 16.5 30	92 -0.4 50	107 -3.9 26	95 34.0 52	104 25 31	101 32 30	104 0.79 28	107 0.62 26	101 -0.23 26
BH 230033 97075188 BH 230033	6	BH 200002 BH 200055	89 65	105 71	105 42	98 22	81 33	88 47			114 20	91 1.47 77	97 0.69 39	101 35 22	105 20.2 71	105 9.4 42	108 122 45	100 33.0 46	110 171 21	103 -80 15	111 21.3 22	87 3.4 36	84 -0.4 20	93 33.0 43	116 33 22	117 48 22	116 1.69 20	109 0.84 19	112 0.28 19
BH 230034 97075196 BH 230034	1	WDW 150038 BH 140016	88 71	94 74	118 59	92 31	102 43	99 54	102 24	99 48	103 22	93 1.30 78	90 0.98 56	106 40 31	94 15.5 74	118 13.2 59	108 122 55	96 30.7 56	101 136 25	101 -76 22	102 16.8 27	111 -12.9 48	94 -2.0 26	96 34.3 55	108 28 27	107 38 27	99 0.45 22	109 0.84 21	101 -0.23 20
BH 230036 97075212 BH 230036	4	WDW 170173 BH 170023	98 69	98 73	103 53	98 33	100 40	103 53	93 24	101 47	94 25	98 0.93 78	102 0.49 50	101 35 33	98 17.0 73	103 8.8 53	100 105 53	98 31.7 53	93 107 28	93 -66 20	102 16.9 29	102 -7.0 46	98 -2.7 24	98 35.4 50	99 22 30	98 29 29	95 0.12 26	105 0.45 24	83 -1.08 24

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ID Number Name																													
BH 230039 97075022 BH 230039	5	WDW 170173 BH 160009	101 69	89 74	106 54	112 37	104 42	109 55	93 30	108 50	91 32	100 0.78 78	105 0.38 50	87 20 37	89 13.3 74	106 9.8 54	103 111 55	92 27.9 52	92 103 34	89 -61 25	97 14.7 35	111 -13.5 46	97 -2.4 28	95 34.2 51	94 19 36	93 24 35	91 -0.16 32	104 0.35 31	89 -0.84 31
BH 230043 97075055 BH 230043	4	BH 200002 BH 200007	92 66	108 73	93 46	101 27	91 35	89 49	106 20	90 43	108 20	93 1.30 77	99 0.60 42	98 32 27	108 21.3 73	93 6.0 46	101 107 49	100 33.2 46	106 155 22	101 -76 16	107 19.4 23	88 2.6 37	98 -2.6 23	94 33.5 45	106 26 24	109 39 23	110 1.25 21	105 0.45 20	106 0.01 20
BH 230045 97075071 BH 230045	1	WDW 150038 BH 200005	101 70	62 74	99 54	129 32	90 42	76 54	64 27	71 49	62 25	97 1.01 78	112 0.09 52	73 6 32	62 2.2 74	99 7.7 54	80 60 53	73 15.4 52	64 -2 28	73 -41 24	66 -1.0 30	105 -9.1 48	81 0.0 26	93 33.2 53	67 2 31	59 -10 30	60 -2.50 26	103 0.25 24	88 -0.87 24
BH 230046 97075089 BH 230046	1	WDW 150038 BH 190054	79 70	123 74	86 55	95 32	87 41	71 54	108 24	74 48	111 21	84 1.96 78	90 0.98 52	106 40 32	123 27.5 74	86 3.7 55	103 110 54	115 42.4 55	107 160 25	107 -85 23	109 20.7 27	95 -1.9 47	85 -0.5 24	99 35.7 53	114 31 27	114 44 26	109 1.15 22	110 0.97 20	105 -0.04 20
BH 230047 97075105 BH 230047	3	WDW 170173 BH 170008	92 69	87 73	98 54	110 36	101 41	93 54	86 29	91 49	84 31	90 1.50 78	105 0.37 51	89 22 36	87 12.7 73	98 7.4 54	93 90 54	87 24.5 54	83 70 33	79 -49 24	93 12.6 34	109 -11.9 46	93 -1.8 27	98 35.1 50	90 16 35	88 19 34	85 -0.61 32	108 0.71 30	87 -0.90 30
BH 230049 97075238 BH 230049	1	WDW 150038 BH 160006	87 71	104 74	101 58	98 33	93 44	89 55	97 26	89 49	97 22	90 1.49 78	92 0.89 55	101 35 33	104 19.5 74	101 8.3 58	103 112 55	101 33.5 55	97 121 26	100 -75 24	98 15.0 28	106 -9.6 49	83 -0.3 27	100 36.2 56	104 25 29	102 32 28	94 0.08 23	105 0.49 22	98 -0.38 21
BH 230052 97075246 BH 230052	1	WDW 150038 BH 170030	92 71	99 74	92 57	104 33	97 43	91 55	90 28	90 50	90 25	93 1.27 78	97 0.68 55	96 29 33	99 17.4 74	92 5.5 57	94 91 55	101 33.9 60	89 91 28	93 -66 25	92 11.7 30	105 -9.0 49	92 -1.7 26	92 32.7 55	92 17 31	89 20 30	87 -0.50 26	108 0.74 24	99 -0.34 24
BH 230053 97148779 BH 230053	3	WDW 170173 BH 180055	95 68	99 73	94 52	103 31	95 39	94 52	90 24	92 46	90 24	94 1.24 77	105 0.35 49	97 30 31	99 17.5 73	94 6.2 52	96 95 52	99 32.6 58	89 94 26	88 -59 19	99 15.4 28	105 -9.0 45	87 -0.9 23	100 36.3 50	99 22 28	96 27 28	91 -0.17 25	104 0.35 24	83 -1.10 24
BH 230054 97148001 BH 230054		BH 200060	103 60	87 65	109 36	108 17	71 26	95 41			102 16	103 0.55 72	101 0.53 33	90 24 17	87 12.3 65	109 10.6 36	102 108 39	85 23.1 42	108 162 16	95 -69 11	111 21.4 17	66 17.8 30	98 -2.6 16	63 19.7 32	110 29 17	100 31 17	91 -0.17 16	95 -0.55 15	95 -0.55 15
BH 230055 97075253 BH 230055	2	BH 200002 BH 210031	101 65	101 70	101 44	99 22	98 32	104 46			110 18	102 0.64 77	100 0.57 40	100 33 22	101 18.3 70	101 8.3 44	102 109 45	97 31.0 46	108 162 20	101 -76 15	112 21.7 21	100 -5.7 35	100 -2.9 19	91 32.4 42	113 31 21	115 45 21	110 1.27 19	110 0.94 18	102 -0.19 18
BH 230061 97147417 BH 230061	3	BH 130027 BH 150021	95 72	114 73	97 58	99 34	101 46	97 55	98 29	97 50	103 31	95 1.16 78	102 0.49 58	100 34 34	114 23.7 73	97 7.2 58	108 123 55	110 39.3 55	100 132 34	103 -78 22	97 14.4 36	97 -3.4 52	105 -3.7 30	99 35.6 55	107 27 36	103 34 36	105 0.89 32	104 0.35 30	103 -0.13 30
