







# LIDMAATSKAPFOOIE FOOIE / MEMBERSHIP FEES

## SOCIETY FEES / GENOOTSKAP FOOIE

ANNUAL SUBSCRIPTION / JAARLIKSE SUBSKRIPSIE	-	R	500.00
VAT / BTW 14%	-	R	70.00
TOTAL / TOTAAL	-	R	570.00

(Gelde geldig net tot Maart 2012/ Fees valid until March 2012)

**Bankbesonderhede/ Banking details: ABTG**

FNB, College Crossing Bloemfontein (230137),

Tjekrekening/ Cheque Acc: 517 1004 2254

(INDIEN NIE BY SA STAMBOEK GEREGISTREER IS NIE / IF NOT REGISTERED AT SA STUDBOOK)

## STUD BOOK FEES / STAMBOEK FOOIE

ANNUAL SUBSCRIPTION / JAARLIKSE SUBSKRIPSIE	-	R	250.00
DIRECT DEALING / DIREKTE HANDELING	-	R	250.00
REGISTRATION OF PREFIX / VOORVOEGSEL REGISTRASIE	-	R	105.00
SUB TOTAL / SUB TOTAAL		R	605.00
VAT / BTW 14%		R	84.70
TOTAL / TOTAAL		R	689.70

(Above mentioned fees are valid from 1 July 2010 until 30 June 2011 / Bogenoemde gelde is geldig vanaf 1 Julie 2011 tot en met 30 Junie 2012)

**Bankbesonderhede / Banking details:** SA Stamboek/Studbook,

Standard Bank, Brandwag (055534),

Acc nr /Rekeningnr. 041 191 358

TWO CHEQUES, ONE FOR THE ACB SOCIETY R \_\_\_\_\_ AND ONE FOR SA STUDBOOK R \_\_\_\_\_ ARE ATTACHED. / TWEE TJEKS, EEN VIR DIE ABT-GENOOTSKAP R \_\_\_\_\_ EN EEN VIR SA STAMBOEK R \_\_\_\_\_ WORD HIERBY INGESLUIT.

I AGREE TO OBSERVE AND BE BOUND BY THE CONSTITUTION AND THE RULES, REGULATIONS AND BYE-LAWS OF THE AFRIKANER CATTLE BREEDERS' SOCIETY OF SOUTH AFRICA AS WELL AS SA STUD BOOK / EK ONDERNEEM OM MY AAN DIE BEPALINGE IN DIE GRONDWET EN DIE REËLS, REGULASIES EN VERORDENINGE VAN DIE AFRIKANERBEESTELERSGENOOTSKAP VAN SUID-AFRIKA SOWEL AS SA STAMBOEK TE ONDERWERP.

SIGNED AT \_\_\_\_\_ THIS \_\_\_\_\_ DAY  
ONDERTEKEN TE \_\_\_\_\_ HIERDIE \_\_\_\_\_ DAG VAN \_\_\_\_\_ 20 \_\_\_\_\_.

\_\_\_\_\_  
SIGNATURE OF APPLICANT  
HANDTEKENING VAN APPLIKANT

\_\_\_\_\_  
SIGNATURE OF SOCIETY  
HANDTEKENING VAN GENOOTSKAP





# NATIONAL BEEF RECORDING AND IMPROVEMENT SCHEME

Leslie Bergh  
ARC-Animal Production Institute

## What is Performance Testing?

Performance testing is a breeding, selection and management tool for more profitable beef production. The saying “**To measure is to know**” is true more than ever before for beef cattle farming.

## What is the objective of the National Beef Recording and Improvement Scheme?

- To supply beef cattle farmers with objective performance information and breeding values to identify and select the best performing animals;
- To supply beef cattle farmers with value adding management information to improve management practices; and
- To use this information to improve the biological and economic efficiency of beef production.

## What does the Scheme entail?

The Scheme covers all phases of the production process, namely:

### **Reproduction Phase (Phase A1):**

Reproduction and ease of calving traits of cows and bulls are evaluated by means of mating and calving data. Except for the recording of calving/birth information, provision is also made for the recording of mating, AI, pregnancy diagnoses, etc.

