

AMPTELIKE VEILINGSKATALOGUS VIR /
OFFICIAL AUCTION CATALOGUE FOR

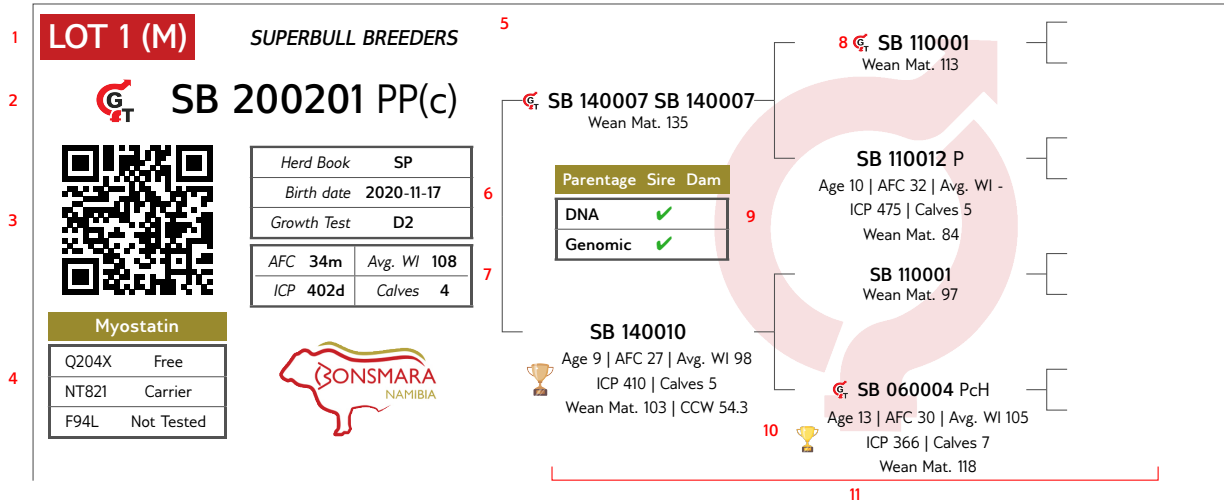
TERARO ZUCHT BONSMARA

NAMIBIA

12 September 2024

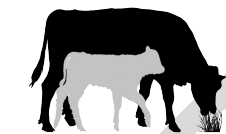
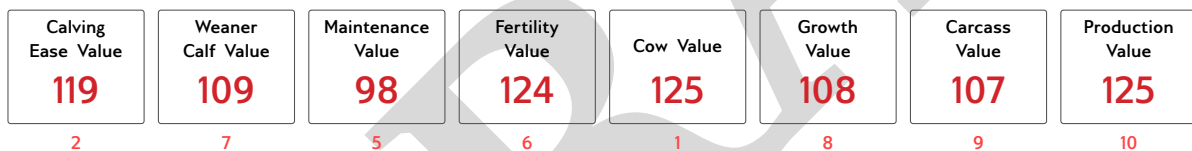
All Pedigree- and Performance Data is as recorded on LOGIX on 12 September 2024





- Lot Number & sex (mixed lots)
- Animal Identification
 - GT - animal is genomically tested
 - Animal Identification Number
 - Polled Status
 - Celtic: PP(c)/Pp(c) - polled, HH(c) - horned
 - Phenotypic: P/Pch - polled, HH - horned, SC - scurs
- QR Code - This code can be scanned with a smart device. It redirects to the animal's information on www.SABeefBulls.com where additional information for the animal is available.
- Myostatin Results
 - Free - free from double muscling genes
 - Carrier - heterozygotic / carrier of one double muscling gene
 - D. Muscled - homozygotic / double muscled
 - Not Tested
- Owner
- Animal's information
 - Herd book section, Birth date, Growth Test
- Additional information (Females)
 - Age at first calving, Average wean index, Intercalving Period, Number of calves bornx
- Sire Information
 - Maternal wean index
- Parentage Verification - a green tick (✓) indicates that the sire and/or dam has been verified via microsatellite (DNA) and/or Genomic testing
- Dam information
 - Age, Age at first calving and Average Wean Index, Intercalving Period and Number of Calves, Cow award (bronze, silver or gold), Maternal Wean Index, Cow-Calf Wean Index
- Four (4) generation pedigree

LOGIX SELECTION VALUES



1 L♂ GIX Cow Value

Selection for:

- Fertile cows,
- with low maintenance,
- that calf easily,
- and wean heavy calves



