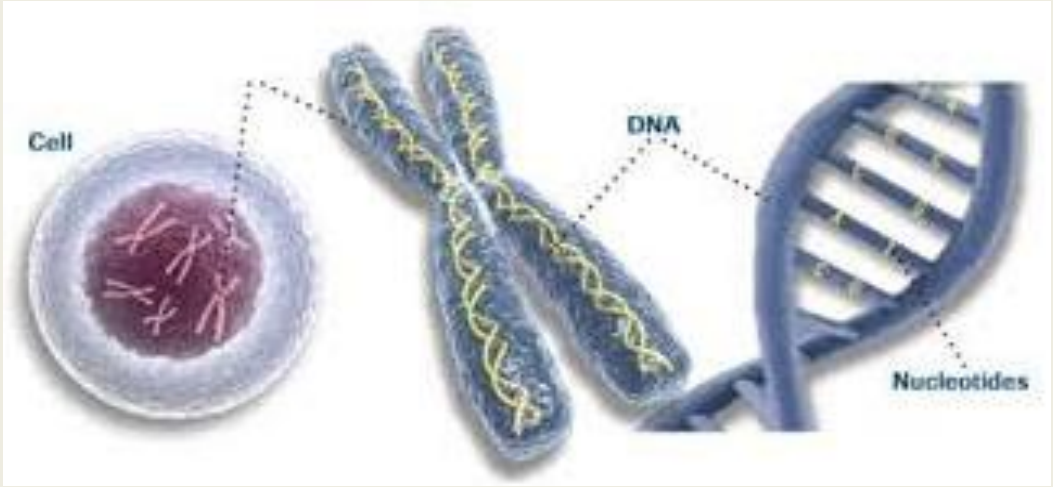
BEGINSELS VAN TEELWAARDES



Johan Styger

BTB Simmentalers

BEGINSELS VAN TEELWAARDES

BLUP

- Best linear unbaised prediction

EBV (Breedplan)

- Estimated breeding values

EPD (estimated progeny difference, USA)

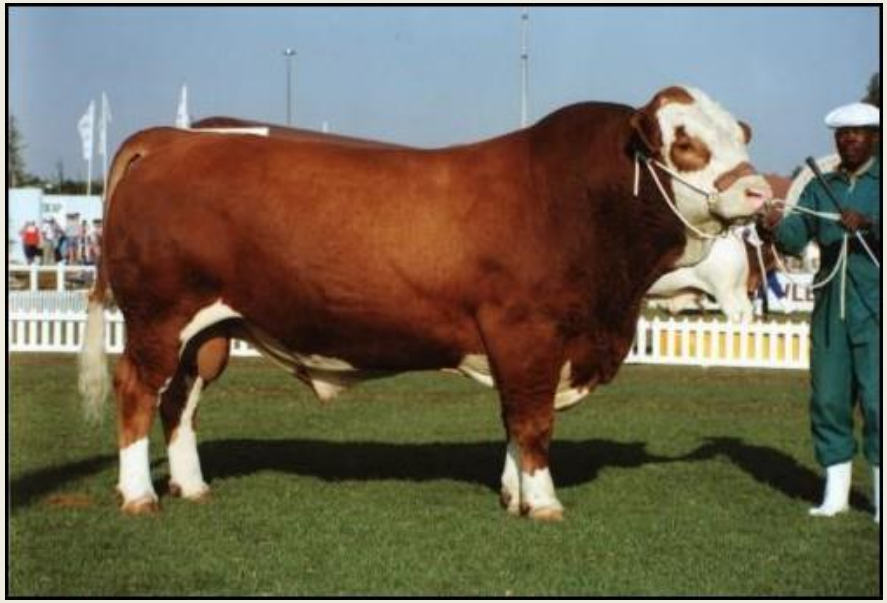
- Teelwaardes

VLEISBEESTE

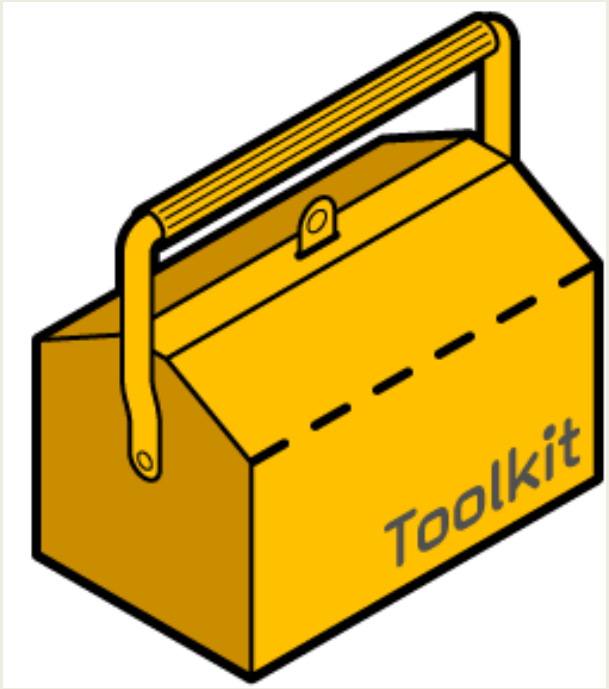
- **Wat is die basis van ons teelbesluite?**

- *Subjektief*
  - *Gegrond op persepsies*
- *Objektief*
  - Gegrond op feite

Wat is die waarde van die bul ?



- **sy voorkoms ?**
- **sy vleiswaarde ?**
- **die waarde van sy nageslag !**

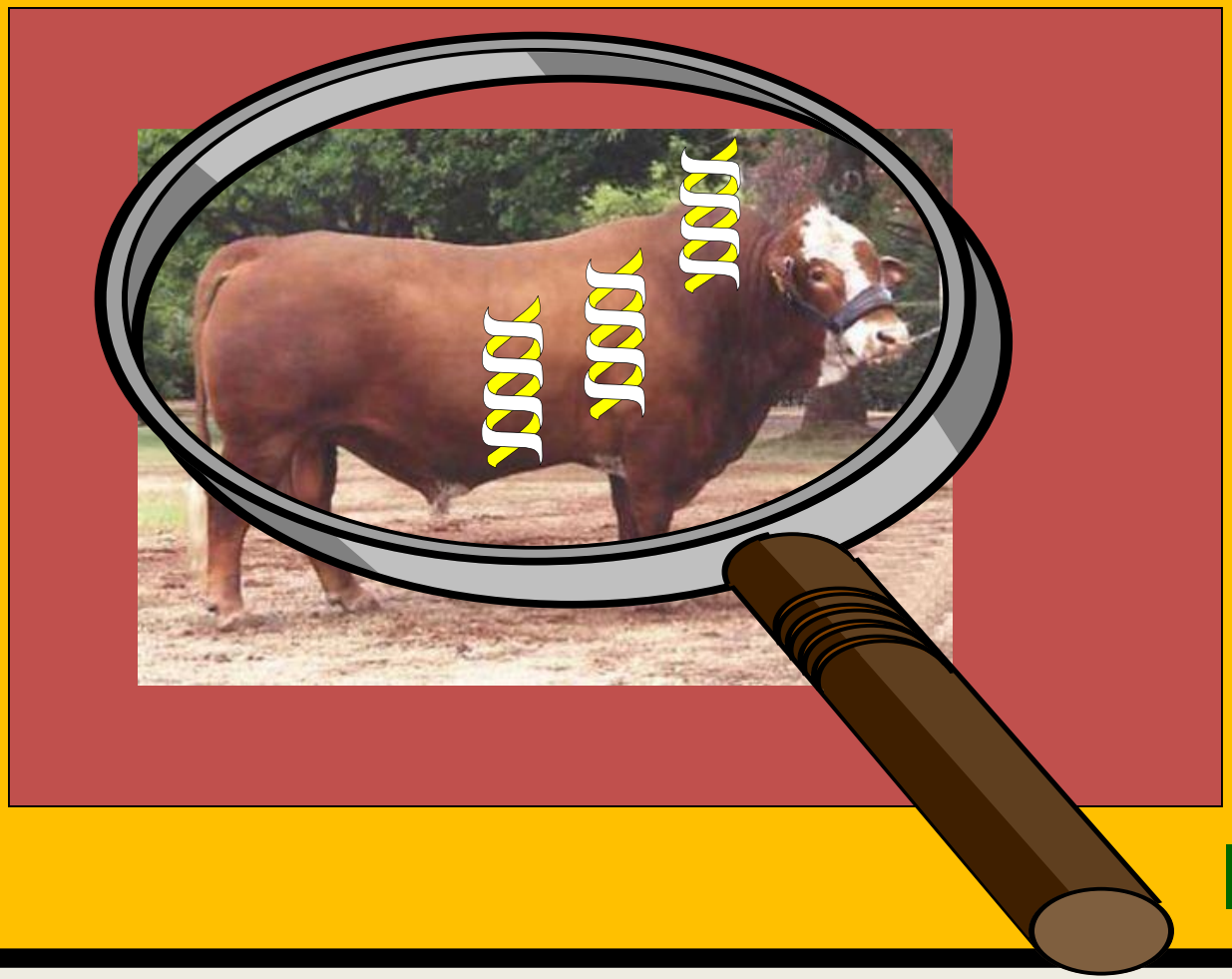


BEGINSELS van EBV's

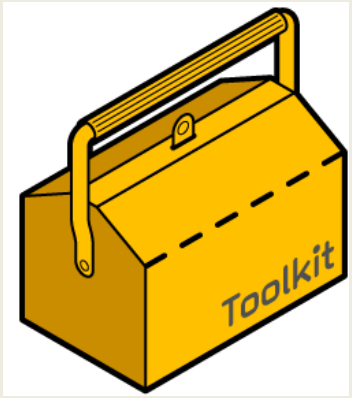
Genetika
Statistiek
Omgewingsinvloed

GENETIKA

Probleem: Ons kan nie die gene sien nie!



AGBU



GENETIKA

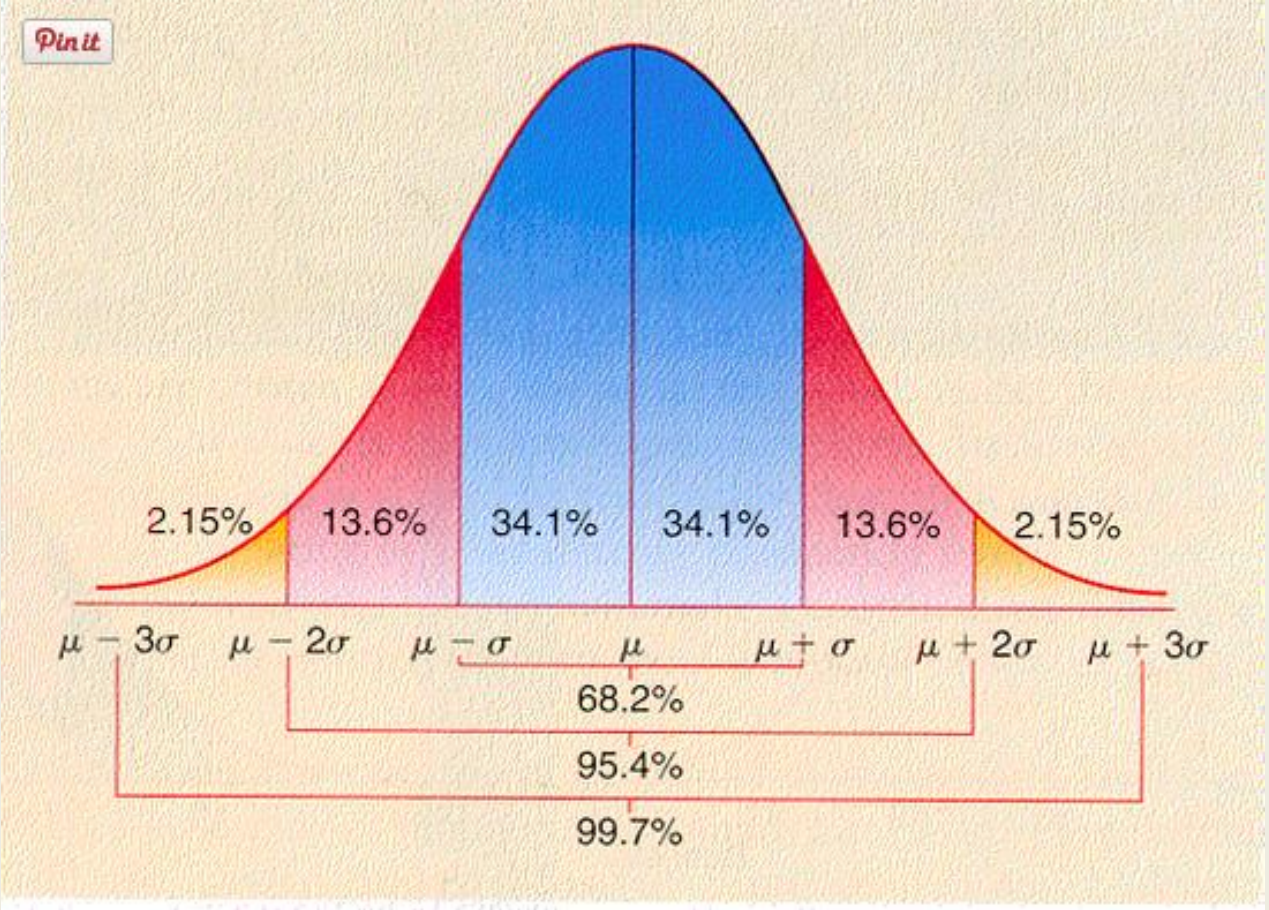
Mendelian Sampling

Law of inheritance 1865

Genes from sire: + + + + + + + - - - 7

Genes from dam : + + + + + - - - - - 5

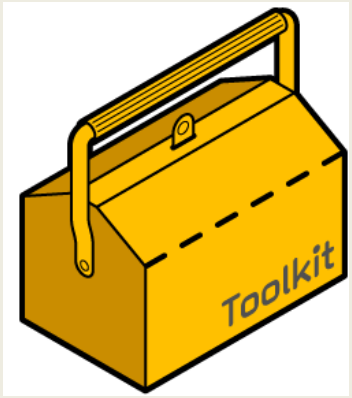
NORMAL DISTRIBUTION (luck of the draw)