### **Suckling Phase (Phase A2)**

Mothering ability and efficiency of the cows, and the pre-weaning growth rate of their calves, is evaluated by means of the cow weights and pre-weaning and weaning weights of their calves.

### **Post Weaning Phases:**

#### **On-Farm Recordings (Phase B)**

Post weaning growth rate of young heifers, bulls and oxen is evaluated under normal farming conditions by means of their weights at 12 and 18 months age.

#### **Central Performance Tests (Phase C) (optional)**

Post weaning growth rate and feed conversion ratio of young bulls (and heifers in Phase C3) are evaluated by means of performance tests under standardised conditions (excluding Phase C3) at central bull testing centres where animals are fed individually.

#### **On-Farm Performance Tests (Phase D) (optional)**

Post weaning growth rate of young bulls is evaluated by means of performance tests under controlled conditions on the farm of a member or a private organisation.

In the post weaning phases, the Scheme also makes provision for the recording of:

- Body measurements (shoulder height, body length and scrotum circumference);
- Real time ultrasound (RTU) scanning for evaluation of certain carcass and meat quality traits;
- Tick counts - for evaluating tick resistance – in extensive Phase D tests;
- Linear scoring of functional traits; and
- Pelvic measurements.

## Who may participate in the Scheme?

All stud breeders and commercial producers of beef and dual-purpose cattle may participate in the Scheme. All that is needed is a reliable cattle scale and basic handling facilities. Further more, all animals in the herd must be identified and calves recorded at birth.

## Which phases are mandatory?

Participation in at least the Reproduction and the Suckling phases is compulsory. Participation in all the post weaning phases is optional. Although some breeder's societies constitutionally enforce their members to participate in the Scheme, the decision on which phases to participate in and which recordings to do within each phase, rest in the hands of the individual farmer.

## What is required from me as a participant?

The ARC-Animal Improvement Institute recommends that the following data/weights be recorded where possible:

- Mating lists and AI data (*optional*)
- Calving data (*mandatory*)
- Birth weights (*optional*)
- Weaning weights (*mandatory*)
- Cow weights at calving and weaning of calves (*optional*)
- 12 and/or 18 months weights (of all animals not sold, culled or participating in Phases C or D) (*optional*)

## Who runs the Scheme?

The National Beef Recording and Improvement Scheme is managed by the Animal Production Institute (API) of the Agricultural Research Council (ARC), who is responsible for the technical control and supervision of the Scheme.

The ARC-API, with its headquarters at Irene, has field officers at six regional offices rendering services to participants of the Scheme in. There are eleven central bull testing centres (four ARC-owned and seven privately-owned), with a total capacity for testing 5 000+ bulls per annum.

## How can I benefit from participating?

- Firstly, data obtained from the Scheme are an objective **selection aid** for identifying inefficient producers for culling and also for identifying efficient producers for further breeding. This means increased efficiency of production through genetic improvement with very little extra input.
- **Increased efficiency** of production through genetic improvement means more profit for the enterprise and, eventually, for the entire industry.
- Performance test results provide valuable **management information** for monitoring management practices and to make changes where necessary.
- Buyers tend to pay more for performance-tested animals and in this regard performance testing serves as a **value-added marketing instrument**.
- Performance test data and pedigree information are used for estimating **breeding values** through BLUP technology. Breeding values makes it possible to determine the genetic merit of animals across herds, years, seasons, etc.
- Mixed model technology (like BLUP) has the further advantage that the **genetic trends** (and environmental trends) of herds and breeds over time can be determined. This information makes it possible to evaluate breeding policies accurately and to make calculated changes where and when needed.
- Providing valuable **information and statistics on a national basis** to breed societies and producer organizations on performance of different breeds, performance under different

conditions, etc.

