



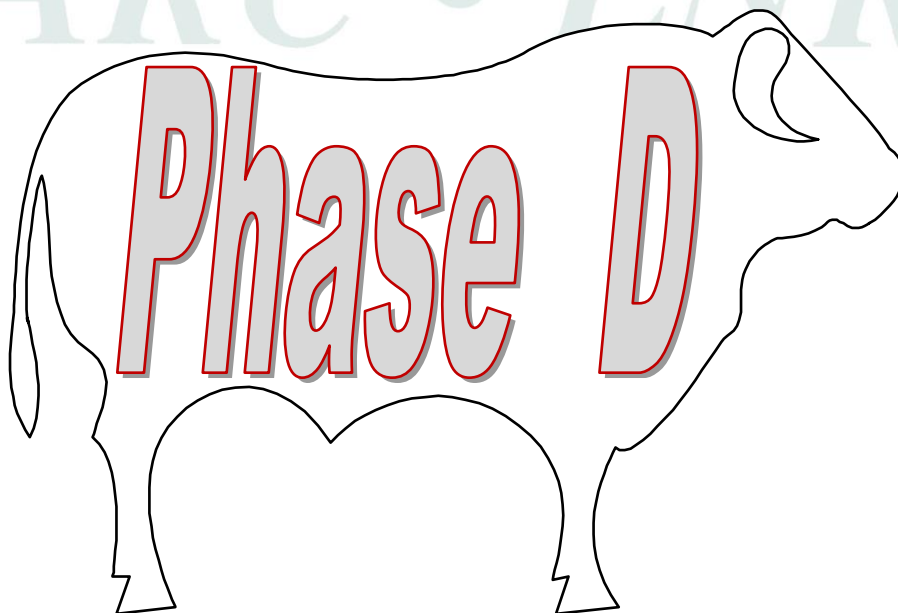
**ARC • LNR**

*Excellence in Research and Development*

# National Beef Recording and Improvement Scheme

## Application form 2022

ARC • LNR



PHASE D APPLICATION – STANDARDISED ON-FARM GROWTH TESTS  
ARC • LNR National Beef Recording and Improvement Scheme

## **APPLICATION**

Attached please find application forms for Phase D growth tests (On-Farm-Test).

Kindly ensure that the application form is completed in every respect and is emailed well in advance to reach the specific Technician a month before start of test.

Send your application form to the specific Technician who will attend to your Phase D test:

### **Cedara – KwaZulu Natal**

ARC-Animal Production  
P O Box 342  
PIETERMARITZBURG 3200

#### **Freek Botes**

Telephone : 033 330 5668 / 083 232 4234  
E-mail : [BotesF@arc.agric.za](mailto:BotesF@arc.agric.za)

### **Elsenburg – Western Cape**

ARC-Animal Production  
Infruitec Campus  
Private Bag X5013  
Stellenbosch  
7599

#### **Tinus Viljoen**

Telephone : 021 809 3327 / 072 470 8386  
E-mail : [ViljoenT@arc.agric.za](mailto:ViljoenT@arc.agric.za)

### **Glen – Bloemfontein – Free State**

ARC-Animal Production  
Private Bag X01  
GLEN 9360

#### **Thiva Netshilema**

Telephone : 051 861 1192 / 072 137 5794  
E-mail : [netshilemaT@arc.agric.za](mailto:netshilemaT@arc.agric.za)

#### **Mohau Moshounyane**

Telephone : 051 861 1192 / 078 771 8646  
E-mail : [MoshounyaneM@arc.agric.za](mailto:MoshounyaneM@arc.agric.za)

### **Irene - Gauteng**

ARC-Animal Production  
Private Bag X2  
IRENE 0062

#### **Jurgen Hendriks**

Telephone : 012 672 9260 / 084 304 3904  
E-mail : [Hendriksj@arc.agric.za](mailto:Hendriksj@arc.agric.za)

#### **Thokozani Ndonga**

Telephone : 012 672 9029 / 072 650 2811  
E-mail : [NdongaT@arc.agric.za](mailto:NdongaT@arc.agric.za)

### **Vryburg – North West**

ARC-Animal Production  
P O Box 14  
VRYBURG 8600

#### **Tebogo Serapelwane**

Telephone : 053 927 4333 / 083 711 2224  
E-mail : [tebogo@arc.agric.za](mailto:tebogo@arc.agric.za)