Progeny: Worst - - - - - - - - - + + **(2)**

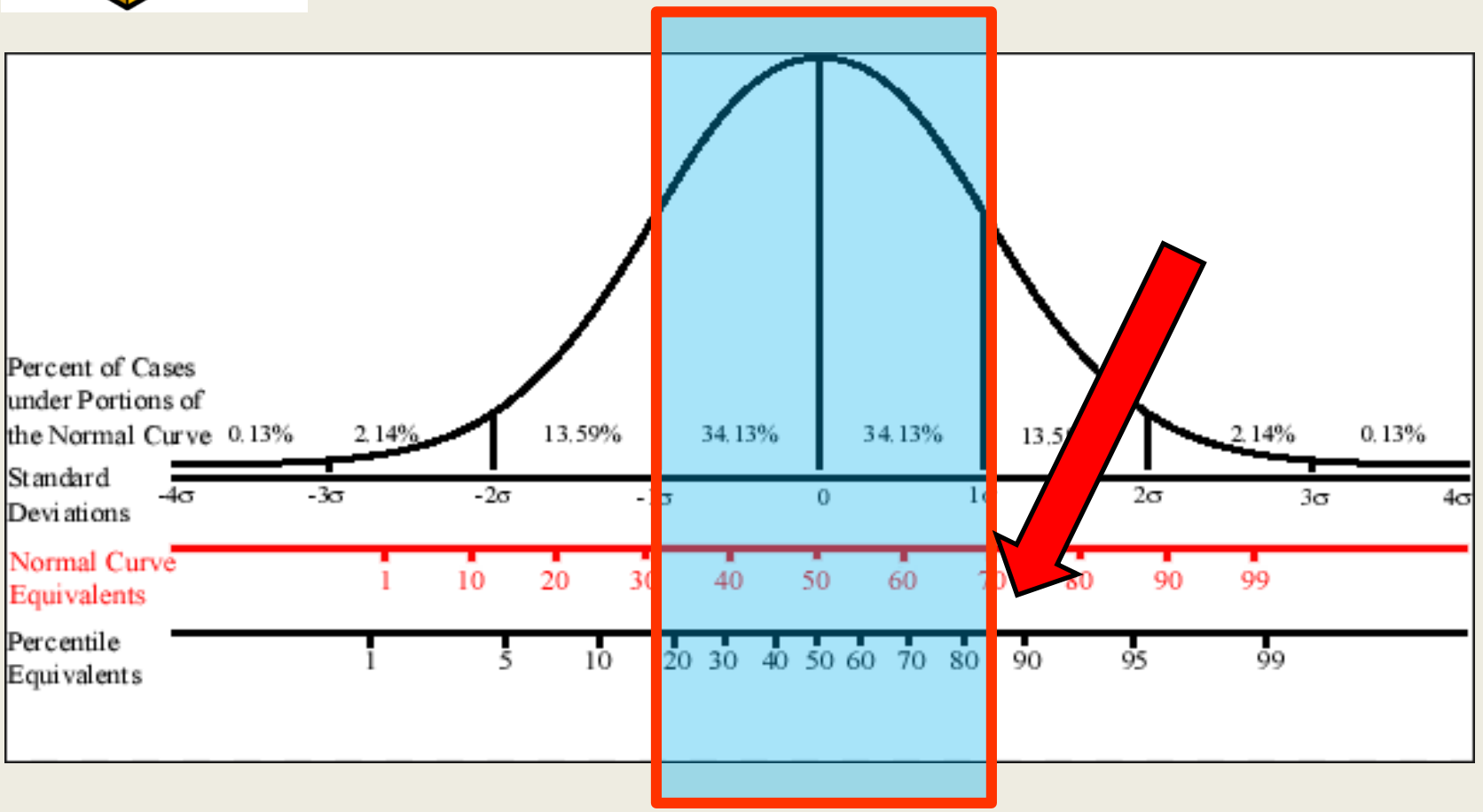
Progeny: Best + + + + + + + + + + + **(10)**

Progeny: Average + + + + + + - - - - **(6)**



STATISTIEK

PERCENTILE GRAPH

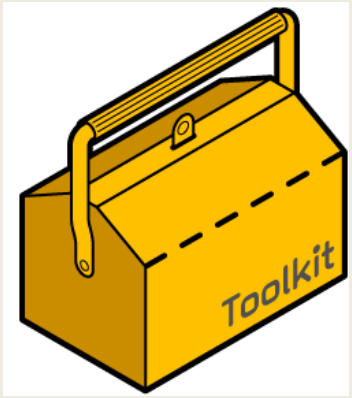


STATISTIEK

May 2015 South African Simmentaler GROUP BREEDPLAN EBVS - Percentile Bands for all 2013 born animals

Use this table as a guide to compare individual animals with the current genetic level of the breed

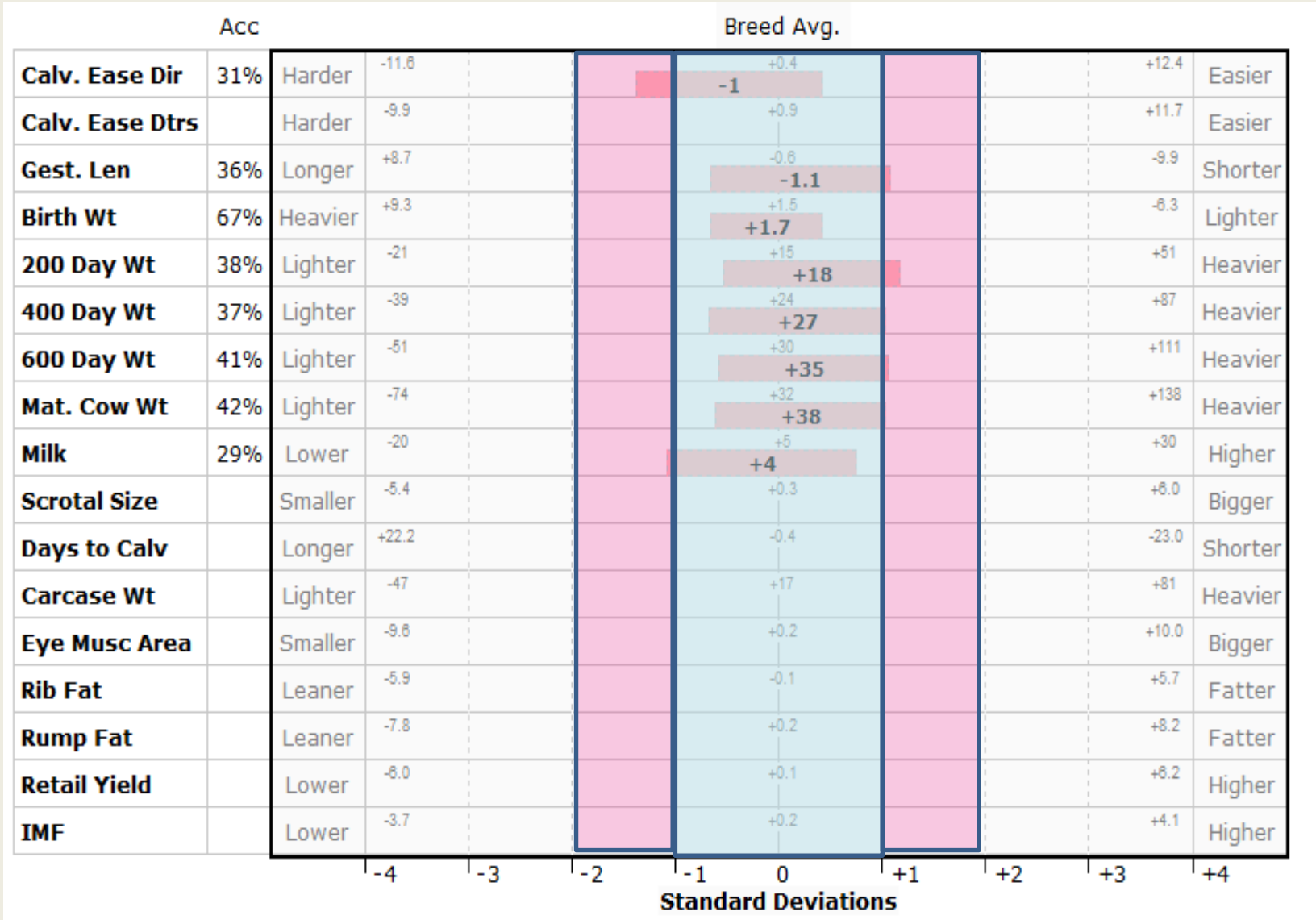
	Calv-Ease		Birth		Growth					Fert		Carcase						Indexes		
	Dir	Dtrs	GL	Bwt	200	400	600	Mwt	Milk	SS	DC	Cwt	EMA	Rib	Rump	RBY	IMF	SF	SG	TS
	%		days		kg					cm	days	kg	sq.cm	mm		%		R		
High 1%	+8.0	+5.9	-2.6	-1.0	+26	+41	+53	+59	+9	+1.1	-3.0	+30	+1.6	+0.3	+0.7	+1.0	+0.3	+108	+181	+219
High 5%	+5.5	+4.2	-1.9	+0.0	+22	+36	+46	+51	+8	+0.8	-1.9	+26	+1.1	+0.1	+0.5	+0.7	+0.2	+86	+151	+187
High 10%	+4.2	+3.4	-1.6	+0.4	+21	+33	+42	+46	+7	+0.7	-1.4	+24	+0.9	+0.1	+0.4	+0.6	+0.2	+75	+135	+171
High 15%	+3.4	+2.9	-1.4	+0.6	+20	+31	+40	+43	+7	+0.6	-1.2	+22	+0.7	+0.0	+0.3	+0.5	+0.2	+69	+124	+162
High 20%	+2.7	+2.5	-1.2	+0.8	+19	+30	+38	+41	+6	+0.5	-1.0	+21	+0.6	+0.0	+0.3	+0.4	+0.2	+64	+117	+154
High 25%	+2.2	+2.2	-1.1	+1.0	+18	+29	+36	+39	+6	+0.5	-0.9	+21	+0.5	+0.0	+0.2	+0.4	+0.2	+59	+111	+147
High 30%	+1.8	+1.9	-1.0	+1.1	+18	+28	+35	+38	+6	+0.4	-0.7	+20	+0.4	-0.1	+0.2	+0.3	+0.2	+56	+106	+142
High 35%	+1.4	+1.7	-0.9	+1.2	+17	+27	+33	+36	+5	+0.4	-0.6	+19	+0.4	-0.1	+0.2	+0.3	+0.1	+53	+102	+137
High 40%	+1.0	+1.4	-0.8	+1.4	+16	+26	+32	+35	+5	+0.3	-0.5	+19	+0.3	-0.1	+0.1	+0.3	+0.1	+50	+98	+132
High 45%	+0.6	+1.2	-0.7	+1.5	+16	+25	+31	+33	+5	+0.3	-0.4	+18	+0.3	-0.1	+0.1	+0.2	+0.1	+47	+94	+127
50%	+0.3	+0.9	-0.6	+1.6	+15	+24	+30	+32	+5	+0.3	-0.3	+17	+0.2	-0.1	+0.1	+0.2	+0.1	+45	+91	+122
Low 45%	-0.1	+0.7	-0.5	+1.7	+15	+23	+29	+30	+4	+0.2	-0.2	+17	+0.2	-0.1	+0.1	+0.2	+0.1	+42	+87	+118
Low 40%	-0.4	+0.5	-0.4	+1.8	+14	+22	+28	+29	+4	+0.2	-0.2	+16	+0.1	-0.2	+0.1	+0.1	+0.1	+40	+84	+114
Low 35%	-0.8	+0.2	-0.3	+1.9	+14	+21	+26	+27	+4	+0.1	-0.1	+16	+0.1	-0.2	+0.0	+0.1	+0.1	+37	+80	+109
Low 30%	-1.2	-0.1	-0.2	+2.0	+13	+20	+25	+26	+4	+0.1	+0.0	+15	+0.0	-0.2	+0.0	+0.1	+0.1	+35	+77	+104
Low 25%	-1.6	-0.4	-0.1	+2.2	+12	+19	+24	+24	+3	+0.1	+0.1	+14	+0.0	-0.2	+0.0	+0.0	+0.1	+32	+73	+98
Low 20%	-2.1	-0.8	+0.1	+2.3	+12	+18	+22	+22	+3	+0.0	+0.2	+13	-0.1	-0.2	+0.0	+0.0	+0.1	+29	+69	+92
Low 15%	-2.7	-1.2	+0.2	+2.5	+11	+17	+21	+20	+3	-0.1	+0.4	+13	-0.2	-0.3	-0.1	+0.0	+0.0	+25	+63	+85
Low 10%	-3.5	-1.7	+0.4	+2.7	+10	+15	+19	+17	+2	-0.2	+0.5	+11	-0.3	-0.3	-0.1	-0.1	+0.0	+20	+57	+76
Low 5%	-4.6	-2.5	+0.7	+3.0	+8	+12	+15	+13	+1	-0.3	+0.8	+10	-0.4	-0.4	-0.2	-0.2	+0.0	+13	+46	+62
Low 1%	-6.9	-4.0	+1.4	+3.8	+5	+7	+8	+4	-1	-0.8	+1.5	+6	-0.8	-0.5	-0.4	-0.3	-0.1	-1	+24	+36

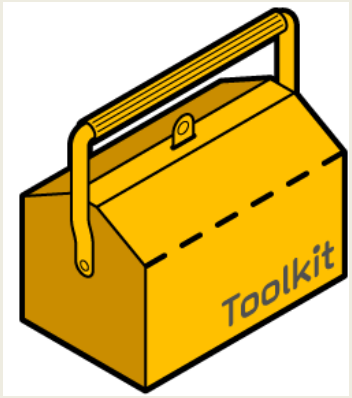


OORERFLIKHEID

Trait	Heritability
Direct: Birth weight	0.37
Direct: 200-Day weight	0.18
Direct: 400-D weight	0.27
Direct: 600-Day weight	0.30
Direct: Mature Cow Weight	0.39
Direct: Scrotal Size	0.36
Direct: Days to Calving	0.06
Maternal: Birth weight	0.07
Maternal: 200-Day weight	0.10