BH 230069 97075337 BH 230069	1	WDW 150038 BH 170057	91 70	98 73	104 55	109 33	93 42	99 54	92 24	98 48	93 21	95 1.14 78	93 0.87 54	89 23 33	98 17.0 73	104 9.0 55	106 118 54	102 34.4 58	92 102 24	95 -69 22	94 12.8 27	108 -10.8 48	84 -0.5 24	90 31.9 54	98 21 27	94 25 26	89 -0.33 22	110 0.93 20	98 -0.41 20

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BH 230071 97075345 BH 230071	11	BH 130027 BH 170022	94 71	102 73	120 57	100 28	83 43	95 53			102 23	97 0.98 78	94 0.80 55	97 31 28	102 18.8 73	120 13.8 57	120 149 53	104 35.4 60	101 135 24	99 -73 12	100 15.8 26	87 3.2 50	85 -0.6 25	97 34.9 54	108 27 27	103 34 26	102 0.62 24	104 0.30 22	102 -0.18 22	
BH 230072 97074967 BH 230072		BH 130027 BH 140048	98 70	95 73	113 59	115 34	94 45		109 55	92 28	107 50	91 31	100 0.77 76	95 0.76 57	83 17 34	95 15.8 73	113 11.6 59	115 138 55	100 33.1 61	90 97 33	91 -63 22	90 11.2 35	93 -0.9 51	99 -2.7 30	91 32.1 55	99 22 35	95 26 35	91 -0.17 32	100 -0.06 30	103 -0.13 30
BH 230074 97074983 BH 230074		WDW 150038 BH 160054	89 69	102 61	110 56	92 36	102 44		100 52	102 27	101 47	102 24	95 1.10 76	86 1.12 55	107 41 36	102 18.9 61	110 10.9 56	107 120 51	105 36.3 54	100 134 28	99 -74 24	102 16.9 30	104 -8.3 50	102 -3.2 27	92 32.5 54	105 25 30	104 35 30	94 0.09 25	116 1.56 24	103 -0.15 23
BH 230075 97075006 BH 230075	4	BH 200002 BH 130057	108 67	91 60	96 48	104 27	93 37	102 47	103 20	102 42	103 22	106 0.34 76	107 0.30 47	96 29 27	91 14.1 60	96 6.8 48	91 85 45	87 24.5 50	103 145 24	99 -74 16	104 17.7 25	100 -5.6 38	92 -1.6 25	91 32.0 47	103 24 25	104 35 24	105 0.87 22	104 0.31 21	102 -0.21 21	
BH 240007 98695786 BH 240007	2	BH 130027 BH 210014	93 70	113 57	99 53	94 30	107 42	99 49	99 24	99 44	107 26	93 1.28 78	100 0.55 53	106 40 30	113 23.2 57	99 7.5 53	106 117 47	109 38.9 52	102 141 28	110 -88 18	97 14.5 30	99 -4.9 50	113 -4.9 26	97 35.1 51	110 29 31	106 37 30	106 0.93 27	112 1.11 26	107 0.03 25	
BH 240010 98555923 BH 240010	5	BH 200002 BH 210046	98 64	96 57	95 37	102 22	96 31	98 42			104 18	96 1.04 76	106 0.33 38	97 31 22	96 16.1 57	95 6.6 37	94 91 39	90 26.3 48	102 140 19	96 -70 14	109 20.2 20	98 -4.4 35	98 -2.6 18	91 32.3 41	108 28 20	109 39 20	106 0.99 18	109 0.80 17	100 -0.31 17	
BH 240013 98555956 BH 240013	3	WDW 210106 BH 210040	75 65	126 72	106 43	84 24	86 33	81 47	121 22	86 42	119 20	81 2.14 76	85 1.17 41	117 51 24	126 29.1 72	106 9.7 43	117 142 46	131 53.0 50	118 200 22	113 -92 20	117 24.4 25	87 3.4 39	93 -1.9 19	88 31.0 42	125 38 25	124 54 24	124 2.31 21	89 -1.13 19	100 -0.29 19	
BH 240016 98620925 BH 240016	4	WDW 210106 BH 190050	87 66	115 72	86 43	89 28	95 34	83 49	106 24	85 44	104 22	91 1.44 77	92 0.89 43	113 47 28	115 24.5 72	86 3.9 43	95 93 48	118 44.6 50	104 149 23	102 -78 22	102 17.0 26	93 -0.9 39	104 -3.6 19	80 27.3 44	106 26 27	104 35 26	109 1.18 23	91 -0.96 21	100 -0.29 20	
BH 240018 98555972 BH 240018	2	WDW 210106 BH 210039	87 65	124 72	93 43	93 25	93 34	86 48	113 24	88 43	111 23	93 1.28 76	86 1.13 40	108 41 25	124 28.2 72	93 5.9 43	109 125 47	128 51.1 50	112 180 24	110 -89 22	109 20.3 27	89 2.1 39	103 -3.4 20	88 31.0 42	115 32 27	112 42 27	114 1.53 24	87 -1.30 22	102 -0.21 22	
BH 240019 98621584 BH 240019	3	WDW 210106 BH 210085	86 64	126 71	99 42	91 24	84 32	84 47	118 22	88 42	117 20	92 1.35 76	87 1.11 39	109 43 24	126 29.1 71	99 7.5 42	115 137 46	128 51.2 46	116 191 21	112 -90 20	114 23.0 24	81 7.7 38	97 -2.4 18	87 30.6 41	121 35 25	119 49 24	120 2.05 21	91 -0.94 19	101 -0.26 19	
BH 240026 98556103 BH 240026	5	BH 130027 BH 210050	91 68	91 73	112 54	112 30	93 42	99 53	86 24	97 47	85 26	93 1.25 77	95 0.77 50	86 19 30	91 14.1 73	112 11.5 54	110 127 52	97 30.8 62	84 74 28	84 -54 17	91 11.5 30	95 -2.1 50	94 -2.0 25	96 34.6 51	90 16 30	86 17 30	85 -0.59 27	107 0.69 26	91 -0.72 26	
BH 240030 98556145 BH 240030	4	WDW 210106 BH 210054	84 65	128 72	88 42	92 26	96 33	81 48	114 24	84 43	114 21	88 1.63 77	89 1.00 39	110 44 26	128 29.8 72	88 4.4 42	107 120 47	131 52.9 50	111 175 23	110 -88 22	111 21.5 25	94 -1.3 38	103 -3.4 18	87 30.5 42	115 32 26	114 45 25	114 1.58 22	94 -0.59 20	102 -0.19 19	

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ID Number Name																													
BH 240042 98618929 BH 240042	3	WDW 210106 BH 200049	85 66	118 71	85 44	91 27	100 33	82 48	109 24	84 43	107 23	87 1.71 77	95 0.77 41	111 45 27	118 25.5 71	85 3.5 44	97 97 47	118 44.6 46	108 162 24	107 -84 22	105 18.3 27	97 -3.9 38	107 -4.0 20	86 29.8 42	109 28 28	107 38 27	114 1.54 24	90 -1.07 22	99 -0.36 22