**Participant undertakes to:**

1. To plan the entire procedure, feeding and management with the Technician to the mutual satisfaction of the breeders, manager of the test center and the ARC official.
2. To perform this procedure promptly without any deviation, unless the relevant Technician permits an amendment.
3. To provide a headclamp, pressurized walkway with concrete floor and reliable cattle scale for weighing and taking body- and other measurements.
4. To take the bull calves' weight at two consecutive days at the start and end of the test and to take the bull calves' body weight every 14 days during the test.
5. To keep a diary up to date on important test-related events, such as injuries, illnesses, bloating, etc.
6. To give the relevant Technician free access to the test site and the records.
7. To provide full details of each bull calf and to keep all records up to date.
8. In the case of a Phase D1 tests initiated without the presence of an ARC official:
  - 8.1 Examine the calves involved for hereditary defects (eg hypoplasia) and record them;
  - 8.2 Start-test weights of calves involved on empty stomach and on two consecutive days; and
  - 8.3 Within seven days after the start of the test send the completed and signed agreement, test procedure document, adjustment & start test weights document as well as notes of any hereditary defects to the relevant Technician for processing.
9. To send the up-to-date test weights document to the relevant Technician 14 days before the end of the test.
10. To notify the relevant Technician immediately, if a test is extended or canceled for any reason.
11. To slaughter or castrate bull calves that have completed a growth test and do not meet the minimum performance standards established by the Advisory Committee immediately after the test.
12. To pay the applicable test fee, per capita fees and any other fees for Phase D services rendered to the ARC-Animal Production within 30 days after the invoice date.

## REQUIREMENTS AND RULES

The most important requirements and rules for phase D testing are listed here for your information:

1. For bull calves to participate in a phase D test, there must be at least 10 animals of a breed that are registrable.
2. The ages of the bull calves within the test group may not differ by more than 100 days, with a minimum individual age of 150 days and a maximum individual age of 425 days at the beginning of the adaptation period.
3. The adaptation period should preferably start at a minimum of 7 days after the calves have been weaned, in order to prevent them from losing weight during the adaptation period due to weaning shock.
4. The adjustment period can vary between 21 and 90 days depending on the growth rate and testing procedure, where intensive and single herd tests will be shorter and longer for extensive and multi-herd tests.
5. During the adaptation period, the bulls must receive the same diet as during the test period and the animals must show weight gain before the test can begin. Animals that are struggling to adjust or who do not show weight gain during adjustment will be withdrawn from the test.
6. For a Phase D2, the adjustment weights will be determined as the average of two consecutive days of live weights, the adjustment weights should preferably be taken a few days after arrival at the test center. The difference in the weights between the heaviest and lightest bull calves at the beginning of adaptation may not exceed the maximum as shown in the table below.

Note: No restrictions for weight variations in Phase D1:

Breed	Maximum weight variation
Afrikaner, Ankole, Dexter, Mashona, Nguni, Sanganer, Tuli, Wagyu	65
Afrigus, Afrisim, Angus, Beef Shorthorn, Bonsmara, Boran, Borguni, Braford, Brahman, Drakensberger, Galloway, Hereford, Hugenoot, Kentshire, Noord Devon, Pinzyl, Saler, Senepol, Sussex	75
Beefmaster, Brangus, Charbray, Pinzgauer, Red Poll	80
Santa Gertrudis, Simbra, Simmentaler, Suid Devon	85

7. Phase D tests can last a minimum period of 84 days and a maximum period of 270 days. An average minimum increase and growth rate during the test period is required, per breed as shown in the table below:

Breed	Minimum	
	Increase	ADG
Afrikaner, Ankole, Dexter, Mashona, Nguni, Sanganer, Tuli, Wagyu	90	400
Afrigus, Afrisim, Angus, Beef Shorthorn, Bonsmara, Boran, Borguni, Braford, Brahman, Drakensberger, Galloway, Hereford, Hugenoot, Kentshire, Noord Devon, Pinzyl, Saler, Senepol, Sussex	110	500
Beefmaster, Brangus, Charbray, Pinzgauer, Red Poll	120	550
Santa Gertrudis, Simbra, Simmentaler, Suid Devon	130	600

*If you have any queries, call the officer at your relevant regional office  
You will be notified as soon as possible of the test' start date*

I (full name) \_\_\_\_\_

Postal address \_\_\_\_\_

Farm located at \_\_\_\_\_ ID number: \_\_\_\_\_ Member number : \_\_\_\_\_

Tel nr: \_\_\_\_\_ E-mail: \_\_\_\_\_

Hereby apply for (number) \_\_\_\_\_ bulls.

1.	Date of birth of oldest and youngest calve		Oldest	Youngest
2.	Expected weaning date(s)			
3.	Scheduled adaptation date ( $\pm$ 1 to 2 weeks after weaning)			
4.	Scheduled start test date (minimum 3 weeks after start of adaptation)			
5.	Number of bulls			
6.	Required test length (84 days; 112 days; 140 days; 140+ days)			
7.	Type of test			
	Intensive (Concentration + Hay)			
	Semi-Intensive (Concentration + Pasture)			
	Semi-Extensive (Production lick + Pasture)			
	Extensive (Mineral lick + Pasture)			
8.	Description of feed			
	Ingredients	Quantities	Composition (optional)	
			Protein (%)	
			Energy (MJ)	
			Calsum (%)	
			Fosfor (%)	
	Feeding system:	Complete diet	Supplement separate	
	Feeding level:	Ad lib	Kg per bull	% van mass
9.	Are you planning a		D1 (one member)	
			D2 (2 or more members)	
10.	If D2, pls state the names and member numbers of fellow members			
11.	Option at start of test		Start yourself	
			ARC officer present	
12.	Option at the end of test		Only body measurements	
			Body measurements + RTU	