## Why the National Beef Recording and Improvement Scheme?

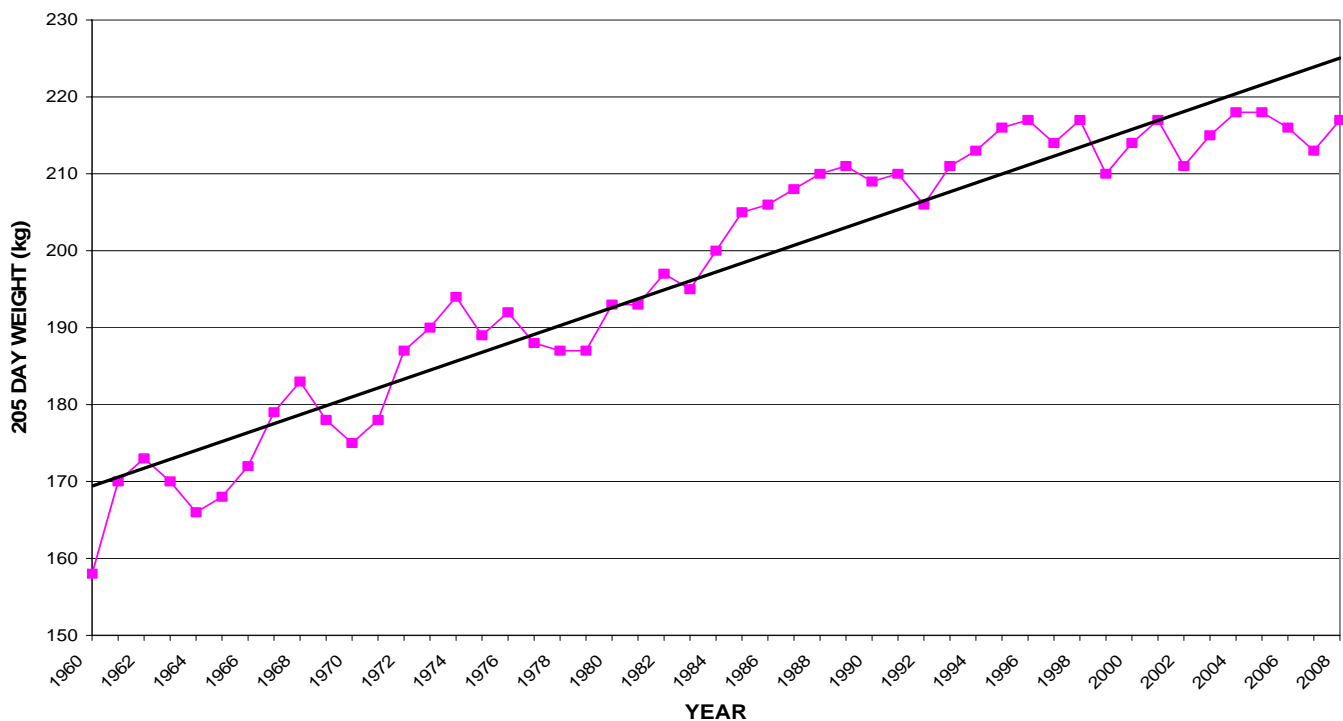
- The Scheme is run by an independent, impartial organisation, namely the ARC. This gives **local and international credibility** to the data. Concerning the latter, this is especially important for the export market.
- The ARC-Animal Production Institute is a member of ICAR (International Committee for Animal Recording). Therefore, all data recording, processing and breeding value estimations **conform to international rules and standards**.
- The collection and processing of all performance test data falls under the same rules and procedures, therefore **data are comparable amongst all breeds** - an advantage to prospective buyers and the industry in general.
- The Scheme is **supported by a large team of researchers** and technicians who conduct ongoing research and development to ensure that the Scheme stay in line with international developments and the requirements of the local industry.
- All information and services are backed up by professional animal scientists and technicians who are available to help and advise you on all matters concerning breeding and animal improvement.
- An "**ARC-Performance Tested**" trademark has been registered and made available to all Scheme members for use in advertisements, auction catalogues, etc., making it easier for buyers to identify herds and animals, which have been ARC-Performance Tested.
- The ARC-Animal Production Institute annually makes **awards** to excellent performing herds and animals.