BH 240043 98618978 BH 240043	5	WDW 210106 BH 200005	89 66	109 72	80 44	103 26	81 34	74 48	98 24	75 43	95 23	87 1.71 77	105 0.38 41	98 32 26	109 21.9 72	80 2.3 44	91 86 47	113 41.3 48	96 119 24	99 -74 22	94 12.9 27	82 6.9 39	91 -1.5 21	86 30.1 42	100 22 27	94 25 26	101 0.59 24	84 -1.67 22	94 -0.59 21
BH 240045 98556053 BH 240045	3	WDW 210106 BH 210017	83 85	101 85	100 80	103 78	102 66	93 77	95 78	93 77	93 78	90 1.52 87	85 1.16 80	96 30 78	101 18.4 85	100 8.0 80	103 111 81	103 34.6 58	93 106 78	94 -67 78	94 13.2 78	91 0.9 39	119 -5.8 78	81 27.6 80	97 21 78	95 26 78	101 0.56 78	88 -1.24 78	93 -0.62 78
BH 240050 98555758 BH 240050	3	BH 200002 BH 210028	103 86	88 87	100 82	114 80	80 66	95 79	101 80	95 79	100 80	97 1.02 88	115 -0.05 82	85 19 80	88 13.1 87	100 7.9 82	97 98 83	90 26.8 62	100 133 80	86 -57 80	111 21.3 80	83 5.9 35	85 -0.6 80	95 34.0 82	102 24 81	107 38 80	111 1.34 80	107 0.62 80	98 -0.40 80
BH 240051 98556236 BH 240051	2	BH 200002 WDW 180114	107 67	87 73	84 45	115 28	79 33	86 49	86 22	84 44	86 20	104 0.45 78	107 0.27 44	85 19 28	87 12.4 73	84 3.3 45	81 63 49	85 23.2 50	85 77 22	82 -52 19	86 9.1 24	91 0.6 32	78 0.4 22	86 30.1 44	91 17 24	90 21 23	91 -0.18 20	102 0.13 19	104 -0.10 18
BH 240052 98555766 BH 240052	4	BH 130027 BH 180028	91 70	90 74	102 56	114 30	86 43	93 54	82 24	90 48	81 26	92 1.39 78	101 0.54 54	85 18 30	90 13.7 74	102 8.6 56	101 106 53	94 29.4 60	82 64 27	87 -58 18	82 6.9 30	92 0.2 50	87 -1.0 25	94 33.4 54	88 15 30	81 12 29	81 -0.91 26	103 0.21 25	95 -0.53 24
BH 240053 98555774 BH 240053	3	WDW 210106 BH 210037	85 65	122 72	94 43	92 23	93 33	85 47	114 22	88 42	112 20	90 1.48 77	87 1.08 40	109 43 23	122 27.3 72	94 6.3 43	108 123 46	120 46.0 50	111 176 22	108 -86 20	112 21.9 24	87 3.3 39	106 -3.8 18	85 29.7 41	116 32 25	114 45 24	117 1.81 21	90 -1.00 19	98 -0.37 19
BH 240056 98555790 BH 240056	2	BH 200002 BH 200024	103 66	94 58	105 41	98 23	101 33	109 44			109 18	104 0.46 77	99 0.62 41	101 35 23	94 15.4 58	105 9.3 41	99 102 41	90 26.6 44	106 155 20	102 -77 16	107 19.7 21	104 -8.7 36	100 -3.0 20	90 31.8 42	111 29 21	113 43 21	110 1.27 19	110 0.92 17	107 0.05 17
BH 240057 98555808 BH 240057	8	BH 130027 BH 160028	100 71	106 61	108 56	98 30	81 44	98 51	99 22	97 45	102 24	103 0.55 78	94 0.81 56	101 35 30	106 20.7 61	108 10.1 56	111 129 49	107 37.5 54	99 131 27	103 -79 16	99 15.3 30	75 11.6 52	93 -1.9 27	100 36.0 53	104 25 30	102 32 29	103 0.70 25	104 0.31 24	98 -0.38 23
BH 240059 98555824 BH 240059	3	WDW 210106 BH 190033	83 66	128 73	101 46	83 27	88 34	85 49	123 22	90 44	122 20	88 1.64 77	89 1.02 43	119 53 27	128 29.9 73	101 8.3 46	114 136 49	129 51.8 52	120 209 22	115 -94 20	119 25.6 25	87 3.6 39	96 -2.3 21	91 32.1 42	128 40 25	127 57 24	127 2.51 21	89 -1.10 19	101 -0.24 19
BH 240060 98555832 BH 240060	7	BH 200002 BH 200004	92 65	97 73	102 45	104 20	94 33	97 47			105 16	94 1.23 76	96 0.72 41	95 28 20	97 16.7 73	102 8.7 45	102 110 46	91 27.1 54	102 142 19	97 -72 12	106 18.8 20	94 -1.5 36	99 -2.8 19	90 31.7 43	108 28 20	108 39 19	108 1.09 17	109 0.86 16	105 -0.04 16
BH 240065 98555873 BH 240065	2	BH 130027 BH 200063	97 70	97 73	113 56	106 30	96 43	106 53	95 24	105 47	95 26	103 0.56 78	88 1.06 53	92 25 30	97 16.8 73	113 11.6 56	113 133 53	104 35.5 60	93 106 28	94 -67 18	96 13.9 30	98 -4.0 50	98 -2.5 26	96 34.6 53	97 21 31	94 25 30	92 -0.06 27	109 0.87 26	100 -0.31 25

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ID Number Name																													
BH 240068 98555899 BH 240068	1	WDW 150038 BH 160006	91 71	87 74	106 58	108 33	93 44	92 55	83 26	90 49	82 22	93 1.29 78	96 0.72 55	90 24 33	87 12.4 74	106 9.6 58	99 102 55	87 24.6 61	83 70 26	89 -61 24	85 8.6 28	111 -13.1 49	79 0.4 27	99 35.6 56	90 16 29	86 17 28	79 -1.04 23	104 0.35 22	92 -0.66 21
BH 240073 98559578 BH 240073		WDW 200023 BH 170008	93 68	112 74	95 53	99 33	104 38	95 53	98 32	95 49	100 38	94 1.22 78	98 0.63 47	101 34 33	112 22.9 74	95 6.4 53	104 114 53	113 41.2 54	96 117 40	95 -68 21	104 18.1 44	101 -6.3 41	104 -3.5 26	104 38.0 48	106 26 44	103 34 43	99 0.46 40	103 0.28 37	104 -0.12 36
BH 240076 98559545 BH 240076		WDW 200023 BH 170057	95 68	112 73	104 51	103 28	98 35	101 51	99 24	101 46	102 33	97 1.01 78	96 0.74 45	96 30 28	112 23.2 73	104 9.1 51	115 137 51	120 46.0 52	98 127 33	99 -74 11	106 19.2 37	99 -5.2 38	97 -2.5 20	101 36.4 47	109 28 38	105 36 37	100 0.49 34	104 0.36 32	99 -0.34 30
BH 240082 98556160 BH 240082	4	WDW 210106 BH 210079	85 65	127 71	82 41	86 27	83 33	72 48	112 24	75 43	111 22	89 1.61 77	91 0.93 40	117 51 27	127 29.4 71	82 2.6 41	98 101 46	129 51.9 46	111 173 23	108 -86 22	107 19.6 26	78 9.9 38	100 -2.9 19	82 28.1 42	113 30 27	111 42 26	117 1.81 23	87 -1.29 21	104 -0.10 20