7 L♂ GIX Weaner Calf Value

Heavier weaning weights, with more milk, but restricted birth weight



8 L♂ GIX Growth Value

Selection for efficient growers on veld & in the feedlot



9 L♂ GIX Carcass Value

Selection for higher meat yield on carcass



10 L♂ GIX Production Value

Selection for easy-care, Profitable cattle

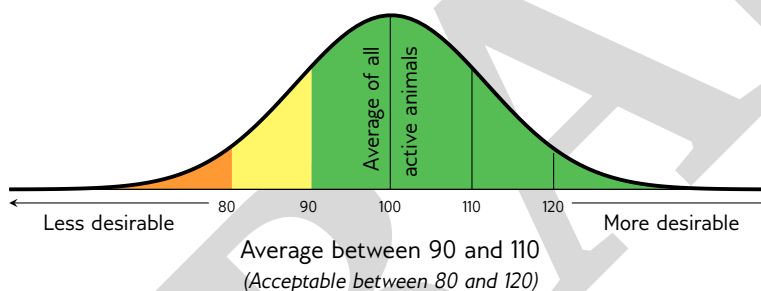
- 80% Cow Value
- 20% Growth Value

EXPLANATION OF BREEDING VALUES AND SELECTION VALUES

Traits		Description/Measurement	Goal	General Guidelines				
				<80	<90	90-110	>110	>120
Selection Values	1 Cow Value	Combination of Calving Ease, Calf Growth, Milk, Maintenance and Fertility Values (Rand-Value)	Profitable Cow	Loss				Profit
	2 Calving Ease Value	Risk for calving problems (calf too heavy) vs calf too small	Avg. birth weight	High				Low
	3 Calf Growth Value	Calf's genetic ability for pre-weaning growth	Heavy weaner calf	Light				Heavy
	4 Milk Value	Cow's genetic mothering and milking ability	Enough milk for the calf	Less				More
	5 Maintenance Value	Maintenance requirements of cow (cow weight and milk)	Low cow maintenance	High			*	Low
	6 Fertility Value	Fertility and retention of cows and heifers	Fertile cows	Low				High
	7 Weaner Calf Value	Combination of calf's weight and cow's milk	Heavy weaner calves	Light				Heavy
	8 Growth Value	Efficient growth on veld and in feedlot (R-value)	Profitable growth	Loss				Profit
	9 Carcass Value	Meat on carcass (Weight and RTU EBVs)	More meat on the carcass	Less				More
	10 Production Value	Combination of Cow- and Growth values (R-value)	Profitable animals	Loss				Profit
Cow & Heifer	11 Birth Weight Direct	Birth weight (Calf's genetic ability)	Avg. birth weight	Heavy				Light
	12 Birth Weight Maternal	Birth weight (Cow's genetic ability)	Easy calving	Heavy				Light
	13 Weaning Weight Direct	Weaning weight (Calf's genetic ability)	Heavy weaner calves	Light				Heavy
	14 Weaning Weight Maternal	Weaning weight (Cow's genetic ability)	Good mothers	Poor				Good
	23 Mature Cow Weight	Cow weight at weaning of first three calves	Avg. mature cow weight	Light		*	*	Heavy
Fertility	Cow-Calf Birth	EBV Birth Direct / EBV Mature Cow weight	Average	Low				High
	Cow-Calf Wean	EBV Wean Direct / EBV Mature Cow weight	High calf-cow ratio	Low				High
	15 Heifer Fertility	Age at first calving	Fertile heifers	Less				More
	16 Cow Fertility	First 3 inter-calving periods (ICPs)	Fertile cows	Less				More
Growth & Frame	17 Scrotal Circumference	As measured during the growth test	Fertile bulls	Less				More
	18 Longevity	Retention of progeny	Acceptable progeny	Poor				Good
	19 Post-Wean Weight	12- and 18 month weights	Good post-wean growth	Low			*	High
	20 Average Daily Gain	Average daily gain (g)	Good growth	Poor				Good
	21 Feed Conversion Ratio	100g feed intake / g weight gain	Feed efficiency	Poor				Good
	22 Kleiber Ratio	Average daily gain (g) / Metabolic weight (kg)	Feed efficiency	Poor				Good
	Final Test Weight	Final weight in the growth test	Heavy carcass	Light			*	Heavy
	24 Height	Shoulder / Hip height in growth test	Average height	Short				Tall
Carcass	25 Length	Length in growth test	Longer for more muscle	Short				Long
	26 Length-Height Ratio	EBV Length / EBV Height	Longer rather than tall	<1				>1
	27 Eye Muscle Area	RTU measured eye muscle area	Bigger steaks	Small				Big
	28 Fat Thickness	RTU measured P8 backfat thickness	Carcass quality	Thin				Thick
	29 Marbling	RTU measured % of intra-muscular fat	Juicy meat	Low				High

* Determined by own selection goal

INTERPRETATION OF BREEDING VALUE INDICES



GENETIC VALUES - BUILDING BLOCKS

Calf and Mother				Fertility				Post-Wean Growth			Frame			Carcass		
Birth Dir.	Birth Mat.	Wean Dir.	Wean Mat.	Scr. Circ.	Heifer Fert.	Cow Fert.	Longev.	Post Wean	ADG	KLB	Mature Weight	Height	Length	EMA	Fat	Mar
83	121	130	89	112	84	101	112	125	126	113	113	104	115	149	82	119
87%	70%	83%	70%	81%	68%	59%	69%	72%	76%	80%	65%	81%	80%	77%	74%	73%
11	12	13	14	17	15	16	18	19	20	22	23	24	25	27	28	29

The Logix Selection Values are compiled of specific genetic building blocks, as indicated in the selection value descriptions on the next page. These genetic building blocks are indicated in the catalogue by their Breeding Value indices and accuracies.

PHENOTYPIC VALUES

Birth Weight	205D Weight	205D Index	365D Index	540D Index	ADG Index	FCR Index	KLB Index	Scrotum	LHR	Length: 1520
37kg	284kg	106	103	97	91	92	120	353mm	1.21	Height: 1260
11	13			20	21	22	17	26		24, 25

- Wean, 365D, 504D, ADG, FCR and Kleiber Indices - phenotypic index obtained within the animal's contemporary group
- Scrotum - adjusted scrotal circumference, in mm, as measured at the end of the growth test
- LH, Length en Height - the animal's length to height ratio, as well as the Length and Height, as measured at the end of the growth test

LOT 1 (M)

TERRARO ZUCHT

RLH 210151



Herd Book	SP
Birth date	2021-11-25
Growth Test	B2



Myostatin

Q204X	Not Tested
NT821	Not Tested
F94L	Not Tested

ERH 170100
Wean Mat. 106

Parentage Sire Dam

DNA
Genomic

RLH 140101

Age 9y | AFC 38 | Avg. WI 103
ICP 368 | Calves 7
Wean Mat. 103 | CCW 39.9

HART110121
Wean Mat. 100

ERH 080016
Age 13y | AFC 30 | Avg. WI 110
ICP 392 | Calves 10
Wean Mat. 128

IH 080057
Wean Mat. 116

RLH 070056
Age 15y | AFC 37 | Avg. WI 97
ICP 424 | Calves 11
Wean Mat. 98

AG 030029 HH(c)

HART070012
Age 10 | Avg. WI 100
ICP - | Calves 8

ERH 040007

ERH 060003
Age 8 | Avg. WI 96
ICP 406 | Calves 6

VV 000154

IH 010084
Age 10 | Avg. WI 97
ICP 453 | Calves 7

GMS 010272

RLH 000031
Age 8 | Avg. WI 106
ICP 411 | Calves 5

LOGIX
Genomic Breeding Value
Analysis 2024-08-19

Calving Ease Value	Weaner Calf Value	Maintenance Value	Fertility Value	Cow Value	Growth Value	Carcass Value	Production Value
89	117	79	90	101	117	121	104

Calf and Mother			Fertility				Post-Wean Growth			Frame			Carcass		
Birth Dir.	Wean Dir.	Wean Mat.	Scr. Circ.	Heifer Fert.	Cow Fert.	Longev.	Post Wean	ADG	KLB	Mature Weight	Height	Length	EMA	Fat	Mar
89	124	102	131	93	92	97	117	114	105	125	132	128	112	107	120
76%	71%	53%	74%	43%	33%	51%	64%	39%	39%	42%	44%	42%	31%	30%	29%

Birth Weight	205D Weight	205D Index	365D Index	540D Index	ADG Index	FCR Index	KLB Index	Scrotum	LHR	Length: -
35kg	255kg	107	117	109	-	-	-	375mm	-	Height: -

SELLER REMARKS:

LOT 2 (M)