Owner's Signature \_\_\_\_\_

Date \_\_\_\_\_

ARC official \_\_\_\_\_

Date \_\_\_\_\_

<b>Bull calf</b>							<b>Dam</b>			<b>Sire</b>			<b>For Office Use</b>		
ID Nr			Computer Nr	Born	Breed	Birth weight	ID Nr			ID Nr			Arrival weight	Accepted	
HDM	Year	Seq. Nr					HDM	Year	Seq. No	HDM	Year	Seq. No		Yes	No

## Fee structure of the National Beef Recording and Improvement Scheme

### ARC-Animal Production

Date

1 April 2022 – 31 March 2023

	<b>Unit Price (VAT Excl)</b>
<b>1. PERFORMANCE RECORDING ON INTERGIS</b>	
<b>1.1 Phases A &amp; B (Stud animals)</b>	
Annual herd fee	R 281.00
Annual per capita fee – paper option	R 7.38
Annual per capita fee – electronic option	R 4.93
<b>1.2 Phases A &amp; B (Commercial Animals)</b>	
Annual herd fee	R 136.00
Annual per capita fee – paper option	R 4.93
Annual per capita fee – electronic option	R 3.68
<b>1.3 Central Standardized Bull Growth and Feed Efficiency Tests at ARC Test Centres (Phase C and RFI)</b>	
Feed costs	Actual feed consumed
Management fee per bull	R 592.00
Processing (dip, dose, etc.)	R 244.00
RTU scanning	Included in test fees
<b>1.4 On-farm post weaning Growth Tests (Phase D)</b>	
Farm visit (>100 km radius)	R 1292.00
Farm Visit (<100 km radius)	Standard ARC per kilometer tariff
Fee per bull in test (includes weighing)	R 73.00
Real Time Ultrasound scanning (RTU)	R 34 per animal scanned
<b>2. RTU SCANNING/WEIGHING SERVICES</b>	
RTU scanning/weighing of animals	
Farm visit (>100 km radius)	R 1292.00
Farm Visit (<100 km radius)	Standard ARC per kilometer tariff
Up to 50 animals (minimum 10): (RTU per animal)	R 81.00
50-100 Animals: (RTU per animal)	R 73.00
> 100 animals: (RTU per animal)	R 65.00
Weighing of animals (mobile scale): per animal	R 56.00
<b>3. CONSULTATION SERVICES</b>	
Farm visit (>100 km radius)	R 1292.00
Farm Visit (<100 km radius)	Standard ARC per kilometer tariff
Consultation fee/per hour (Includes presentations and training, max 8 hours per day)	R 233.00 (maximum of R1 864 per day)
<b>4. ARC REPRESENTATION ON BREEDER'S SOCIETY TECHNICAL COMMITTEES</b>	
Direct cost for traveling and subsistence if applicable	



Enquiries: Beef Recording Office: Mrs R Bodiro 012 672 9087  
Dr. Ben Greyling 012 672 9052  
Mr Thokozani Ndonga 012 672 9029

### Access to information

Individual members will have access to their own information and a breeders' society will have access to the information of all its members.

### Technology Transfer Services

- **Training courses:**
  - Beef Recording and Performance Testing
  - Beef Breeding with Breeding Values
  - BeefPro Beef Cattle Management Software
  - GenePro Breeding Management Software
  - Beef Cattle Management
- **Manuals, Books & Newsletters:**
  - Beef Breeding in SA
  - Beef Production Manual
  - National Beef Recording and Improvement Scheme Newsletter
- Articles for journals, newsletters, agricultural magazines, etc.
- Lectures at farmer's days, etc.

### Consultation Services

- Herd screening - Identification of non-functional, unproductive and/or inefficient animals
- Identification of excellent bulls and cows (potential AI bulls & embryo donor cows)
- Herd reproduction analysis and services (data/report available prior to visit)
- Herd profitability analysis (total input/output)
- Setting up herd management programmes
- Breeding plans:
  - Breeding objectives (software assisted)
  - Breeding strategies (software assisted)
  - Selection of animals for breeding groups and AI
- Visual evaluation and linear classification
- Inspection of animals for registration
- Screenings of animals for sales
- Interpretation of breeding values, diagnostics of performance figures

### About the Agricultural Research Council

The Agricultural Research Council, a schedule 3A public entity, established in 1990 through the Agricultural Research Act 86 of 1990 (as amended by Act 27 of 2001) is a premier science institution that conducts research with partners, develops human capital and fosters innovation in support of the agricultural sector. Its core mandate as defined in the Act is to act as the principal agricultural research institution in South Africa so as to conduct research, drive research and development, drive technology development and the transfer (dissemination) of information in order to: Promote agriculture and related industries; Contribute to a better quality of life; Facilitate/ensure natural resource conservation; and Alleviate poverty. It provides diagnostic, laboratory, analytical, agricultural engineering services, post-harvest technology development, agrochemical evaluation, consultation and advisory services, food processing technology services as well as various surveys and training interventions.

For more information visit the ARC website at: [www.arc.agric.za](http://www.arc.agric.za)