BH 240083 98556178 BH 240083	4	WDW 210106 BH 190054	74 66	134 73	77 45	93 26	79 33	60 49	112 21	63 43	113 18	78 2.39 77	91 0.92 42	109 43 26	134 32.1 73	77 1.4 45	103 111 48	129 51.8 52	111 175 20	108 -86 20	111 21.2 23	83 6.4 37	84 -0.5 20	92 32.6 42	117 33 23	116 47 22	119 1.90 19	88 -1.25 17	99 -0.34 17
BH 240087 98620875 BH 240087	2	BH 130027 JNP 210002	94 68	98 56	104 52	101 29	82 39	93 47	99 23	93 42	97 26	96 1.06 75	96 0.73 52	97 31 29	98 17.3 56	104 9.2 52	104 113 46	101 33.6 47	99 129 27	101 -76 17	98 15.1 29	82 7.1 45	90 -1.4 23	93 33.3 50	103 25 29	97 28 28	96 0.19 26	96 -0.42 25	98 -0.37 24

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			Calving Ease Value	Calf Growth Value	Milk Value	Maint. Value	Fertility Value	Cow Value	Growth Value	Prod Value										
Sorted on ID							nt821	Q204X	F94L	Genomic tested	Acc	Acc	Acc	Acc	Acc	Acc	Acc										
											★★★★★																
1	BH 220070	BH 220070	BH 130027	BH 130046	3.2						100	70	96	61	105	59	116	29	96	45	110	51	91	20	108	45	
2	BH 240064	BH 240064	BH 200002	BH 140019	2.8						106	69	88	74	111	51	97	27	112	36	112	51					
3	BH 240078	BH 240078	WDW 200023	BH 170022	0.3						109	68	120	73	107	50	85	25	98	35	112	50	117	24	114	45	
											★★★★☆																
1	BH 230026	BH 230026	BH 130027	BH 190025	2.2						94	70	100	72	103	56	102	30	98	42	100	53	96	24	99	47	
2	BH 230029	BH 230029	BH 200002	BH 200037	6.3						109	66	90	73	90	44	109	26	101	35	103	49					
3	BH 230032	BH 230032	BH 200002	BH 200011	5.1						110	66	90	72	107	44	93	27	89	35	105	49	103	20	105	43	
4	BH 230035	BH 230035	WDW 150038	BH 140019	0.6						91	71	106	75	114	59	85	35	123	45	109	56	115	27	111	50	
5	BH 230040	BH 230040	WDW 150038	BH 190041	1.4						104	70	84	74	105	55	109	32	104	43	104	54	94	27	103	49	
6	BH 230048	BH 230048	WDW 170173	BH 150055	2.7						98	70	87	73	112	55	97	36	112	42	104	55	104	33	105	51	
7	BH 230060	BH 230060	BH 200002	BH 200045	5.3						103	66	93	72	103	44	101	21	88	34	102	47					
8	BH 230062	BH 230062	BH 130027	BH 180031	6.9						100	71	101	73	105	57	105	31	90	44	103	54	102	23	103	48	
9	BH 230064	BH 230064	BH 130027	JNP 170001	9.3						99	87	90	85	128	84	102	82	105	71	107	80	101	82	107	80	
10	BH 230073	BH 230073	BH 130027	BH 160032	15.1						100	69	100	61	116	57	103	32	96	43	107	51	100	23	107	45	
11	BH 240028	BH 240028	BH 130027	BH 190025	2.2						98	70	96	72	104	56	105	30	98	42	104	53	91	24	103	47	
12	BH 240054	BH 240054	BH 200002	WDW 200133	0.9						106	66	96	73	104	43	96	27	92	33	106	49	113	21	108	43	
13	BH 240063	BH 240063	BH 200002	BH 190041	7.2						108	66	88	73	98	45	111	23	93	34	103	48					
14	BH 240066	BH 240066	BH 200002	JNP 190101	15.5						112	64	89	71	98	42	103	23	84	31	100	46					
15	BH 240081	BH 240081	WDW 200023	BH 200070	0.2						102	67	107	72	102	48	99	25	98	35	104	49	103	25	104	44	
16	BH 240084	BH 240084	BH 130027	BH 210031	6.2						96	70	100	73	123	55	98	29	99	42	104	53	107	22	105	47	
											★★★★																
1	BH 230015	BH 230015	BH 200002	BH 200063	5.6						102	66	87	71	93	45	108	24	96	33	94	48	98	20	94	42	
2	BH 230031	BH 230031	BH 130027	BH 200003	14.8						106	69	89	72	102	55	107	28	77	42	94	52	92	22	93	46	
3	BH 230044	BH 230044	BH 130027	BH 170034	5.8						92	71	96	74	124	59	84	32	97	45	99	55	106	21	100	48	
4	BH 230057	BH 230057	BH 200002	BH 210014	6.3						101	66	101	69	80	42	100	23	106	33	94	47	94	20	94	42	
5	BH 230058	BH 230058	BH 200002	BH 160028	7.1						112	86	101	87	93	82	101	80	83	67	99	79	98	80	98	79	
6	BH 230059	BH 230059	BH 200002	BH 150016	3.1						100	68	94	72	112	46	98	21	83	34	99	48					
7	BH 230063	BH 230063	BH 200002	BH 190029	4.4						106	66	89	72	88	45	96	27	98	34	94	49					

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	Calving Ease Value	Calf Growth Value	Milk Value	Maint. Value	Fertility Value	Cow Value	Growth Value	Prod Value									
Sorted on ID				% Inbreeding	nt821	Q204X	F94L	Genomic tested	Acc	Acc	Acc	Acc	Acc	Acc	Acc	Acc	Acc									
									★★★★																	
8	BH 230067	BH 230067	WDW 150038	BH 180008	25.4					89	70	105	73	99	56	92	31	97	42	92	53	100	26	92	48	
9	BH 230068	BH 230068	BH 200002	BH 200070	6.3					101	66	94	55	95	42	111	21	82	32	95	42					
10	BH 230070	BH 230070	WDW 150038	JNP 180001	26.0					99	69	91	56	99	48	101	32	100	40	99	48	95	28	99	44	
11	BH 230076	BH 230076	BH 130027	BH 190044	7.1					92	70	105	73	114	56	104	32	88	44	97	54	107	22	98	48	