TERRARO ZUCHT

RLH 210161



Herd Book	SP
Birth date	2021-12-16
Growth Test	B2



Myostatin

Q204X	Not Tested
NT821	Not Tested
F94L	Not Tested

HART130252
Wean Mat. 90

Parentage Sire Dam

DNA
Genomic

RLH 150092

Age 9y | AFC 34 | Avg. WI 104
ICP 551 | Calves 5
Wean Mat. 108 | CCW 41.2

AG 030359 HH(c)
Wean Mat. 118

HART100176
Age 8y | AFC 25 | Avg. WI 97
ICP 433 | Calves 6
Wean Mat. 74

IH 080057
Wean Mat. 116

RLH 110024
Age 12y | AFC 28 | Avg. WI 99
ICP 390 | Calves 9
Wean Mat. 99

AG 000010

AG 010052
Age 12 | Avg. WI 101
ICP - | Calves 9

MMJ 030164

AG 040279
Age 6 | Avg. WI 95
ICP 456 | Calves 4

VV 000154

IH 010084
Age 10 | Avg. WI 97
ICP 453 | Calves 7

WOH 060123

RLH 050041
Age 16 | Avg. WI 95
ICP 413 | Calves 11

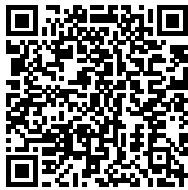
LOGIX
Genomic Breeding Value
Analysis 2024-08-19

Calving Ease Value	Weaner Calf Value	Maintenance Value	Fertility Value	Cow Value	Growth Value	Carcass Value	Production Value
100	106	84	79	89	110	118	92

Calf and Mother			Fertility				Post-Wean Growth			Frame			Carcass		
Birth Dir.	Wean Dir.	Wean Mat.	Scr. Circ.	Heifer Fert.	Cow Fert.	Longev.	Post Wean	ADG	KLB	Mature Weight	Height	Length	EMA	Fat	Mar
102	112	98	142	82	80	103	113	110	103	118	112	122	112	121	111
77%	72%	55%	76%	49%	35%	55%	68%	46%	46%	46%	50%	49%	32%	31%	30%

Birth Weight	205D Weight	205D Index	365D Index	540D Index	ADG Index	FCR Index	KLB Index	Scrotum	LHR	Length: -
33kg	241kg	102	109	103	-	-	-	394mm	-	Height: -

SELLER REMARKS:

LOT 3 (M)
TERRARO ZUCHT
RLH 210175


Kuddeboek	SP
Geb. dtm	2021-12-23
Groei Toets	B2


Miostatien

Q204X	Nie Getoets
NT821	Nie Getoets
F94L	Nie Getoets

HART130252
Spn. Mat. 90

Ouerskap Vaar Moer
DNS
Genomies
RLH 110024

Oud. 12j | OEK 28 | Gem. SI 99
TKP 390 | Kalwers 9
Speen Mat. 99 | KKS 40.7

AG 030359 HH(c)
Spn. Mat. 118

HART100176

Oud. 8j | OEK 25 | Gem. SI 97
TKP 433 | Kalwers 6
Speen Mat. 74

WOH 060123
Spn. Mat. 134

RLH 050041

Oud. 16j | OEK 45 | Gem. SI 95
TKP 413 | Kalwers 11
Speen Mat. 89

AG 000010
AG 010052

Oud. 12 | Gem. SI 101
TKP - | Kalwers 9

MMJ 030164
AG 040279

Oud. 6 | Gem. SI 95
TKP 456 | Kalwers 4

HMB 970096
WOH 020028

Oud. 6 | Gem. SI 96
TKP 399 | Kalwers 3

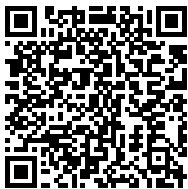
HBD 990033
RLH 030011

Oud. 11 | Gem. SI 99
TKP 394 | Kalwers 9

Geboortegemak
Waarde
106
Speenkalf
Waarde
94
Onderhouds-
waarde
86
Vrugbaarheids-
waarde
85
Koeiwaarde
86
Groei-waarde
102
Karkas-
waarde
108
Produksie-
waarde
87

Kalf en Moeder			Vrugbaarheid				Na-Speen Groei			Raam			Karkas		
Geb. Dir.	Spn. Dir.	Spn. Mat.	Skr. Omtr.	Vers Vrugb.	Koei Vrugb.	Lankl.	Na-Speen	GDT	KLB	Volw. Gewig	Hoogte	Lengte	OSO	Vet	Mar
108	100	94	137	85	90	101	100	103	98	115	109	115	105	122	111
78%	74%	59%	76%	50%	33%	56%	69%	46%	46%	46%	49%	48%	28%	27%	27%

Geb. Gewig	205D Gewig	205D Indeks	365D Indeks	540D Indeks	GDT Indeks	VOV Indeks	KLB Indeks	Skrotum	LHV	Lengte: -
32kg	236kg	100	108	107	-	-	-	393mm	-	Hoogte: -

VERKOPER OPMERKINGS:
LOT 4 (M)
TERRARO ZUCHT
RLH 210177


Kuddeboek	SP
Geb. dtm	2021-12-26
Groei Toets	B2


Miostatien

Q204X	Nie Getoets
NT821	Nie Getoets
F94L	Nie Getoets

IH 080057
Spn. Mat. 116

Ouerskap Vaar Moer
DNS
Genomies
RLH 140072

Oud. 10j | OEK 38 | Gem. SI 105
TKP 496 | Kalwers 6
Speen Mat. 109 | KKS 42

VV 000154
Spn. Mat. 103

IH 010084

Oud. 10j | OEK 37 | Gem. SI 97
TKP 453 | Kalwers 7
Speen Mat. 104

HBD 090092
Spn. Mat. 70

RLH 110081

Oud. 10j | OEK 36 | Gem. SI 104
TKP 473 | Kalwers 6
Speen Mat. 121

VV 960318
VV 950196

Oud. 10 | Gem. SI 105
TKP - | Kalwers 7

JRB 920023
IH 970068

Oud. 11 | Gem. SI 99
TKP 390 | Kalwers 3

RLH 040093
HBD 050056

Oud. 13 | Gem. SI 94
TKP 415 | Kalwers 9

RLH 070054
RLH 990109

Oud. 15 | Gem. SI 101
TKP 365 | Kalwers 13

Geboortegemak
Waarde
89
Speenkalf
Waarde
107
Onderhouds-
waarde
88
Vrugbaarheids-
waarde
86
Koeiwaarde
94
Groei-waarde
112
Karkas-
waarde
109
Produksie-
waarde
97

Kalf en Moeder			Vrugbaarheid				Na-Speen Groei			Raam			Karkas		
Geb. Dir.	Spn. Dir.	Spn. Mat.	Skr. Omtr.	Vers Vrugb.	Koei Vrugb.	Lankl.	Na-Speen	GDT	KLB	Volw. Gewig	Hoogte	Lengte	OSO	Vet	Mar
94	110	110	133	93	85	96	111	111	106	111	125	115	98	101	103
77%	73%	62%	75%	51%	43%	60%	68%	34%	34%	51%	39%	38%	33%	31%	30%

Geb. Gewig	205D Gewig	205D Indeks	365D Indeks	540D Indeks	GDT Indeks	VOV Indeks	KLB Indeks	Skrotum	LHV	Lengte: -
34kg	258kg	109	110	110	-	-	-	389mm	-	Hoogte: -