SWING GRAPH

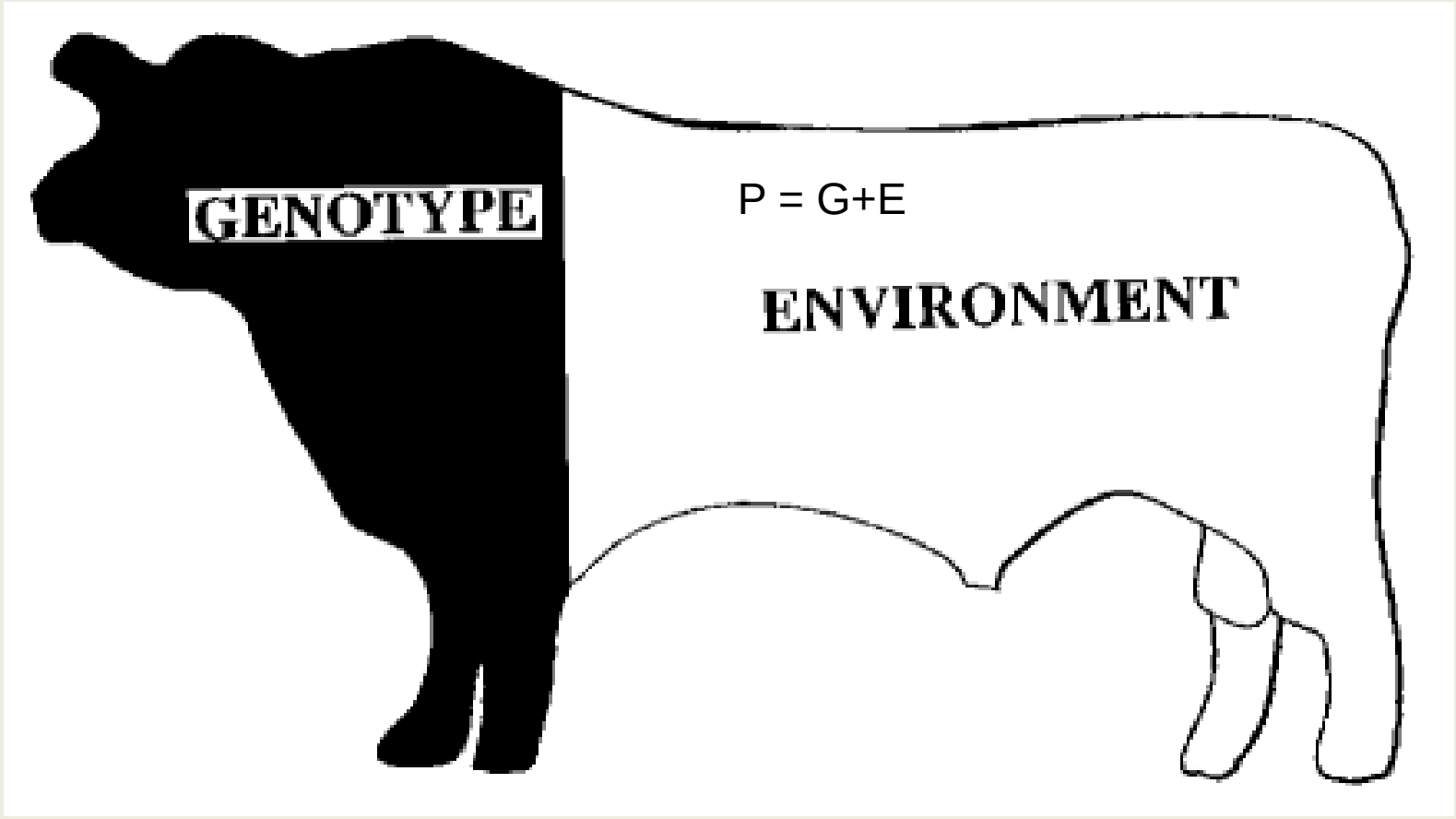

Acc
Breed Avg.
Calv. Ease Dir 31% Harder -11.6 +0.4 -1 +12.4 Easier
Calv. Ease Dtrs Harder -9.9 +0.9 +11.7 Easier
Gest. Len 36% Longer +8.7 -0.6 -1.1 -9.9 Shorter
Birth Wt 67% Heavier +9.3 +1.5 +1.7 -6.3 Lighter
200 Day Wt 38% Lighter -21 +15 +18 +51 Heavier
400 Day Wt 37% Lighter -39 +24 +27 +87 Heavier
600 Day Wt 41% Lighter -51 +30 +35 +111 Heavier
Mat. Cow Wt 42% Lighter -74 +32 +38 +138 Heavier
Milk 29% Lower -20 +5 +4 +30 Higher
Scrotal Size Smaller -5.4 +0.3 +6.0 Bigger
Days to Calv Longer +22.2 -0.4 -23.0 Shorter
Carcase Wt Lighter -47 +17 +81 Heavier
Eye Musc Area Smaller -9.6 +0.2 +10.0 Bigger
Rib Fat Leaner -5.9 -0.1 +5.7 Fatter
Rump Fat Leaner -7.8 +0.2 +8.2 Fatter
Retail Yield Lower -6.0 +0.1 +6.2 Higher
IMF Lower -3.7 +0.2 +4.1 Higher
-4 -3 -2 -1 0 +1 +2 +3 +4
Standard Deviations



OMGEWING

P = G+E

Phenotipe = genotipe+omgewing



BTB

=

?

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BTB

WAT IS ‘N TEELWAARDE ?

WAT IS ‘N TEELWAARDE ?

- ‘n Voorspelling van die verwagte verskil tussen twee diere t.o.v die prestasie van hulle nageslag

Hoe word teelwaardes bereken?

- **Word bereken vanaf:**

1. Prestasie van alle bekende **FAMILIELEDE (Stamboom)**

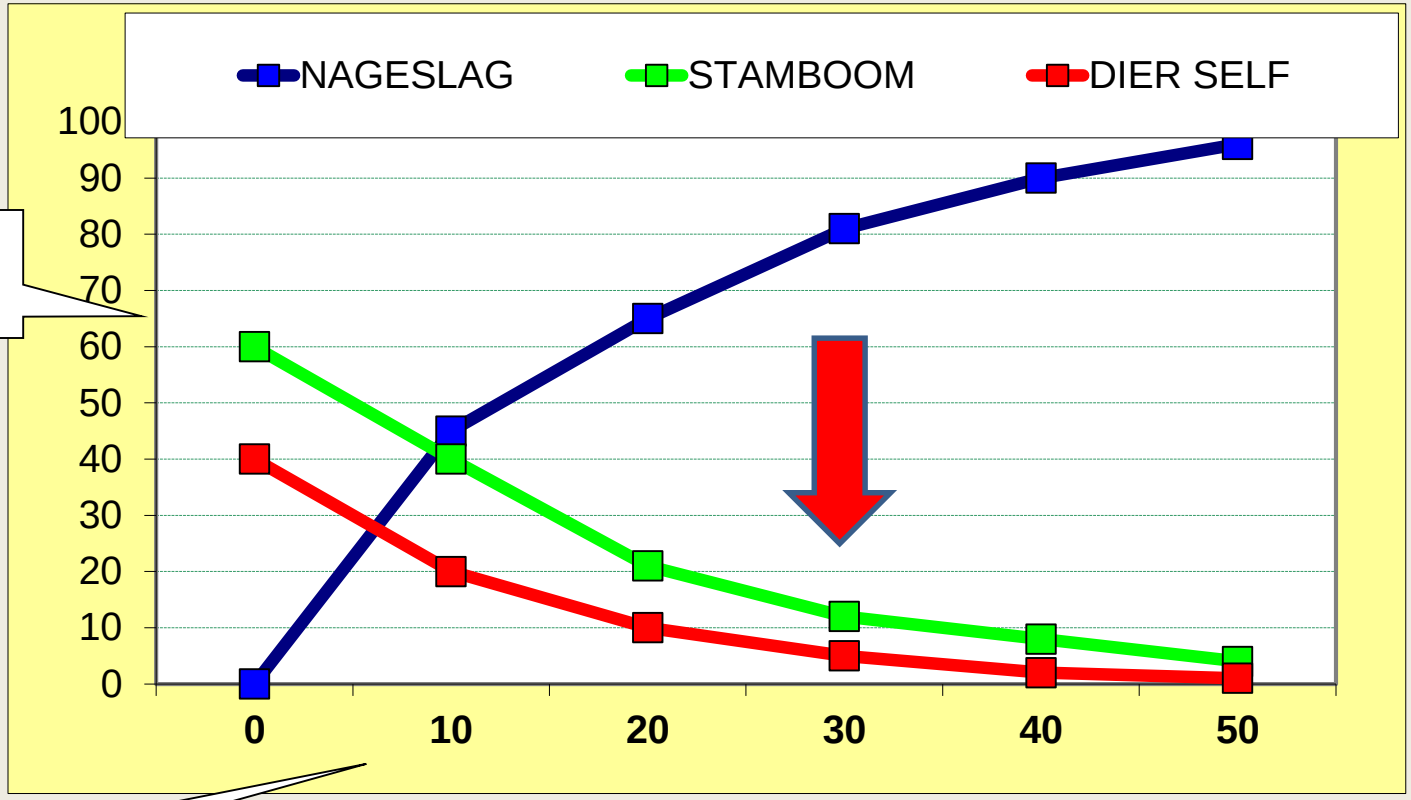
2. **DIER se eie prestasie**

3. **NAGESLAG van die dier**

   - die **VERWANTSKAPPE** tussen P**RESTASIE en OORERFLIKHEID**

EBV's gebruik 3 bronne van inligting

(30% oorerflik)



% bydare tot teelwaarde

Getal nageslag

EBV Berekening

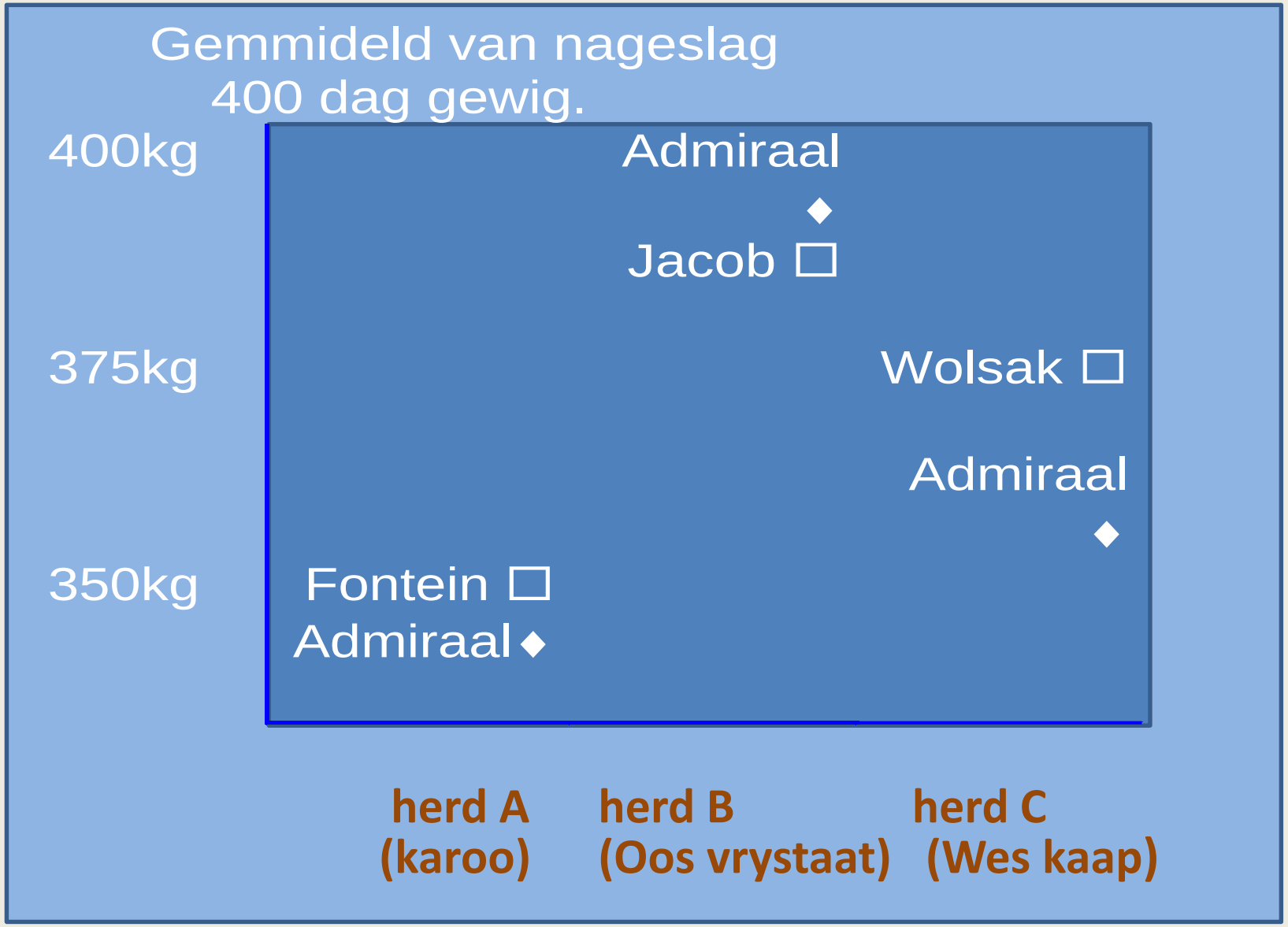
- EBV= (weight of individual – average weight of group) x heritability

  = (380 – 350) x 0.2

  = 30 x 0.2

  = + 6 kg

BREEDPLAN gebruik koppelings om tussen kuddes te vergelyk

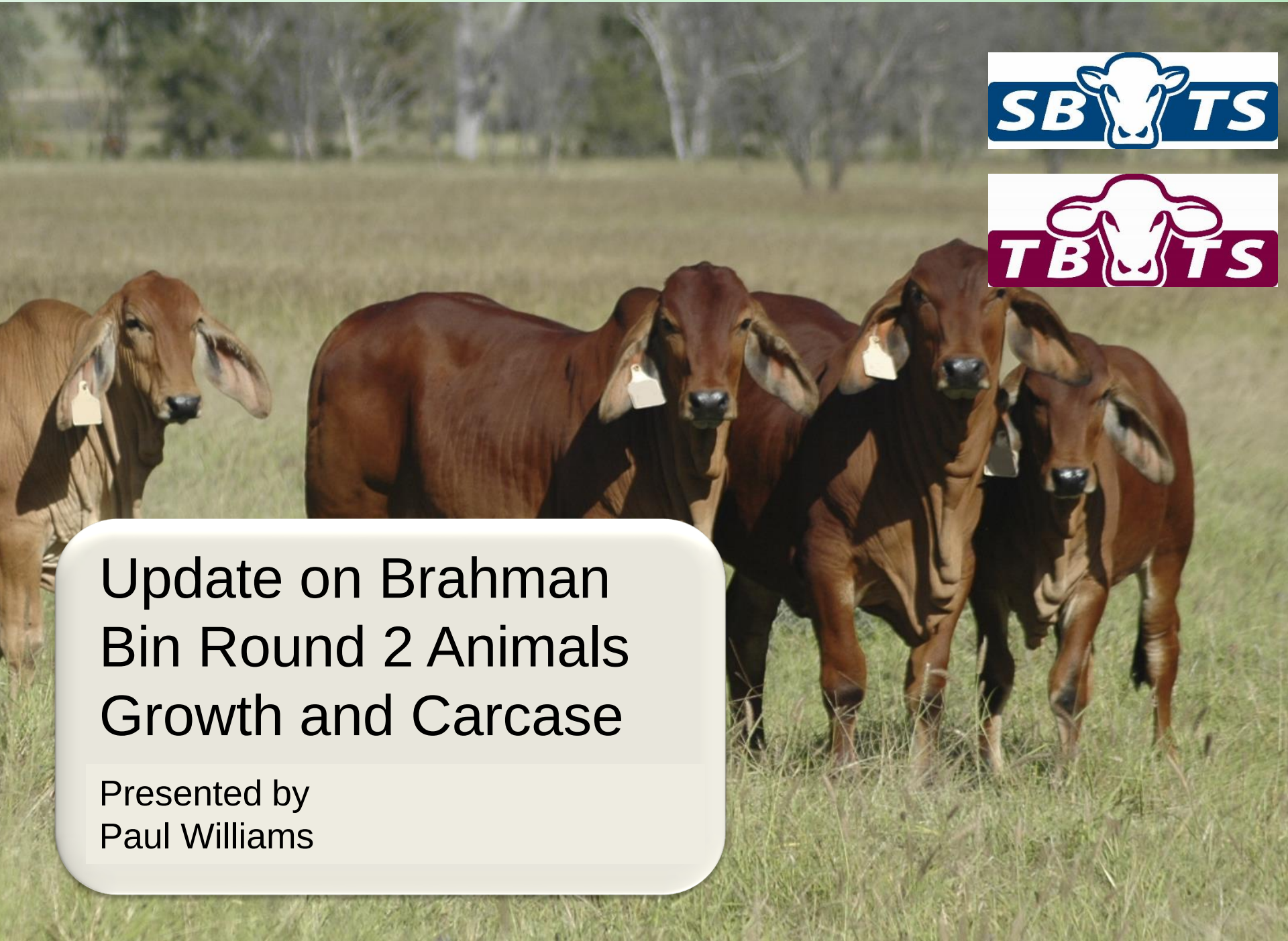


DIREKTE NAGESLAG VERGELYKINGS

Fontein vs. Admiraal = + 5kg
Jacob vs. Admiraal = - 5kg
Wolsak vs. Admiraal = +10kg