12	BH 240011	BH 240011	BH 200002	BH 200013	3.9	PcPc	0	0	0	96	66	104	72	104	45	91	27	89	34	97	49					
13	BH 240015	BH 240015	WDW 210106	BH 190021	2.5					94	66	113	72	94	46	96	27	91	34	90	49	114	22	93	44	
14	BH 240025	BH 240025	BH 200002	BH 170034	3.2					101	67	83	73	107	49	92	26	96	35	95	50					
15	BH 240031	BH 240031	BH 200002	BH 210016	3.2					98	65	94	72	88	42	105	22	89	32	91	47					
16	BH 240034	BH 240034	BH 200002	BH 210051	3.4					104	65	90	57	96	38	104	23	94	32	99	42					
17	BH 240038	BH 240038	WDW 210106	BH 190055	2.8					92	66	100	72	90	45	103	28	103	33	93	49	91	22	92	44	
18	BH 240039	BH 240039	WDW 210106	BH 210060	3.5					100	65	104	71	89	42	98	25	88	31	91	47	106	22	92	42	
19	BH 240061	BH 240061	BH 200002	BH 200045	5.3					101	66	99	72	100	44	97	21	88	33	98	47					
20	BH 240062	BH 240062	BH 200002	BH 160009	9.0					104	68	82	74	99	50	117	31	92	37	95	52	95	25	94	47	
21	BH 240067	BH 240067	BH 130027	WDW 180100	2.6					101	71	96	74	99	56	104	32	86	42	98	54	96	24	97	48	
22	BH 240070	BH 240070	WDW 150038	BH 200007	0.8					90	70	113	74	99	55	93	35	101	43	95	55	109	28	97	50	
23	BH 240075	BH 240075	WDW 200023	BH 180031	0.2					106	86	112	87	86	83	107	81	95	68	98	80	97	80	98	80	
24	BH 240079	BH 240079	BH 130027	BH 200003	14.8					102	69	87	72	103	55	110	28	76	41	91	52	88	22	89	46	
25	BH 240085	BH 240085	BH 200002	BH 200071	2.5					86	66	115	72	102	44	91	23	100	33	94	48					
26	BH 240088	BH 240088	WDW 210106	BH 210084	2.1					99	63	112	54	105	39	90	23	82	33	97	42	112	22	99	38	
										★★★★☆																
1	BH 200002	GEORGE BUSH 2002	BH 140002	BH 140059	2.2	PcH	0	0	0	104	79	92	90	86	53	105	31	81	42	89	59	108	25	91	52	
2	BH 230022	BH 230022	BH 200002	BH 180014	8.5					99	67	111	72	73	47	98	24	93	33	81	48	103	20	83	42	
3	BH 230025	BH 230025	BH 200002	WDW 180114	2.4					104	67	89	73	83	45	111	28	80	33	85	49	92	22	84	44	
4	BH 240012	BH 240012	WDW 150038	BH 180014	1.3					105	70	76	73	90	57	115	33	104	42	89	54	70	28	84	49	
5	BH 240014	BH 240014	WDW 210106	BH 210011	3.6					81	64	136	72	99	42	77	24	84	33	81	47	132	22	87	42	
6	BH 240024	BH 240024	WDW 210106	BH 170030	3.5					91	67	105	73	84	48	100	27	89	36	80	50	98	25	81	45	
7	BH 240037	BH 240037	WDW 210106	BH 150021	1.8					94	69	125	72	74	47	90	30	103	37	83	51	108	30	85	47	
8	BH 240046	BH 240046	WDW 210106	BH 170023	3.6					92	67	126	73	88	48	83	29	90	36	84	50	116	24	87	45	
9	BH 240047	BH 240047	BH 200002	BH 180055	3.9					102	66	85	73	88	47	110	24	83	35	83	49					
10	BH 240048	BH 240048	BH 200002	BH 210034	5.0	PcPc	0	0	0	90	65	100	73	99	44	101	22	83	33	87	47					

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				Calving Ease Value	Calf Growth Value	Milk Value	Maint. Value	Fertility Value	Cow Value	Growth Value	Prod Value									
Sorted on ID							nt821	Q204X	F94L	Genomic tested	Acc	Acc	Acc	Acc	Acc	Acc	Acc	Acc									
										★★★★																	
11	BH 240069	BH 240069	WDW 210106	BH 210062	3.1						99	53	105	72	87	43	98	25	89	33	89	45	98	23	89	41	
12	BH 240072	BH 240072		BH 190001	0.0						104	36	86	31	95	33	110	12	71	19	88	25					
13	BH 240086	BH 240086	WDW 210106	JNP 210009	2.6						92	65	115	71	87	42	89	25	92	30	85	47	116	24	89	42	
14	WDW 230133	CHESLIN	WDW 190062	WDW 200009	2.2						102	67	83	51	84	41	109	36	95	35	84	45	81	27	81	41	
										★★★★																	
1	BH 240033	BH 240033	WDW 210106	WDW 200009	3.6						92	66	111	57	77	41	100	34	92	35	78	46	98	28	79	42	
2	BH 240041	BH 240041	BH 200002	BH 190028	1.5						99	66	64	73	96	47	105	28	96	35	70	50					
3	BH 240091	BH 240091	WDW 210106	BH 210048	3.2						83	63	121	57	95	38	90	24	76	33	75	42	110	22	78	38	
										★★★★																	
1	WDW 210106	JOHNTY	WDW 170149	WDW 160043	9.4	PcPc	0	0	0		82	78	138	88	77	52	82	37	86	43	69	60	126	38	74	56	

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	BH 220026	BH 220026	WDW 150038	BH 140019	0.6					110	87	94	87	128	84	97	82	135	71	126	81	117	82	128	81
										★★★★★															
1	BH 190041	ULYSSES 941	BH 130027	BH 140044	3.9	PcPc	0	0	0	104	78	85	75	109	71	121	35	104	52	111	60	91	28	109	54
2	BH 200037	REBA 2037	BH 100032	BH 130017	1.1					114	75	82	75	97	69	119	41	118	54	114	61	77	30	109	55
3	BH 210031	BH 210031	WDW 170173	BH 120052	2.8	PcH	0	0	0	102	75	95	75	121	68	101	31	116	46	117	57	99	26	117	51
4	BH 210039	BH 210039	BH 130027	BH 150056	2.8					101	73	95	73	114	66	110	34	101	50	113	57	92	28	111	51
5	BH 220072	BH 220072	WDW 170173	BH 160032	5.4					105	58	91	59	106	51	106	33	107	39	113	47	92	26	112	43
										★★★★★															