VERKOPER OPMERKINGS:

LOT 5 (M)

TERRARO ZUCHT

RLH 210190



Herd Book	SP
Birth date	2021-12-29
Growth Test	B2



Myostatin

Q204X	Not Tested
NT821	Not Tested
F94L	Not Tested

ERH 170100
Wean Mat. 106

Parentage Sire Dam

DNA
Genomic

RLH 190048
Age 5y | AFC 35 | Avg. WI 108
ICP 547 | Calves 2
Wean Mat. 119 | CCW 45

HART110121
Wean Mat. 100

ERH 080016
Age 13y | AFC 30 | Avg. WI 110
ICP 392 | Calves 10
Wean Mat. 128

IH 080057
Wean Mat. 116

RLH 110053
Age 13y | AFC 30 | Avg. WI 111
ICP 427 | Calves 10
Wean Mat. 119

AG 030029 HH(c)

HART070012
Age 10 | Avg. WI 100
ICP - | Calves 8

ERH 040007

ERH 060003
Age 8 | Avg. WI 96
ICP 406 | Calves 6

VV 000154

IH 010084
Age 10 | Avg. WI 97
ICP 453 | Calves 7

WOH 040109

RLH 990020
Age 14 | Avg. WI 98
ICP 383 | Calves 10



Genomic Breeding Value
Analysis 2024-08-19

Calving Ease Value	Weaner Calf Value	Maintenance Value	Fertility Value	Cow Value	Growth Value	Carcass Value	Production Value
89	120	88	81	101	112	118	103

Calf and Mother			Fertility				Post-Wean Growth			Frame			Carcass		
Birth Dir.	Wean Dir.	Wean Mat.	Scr. Circ.	Heifer Fert.	Cow Fert.	Longev.	Post Wean	ADG	KLB	Mature Weight	Height	Length	EMA	Fat	Mar
92	120	113	121	92	79	95	118	109	101	112	126	123	109	106	121
75%	70%	50%	73%	42%	31%	49%	64%	39%	39%	42%	44%	42%	31%	29%	29%

Birth Weight	205D Weight	205D Index	365D Index	540D Index	ADG Index	FCR Index	KLB Index	Scrotum	LHR	Length: -
35kg	251kg	105	107	103	-	-	-	358mm	-	Height: -

SELLER REMARKS:

LOT 6 (M)

TERRARO ZUCHT

RLH 210192



Herd Book	SP
Birth date	2021-12-30
Growth Test	B2



Myostatin

Q204X	Not Tested
NT821	Not Tested
F94L	Not Tested

IH 080057
Wean Mat. 116

Parentage Sire Dam

DNA
Genomic

RLH 100100
Age 14y | AFC 35 | Avg. WI 103
ICP 385 | Calves 11
Wean Mat. 104 | CCW 41

VV 000154
Wean Mat. 103

IH 010084
Age 10y | AFC 37 | Avg. WI 97
ICP 453 | Calves 7
Wean Mat. 104

HJB 050208
Wean Mat. 91



RLH 000146
Age 16y | AFC 36 | Avg. WI 103
ICP 384 | Calves 12
Wean Mat. 95

VV 960318

VV 950196
Age 10 | Avg. WI 105
ICP - | Calves 7

JRB 920023

IH 970068
Age 11 | Avg. WI 99
ICP 390 | Calves 3

AG 980338

HJB 010582
Age 12 | Avg. WI 99
ICP 369 | Calves 10

NOK L 0054

RLH 960049
Age 12 | Avg. WI 96
ICP 482 | Calves 6



Genomic Breeding Value
Analysis 2024-08-19

Calving Ease Value	Weaner Calf Value	Maintenance Value	Fertility Value	Cow Value	Growth Value	Carcass Value	Production Value
95	101	97	81	90	104	99	91

Calf and Mother			Fertility				Post-Wean Growth			Frame			Carcass		
Birth Dir.	Wean Dir.	Wean Mat.	Scr. Circ.	Heifer Fert.	Cow Fert.	Longev.	Post Wean	ADG	KLB	Mature Weight	Height	Length	EMA	Fat	Mar
100	100	110	130	91	80	93	100	107	106	100	111	105	93	91	97
78%	74%	64%	75%	57%	45%	62%	70%	40%	40%	53%	45%	43%	36%	34%	33%

Birth Weight	205D Weight	205D Index	365D Index	540D Index	ADG Index	FCR Index	KLB Index	Scrotum	LHR	Length: -
33kg	234kg	98	102	98	-	-	-	390mm	-	Height: -

SELLER REMARKS:

LOT 7 (M)

TERRARO ZUCHT

RLH 220006



Kuddeboek	SP
Geb. dtm	2022-01-10
Groei Toets	B2



Miostation

Q204X	Nie Getoets
NT821	Nie Getoets
F94L	Nie Getoets

ERH 170100
Spn. Mat. 106

Ouerskap Vaar Moer

DNS
Genomies

RLH 110033
Oud. 12j | OEK 34 | Gem. SI 100
TKP 370 | Kalwers 9
Speen Mat. 107 | KKS 38.2

HART110121
Spn. Mat. 100

ERH 080016
Oud. 13j | OEK 30 | Gem. SI 110
TKP 392 | Kalwers 10
Speen Mat. 128

HBD 050042
Spn. Mat. 110

RLH 010013
Oud. 16j | OEK 36 | Gem. SI 105
TKP 365 | Kalwers 14
Speen Mat. 105

AG 030029 HH(c)

HART070012
Oud. 10 | Gem. SI 100
TKP - | Kalwers 8

ERH 040007

ERH 060003
Oud. 8 | Gem. SI 96
TKP 406 | Kalwers 6

HA 010028

HBD 960103
Oud. 12 | Gem. SI 103
TKP 412 | Kalwers 6

AG 960290

RLH 970015
Oud. 11 | Gem. SI 100
TKP 351 | Kalwers 4



Genomiese Teelwaarde
Analise 2024-08-19

Geboortegemak Waarde	Speenkalf Waarde	Onderhouds-waarde	Vrugbaarheids-waarde	Koeiwaarde	Groei-waarde	Karkas-waarde	Produksie-waarde
90	104	91	85	91	97	106	91

Kalf en Moeder			Vrugbaarheid				Na-Speen Groei			Raam			Karkas		
Geb. Dir.	Spn. Dir.	Spn. Mat.	Skr. Omtr.	Vers Vrugb.	Koei Vrugb.	Lankl.	Na-Speen	GDT	KLB	Volw. Gewig	Hoogte	Lengte	OSO	Vet	Mar
91	108	106	97	84	97	90	102	95	90	107	118	107	101	105	119
77%	72%	54%	73%	42%	30%	51%	65%	37%	37%	41%	41%	40%	28%	26%	26%