## What improvement can be expected?

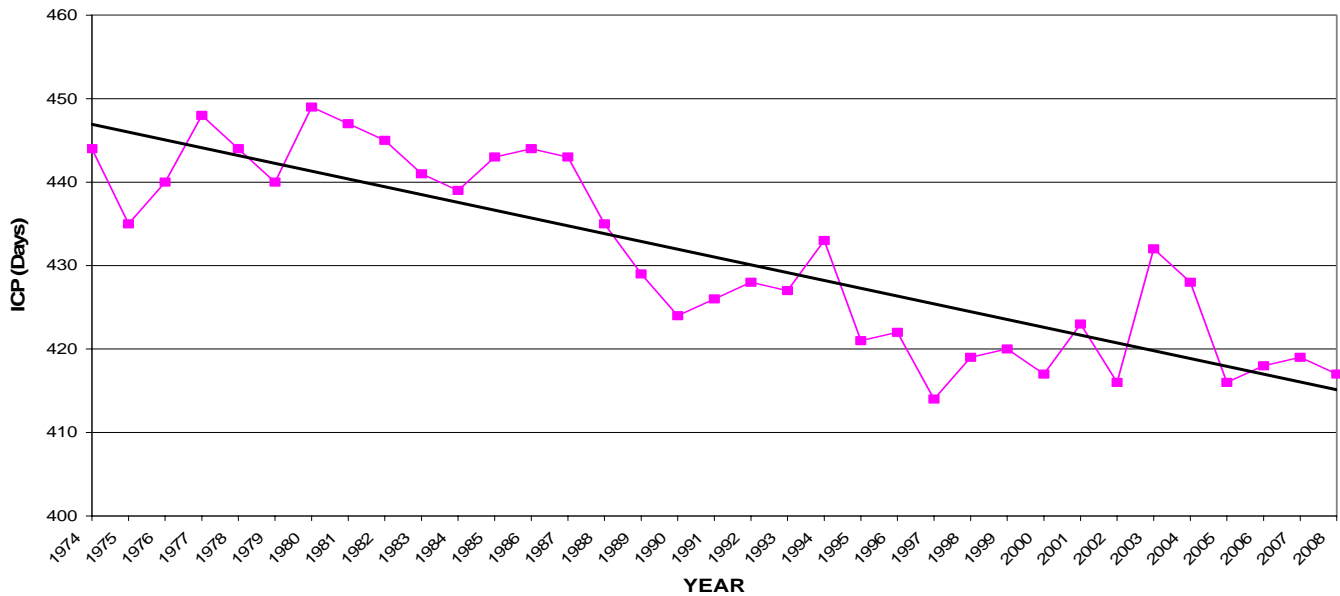
The two most important traits influencing the biological efficiency of a cattle operation are reproduction rate and weaning weight. Reproduction rate in the Scheme is measured primarily by inter-calving period (ICP) and weaning weight by 205-day weight.

In Figures 1 and 2 the trends in average 205-day weight and average ICP of all herds participating in the Scheme are illustrated.

**Figure 1: National average 205 day weight of herds participating in the Scheme**



**Figure 2: National average intercalving period (ICP) of herds participating in the Scheme**



The weaning weight of calves born in 2007 is on average 49kg heavier than calves born in 1960. The average ICP of cows that calved in 2007 is 29 days shorter than cows that calved in 1974.

**How do I become a member of the Scheme?**

To become a member of the National Beef Recording and Improvement Scheme, contact a Field Officer at your nearest regional office of the ARC-Animal Production Institute:

Regional Office	Tel No	Fax No	E-mail address
Bloemfontein	051 447 5629	051 447 6179	bburger@arc.agric.za
Cedara	033 330 5668	033 330 5668	binedellj@arc.agric.za
Irene	012 672 9081	012 672 9002	rentia@arc.agric.za
Port Elizabeth	041 404 7200	041 404 7211	sakkie@arc.agric.za
Stellenbosch	021 809 3515	021 809 3583	viljoent@arc.agric.za
Vryburg	053 927 4333	053 927 4333/5	ivosloo@arc.agric.za

**More information?**

Contact your nearest ARC regional Office or Mr Leslie Bergh at tel. 012 672 9145 or 082 801 2026 or email [leslie@arc.agric.za](mailto:leslie@arc.agric.za) or visit our web site [www.arc-aii.agric.za](http://www.arc-aii.agric.za).