1	BH 170034	CAROLINE 170034	BH 120026	PJB 090106	0.5	PcH	0	0	0	91	81	90	80	123	80	74	42	110	55	101	65	98	22	101	56
2	BH 190044	PHYLLIDA 944	BH 120026	BH 120052	3.7	PcH	0	0	0	96	77	112	78	102	72	109	43	93	53	100	63	105	26	101	56
3	BH 200004	FRECKLES 2004	BH 130027	BH 140001	6.1	PcH	0	0	0	86	68	103	76	120	71	102	27	106	49	102	56	101	20	102	49
4	BH 200045	GRACE 2045	BH 130027	BH 160014	8.0	PcPc	0	0	0	99	75	98	67	118	69	98	30	94	49	103	55	106	22	103	48
5	BH 200049	FREE SPIRIT 2049	JR 130005	BH 160004	1.5	PcH	0	0	0	92	75	97	67	94	69	100	39	114	49	100	58	92	28	99	52
6	BH 200063	CAROLINE 2063	WDW 150038	BH 140046	1.5	PcH	0	0	0	97	76	87	68	98	70	110	36	110	50	101	58	89	32	99	53
7	BH 200070	SUZETTE 2070	BH 130027	BH 130046	3.2	PcH	0	0	0	98	76	96	65	104	66	116	29	83	48	101	54	90	20	99	47
8	BH 200071	REBA 2071	BH 130027	PJB 090092	0.2					91	76	110	66	127	67	93	33	119	50	106	56	109	22	107	49
9	BH 210017	BH 210017	BH 130027	BH 140019	14.0					97	74	83	75	138	67	104	32	109	49	100	57	94	23	99	50
10	BH 210024	BH 210024	WDW 170173	BH 180014	3.6					102	69	95	71	87	52	106	31	115	43	104	52	83	26	101	47
11	BH 210037	BH 210037	BH 130027	BH 140001	6.1					94	73	98	74	115	66	105	27	100	48	106	56	97	20	105	49
12	BH 210046	BH 210046	WDW 170173	BH 160014	5.5					93	71	99	70	105	51	99	31	110	44	105	52	100	24	105	46
13	BH 210051	BH 210051	WDW 170173	BH 130057	11.2	PcH	0	0	0	104	72	88	72	107	54	104	33	107	46	109	54	93	26	108	48
14	BH 210054	BH 210054	WDW 150038	BH 170016	1.3					95	72	104	73	103	63	104	35	106	48	105	57	98	28	105	51
15	BH 210084	BH 210084	BH 130027	BH 120033	4.5					111	74	88	62	132	59	98	29	79	48	100	52	99	20	99	46
16	BH 220012	BH 220012	BH 120028	BH 190055	3.0					89	68	98	72	114	53	109	27	103	41	105	51				
17	BH 220029	BH 220029	WDW 170173	BH 190021	8.0					102	68	81	73	109	52	114	32	101	39	101	52	89	23	99	46
18	BH 220036	BH 220036	BH 130027	BH 170006	5.1	PcH	0	0	0	89	71	106	74	104	59	108	32	101	45	100	55	91	22	99	48
19	BH 220048	BH 220048	WDW 170173	BH 150055	2.7					97	70	90	59	111	54	97	36	112	43	107	51	105	33	108	47
20	BH 220050	BH 220050	WDW 170173	BH 170034	3.4					88	69	107	73	108	54	80	33	108	40	102	53	109	23	103	47

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				Calving Ease Value	Calf Growth Value	Milk Value	Maint. Value	Fertility Value	Cow Value	Growth Value	Prod Value	
Sorted on ID							nt821	Q204X	F94L	Genomic tested	Acc	Acc	Acc	Acc	Acc	Acc	Acc	Acc	
											★★★★★								
21	BH 220065	BH 220065	WDW 150038	BH 150016	0.8						9671	9972	12255	9830	9443	10153	9925	10147	
22	BH 220077	BH 220077	WDW 170173	BH 160054	4.2						9468	9559	11452	9534	10340	10449	9824	10444	
23	BH 230009	BH 230009	BH 130027	BH 190039	5.2						9969	10059	11153	10731	9042	10549	10322	10644	
24	BH 230011	BH 230011	BH 130027	BH 190001	17.4						9969	9671	11655	10227	8540	10051	9820	10045	
25	BH 230013	BH 230013	WDW 150038	BH 190033	1.2						9770	9174	11856	9733	9743	10154	9925	10148	
26	BH 230016	BH 230016	BH 200002	BH 200024	2.4						9666	10272	10142	9623	10133	10147			
27	BH 230017	BH 230017	BH 130027	BH 190055	4.8						9469	8673	11356	11431	10143	10153	8122	9847	
28	BH 230030	BH 230030	BH 130027	BH 200049	8.9						9270	10672	10855	9831	9943	10153	10223	10147	
29	BH 230036	BH 230036	WDW 170173	BH 170023	3.7						9869	9873	10353	9833	10040	10353	9324	10147	
30	BH 230039	BH 230039	WDW 170173	BH 160009	5.1						10169	8974	10654	11237	10442	10955	9330	10850	
31	BH 230055	BH 230055	BH 200002	BH 210031	2.2						10165	10170	10144	9922	9832	10446			
32	BH 230072	BH 230072	BH 130027	BH 140048	0.9						9870	9573	11359	11534	9445	10955	9228	10750	
33	BH 230074	BH 230074	WDW 150038	BH 160054	1.3						8969	10261	11056	9236	10244	10052	10227	10147	
34	BH 230075	BH 230075	BH 200002	BH 130057	3.6						10867	9160	9648	10427	9337	10247	10320	10242	
35	BH 240056	BH 240056	BH 200002	BH 200024	2.4						10366	9458	10541	9823	10133	10944			
36	BH 240065	BH 240065	BH 130027	BH 200063	2.2						9770	9773	11356	10630	9643	10653	9524	10547	
37	BH 240076	BH 240076	WDW 200023	BH 170057	0.3						9568	11273	10451	10328	9835	10151	9924	10146	
38	JNP 190101	JNP 190101	BH 130027	BH 140059	2.8						10366	9163	10862	10334	8543	10252	10128	10247	
											★★★★								
1	BH 190021	CAROLINE 921	BH 130027	BH 110083	5.1	HH	0	0	0		10678	7377	11575	12839	9652	9962	8421	9654	
2	BH 190025	BH 190025	WDW 150038	BH 150021	1.6	PcH	0	0	0		9977	10366	8069	10236	11346	9557	8932	9352	
3	BH 190033	KISMET 933	BH 130027	BH 110110	3.4	PcPc	0	0	0		8678	9979	13075	9338	9052	9162	10620	9354	