Geb. Gewig	205D Gewig	205D Indeks	365D Indeks	540D Indeks	GDT Indeks	VOV Indeks	KLB Indeks	Skrotum	LHV	Lengte: -
36kg	254kg	107	102	106	-	-	-	328mm	-	Hoogte: -

VERKOPER OPMERKINGS:

LOT 8 (M)

TERRARO ZUCHT

RLH 220011



Kuddeboek	SP
Geb. dtm	2022-01-12
Groei Toets	B2



Miostation

Q204X	Nie Getoets
NT821	Nie Getoets
F94L	Nie Getoets

HART130252
Spn. Mat. 90

Ouerskap Vaar Moer

DNS
Genomies

RLH 160179
Oud. 7j | OEK 38 | Gem. SI 112
TKP 389 | Kalwers 5
Speen Mat. 141 | KKS 47.2

AG 030359 HH(c)
Spn. Mat. 118

HART100176
Oud. 8j | OEK 25 | Gem. SI 97
TKP 433 | Kalwers 6
Speen Mat. 74

HA 100188
Spn. Mat. 135

RLH 110014
Oud. 12j | OEK 29 | Gem. SI 107
TKP 413 | Kalwers 9
Speen Mat. 128

AG 000010

AG 010052
Oud. 12 | Gem. SI 101
TKP - | Kalwers 9

MMJ 030164

AG 040279
Oud. 6 | Gem. SI 95
TKP 456 | Kalwers 4

TEW 030033

HA 050083
Oud. 5 | Gem. SI 93
TKP 451 | Kalwers 3

WOH 060123

RLH 040042
Oud. 13 | Gem. SI 93
TKP 365 | Kalwers 9



Genomiese Teelwaarde
Analise 2024-08-19

Geboortegemak Waarde	Speenkalf Waarde	Onderhouds-waarde	Vrugbaarheids-waarde	Koeiwaarde	Groei-waarde	Karkas-waarde	Produksie-waarde
93	112	81	100	107	114	122	109

Kalf en Moeder			Vrugbaarheid				Na-Speen Groei			Raam			Karkas		
Geb. Dir.	Spn. Dir.	Spn. Mat.	Skr. Omtr.	Vers Vrugb.	Koei Vrugb.	Lankl.	Na-Speen	GDT	KLB	Volw. Gewig	Hoogte	Lengte	OSO	Vet	Mar
95	113	114	146	96	104	104	116	115	106	120	121	132	118	123	114
77%	73%	56%	75%	49%	33%	54%	68%	45%	45%	44%	48%	47%	28%	27%	27%

Geb. Gewig	205D Gewig	205D Indeks	365D Indeks	540D Indeks	GDT Indeks	VOV Indeks	KLB Indeks	Skrotum	LHV	Lengte: -
33kg	265kg	114	121	121	-	-	-	387mm	-	Hoogte: -

VERKOPER OPMERKINGS:

LOT 9 (M)

TERRARO ZUCHT

RLH 220017



Herd Book	SP
Birth date	2022-01-14
Growth Test	B2



Myostatin

Q204X	Not Tested
NT821	Not Tested
F94L	Not Tested

EFC 140097
Wean Mat. 105

Parentage Sire Dam

DNA
Genomic

RLH 110150
Age 12y | AFC 35 | Avg. WI 98
ICP 439 | Calves 9
Wean Mat. 107 | CCW 42.5

RLH 080105
Wean Mat. 90

EFC 070156
Age 10y | AFC 36 | Avg. WI 104
ICP 379 | Calves 7
Wean Mat. 126

WOH 060123
Wean Mat. 134

RLH 030011
Age 11y | AFC 28 | Avg. WI 99
ICP 394 | Calves 9
Wean Mat. 93

WOH 040109

RLH 020090
Age 14 | Avg. WI 97
ICP - | Calves 12

ERH 000045

EFC 010087
Age 8 | Avg. WI 93
ICP 374 | Calves 6

HMB 970096

WOH 020028
Age 6 | Avg. WI 96
ICP 399 | Calves 3

RLH 980035

RLH 940116
Age 14 | Avg. WI 103
ICP 368 | Calves 8



Calving Ease Value	Weaner Calf Value	Maintenance Value	Fertility Value	Cow Value	Growth Value	Carcass Value	Production Value
89	89	94	102	91	-	99	-

Calf and Mother			Fertility				Post-Wean Growth			Frame			Carcass		
Birth Dir.	Wean Dir.	Wean Mat.	Scr. Circ.	Heifer Fert.	Cow Fert.	Longev.	Post Wean	ADG	KLB	Mature Weight	Height	Length	EMA	Fat	Mar
96	95	106	92	103	102	99	87	93	91	104	116	102	90	107	108
78%	74%	58%	75%	47%	29%	55%	68%	21%	21%	42%	24%	23%	7%	6%	6%

Birth Weight	205D Weight	205D Index	365D Index	540D Index	ADG Index	FCR Index	KLB Index	Scrotum	LHR	Length: -
36kg	241kg	101	94	92	-	-	-	329mm	-	Height: -

SELLER REMARKS:

LOT 10 (M)

TERRARO ZUCHT

RLH 220025



Herd Book	SP
Birth date	2022-01-19
Growth Test	B2



Myostatin

Q204X	Not Tested
NT821	Not Tested
F94L	Not Tested

RLH 150060
Wean Mat. 118

Parentage Sire Dam

DNA
Genomic

RLH 080138
Age 13y | AFC 37 | Avg. WI 99
ICP 455 | Calves 9
Wean Mat. 110 | CCW 45

IH 080057
Wean Mat. 116

RLH 090077
Age 13y | AFC 37 | Avg. WI 104
ICP 421 | Calves 10
Wean Mat. 116

HMB 020012
Wean Mat. 112

RLH 050115
Age 5y | AFC 37 | Avg. WI 102
ICP - | Calves 1
Wean Mat. 99

VV 000154

IH 010084
Age 10 | Avg. WI 97
ICP - | Calves 7

HMB 020012

RLH 000017
Age 17 | Avg. WI 100
ICP 449 | Calves 11

EI 970177

HMB 990045
Age 11 | Avg. WI 114
ICP 442 | Calves 8

GMS 010272

RLH 020138
Age 10 | Avg. WI 99
ICP 372 | Calves 8



Calving Ease Value	Weaner Calf Value	Maintenance Value	Fertility Value	Cow Value	Growth Value	Carcass Value	Production Value
93	97	99	88	92	-	99	-

Calf and Mother			Fertility				Post-Wean Growth			Frame			Carcass		
Birth Dir.	Wean Dir.	Wean Mat.	Scr. Circ.	Heifer Fert.	Cow Fert.	Longev.	Post Wean	ADG	KLB	Mature Weight	Height	Length	EMA	Fat	Mar
98	96	113	124	87	91	104	99	101	100	98	117	105	94	101	102
77%	73%	58%	75%	50%	34%	54%	68%	24%	24%	44%	27%	26%	18%	16%	16%