	Fontein	Jakob	Wolsak	Admiral
EPD	+ 5kg	- 5kg	+10kg	0kg} (Base)
EBVs	+10kg	-10kg	+20kg	0kg} (Base)

EPD waardes is gelyk aan helfte van die EBVs want die nageslag kry helfte die gene



Update on Brahman Bin Round 2 Animals Growth and Carcase

Presented by
Paul Williams

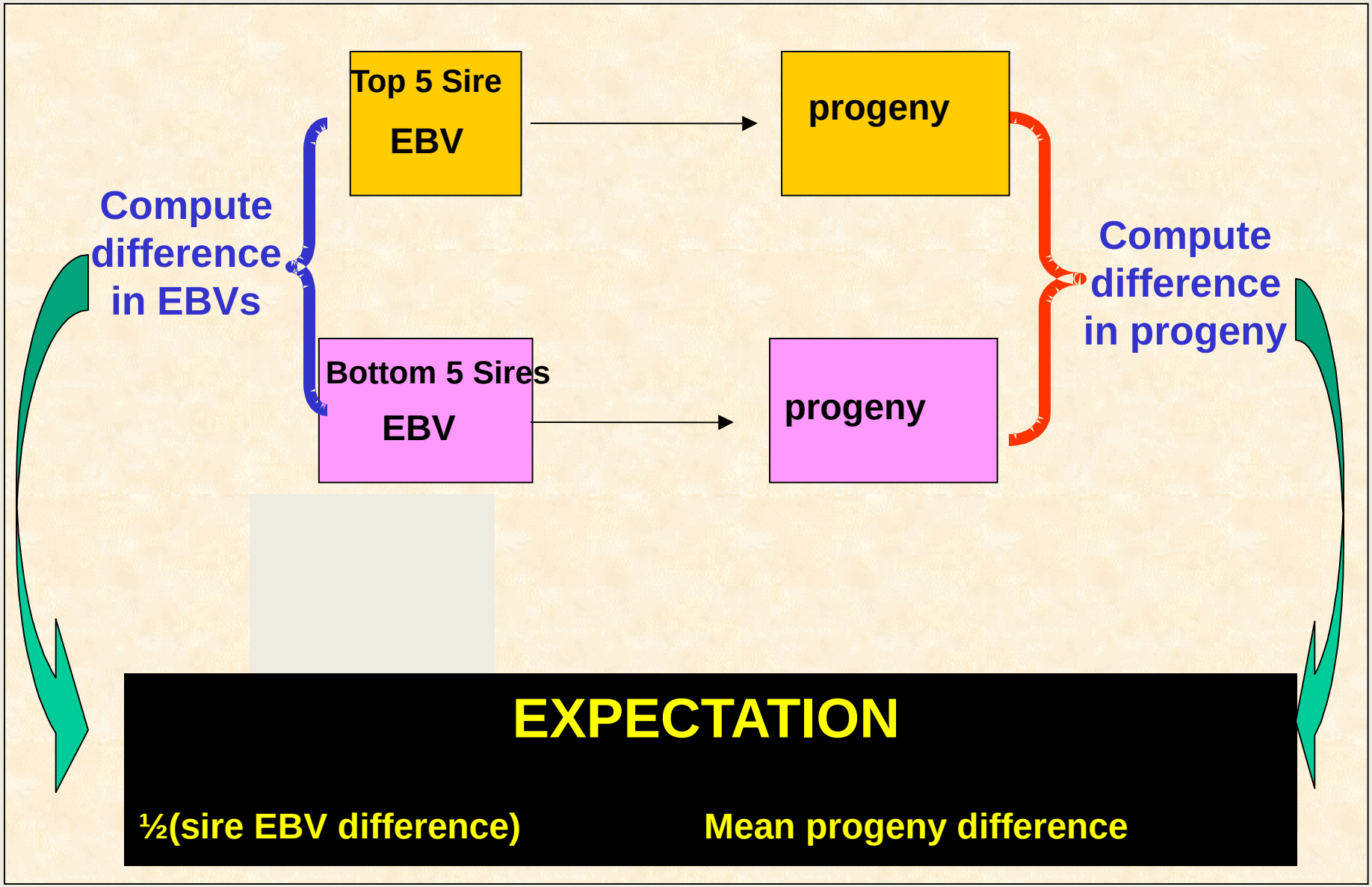
Brahman BIN

Round 2 no 3 Growth and Carcase

Background

- 22 Round 2 and 19 Round 1 Catch up Sires
- 305 No.2 steer progeny
- 312 heifers progeny
- Belmont – 58 steers & 53 Heifers
- Barranga – 129 steers & 132 Heifers
- Camboon R1– 62 steers & 77 Heifers
- Camboon R2 – 56 & 50 Heifers

Evaluating EBVs



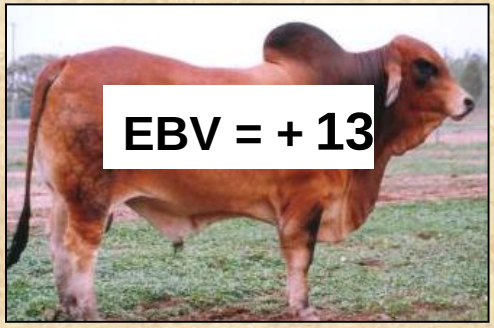
Weight EBV's

- **R2 Steers from Barranga**

"Barranga Steers"

200 Day Weight

Bottom 5 Sires



Top 5 Sires

Expect 8.5 kg

Breed Av 2012 born animals 18 kg
Round 2 bin sires 21 kg

233 kg

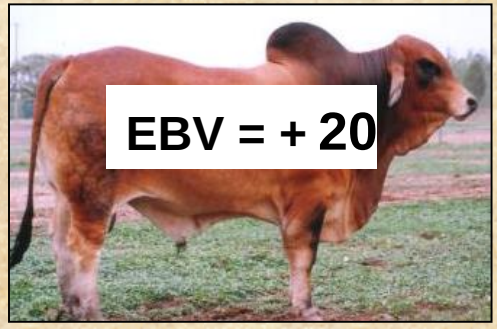
9 kg difference

242 kg

“Barranga R2 Steers”

400 Day Weight

Bottom 5 Sires



Top 5 Sires

Expect 11 kg

Breed Av 2011 born animals 25 kg
Round 1 Bin Sires 34 kg

275 kg

15 kg

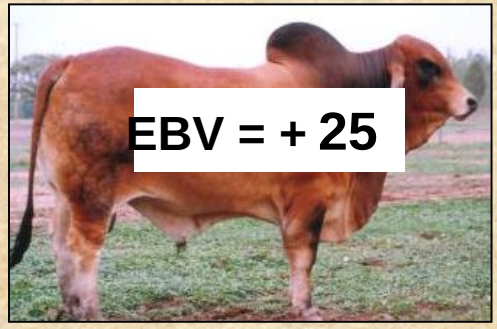
difference

290 kg

"All R2 Steers Adjusted for Age, Wt & Origin"

600 Day Weight

Bottom 5 Sires



Top 5 Sires

Expect 18 kg

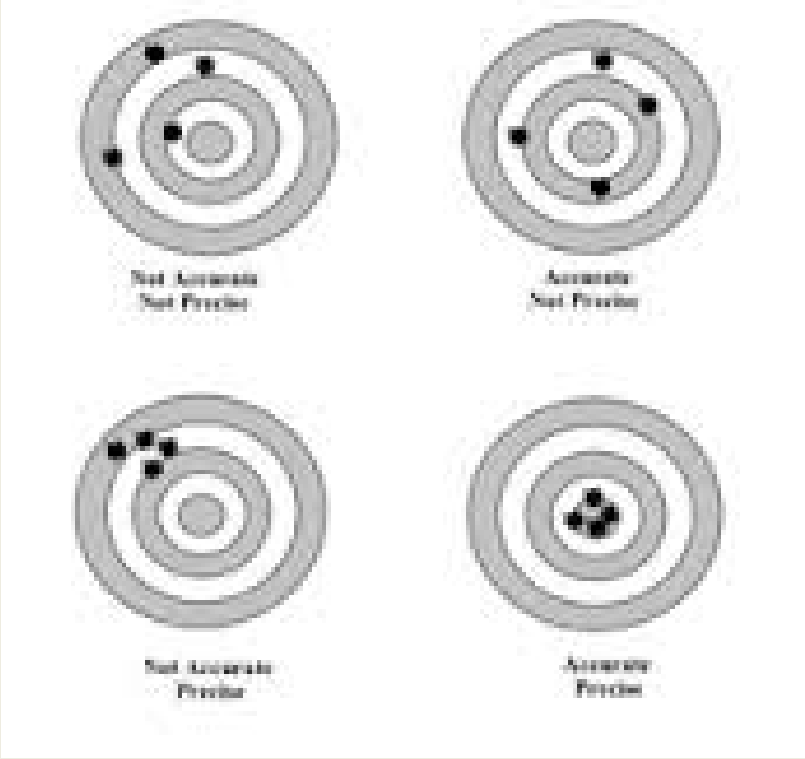
Breed Av 2012 born animals 34 kg
Round 2 Bin Sires 43 kg