4	BH 200007	REBA 2007	BH 100032	BH 170006	8.4	PcPc	0	0	0		9077	11277	10573	10044	10054	9963	9930	9956	
5	BH 200011	SILK 2011	BH 100032	BH 160054	9.5						9288	9887	11886	8082	9477	9882	10282	9982	
6	BH 200013	KISMET 2013	BH 100032	BH 110110	1.3	PcPc	0	0	0		8677	10676	12470	8644	9653	9562	11129	9755	
7	BH 200060	PHYLIDA 2060	BH 130027	BH 160046	2.8	PcPc	0	0	0		9375	9667	13170	9633	8550	9456	10528	9650	
8	BH 210014	BH 210014	WDW 150038	BH 150021	1.6	HH	0	0	0		9487	12484	7184	8680	13174	9080	9480	9080	
9	BH 210016	BH 210016	WDW 170173	BH 130015	7.5						10172	9073	9362	10732	9745	9655	8627	9449	
10	BH 210028	BH 210028	WDW 170173	BH 180019	5.4						10270	7672	11260	11530	9443	9354	8324	9148	
11	BH 210050	BH 210050	WDW 170173	BH 170008	2.8	PcPc	0	0	0		9171	8974	9662	11236	10346	9556	8429	9251	

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	Calf	Milk	Maint.	Fertility	Cow	Growth	Prod									
Sorted on ID							% Inbreeding	Ease Value Acc	Growth Value Acc	Value Acc	Value Acc	Value Acc	Value Acc	Value Acc	Value Acc	Value Acc							
							★★★★																
12	BH 210060	BH 210060	BH 130027	BH 150002	15.7		107	72	87	62	98	63	111	32	89	44	98	52	92	24	97	46	
13	BH 210085	BH 210085	BH 130027	BH 170057	10.7		89	72	100	64	123	64	109	30	82	46	95	53					
14	BH 220011	BH 220011	BH 120028	BH 190025	1.9		92	69	107	57	104	52	98	26	101	40	99	47					
15	BH 220015	BH 220015	BH 120028	BH 190078	4.7		88	69	101	57	104	51	98	28	89	40	91	47					
16	BH 220024	BH 220024	BH 120028	BH 190039	3.4		88	68	115	69	108	50	101	27	92	40	96	50					
17	BH 220025	BH 220025	BH 120028	BH 190026	14.7		83	68	99	73	109	53	91	29	93	41	92	52					
18	BH 220041	BH 220041	WDW 150038	BH 180014	1.3		96	70	104	73	84	57	102	33	104	42	91	54	88	28	89	49	
19	BH 220051	BH 220051	WDW 170173	BH 170023	3.7		97	69	114	73	99	53	90	33	100	41	99	53	105	24	100	47	
20	BH 230012	BH 230012	BH 200002	BH 200013	3.9		92	66	100	59	104	44	96	27	89	34	95	45					
21	BH 230014	BH 230014	BH 200002	BH 190068	15.1		96	65	100	72	87	43	108	24	94	32	92	47					
22	BH 230019	BH 230019	BH 130027	BH 190028	1.4		86	71	91	73	111	57	94	34	96	44	93	55	94	22	92	48	
23	BH 230021	BH 230021	WDW 150038	BH 200004	1.5		83	68	111	73	106	55	94	30	105	42	96	53	108	25	98	47	
24	BH 230023	BH 230023	WDW 150038	BH 190021	1.2		101	70	79	73	109	56	114	34	100	42	98	54	87	26	96	48	
25	BH 230024	BH 230024	BH 200002	BH 170006	3.2		98	67	93	73	82	49	116	27	101	36	96	50					
26	BH 230034	BH 230034	WDW 150038	BH 140016	1.2		88	71	94	74	118	59	92	31	102	43	99	54	102	24	99	48	
27	BH 230047	BH 230047	WDW 170173	BH 170008	2.8		92	69	87	73	98	54	110	36	101	41	93	54	86	29	91	49	
28	BH 230052	BH 230052	WDW 150038	BH 170030	1.3		92	71	99	74	92	57	104	33	97	43	91	55	90	28	90	50	
29	BH 230053	BH 230053	WDW 170173	BH 180055	3.3		95	68	99	73	94	52	103	31	95	39	94	52	90	24	92	46	
30	BH 230054	BH 230054		BH 200060	0.0		103	60	87	65	109	36	108	17	71	26	95	41					
31	BH 230061	BH 230061	BH 130027	BH 150021	3.1		95	72	114	73	97	58	99	34	101	46	97	55	98	29	97	50	
32	BH 230069	BH 230069	WDW 150038	BH 170057	1.3		91	70	98	73	104	55	109	33	93	42	99	54	92	24	98	48	
33	BH 230071	BH 230071	BH 130027	BH 170022	10.7		94	71	102	73	120	57	100	28	83	43	95	53					
34	BH 240007	BH 240007	BH 130027	BH 210014	2.2		93	70	113	57	99	53	94	30	107	42	99	49	99	24	99	44	
35	BH 240010	BH 240010	BH 200002	BH 210046	4.5		98	64	96	57	95	37	102	22	96	31	98	42					
36	BH 240026	BH 240026	BH 130027	BH 210050	5.5		91	68	91	73	112	54	112	30	93	42	99	53	86	24	97	47	
37	BH 240045	BH 240045	WDW 210106	BH 210017	3.1		83	85	101	85	100	80	103	78	102	66	93	77	95	78	93	77	
38	BH 240050	BH 240050	BH 200002	BH 210028	3.0		103	86	88	87	100	82	114	80	80	66	95	79	101	80	95	79	
39	BH 240052	BH 240052	BH 130027	BH 180028	4.4		91	70	90	74	102	56	114	30	86	43	93	54	82	24	90	48	
40	BH 240057	BH 240057	BH 130027	BH 160028	7.6		100	71	106	61	108	56	98	30	81	44	98	51	99	22	97	45	
41	BH 240060	BH 240060	BH 200002	BH 200004	7.0		92	65	97	73	102	45	104	20	94	33	97	47					
42	BH 240068	BH 240068	WDW 150038	BH 160006	0.8		91	71	87	74	106	58	108	33	93	44	92	55	83	26	90	49	
43	BH 240073	BH 240073	WDW 200023	BH 170008	0.3		93	68	112	74	95	53	99	33	104	38	95	53	98	32	95	49	

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																										
										★★★★																
44	BH 240087	BH 240087	BH 130027	JNP 210002	1.8					94	68	98	56	104	52	101	29	82	39	93	47	99	23	93	42	
45	JNP 210009	JNP 210009	WDW 170173	BH 140059	2.1					103	72	82	64	100	64	105	34	97	40	94	53	94	30	94	48	
										★★★★☆																