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*Excellence in Research and Development*

**ANIMAL PRODUCTION INSTITUTE**

**NATIONAL BEEF RECORDING AND IMPROVEMENT SCHEME**

**APPLICATION FORM**

I / We, ..... the undersigned, on behalf of  
(Farming/Business Name/Initials and Surname) .....  
hereby apply on to participate in the National Beef Recording and Improvement Scheme and  
undertake at all time to -

1. mark all animals with a clear and unique identification;
2. record the birth of all calves, as required by the ARC;
3. use a cattle scale, approved by the ARC, on the farm;
4. have adequate kraals and crush pen facilities available;
5. subject the entire herd to performance testing;
6. keep accurate and complete records, as required by the ARC, and submit them within 14 days after the weight recording to the ARC regional office concerned;
7. accept the services of private sector officers, approved by the ARC;
8. pay the ARC the applicable annual herd and per capita fees as well as fees for other services rendered within 30 days of invoice date; and
9. comply in all respects with the Guidelines of the Scheme and co-operate fully with the ARC in all matters relating to the Scheme and where a difference of opinion occurs to accept the ruling of the ARC.

I/We declare that to the best of my/our knowledge and belief the information provided in the attached questionnaire is correct and accurate.

**SIGNED AT** ..... **THIS** ..... **DAY OF**  
..... **20** .....

.....

**SIGNATURE**



## FARM- AND HERD PARTICULARS

1. Farm a. Name:
- b. Nearest town:
- c. Distance from nearest town (km):
- d. Magisterial district
- e. Province:

2. Herds in respect of which application for participation is made:

- a. Stud herd(s)  Yes  No
- If "Yes" Breed(s)
- 

- b. Commercial Herd(s)  Yes  No
- If "No" proceed to question 3
- If "Yes":
- i) Breed(s)
- 

ii) Choice of Herd Designation Marks (HDM):  
*(Please supply 3 combinations in order of preference. The HDM will always start with a "X". If applicable, you may choose your registered brand, e.g. XABC)*

Choice : 1.   2.   3.

- iii) Are the cows in your herd at present identified?  Yes  No

If "Yes", by what method(s)?:

Ear tag  Brand  Tattoo  Ear notches  Other  (Please specify)

iv) Please indicate whether you are at present keeping the following records in respect of your commercial herds:

Number of calf	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Sex of calf	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Birth date of calf	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Birth weight of calf	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Number of sire	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Number of dam	<input type="checkbox"/> Yes	<input type="checkbox"/> No



# NATIONAL BEEF RECORDING AND IMPROVEMENT SCHEME

## ARC-Animal Production Institute

**FEES: 1 April 2011 – 31 March 2012**

### **1. COMPULSORY FEES:**

<b><u>Phases A &amp; B:</u></b>	<b><u>VAT Excluded</u></b>	<b><u>VAT Included</u></b>
<b>Joining Fee</b> (Once off)	R595-51	R678-88
<b>Annual Herd Fee:</b>	R168-54	R192-14
<b>Annual Per Capita Fee* – Paper option</b>	R 4-51	R 5-14
<b>or</b>		
<b>Annual Per Capita Fee* - Electronic option</b>	R 2-81	R 3-20
<b>*(<u>All animals in the herd as on 1 July</u>)</b>		

### **2. FEES FOR OPTIONAL SERVICES:**

#### **Central Standardised (Phase C) tests at ARC test centres:**

Feed costs	Actual cost of feed consumed as measured	
Management fee per bull	R280-90	R320-23
Insurance per bul R4 000 cover	R 80-00	R 91-20
R6 000 cover	R120-00	R136-80
R8 000 cover	R160-00	R182-40
Processing (dip, dose, etc.)	R112-36	R128-09
Shoulder height, Body length & Skin thickness per bull (optional)	R 3-49	R 3-98
RTU scanning	Free	Free