Birth Weight	205D Weight	205D Index	365D Index	540D Index	ADG Index	FCR Index	KLB Index	Scrotum	LHR	Length: -
36kg	238kg	99	94	100	-	-	-	373mm	-	Height: -

SELLER REMARKS:

LOT 11 (M)

TERRARO ZUCHT

RLH 220100


Kuddeboek	SP
Geb. dtm	2022-05-16
Groei Toets	B2


Miostatien

Q204X	Nie Getoets
NT821	Nie Getoets
F94L	Nie Getoets

EFC 140097
Spn. Mat. 105

Ouerskap Vaar Moer

DNS
Genomies

RLH 140154

Oud. 9j | OEK 36 | Gem. SI 113
TKP 399 | Kalwers 5
Speen Mat. 117 | KKS 49.6

RLH 080105
Spn. Mat. 90

EFC 070156
Oud. 10j | OEK 36 | Gem. SI 104
TKP 379 | Kalwers 7
Speen Mat. 126

KHB 050172
Spn. Mat. 102

RLH 080124
Oud. 9j | OEK 36 | Gem. SI 92
TKP 367 | Kalwers 7
Speen Mat. 89

WOH 040109
RLH 020090
Oud. 14 | Gem. SI 97
TKP - | Kalwers 12

ERH 000045
EFC 010087
Oud. 8 | Gem. SI 93
TKP 374 | Kalwers 6

KHB 010012
KHB 990054
Oud. 16 | Gem. SI 105
TKP 401 | Kalwers 13

HMB 020012
RLH 030011
Oud. 11 | Gem. SI 99
TKP 394 | Kalwers 9

Geboortegemak
Waarde
88

88
96
93
108
101
103
106
100

Kalf en Moeder			Vrugbaarheid				Na-Speen Groei			Raam			Karkas		
Geb. Dir.	Spn. Dir.	Spn. Mat.	Skr. Omtr.	Vers Vrugb.	Koei Vrugb.	Lankl.	Na-Speen	GDT	KLB	Volw. Gewig	Hoogte	Lengte	OSO	Vet	Mar
94	98	114	105	105	111	99	99	100	95	105	121	115	103	106	108
77%	73%	55%	75%	47%	31%	54%	68%	26%	26%	43%	27%	27%	22%	21%	21%

Geb. Gewig	205D Gewig	205D Indeks	365D Indeks	540D Indeks	GDT Indeks	VOV Indeks	KLB Indeks	Skrotum	LHV	Lengte: -
37kg	163kg	94	107	106	-	-	-	344mm	-	Hoogte: -

VERKOPER OPMERKINGS:
LOT 12 (M)

TERRARO ZUCHT

RLH 220130


Kuddeboek	SP
Geb. dtm	2022-06-28
Groei Toets	B2


Miostatien

Q204X	Nie Getoets
NT821	Nie Getoets
F94L	Nie Getoets

EFC 140097
Spn. Mat. 105

Ouerskap Vaar Moer

DNS
Genomies

RLH 120132

Oud. 11j | OEK 30 | Gem. SI 101
TKP 520 | Kalwers 6
Speen Mat. 105 | KKS 48.5

RLH 080105
Spn. Mat. 90

EFC 070156
Oud. 10j | OEK 36 | Gem. SI 104
TKP 379 | Kalwers 7
Speen Mat. 126

IH 080057
Spn. Mat. 116

RLH 020133
Oud. 15j | OEK 35 | Gem. SI 105
TKP 403 | Kalwers 11
Speen Mat. 91

WOH 040109
RLH 020090
Oud. 14 | Gem. SI 97
TKP - | Kalwers 12

ERH 000045
EFC 010087
Oud. 8 | Gem. SI 93
TKP 374 | Kalwers 6

VV 000154
IH 010084
Oud. 10 | Gem. SI 97
TKP 453 | Kalwers 7

GRT 940075
RLH 960144
Oud. 12 | Gem. SI 99
TKP 368 | Kalwers 8

Geboortegemak
Waarde
94

94
96
91
96
94
-
109
-

Kalf en Moeder			Vrugbaarheid				Na-Speen Groei			Raam			Karkas		
Geb. Dir.	Spn. Dir.	Spn. Mat.	Skr. Omtr.	Vers Vrugb.	Koei Vrugb.	Lankl.	Na-Speen	GDT	KLB	Volw. Gewig	Hoogte	Lengte	OSO	Vet	Mar
99	101	105	119	101	96	95	95	107	103	107	124	115	95	110	107
77%	73%	57%	75%	47%	32%	56%	68%	22%	22%	44%	25%	24%	19%	17%	17%

Geb. Gewig	205D Gewig	205D Indeks	365D Indeks	540D Indeks	GDT Indeks	VOV Indeks	KLB Indeks	Skrotum	LHV	Lengte: -
35kg	168kg	100	101	99	-	-	-	368mm	-	Hoogte: -

VERKOPER OPMERKINGS:

LOT 13 (M)

TERRARO ZUCHT

RLH 220135



Herd Book	SP
Birth date	2022-07-02
Growth Test	B2



Myostatin

Q204X	Not Tested
NT821	Not Tested
F94L	Not Tested

RLH 180045 HH(c)
Wean Mat. 122

Parentage	Sire	Dam
DNA		
Genomic		

RLH 080103
Age 14y | AFC 36 | Avg. WI 102
ICP 387 | Calves 11
Wean Mat. 106 | CCW 43.9

IH 080057
Wean Mat. 116

RLH 110093
Age 13y | AFC 37 | Avg. WI 109
ICP 400 | Calves 10
Wean Mat. 125

WOH 040109
Wean Mat. 119

RLH 010124
Age 16y | AFC 36 | Avg. WI 103
ICP 369 | Calves 13
Wean Mat. 89

VV 000154

IH 010084
Age 10 | Avg. WI 97
ICP - | Calves 7

RLH 070054

RLH 070159
Age 15 | Avg. WI 99
ICP 401 | Calves 12

HMB 970096

WOH 990008
Age 14 | Avg. WI 92
ICP 389 | Calves 11

GRT 940075

RLH 980031
Age 10 | Avg. WI 96
ICP 362 | Calves 7

LOGIX
Genomic Breeding Value
Analysis 2024-08-19

Calving Ease Value	Weaner Calf Value	Maintenance Value	Fertility Value	Cow Value	Growth Value	Carcass Value	Production Value
93	105	89	96	101	-	106	-