1	BH 180014	BH 180014	BH 120026	BH 150021	2.6					98	79	112	71	65	77	101	38	105	50	80	60	87	30	79	54	
2	BH 190026	BELLE 926	JR 130005	BH 140016	1.3					82	76	97	76	86	72	79	45	99	51	81	62	97	26	81	55	
3	BH 210011	BH 210011	BH 130027	BH 180006	6.7	PcH	0	0	0	84	72	113	72	128	64	85	30	83	47	87	55	115	21	90	48	
4	BH 210018	BH 210018	WDW 170173	BH 110083	7.8	PcH	0	0	0	109	69	65	72	102	55	122	32	101	42	89	53	74	23	85	47	
5	BH 210034	BH 210034	BH 130027	BH 120044	4.4					86	74	87	75	119	67	112	30	84	49	88	57	89	20	87	50	
6	BH 210040	BH 210040	BH 130027	BH 110110	3.4					79	74	94	75	141	68	94	31	86	49	85	57	101	20	86	50	
7	BH 210048	BH 210048	BH 130027	BH 180008	1.8					85	72	102	74	113	57	99	30	66	47	80	55	95	22	80	48	
8	BH 210079	BH 210079	JR 130005	BH 170026	2.7					92	71	106	63	88	62	88	39	80	48	81	55	100	28	81	50	
9	BH 220014	BH 220014	BH 120028	BH 190068	4.2					78	67	130	71	104	51	94	26	96	40	87	50					
10	BH 220034	BH 220034	WDW 150038	BH 130018	1.2					107	70	75	73	89	58	121	31	84	45	82	54	66	26	77	48	
11	BH 220062	BH 220062	WDW 150038	BH 170030	1.3					89	71	107	73	92	57	102	33	97	44	88	55	93	28	88	50	
12	BH 230020	BH 230020	WDW 150038	WDW 180100	1.6					102	70	83	73	89	55	110	34	97	41	88	54	81	27	85	49	
13	BH 230033	BH 230033	BH 200002	BH 200055	6.1					89	65	105	71	105	42	98	22	81	33	88	47					
14	BH 230043	BH 230043	BH 200002	BH 200007	4.2					92	66	108	73	93	46	101	27	91	35	89	49	106	20	90	43	
15	BH 230049	BH 230049	WDW 150038	BH 160006	0.8					87	71	104	74	101	58	98	33	93	44	89	55	97	26	89	49	
16	BH 240013	BH 240013	WDW 210106	BH 210040	2.7					75	65	126	72	106	43	84	24	86	33	81	47	121	22	86	42	
17	BH 240016	BH 240016	WDW 210106	BH 190050	3.8					87	66	115	72	86	43	89	28	95	34	83	49	106	24	85	44	
18	BH 240018	BH 240018	WDW 210106	BH 210039	2.4					87	65	124	72	93	43	93	25	93	34	86	48	113	24	88	43	
19	BH 240019	BH 240019	WDW 210106	BH 210085	2.6					86	64	126	71	99	42	91	24	84	32	84	47	118	22	88	42	
20	BH 240030	BH 240030	WDW 210106	BH 210054	4.3					84	65	128	72	88	42	92	26	96	33	81	48	114	24	84	43	
21	BH 240042	BH 240042	WDW 210106	BH 200049	3.1					85	66	118	71	85	44	91	27	100	33	82	48	109	24	84	43	
22	BH 240051	BH 240051	BH 200002	WDW 180114	2.4					107	67	87	73	84	45	115	28	79	33	86	49	86	22	84	44	
23	BH 240053	BH 240053	WDW 210106	BH 210037	3.0					85	65	122	72	94	43	92	23	93	33	85	47	114	22	88	42	
24	BH 240059	BH 240059	WDW 210106	BH 190033	2.7					83	66	128	73	101	46	83	27	88	34	85	49	123	22	90	44	
25	JNP 210002	JNP 210002	WDW 170057	WDW 180100	1.0					97	72	96	60	83	58	101	33	81	37	81	51	95	28	81	46	
26	WDW 200009	JESS	DVB 150073	WDW 150085	2.8					102	78	82	73	78	65	120	57	97	52	84	64	69	42	79	60	

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				Calving Ease Value	Calf Growth Value	Milk Value	Maint. Value	Fertility Value	Cow Value	Growth Value	Prod Value									
Sorted on ID						nt821	Q204X	F94L	Genomic tested	Acc	Acc	Acc	Acc	Acc	Acc	Acc	Acc									
1	BH 180028	PRECIOUS 1828	WDW 150038	BH 100115	1.6	PcPc	0	0	0		88	77	99	76	73	69	110	35	90	50	75	59	84	31	73	53
2	BH 190028	BELLE 928	JR 130005	PJB 080030	2.1	PcH	0	0	0		83	78	75	78	97	75	89	47	109	53	76	64	81	28	73	57
3	BH 200003	HELEN 2003	WDW 150038	BH 150047	1.4						107	86	87	86	75	86	110	81	69	71	72	80	84	81	71	80
4	BH 200005	MINX 2005	BH 130027	BH 120020	7.7	PcPc	0	0	0		94	75	82	75	84	70	123	35	76	51	72	59	78	29	70	53
5	BH 230045	BH 230045	WDW 150038	BH 200005	1.3						101	70	62	74	99	54	129	32	90	42	76	54	64	27	71	49
6	BH 230046	BH 230046	WDW 150038	BH 190054	1.2						79	70	123	74	86	55	95	32	87	41	71	54	108	24	74	48
7	BH 240043	BH 240043	WDW 210106	BH 200005	4.8						89	66	109	72	80	44	103	26	81	34	74	48	98	24	75	43
8	BH 240082	BH 240082	WDW 210106	BH 210079	3.6						85	65	127	71	82	41	86	27	83	33	72	48	112	24	75	43
9	WDW 180114	JOY FULL	WDW 140081	WDW 100104	5.4						103	79	85	76	79	71	119	47	76	49	79	63	74	34	75	57
1	BH 240083	BH 240083	WDW 210106	BH 190054	3.6						74	66	134	73	77	45	93	26	79	33	60	49	112	21	63	43
1	BH 190054	JASMINE 954	BH 140002	BH 160006	5.8	HH	0	0	0		77	76	128	76	78	72	98	36	71	48	56	60				

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			Calving Ease Value	Calf Growth Value	Milk Value	Maint. Value	Fertility Value	Cow Value	Growth Value	Prod Value								
Sorted on ID							nt821	Q204X	F94L	Genomic tested	Acc	Acc	Acc	Acc	Acc	Acc	Acc								
										★★★★															
1	BH 250010	BH 250010	BH 200002	BH 200055	6.1						95	54	98	55	108	41	101	22	81	33	95	40			

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.