410 kg

20 kg difference

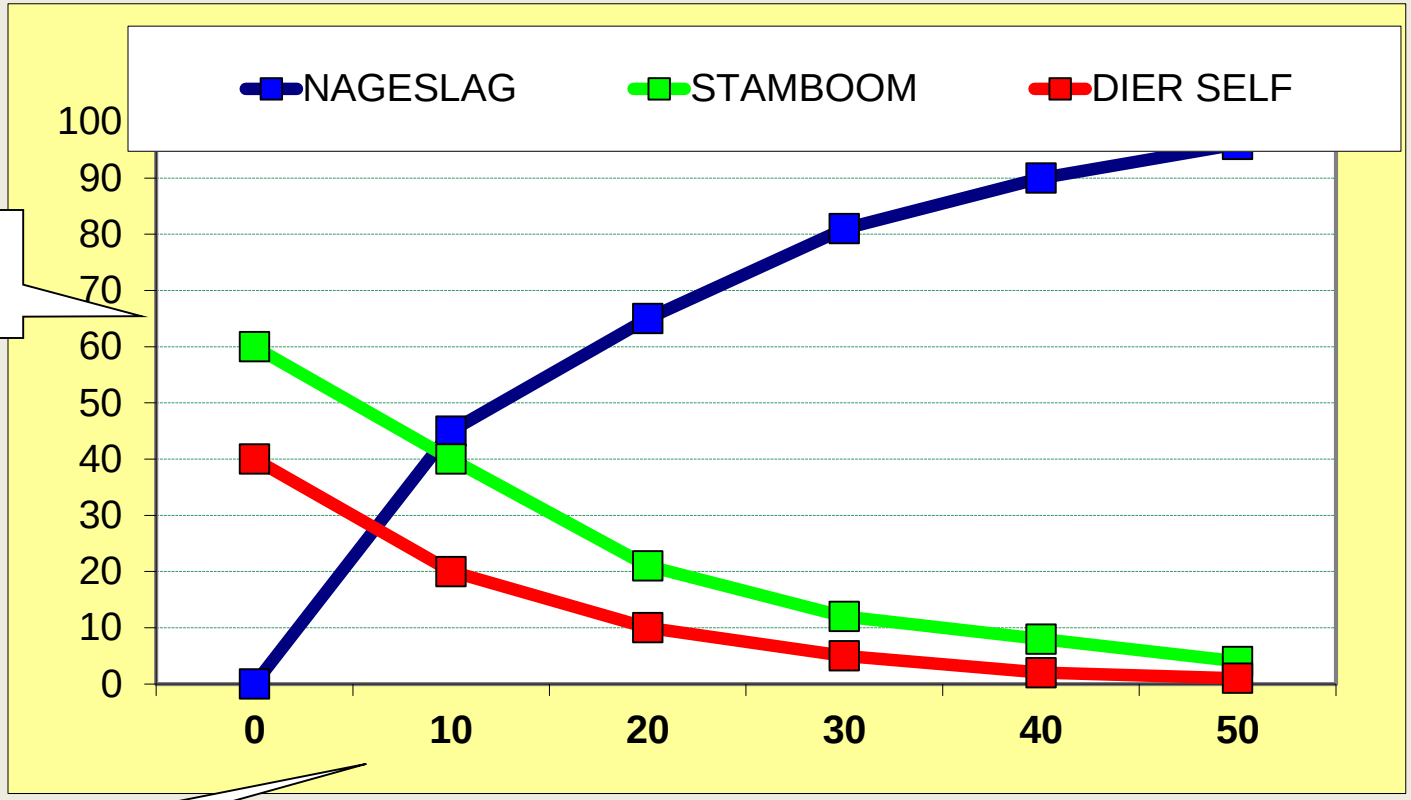
430 kg

INCREASING THE EFFECTIVENESS OF PERFORMANCE RECORDING



EBV's gebruik 3 bronne van inligting

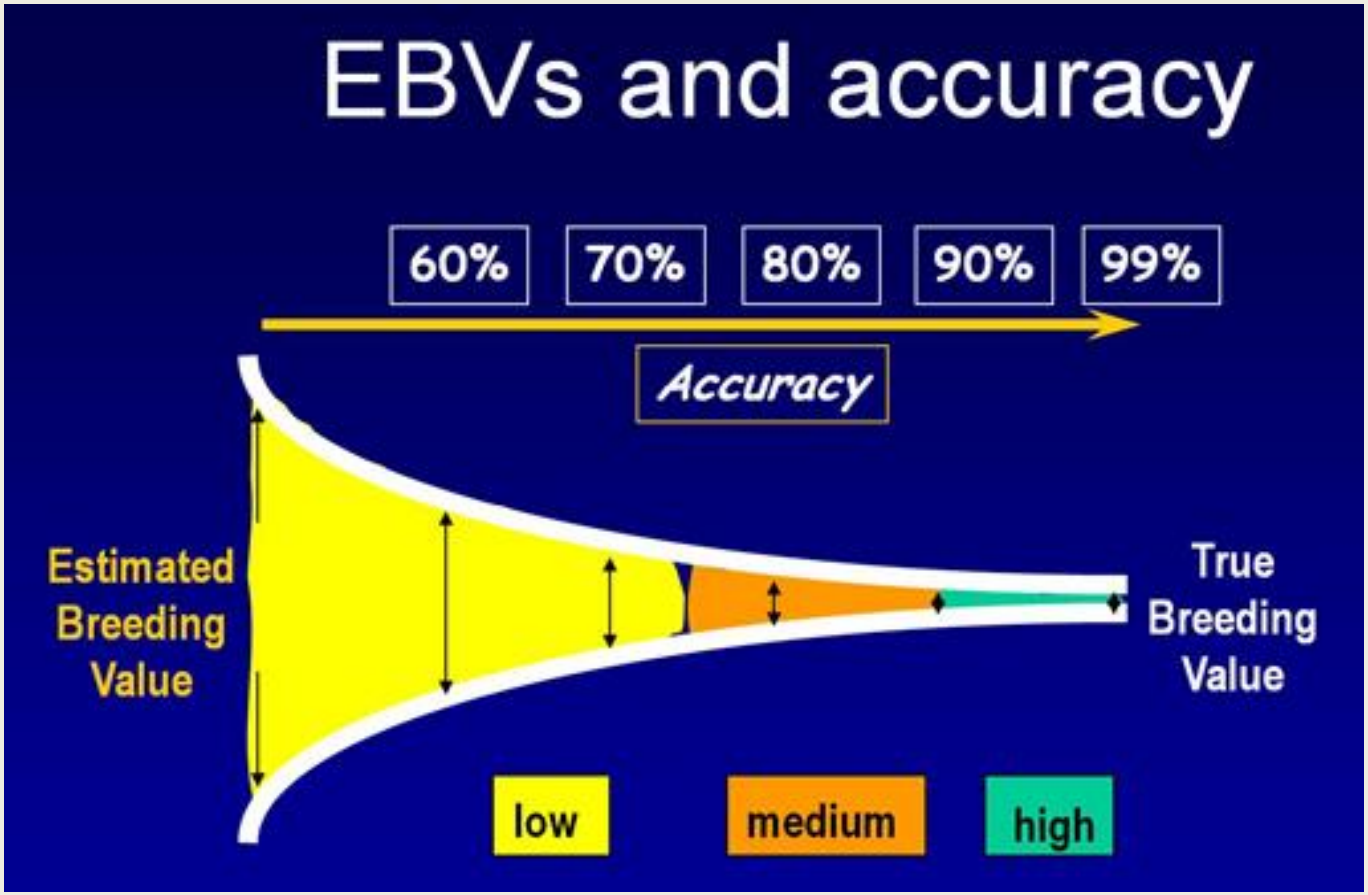
(30% oorerflik)



% bydare tot teelwaarde

Getal nageslag

ACCURACY OF EBV



UNDERSTANDING EBV ACCURACY

- **Accuracy < 50%** **LOW**
  - Use with caution, only pedigree derived
- **50% < Accuracy < 75%** **MEDUIM**
  - Indicator of generic value, some animal data incorporated
- **75% < Accuracy < 90%** **HIGH**
  - Very useful indicator of generic value, some swing expected
- **90% < Accuracy** **ACCURATE**
  - What you see is what you get !!!!

EBV AKKURAATHEID %

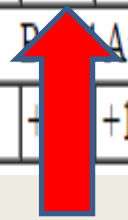
Nageslag data beskikbaar

GEEN	< 50%	50 tot & 75%	75 tot 90%	> 90%
	Laag	Middel	Hoog	Akkuraat

RISIKO TOENAME

ONVOLLEDIGE DATASTELLE

January 2015 South African Simmentaler GROUP BREEDPLAN EBVS																
	Calving Ease DIR (%)	Calving Ease DTRS (%)	Gestation Length (days)	Birth Wt. (kg)	200 Day Wt (kg)	400 Day Wt (kg)	600 Day Wt (kg)	Mat Cow Wt (kg)	Milk (kg)	Scrotal Size (cm)	Days to Calving (days)	Carcase Wt (kg)	Eye Muscle Area (sq cm)	Rib Fat (mm)	Rump Fat (mm)	Retail Beef Yield (%)	IMF (%)
EBV	+4.7	+3.1	-1.0	+1.4	+19	+28	+35	+37	+2	-	-	+20	-	-	-	-	-
Acc	37%	34%	29%	45%	50%	47%	45%	42%	35%	-	-	35%	-	-	-	-	-
Avg. EBVs for 2013 Born Calves Click for Percentiles																	
EBV	+0.4	+0.9	-0.6	+	+15	+24	+30	+32	+5	+0.3	-0.4	+17	+0.2	-0.1	+0.2	+0.1	+0.2

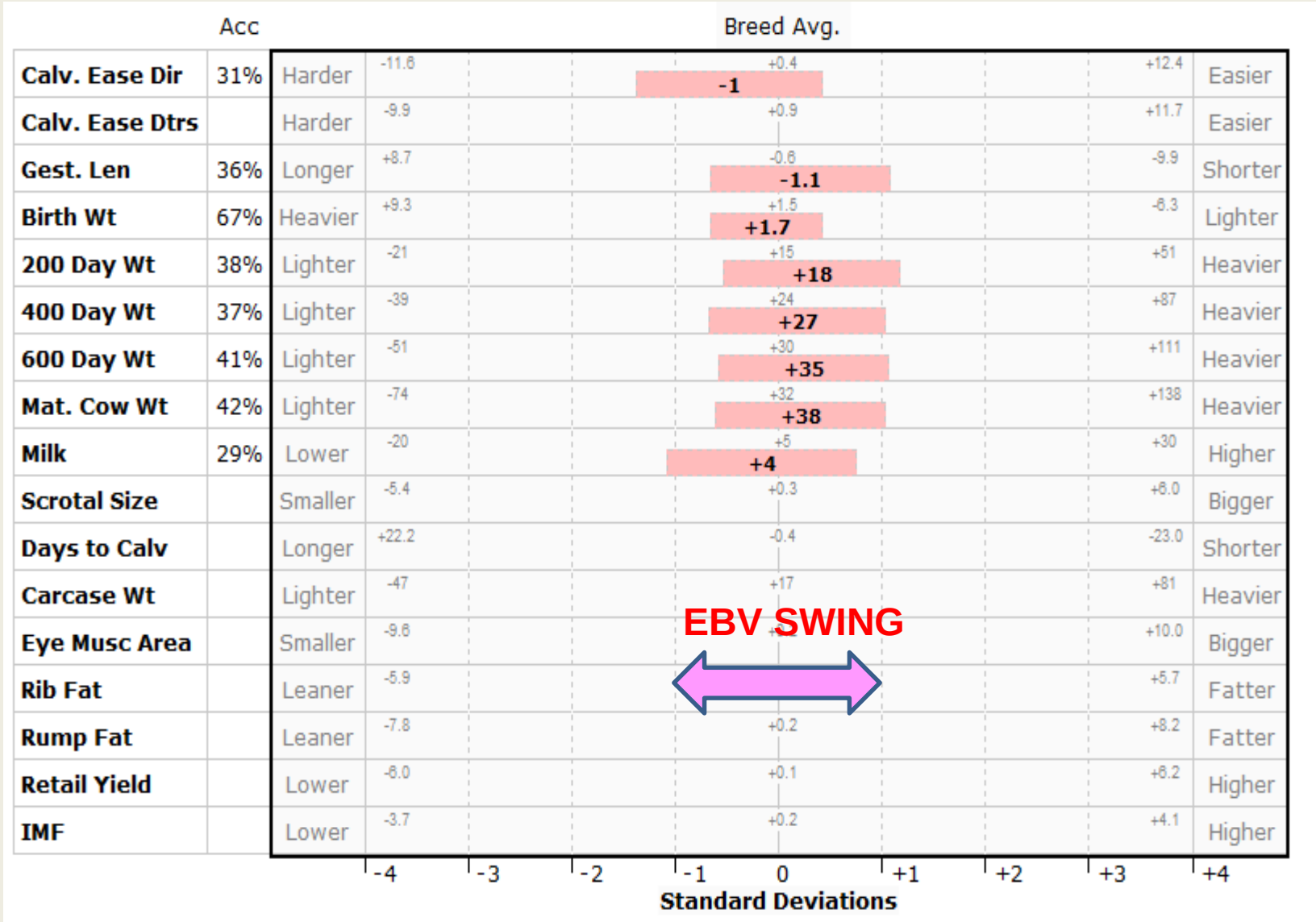


ONVOLLEDIGE DATASTELLE

January 2015 South African Simmentaler GROUP BREEDPLAN EBVS																	
	Calving Ease DIR (%)	Calving Ease DTRS (%)	Gestation Length (days)	Birth (kg)	200 Day Wt (kg)	400 Day Wt (kg)	600 Day Wt (kg)	Mat Cow Wt (kg)	Milk (kg)	Scrotal Size (cm)	Days to Calving (days)	Carcase Wt (kg)	Eye Muscle Area (sq cm)	Rib Fat (mm)	Rump Fat (mm)	Retail Beef Yield (%)	IMF (%)
EBV	-1.0	-	-1.1	+1.7	+18	+27	+35	+38	+4	-	-	-	-	-	-	-	-
Acc	31%	-	36%	67%	38%	37%	41%	42%	29%	-	-	-	-	-	-	-	-
Breed Avg. EBVs for 2013 Born Calves Click for Percentiles																	
EBV	+0.4	+0.9	-0.6	+1.5	+15	+24	+30	+32	+5	+0.3	-0.4	+17	+0.2	-0.1	+0.2	+0.1	+0.2

Traits Observed: BWT

SWING GRAPH

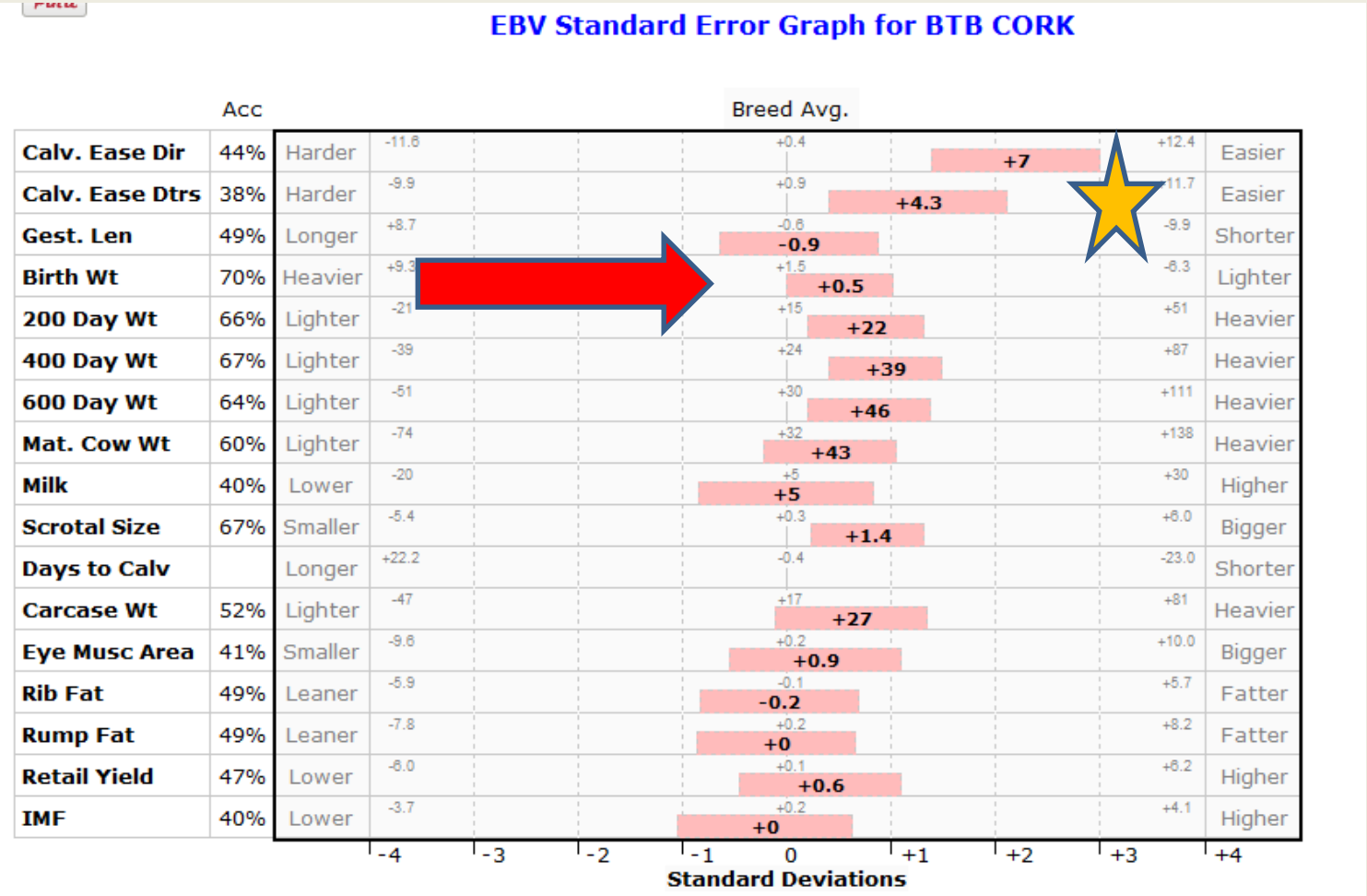

Acc
Breed Avg.
Calv. Ease Dir 31% Harder -11.6 +0.4 -1 +12.4 Easier
Calv. Ease Dtrs Harder -9.9 +0.9 +11.7 Easier
Gest. Len 36% Longer +8.7 -0.6 -1.1 -9.9 Shorter
Birth Wt 67% Heavier +9.3 +1.5 +1.7 -6.3 Lighter
200 Day Wt 38% Lighter -21 +15 +18 +51 Heavier
400 Day Wt 37% Lighter -39 +24 +27 +87 Heavier
600 Day Wt 41% Lighter -51 +30 +35 +111 Heavier
Mat. Cow Wt 42% Lighter -74 +32 +38 +138 Heavier
Milk 29% Lower -20 +5 +4 +30 Higher
Scrotal Size Smaller -5.4 +0.3 +6.0 Bigger
Days to Calv Longer +22.2 -0.4 -23.0 Shorter
Carcase Wt Lighter -47 +17 +81 Heavier
Eye Musc Area Smaller -9.6 +10.0 Bigger
Rib Fat Leaner -5.9 +5.7 Fatter
Rump Fat Leaner -7.8 +0.2 +8.2 Fatter
Retail Yield Lower -6.0 +0.1 +6.2 Higher
IMF Lower -3.7 +0.2 +4.1 Higher
EBV SWING
-4 -3 -2 -1 0 +1 +2 +3 +4
Standard Deviations