#### **On-farm (Phase D) tests:**

Test fee (per visit):	R786-52	R896-63
Fee per bull in test:	R 44-94	R 51-24
RTU scanning per bull (optional)	R 39-33	R 44-83
Shoulder height, Body length & Skin thickness per bull (optional)	R 3-49	R 3-98

#### **On-farm (Phase D): Special visits:**

Normal Phase D fees as above		
<b>PLUS</b> Km fee for special visit	R 3-16	R 3-60

#### **RTU Scanning (Not part of Phase D test):**

RTU visit fee (not Phase D)	R786-52	R896-63
RTU scanning per bull	R 39-33	R 44.83

#### **Central Standardised (Phase C) tests at Private test centres:**

Feed costs	Actual cost of feed consumed as measured	
Management Fee	Determined by and payable to the particular test centre	
Test fee (per visit)	R786-52	R896-63
Fee per bull in test	R44-94	R 51-24
Shoulder height, Body length & Skin thickness per bull (optional)	R 3-49	R 3-98
RTU scanning per bull (optional)	Free	Free

# NATIONAL BEEF RECORDING AND IMPROVEMENT SCHEME

## ARC-Animal Production Institute

### BANK AND CONTACT DETAILS

A joining fee of R640-45 (VAT included) is payable for the 2010/2011 financial year for participation in the Beef Cattle Improvement Scheme. The fee covers the processing of your application and training

Cheques should be made out to "ARC-API". Direct payments should be made to:

Account name : ARC-APNI  
Bank : Standard Bank  
Branch : Centurion  
Branch code : 012 645  
Account No : 012263524

**Note: Please send the proof of payment with your application to your nearest Regional Office. If a cheque or a proof of payment is not attached to the application, you will be invoiced for the amount due.**

Your training will follow after an appointment has been made with the Technical Officers in your Region. Please contact your nearest regional office.

**Irene Regional Office**  
Me R Daniels  
ARC-Animal Production Institute  
Private Bag X2  
IRENE 0062

Telephone : 012-672 9081 / 9120  
Fax : 012-672 9002  
Cell :  
E-mail : rentia@arc.agric.za /  
charles@arc.agric.za/  
stephen@arc.agric.za

**Vryburg Regional Office**  
Mr Dolf Cloete  
ARC-Animal Production Institute  
P O Box 14  
VRYBURG 8600

Telephone : 053-927 4335/4333  
Fax : 053-927 4333 (ask)  
Cell : 082 660 3266  
E-mail : dcloete@arc.agric.za

**Bloemfontein Regional Office**  
Mr Siebert Vermeulen  
ARC-Animal Production Institute  
P O Box 12578  
Brandhof  
BLOEMFONTEIN 9324

Telephone : 051-447 5629  
Fax : 051-447 6179  
Cell : 082-548 4608  
E-mail : svermeulen@arc.agric.za  
bburger@arc.agric.za

**Cedara Regional Office**  
Mr Johan Binedell  
ARC-Animal Production Institute  
P O Box 343  
MERRIVALE 3291

Telephone : 033-355 9186  
Fax : 033-330 9423  
Cell : 083 799 6600  
E-mail : binedellj@arc.agric.za  
botesf@arc.agric.za

**Port Elizabeth Regional Office**  
Mr Sakkie van der Merwe  
ARC-Animal Production Institute  
Private Bag 6038  
PORT ELIZABETH 6000

Telephone : 041-404 7200  
Fax : 041-404 7211  
Cell : 082 537 1487  
E-mail : sakkie@arc.agric.za

**Stellenbosch Regional Office**  
Mr Tinus Viljoen  
ARC-Animal Production Institute  
Private Bag 5013

Telephone : 021- 809 3515  
Fax : 021-809 3583  
Cell : 072 470 8386  
E-mail : viljoent@arc.agric.za