Calf and Mother			Fertility				Post-Wean Growth			Frame			Carcass		
Birth Dir.	Wean Dir.	Wean Mat.	Scr. Circ.	Heifer Fert.	Cow Fert.	Longev.	Post Wean	ADG	KLB	Mature Weight	Height	Length	EMA	Fat	Mar
96	106	112	120	99	96	96	103	106	102	110	123	115	98	103	108
77%	73%	56%	74%	41%	32%	52%	66%	23%	23%	41%	26%	26%	18%	17%	17%

Birth Weight	205D Weight	205D Index	365D Index	540D Index	ADG Index	FCR Index	KLB Index	Scrotum	LHR	Length: -	Height: -
37kg	178kg	106	106	104	-	-	-	361mm	-	-	-

SELLER REMARKS:

LOT 14 (M)

TERRARO ZUCHT

RLH 220141



Herd Book	SP
Birth date	2022-07-18
Growth Test	B2



Myostatin

Q204X	Not Tested
NT821	Not Tested
F94L	Not Tested

HART130252
Wean Mat. 90

Parentage	Sire	Dam
DNA		
Genomic		

RLH 180145
Age 6y | AFC 33 | Avg. WI 107
ICP 490 | Calves 3
Wean Mat. 115 | CCW 45.8

AG 030359 HH(c)
Wean Mat. 118

HART100176
Age 8y | AFC 25 | Avg. WI 97
ICP 433 | Calves 6
Wean Mat. 74

IH 080057
Wean Mat. 116

RLH 130095
Age 9y | AFC 35 | Avg. WI 105
ICP 463 | Calves 5
Wean Mat. 112

AG 000010

AG 010052
Age 12 | Avg. WI 101
ICP - | Calves 9

MMJ 030164

AG 040279
Age 6 | Avg. WI 95
ICP 456 | Calves 4

VV 000154

IH 010084
Age 10 | Avg. WI 97
ICP 453 | Calves 7

KHB 050172

RLH 090130
Age 13 | Avg. WI 97
ICP 408 | Calves 9

LOGIX
Genomic Breeding Value
Analysis 2024-08-19

Calving Ease Value	Weaner Calf Value	Maintenance Value	Fertility Value	Cow Value	Growth Value	Carcass Value	Production Value
94	110	86	86	96	107	122	97

Calf and Mother			Fertility				Post-Wean Growth			Frame			Carcass		
Birth Dir.	Wean Dir.	Wean Mat.	Scr. Circ.	Heifer Fert.	Cow Fert.	Longev.	Post Wean	ADG	KLB	Mature Weight	Height	Length	EMA	Fat	Mar
96	114	102	125	82	93	103	115	107	99	114	111	125	121	120	112
76%	72%	55%	74%	49%	35%	54%	67%	47%	47%	46%	50%	50%	34%	32%	32%

Birth Weight	205D Weight	205D Index	365D Index	540D Index	ADG Index	FCR Index	KLB Index	Scrotum	LHR	Length: -	Height: -
37kg	184kg	110	108	99	-	-	-	357mm	-	-	-

SELLER REMARKS:

LOT 15 (M)

TERRARO ZUCHT

RLH 220145



Kuddeboek	SP
Geb. dtm	2022-07-23
Groei Toets	B2



Miostatien

Q204X	Nie Getoets
NT821	Nie Getoets
F94L	Nie Getoets

HART130252
Spn. Mat. 90

Ouerskap Vaar Moer

DNS
Genomies

RLH 180105
Oud. 6j | OEK 35 | Gem. SI 111
TKP 495 | Kalwers 3
Speen Mat. 124 | KKS 50.1

AG 030359 HH(c)
Spn. Mat. 118

HART100176
Oud. 8j | OEK 25 | Gem. SI 97
TKP 433 | Kalwers 6
Speen Mat. 74

IH 080057
Spn. Mat. 116

RLH 050161
Oud. 13j | OEK 31 | Gem. SI 108
TKP 448 | Kalwers 9
Speen Mat. 115

AG 000010

AG 010052
Oud. 12 | Gem. SI 101
TKP - | Kalwers 9

MMJ 030164

AG 040279
Oud. 6 | Gem. SI 95
TKP 456 | Kalwers 4

VV 000154

IH 010084
Oud. 10 | Gem. SI 97
TKP 453 | Kalwers 7

GMS 010272

RLH 010138
Oud. 9 | Gem. SI 111
TKP 455 | Kalwers 5



Geboortegemak Waarde 107	Speenkalf Waarde 113	Onderhouds- waarde 81	Vrugbaarheids- waarde 86	Koeiwaarde 101	Groei-waarde 110	Karkas- waarde 126	Produksie- waarde 102
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Kalf en Moeder			Vrugbaarheid				Na-Speen Groei			Raam			Karkas		
Geb. Dir.	Spn. Dir.	Spn. Mat.	Skr. Omtr.	Vers Vrugb.	Koei Vrugb.	Lankl.	Na-Speen	GDT	KLB	Volw. Gewig	Hoogte	Lengte	OSO	Vet	Mar
108	115	102	126	88	88	102	114	111	101	122	115	127	122	122	114
76%	72%	54%	75%	49%	35%	54%	67%	46%	46%	44%	50%	49%	32%	31%	31%

Geb. Gewig	205D Gewig	205D Indeks	365D Indeks	540D Indeks	GDT Indeks	VOV Indeks	KLB Indeks	Skrotum	LHV	Lengte: -
31kg	204kg	130	115	109	-	-	-	353mm	-	Hoogte: -

VERKOPER OPMERKINGS:

Dier Info				Actual Values						Expected Breeding Values										Indices			Dam			
LOT	Animal ID	Sex	SEC	Birth Wt (kg)	205d Wt (kg)	CCB Ratio	CCW Ratio	Length Height Ratio	Scr. Circ. (mm)	Birth Dir (kg)	Birth Mat (kg)	Wean Dir (kg)	Wean Mat (kg)	Post Wean (kg)	Mature Weight. (kg)	ADG (g/d)	KLB (g/kg)	Scr. Circ. (mm)	Height. (mm)	Length (mm)	Wean	ADG	Scr. Circ.	Avg. Wean Index	Nr. Calves	Repr. Index
Breed Average Auction Average				35	225	-	45.1	-	367	1.07 1.39	-0.25 0.28	15.0 18.4	3.8 5.8	24 32	9 22	110 138	78 80	13.4 27.5	15	18 37	105	-	123	104	7.0	97
1	RLH 210151	M	SP	35	255	-	44.6	-	375	2.29	-0.27	25.9	4.4	42.0	37.0	179	94.5	32.5	26	49	107	-	131	103	7	107
2	RLH 210161	M	SP	33	241	-	43.2	-	394	0.84	0.12	20.2	3.2	37.7	28.9	159	88	39.1	10	43	102	-	142	104	5	82
3	RLH 210175	M	SP	32	236	-	42.4	-	393	0.22	-0.02	15.2	2.2	28.1	25.7	124	72.8	35.9	7	35	100	-	137	99	9	110
4	RLH 210177	M	SP	34	258	-	45.6	-	389	1.78	0.55	19.6	6.7	36.4	21.6	162	96.8	33.5	20	35	109	-	133	105	6	85
5	RLH 210190	M	SP	35	251	-	49	-	358	1.95	0.30	24.0	7.6	42.4	22.1	152	80.5	26.2	20	44	105	-	121	108	2	88
6	RLH 210192	M	SP	33	234	-	43.3	-	390	1.12	0.57	15.1	6.8	27.6	9.1	144	96.2	31.7	9	23	98	-	130	103	11	108
7	RLH 220006	M	SP	36	254	-	42.5	-	328	2.05	0.02	18.4	5.4	29.7	17.3	86	49.7	11.5	14	26	107	-	97	100	9	110
8	RLH 220011	M	SP	33	265	-	45.3	-	387	1.63	0.01	21.0	7.8	40.2	32.1	182	95.2	41.4	16	54	114	-	146	112	5	101
9	RLH 220017	M	SP	36	241	-	44.9	-	329	1.52	0.92	12.8	5.4	16.4	13.7	75	52.4	8.2	12	20	101	-	92	98	9	98
10	RLH 220025	M	SP	36	238	-	43.7	-	373	1.25	0.66	13.1	7.7	25.9	7.0	117	78.4	27.8	13	24	99	-	124	99	9	94
11	RLH 220100	M	SP	37	163	-	49.5	-	344	1.78	0.69	14.2	7.9	25.8	14.5	108	64	16.6	17	35	94	-	105	113	5	93
12	RLH 220130	M	SP	35	168	-	43.1	-	368	1.18	0.55	15.3	5.1	23.0	17.5	143	87.1	24.8	19	35	100	-	119	101	6	82
13	RLH 220135	M	SP	37	178	-	42.4	-	361	1.51	0.22	17.7	7.4	29.8	20.1	138	83.8	25.7	18	34	106	-	120	102	11	107
14	RLH 220141	M	SP	37	184	-	47.4	-	357	1.55	0.01	21.4	4.5	39.3	25.2	146	75.4	28.8	9	46	110	-	125	107	3	94
15	RLH 220145	M	SP	31	204	-	50	-	353	0.23	-0.14	21.7	4.5	38.7	34.0	162	82.3	29.4	12	49	130	-	126	111	3	90

EXPLANATION OF CATALOGUE ABBREVIATIONS

VERDUIDELIKING VAN KATALOGUS AFKORTINGS

Lot Number	LOT	LOT	Lot Nommer
Estimated breeding value	EBV	EBV	Beraamde teelwaarde
Parentage verification	Parentage	Ouerskap	Ouerskap verifikasie
Age in years	AGE	OUDE.	Ouderdom in jaar
Age at First Calving	AFC	OEK	Ouderdom met Eerst Kalwing
Intercalving Period	ICP	TKP	Tussen-Kalf Periode
Number of calvings	Calvings	Kalwings	Aantal kalwings
Number of calves weaned	Weaned	Gespeen	Aantal kalwers gespeen
Average Wean index	Avg. WI	Gem. SI	Gemiddelde speen indeks
Animal identification number	ID	ID	Dier se identifikasie nommer
Herd Book Section	SEC	AFD	Kuddeboek Afdeling
Herd Book Section: Pending Registration	PEN	PEN	Kuddeboek Afdeling: Wag vir Registrasie
Herd Book Section: Not for Registration	NFR	NFR	Kuddeboek Afdeling: Nie vir Registrasie
Herd Book Section: Foundation Generation	FO	FO	Kuddeboek Afdeling: Fondasie Generasie
Herd Book Section: Appendix A	A	A	Kuddeboek Afdeling: Aanhangsel A
Herd Book Section: Appendix B	B	B	Kuddeboek Afdeling: Aanhangsel B
Herd Book Section: Studbook Proper, a registered animal	SP	SP	Kuddeboek Afdeling: Studbook Proper, 'n geregistreerde dier
Genomically Tested	GT	GT	Genomies Getoets
Homozygous Horned (Celtic test)	HH(c)	HH(c)	Homosigoties horings (Celtic toets)
Homozygous Polled (Celtic test)	PP(c)	PP(c)	Homosigoties Poena (Celtic toets)
Heterozygous Polled (Celtic test)	Pp(c)	Pp(c)	Heterosigoties Poena (Celtic toets)
Phenotypically Polled	P	P	Fenotopies Poena
Birth Direct breeding value	Birth Dir.	Geb. Dir	Geboorte Direk teelwaarde
Wean Direct breeding value	Wean Dir.	Spn. Dir.	Speen Direk teelwaarde
Wean Maternal breeding value	Wean Mat.	Spn. Mat.	Speen Maternaal teelwaarde
Scrotal Circumference	Scr. Circ.	Skr. Omt.	Skrotum omtrek
Heifer Fertility	Heifer Fert.	Vers Vrugh.	Vers Vrughbaarheid
Cow Fertility	Cow Fert.	Koei Vrugh.	Koei Vrughbaarheid
Longevity	Longev.	Lankl.	Lanklewendheid
Mature Weight (kg)	Mat. Wt.	Volw. Gewig	Volwasse gewig (kg)
Average Daily Gain (g/day)	ADG	GDT	Gemiddelde Daaglikse Toename
Feed Conversion Ratio (kg:kg)	FCR	VOV	Voeromset Verhouding
Kleiber Ratio (g/kg)	KLB	KLB	Kleiber Verhouding (g/kg)
Eye Muscle Area	EMA	OSO	Oogspier grootte
Backfat Thickness (mm)	Fat	Vet	Rugvet Diepte (mm)
Marbeling (intra-muscular fat)	Mar	Mar	Marmering (binne-spiersse vet)
Actual Birth weight (kg)	Birth Wt.	Geb. gewig	Werklike Geboorte gewig (kg)
205-day Dam-age corrected weight	205d Wt.	205d gewig	205-dag Moeder-ouderdom gekorrigeerde gewig
365-day weight index	365D Index	365D Indeks	365-dae gewig indeks
540-day weight index	540D Index	540D Indeks	540-dae gewig indeks
Length-Height ratio	LH	LH	Lengte-Hoogte Verhouding
Cow-Calf Birth Weight Ratio	CCG	KKG	Koei-Kalf Geboorte Gewig Verhouding
Cow-Calf Wean Weight Ratio	CCW	KKS	Koei-Kalf Speen Gewig Verhouding
Average Weaning Index	Avg. WI	Gem. SI	Gemiddelde speen indeks
Number of Calves	Nr. Calves	Aant. Kalw.	Aantal kalwers
Reproduction Index	Repr. Index	Repr. Indeks	Reproduksie indeks
Animal sex: M - Male, F - Female	M / F	M / V	Dier geslag: M - Manlik, V - Vroulik