VOLLEDIGE DATASTEL

January 2015 South African Simmentaler GROUP BREEDPLAN EBVS																	
	Calving Ease DIR (%)	Calving Ease DTRS (%)	Gestation Length (days)	Birth Wt	200 Day Wt (kg)	400 Day Wt (kg)	600 Day Wt (kg)	Mat Cow Wt (kg)	Milk (kg)	Scrotal Size (cm)	Days to Calving (days)	Carcase Wt (kg)	Eye Muscle Area (sq cm)	Rib Fat (mm)	Rump Fat (mm)	Retail Beef Yield (%)	IMF (%)
EBV	+7.0	+4.3	-0.9		+22	+39	+46	+43	+5	+1.4	-	+27	+0.9	-0.2	0.0	+0.6	0.0
Acc	44%	38%	49%	70%	66%	67%	64%	60%	40%	67%	-	52%	41%	49%	49%	47%	40%
Breed Avg. EBVs for 2013 Born Calves Click for Percentiles																	
EBV	+0.4	+0.9	-0.6	+1.5	+15	+24	+30	+32	+5	+0.3	-0.4	+17	+0.2	-0.1	+0.2	+0.1	+0.2

Traits Observed: BWT,200WT,400WT,SS,FAT,EMA,IMF

SWING GRAPH


EBV Standard Error Graph for BTB CORK
Acc
Breed Avg.
Calv. Ease Dir 44% Harder -11.6 +0.4 +7 +12.4 Easier
Calv. Ease Dtrs 38% Harder -9.9 +0.9 +4.3 +11.7 Easier
Gest. Len 49% Longer +8.7 -0.6 -0.9 -9.9 Shorter
Birth Wt 70% Heavier +9.3 +1.5 +0.5 -6.3 Lighter
200 Day Wt 66% Lighter -21 +15 +22 +51 Heavier
400 Day Wt 67% Lighter -39 +24 +39 +87 Heavier
600 Day Wt 64% Lighter -51 +30 +46 +111 Heavier
Mat. Cow Wt 60% Lighter -74 +32 +43 +138 Heavier
Milk 40% Lower -20 +5 +5 +30 Higher
Scrotal Size 67% Smaller -5.4 +0.3 +1.4 +6.0 Bigger
Days to Calv Longer +22.2 -0.4 -23.0 Shorter
Carcase Wt 52% Lighter -47 +17 +27 +81 Heavier
Eye Musc Area 41% Smaller -9.6 +0.2 +0.9 +10.0 Bigger
Rib Fat 49% Leaner -5.9 -0.1 -0.2 +5.7 Fatter
Rump Fat 49% Leaner -7.8 +0.2 +0 +8.2 Fatter
Retail Yield 47% Lower -6.0 +0.1 +0.6 +6.2 Higher
IMF 40% Lower -3.7 +0.2 +0 +4.1 Higher
-4 -3 -2 -1 0 +1 +2 +3 +4
Standard Deviations

THE ULTIMATE DATASET

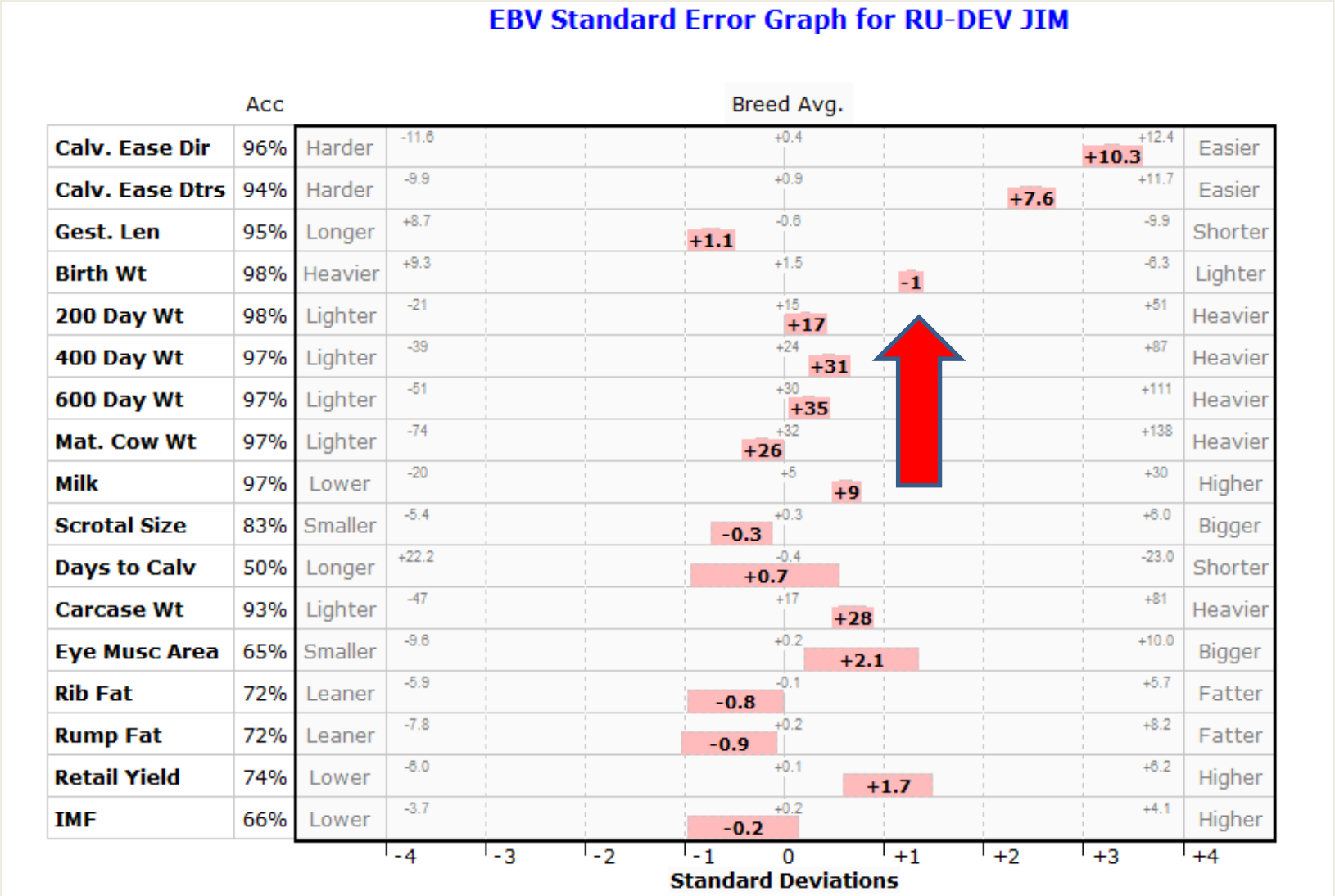
January 2015 South African Simmentaler GROUP BREEDPLAN EBVS																
	Calving Ease DIR (%)	Calving Ease DTRS (%)	Gestation Length (days)	[illegible] (kg)	200 Day Wt (kg)	400 Day Wt (kg)	600 Day Wt (kg)	Mat Cow Wt (kg)	Milk (kg)	Scrotal Size (cm)	Days to Calving (days)	Carcase Wt (kg)	Eye Muscle Area (sq cm)	Rib Fat (mm)	Rump Fat (mm)	Retail Beef Yield (%)	IMF (%)
EBV	**+10.3**	**+7.6**	+1.1	**-1.0**	+17	+31	+35	+26	**+9**	-0.3	+0.7	**+28**	+2.1	-0.8	-0.9	+1.7	-0.2
Acc	96%	94%	95%	98%	98%	97%	97%	97%	97%	83%	50%	93%	65%	72%	72%	74%	66%
Breed Avg. EBVs for 2013 Born Calves Click for Percentiles																	
EBV	+0.4	+0.9	-0.6	+1.5	+15	+24	+30	+32	+5	+0.3	-0.4	+17	+0.2	-0.1	+0.2	+0.1	+0.2

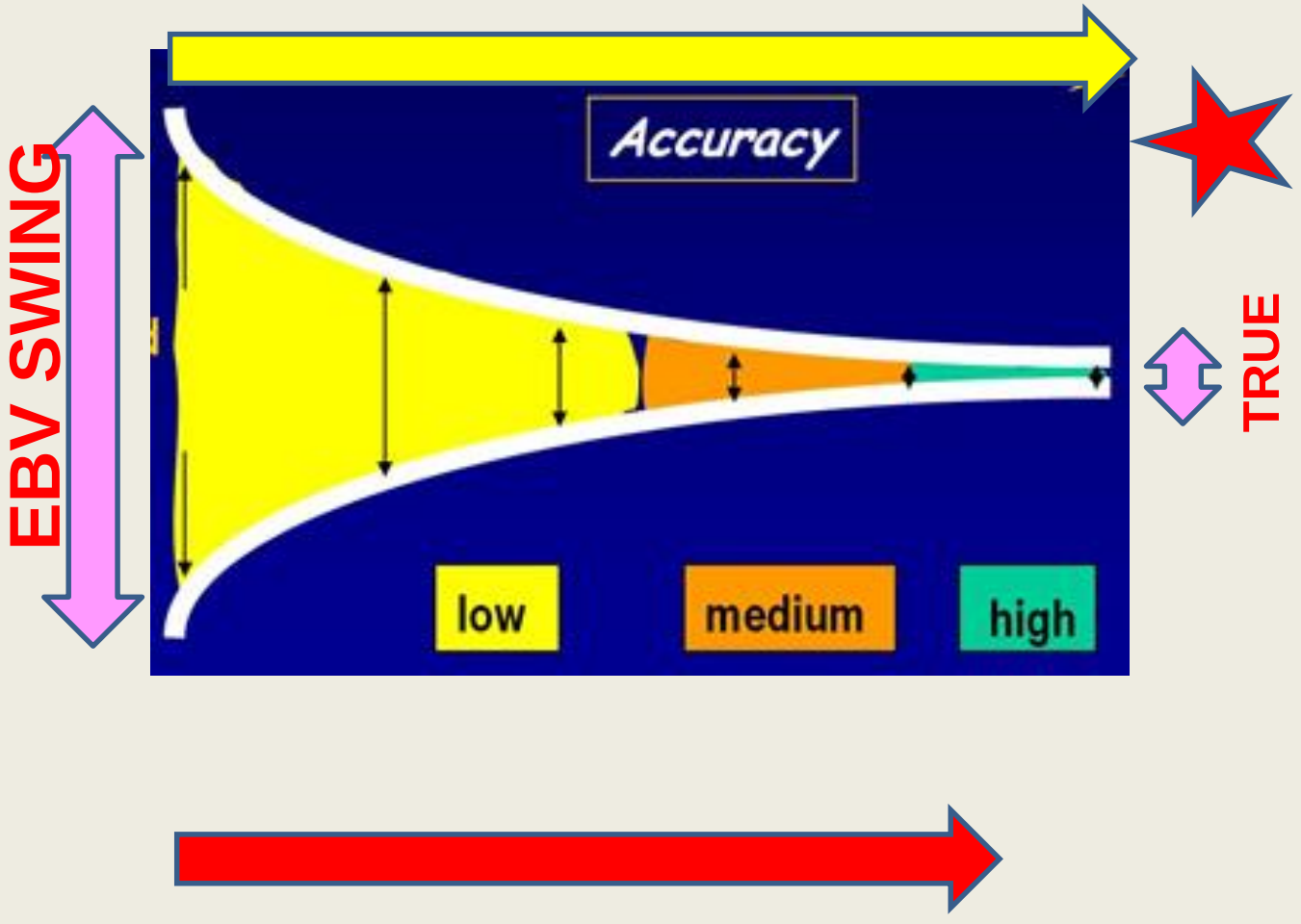
Traits Observed: BWT,200WT(x2),400WT(x2),SS

Statisti[illegible], Progeny Analysed: **1470**, Scan Progeny: **9**, Number of Dtrs: **334**

BTB

THE ULTIMATE SWING GRAPH




Accuracy
EBV SWING
TRUE
low
medium
high
MORE DATA

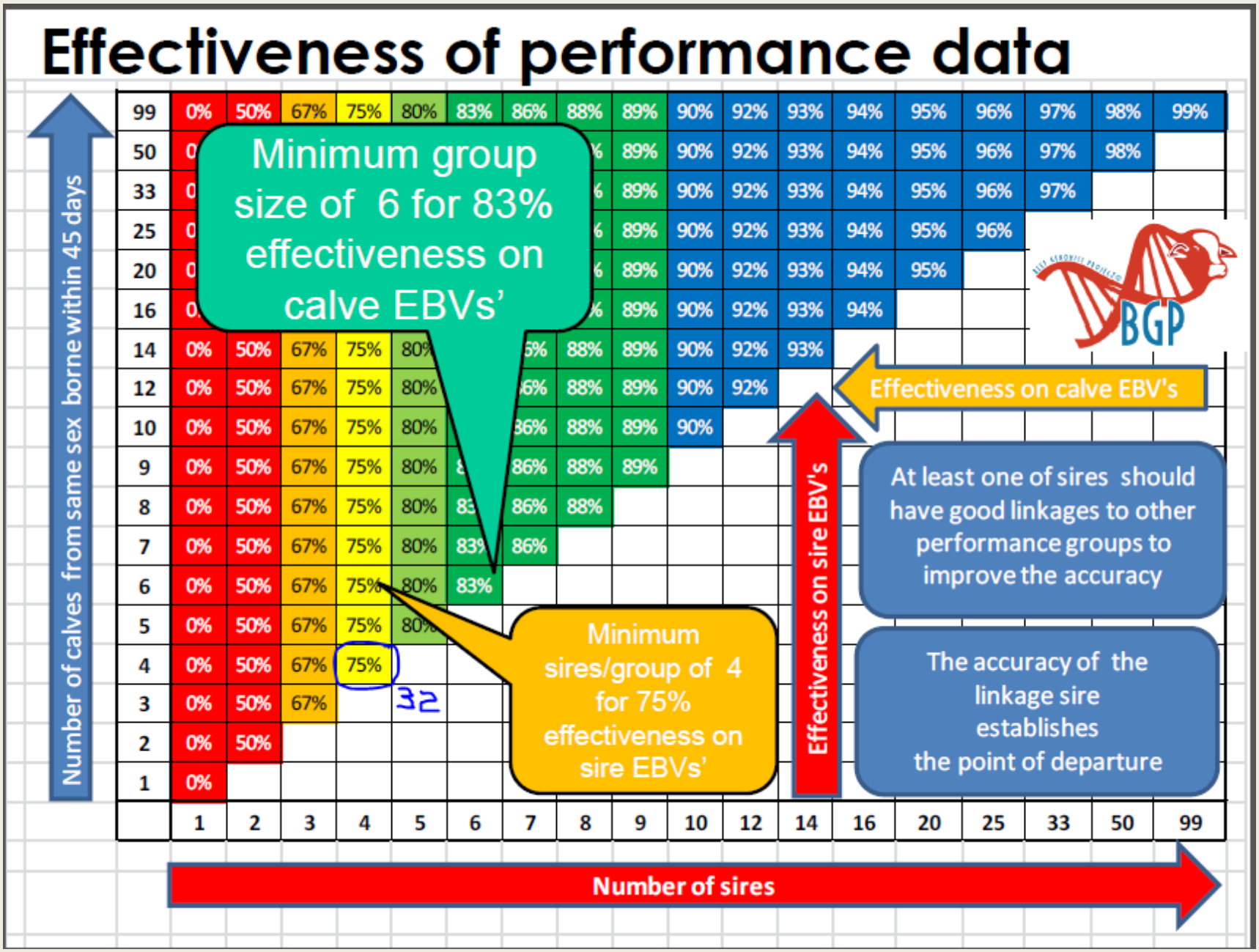
VERBETERING VAN AKKURAATHEID

- Increase contemporary group size
  - Shorter mating season (limit number of age slices)
  - Weigh all on one day

VERBETERING VAN AKKURAATHEID

- **Gebruik meer bulle en beplan dekgroepe**

Effectiveness of performance data



VERKORT DEKSEISOEN

KALWERS per JAAR	100
Dekseisoen	1 Jan tot 31 Des
Aantal bulle	2
Aantal groepe (45 dae)	8
Kalwers/groep/geslag/bul	3
Verwagte akkuraatheid	50%

KALWERS per JAAR	100
Dekseisoen	84 dae
Aantal bulle	5
Aantal groepe (45 dae)	2
Aantal kalwers per groep	5
Verwagte akkuraatheid	80%

VERBETERING VAN AKKURAATHEID

- **MOETS:**
- **Gebruik koppel vaars (meer is altyd beter)**
  - **KI (gebruik van die BGP bulle)**
  - **Ruil bulle uit**
  - **Roteer bulle tussen telers**
- **Verander jou koeigroepe elke jaar**
- **Gebruik bulle uit kuddes met goeie akkuraatheid (3 ster +)**
- **Weeg, meet, scan en score BCS**

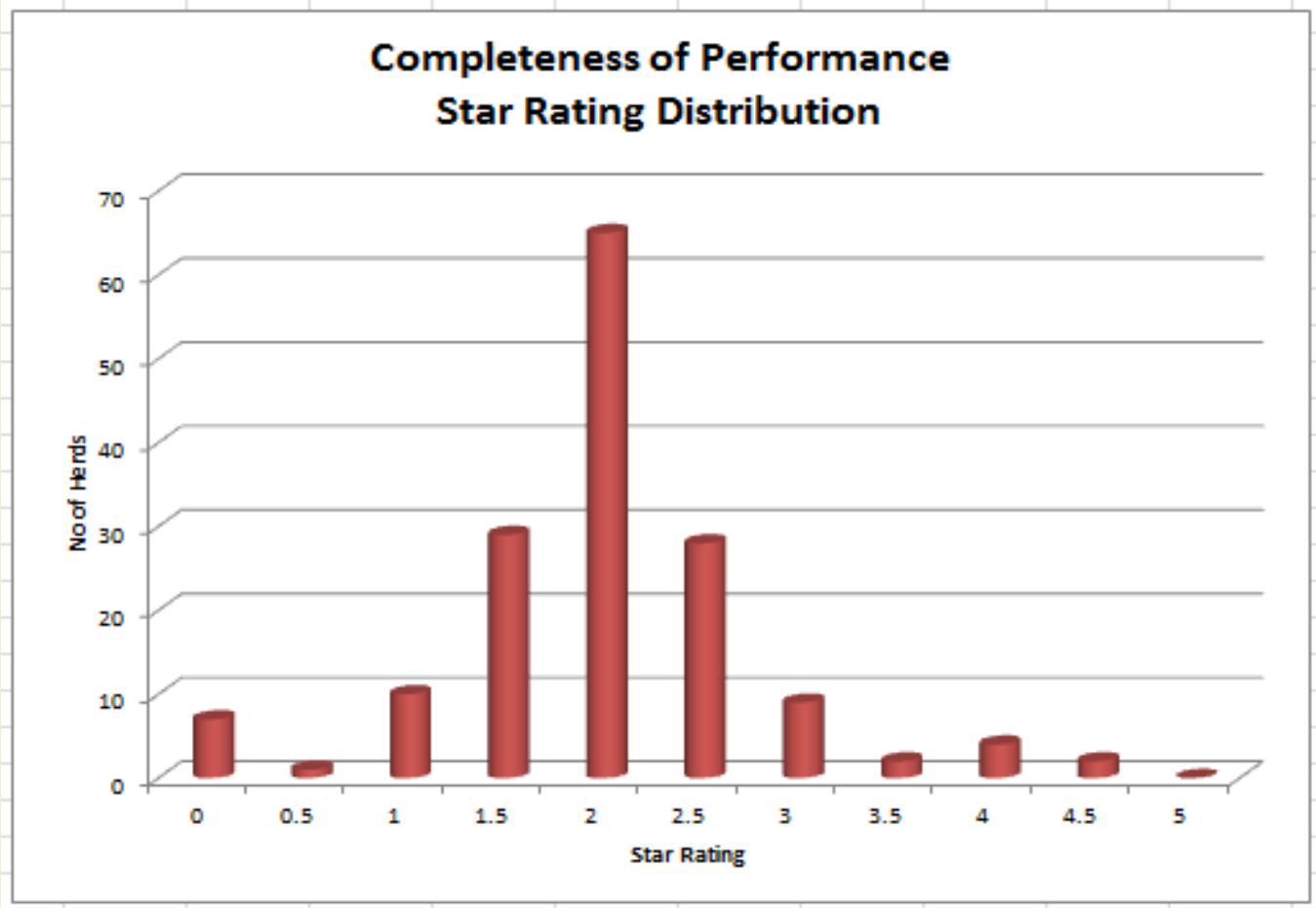
- **MOENIES**
- **Moenie klusenaar teling bedryf nie**
- **Moenie al die bulle in een jaar vervang nie.**
- **Moenie die vroulike nageslag van ‘n bul almal met dieselde bul dek nie.**
- **Moenie voorkeur behandeling aan geselekteerde diere gee nie.**

STANDARD BREEDPLAN MEASUREMENTS

GROWTH	FERTILITY	CARCASE	OTHER	FUTURE
Bwt	SS	EMA	BCS	HH
200d	DTC	IMF	**NFi**	CS
400d	GL	FAT		Docility
600d	CE-dir			Structure
MCW				Udder score

Birth weights

Completeness of Performance Star Ratings



Criteria Used to Generate "Completeness of Information" Summary

For each individual trait, a score of 1–10 is allocated based on the percentage of animals recorded for that trait. The score of 1 – 10 is then multiplied by the "Multiplier" to create a score out of the "Max Score". For example, if 91% of animals had a DOB recorded, a score of 9 x 1.25 = 11.25 / 12.5 would be given.

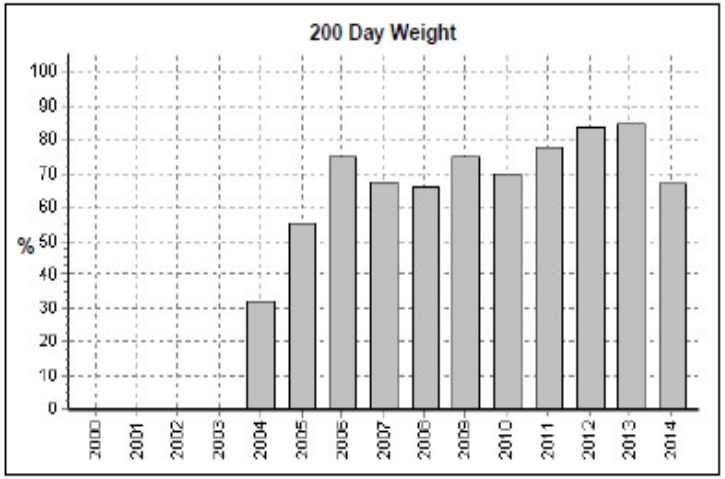
Block	Trait	Max Score	Score 10	9	8	7	6	5	4	3	2	1	0	Multiplier
Animal / 40	DOB	10	>=95%	>=90%	>=85%	>=80%	>=75%	>=70%	>=65%	>=60%	>=55%	>=50%	<50%	x 1.0
	Sire	10	>=95%	>=90%	>=85%	>=80%	>=75%	>=70%	>=65%	>=60%	>=55%	>=50%	<50%	x 1.0
	Dam	10	>=95%	>=90%	>=85%	>=80%	>=75%	>=70%	>=65%	>=60%	>=55%	>=50%	<50%	x 1.0
	Sex Ratio	5	0.9 - 1.1	0.8 - 1.2	0.7 - 1.3	0.6 - 1.4	0.5 - 1.5	0.4 - 1.6	0.3 - 1.7	0.2 - 1.8	0.1 - 1.9	<0.1 - >1.9	-	x 0.5
	Recipient Dam	5	>90%	>80%	>70%	>60%	>50%	>40%	>30%	>20%	>10%	>0%	0%	x 0.5
Weight / 50	200	12.5	>90%	>80%	>70%	>60%	>50%	>40%	>30%	>20%	>10%	>0%	0%	x 1.25
	400	12.5	>90%	>80%	>70%	>60%	>50%	>40%	>30%	>20%	>10%	>0%	0%	x 1.25
	600	12.5	>90%	>80%	>70%	>60%	>50%	>40%	>30%	>20%	>10%	>0%	0%	x 1.25
	MCW	12.5	>90%	>80%	>70%	>60%	>50%	>40%	>30%	>20%	>10%	>0%	0%	x 1.25
Carcase / 30	EMA	12.5	>90%	>80%	>70%	>60%	>50%	>40%	>30%	>20%	>10%	>0%	0%	x 1.25
	Rib	6.25	>90%	>80%	>70%	>60%	>50%	>40%	>30%	>20%	>10%	>0%	0%	x 0.625
	Rump	6.25	>90%	>80%	>70%	>60%	>50%	>40%	>30%	>20%	>10%	>0%	0%	x 0.625
	IMF	5	>90%	>80%	>70%	>60%	>50%	>40%	>30%	>20%	>10%	>0%	0%	x 0.5
Birth / 35	AI Date	10	>90%	>80%	>70%	>60%	>50%	>40%	>30%	>20%	>10%	>0%	0%	x 1.0
	Calving Ease	15	>90%	>80%	>70%	>60%	>50%	>40%	>30%	>20%	>10%	>0%	0%	x 1.5
	Birth Weight	10	>90%	>80%	>70%	>60%	>50%	>40%	>30%	>20%	>10%	>0%	0%	x 1.0
Fertility / 40	Scrotal	20	>90%	>80%	>70%	>60%	>50%	>40%	>30%	>20%	>10%	>0%	0%	x 2.0
	DTC	20	>90%	>80%	>70%	>60%	>50%	>40%	>30%	>20%	>10%	>0%	0%	x 2.0
Other / 5	Docility	0	>90%	>80%	>70%	>60%	>50%	>40%	>30%	>20%	>10%	>0%	0%	x 0.0
	Structure	5	>90%	>80%	>70%	>60%	>50%	>40%	>30%	>20%	>10%	>0%	0%	x 0.5
	Flight Time	0	>90%	>80%	>70%	>60%	>50%	>40%	>30%	>20%	>10%	>0%	0%	x 0.0
	DNA	0	>90%	>80%	>70%	>60%	>50%	>40%	>30%	>20%	>10%	>0%	0%	x 0.0

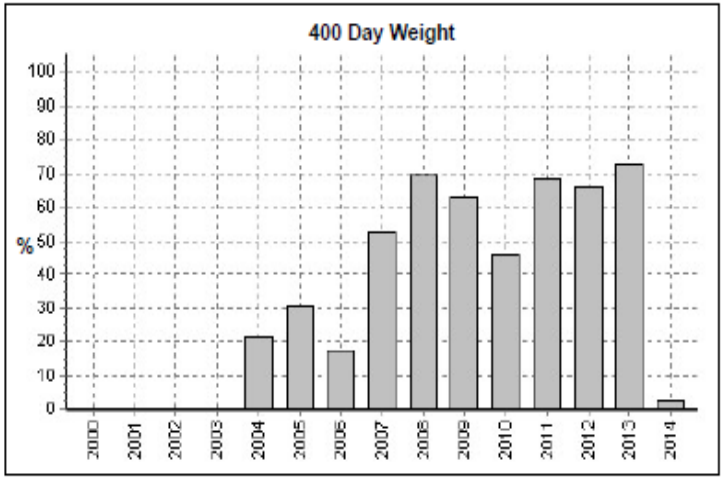
** If a herd does not have any calves bred by AI, a maximum score is allocated for AI date. Likewise, if a herd does not have any calves bred by ET, a maximum score is allocted for recipient dam.*

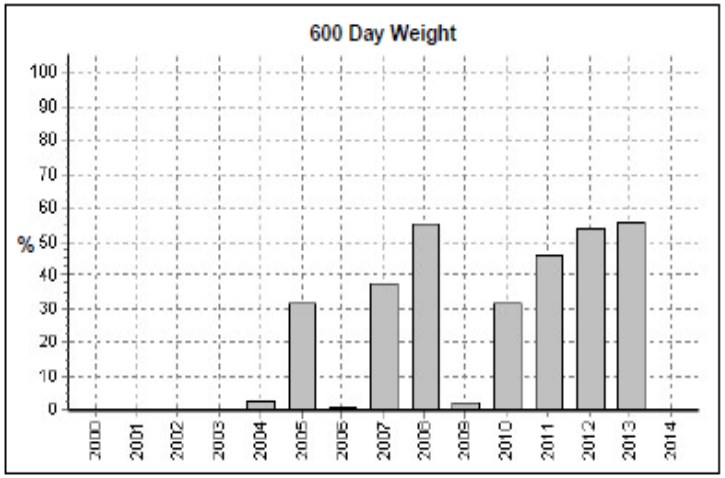
Once the individual traits have been scored, the scores are tallied to give a total score for each trait block, plus an overall score out of 200. The overall score is also given a rating on a 0-5 scale based on the scale provided below. the overall score and rating are calculated for each individual calving year, plus averaged across the past 5 year period.

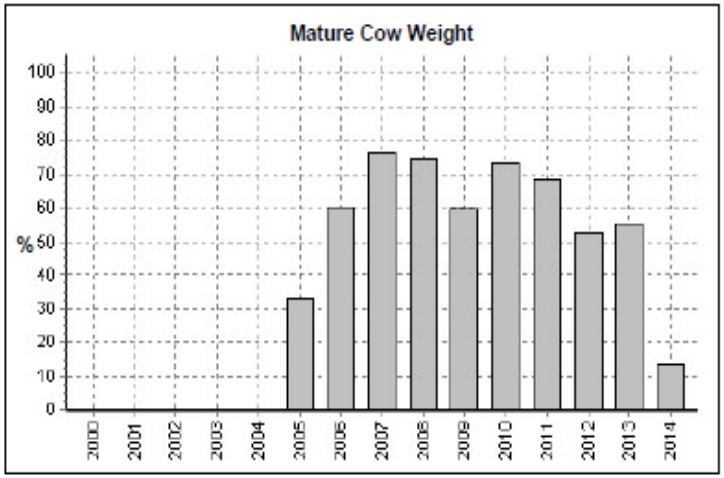
Rating	5	4.5	4	3.5	3	2.5	2	1.5	1	0.5	0
Score	165+	150 - 165	135 - 150	120 - 135	105 - 120	90 - 105	75 - 90	60 - 75	45 - 60	30 - 45	0 - 30

BTB
Completeness of Performance
Weight



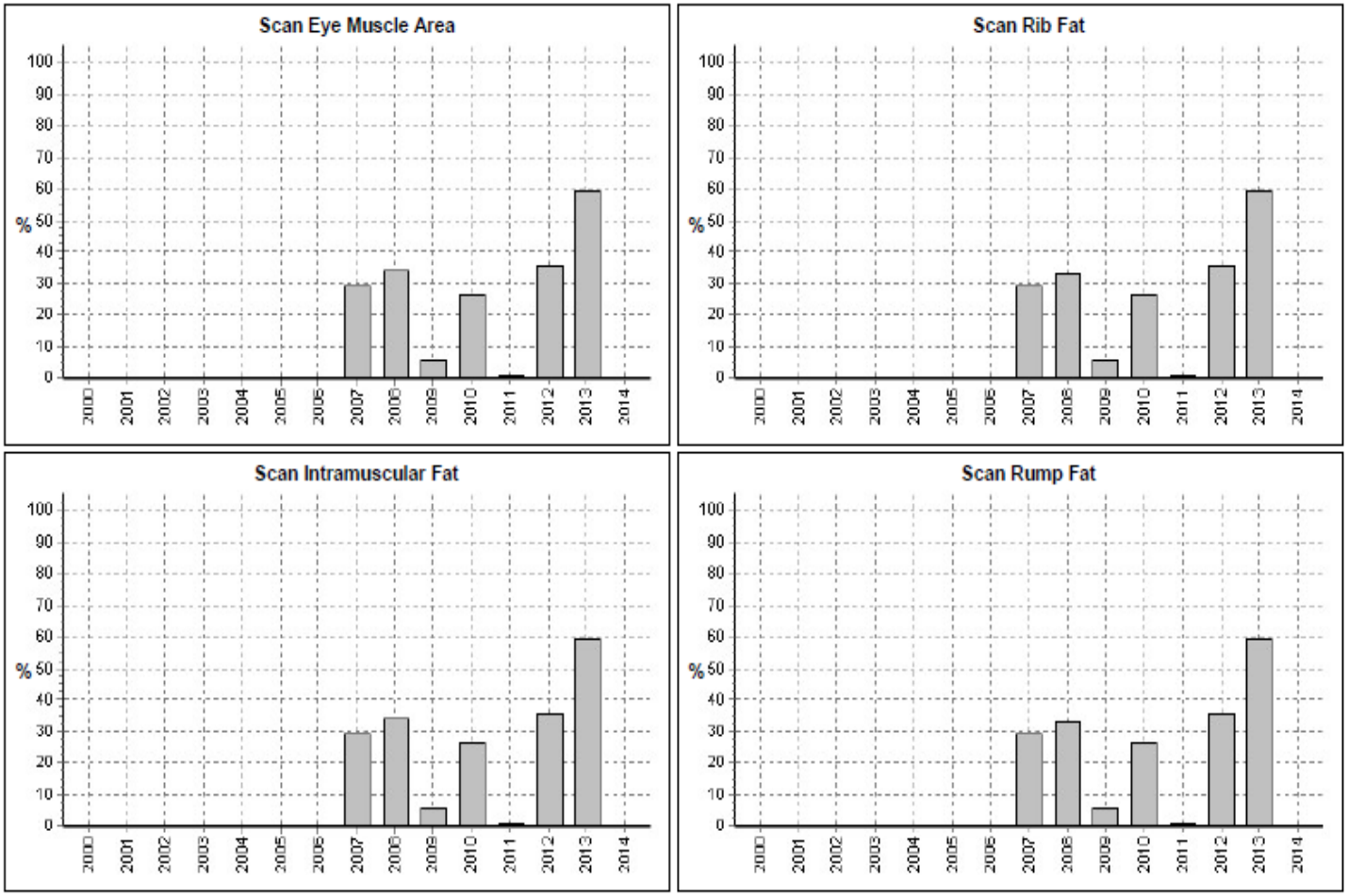






28/05/2015

BTB
Completeness of Performance
Carcase



28/05/2015

BTB
Completeness of Performance
Completeness of Information Summary

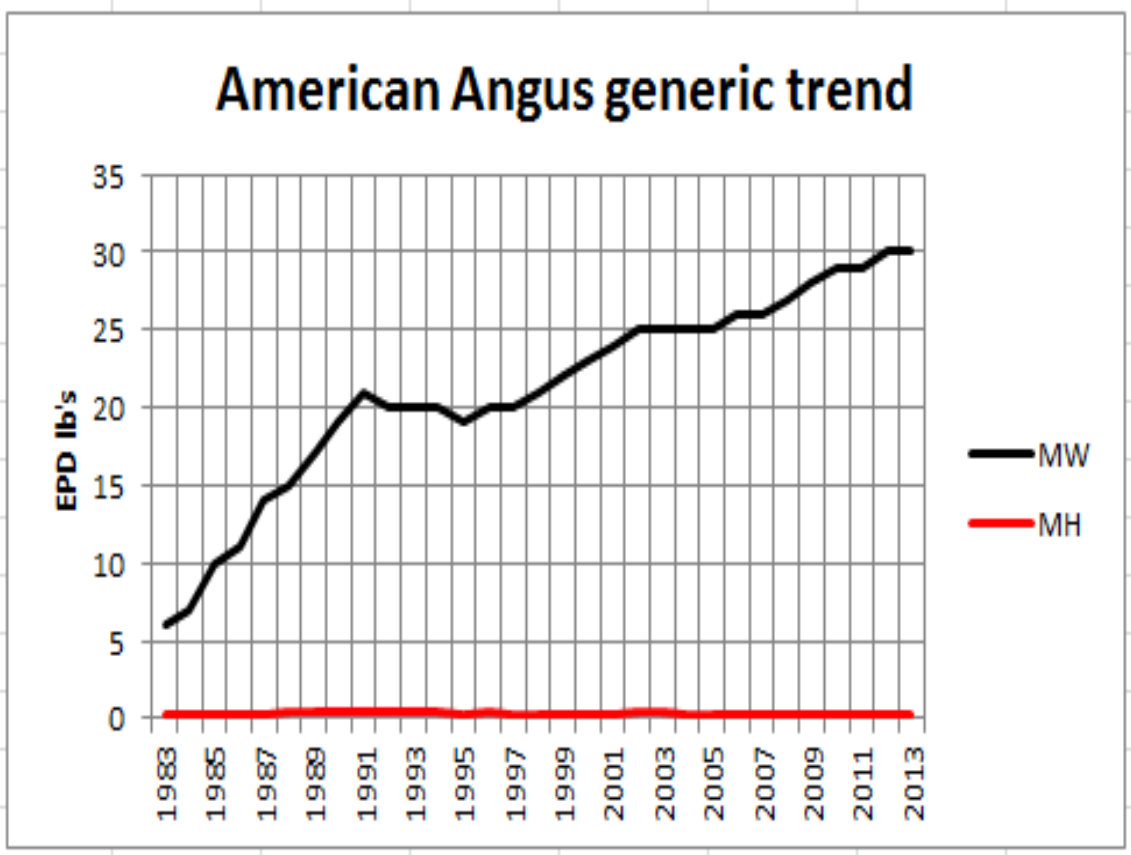
Calving Year	Animal Details (/40)	Weight Traits (/50)	Carcase Traits (/30)	Birth Traits (/35)	Fertility Traits (/40)	Other Traits (/5)	Total (/200)	Rating (/5)
2000	16	0	0	10	0	0	26	0
2001	0	0	0	0	0	0	0	0
2002	16	0	0	10	0	0	26	0
2003	16	0	0	10	0	0	26	0
2004	23	10	0	18	2	0	52	1
2005	37	23	0	34	6	0	100	2.5
2006	39	23	0	32	2	0	95	2.5
2007	40	31	9	34	2	0	115	3
2008	40	35	12	35	30	0	152	4.5
2009	40	28	3	35	22	0	128	3.5
2010	40	30	9	35	16	0	130	3.5
2011	40	34	3	35	32	0	143	4
2012	40	35	12	35	30	0	152	4.5
2013	40	36	18	35	32	0	161	4.5
2014	40	13	0	35	18	0	106	3

Calving Year	Animal Details (/40)	Weight Traits (/50)	Carcase Traits (/30)	Birth Traits (/35)	Fertility Traits (/40)	Other Traits (/5)	Total (/200)	Rating (/5)
2008 - 2012	40	32	8	35	26	0	141	4

BTB

FUTURE EBV's

* HH- Hip height



FUTURE EBV's

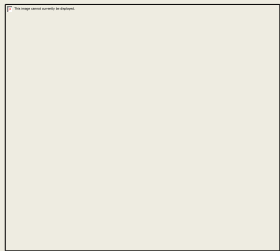
* HH- Hip height

- **Dankie**

BTB

EBV's

- Die Blup teeltwaardes (TW), bereken deur **BREEDPLAN**, weerspieël wat die dier aan sy nageslag
- oordra en nie hoeveel kos hy/sy gekry het nie. Deur middel van TW's kan diere binne ras, tussen kuddes en oor
- **Geboorte** = Laer beter
  CED = Kalwingsgemak direk hoër beter **CEM** = Kalwingsgemak dogters hoër beter
- **200 Dae** = Speengewig hoër beter
- **400 Dae** = 400 dae gewig hoër beter
- **600 Dae** = 600 dae gewig **Koei** = Volwasse koei gewig
  Melk = Melkproduksievermoë dogters



Bul se geboortegewig as maatstaf van nageslag se geboortegewig/kalwingsgemak

Hy weeg 43 kg

Hy weeg 43 kg

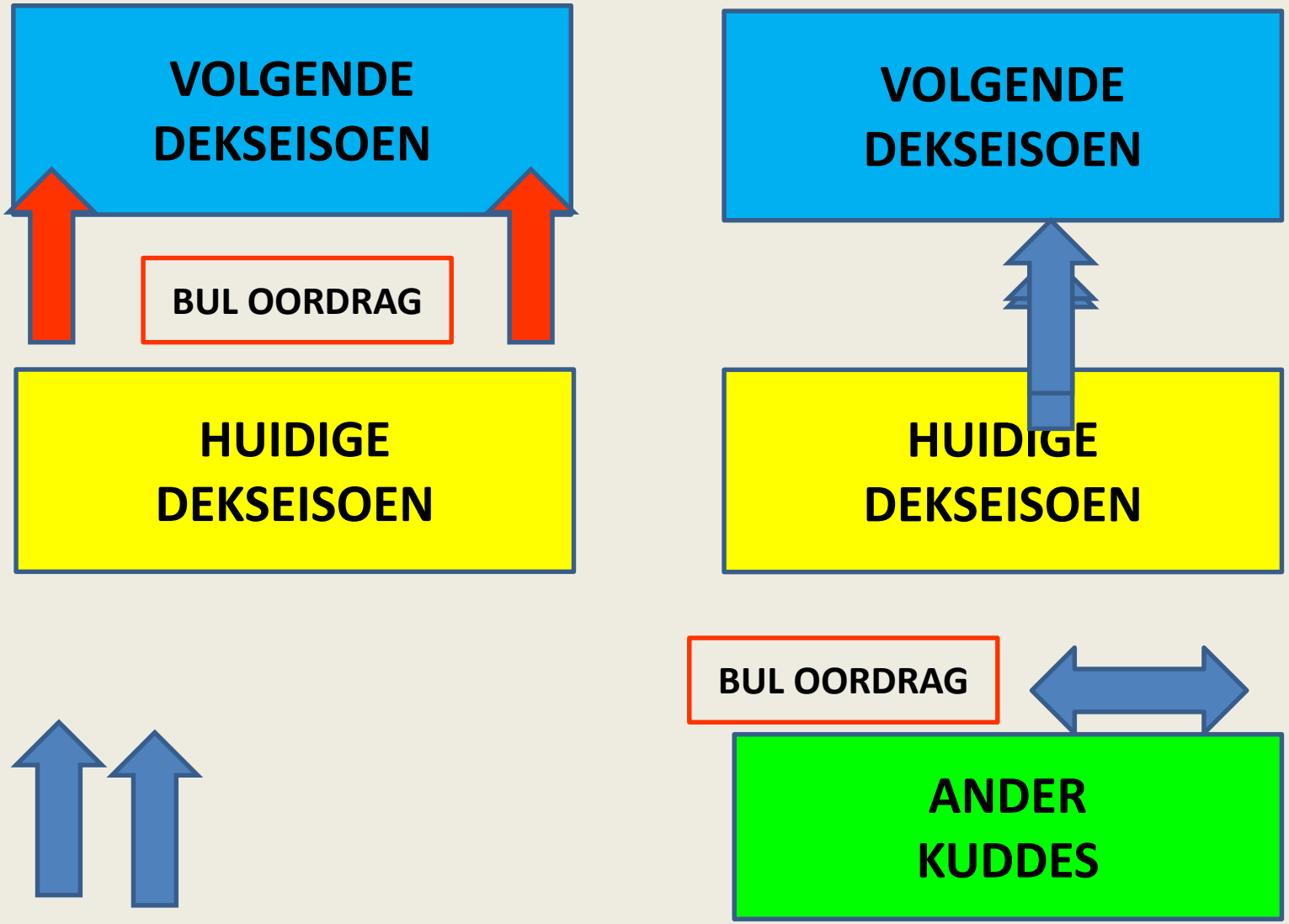
2003 Hoë AKKURAATHEID BREEDPLAN TEELWAARDES

Geboortegewig dir = Bottom 1%
Kalwingsgemak = Bottom 0.5%

Geboortegewig dir = Top 1%
Kalwingsgemak = Top 0.5%

END

VERBETER AKKURAATHEID




ABSA
Member of BARCLAYS
2014
VRYBURG
SKOU
50 JARIGE
NASIONALE
KAMPIOENSKAPPE
KAMPIOEN
HERTOGIN
ABSA
103
4.8
MOLATEK
ERMOL

Goeie koei??

Watter een se dogters kalf makliker ?
Wat se die beoordelaars.

2003 HOE AKKURAATHEID BLUP TEELWAARDES

Kalwingsgemak dogters =
Top 2%

Kalwingsgemak dogters =
Bottom 5%

-
-

BTB