

# THE SOUTHERN AFRICAN GRAIN LABORATORY Crop Protection Division NPC



















**28TH** 

## ANNUAL GENERAL MEETING

CHAIRMAN'S REPORT 2024 2025

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TESTING IS FUN!

### 1. FOREWORD BY THE CHAIRMAN

The Southern African Grain Laboratory (SAGL) remains an independent non-profit laboratory, since 1997 it has acted as a Reference Laboratory in support of the grain and oilseeds industry. The laboratory continues to provide essential services to the grain and oilseed industry which includes a range of laboratory services that encompass food, feed and feedstuff.

Meeting the needs of the industry is one of the primary objectives of the organisation. The scope of analysis including milling, grading, physical, chemical, rheological, baking, mycotoxin, micro and macro nutrient analysis have been expanding to meet industry requirements.

The addition of the Crop Protection Division in 2017 was part of diversification and an additional service to the industry driven by the regulatory environment assisting in quality control, registration and shelf-life extension of plant protection products.

This division continues to grow into an essential asset for the SAGL currently performing extremely well.

Accurate measurements on quality are supported by ISO accredited test methods and Principals of Good Laboratory Practice to assist in businesses making Informed decisions on quality and food safety.

Crop quality surveys continue annually for the various grain and oilseeds expanding on the available data and with the support of the various trusts remain an important part of the SAGL projects.

Working capital is essential to sustain quality services and analysis, replacing and updating equipment in the various laboratories.

This was also clearly emphasised by a business review concluded for the SAGL in February 2024.

It is with great appreciation and pride that we can confirm this essential contribution has been made and continues to be made by the various trusts,

> securing the future of SAGL and allowing for the world class accredited business to be sustainable.

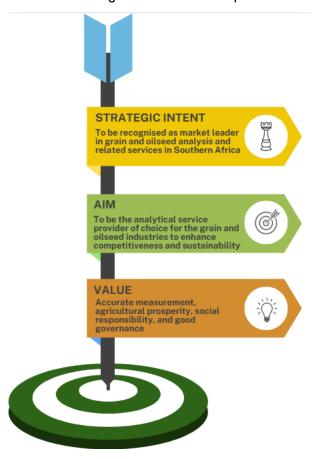
> > The SAGL in 2024/25 year performed financially extremely well and once again received an unqualified audit.



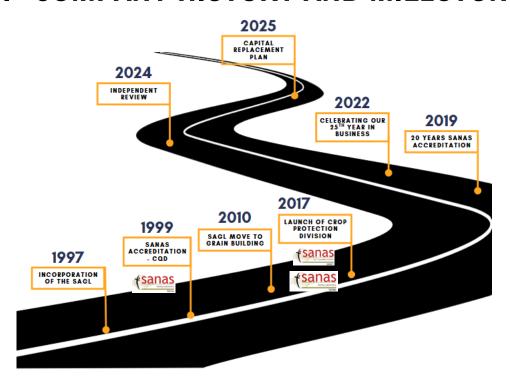
Dr. Erhard Briedenhann Chairman 2024/2025

## 2. STRATEGIC INTENT, AIM AND VALUE

The focus of the laboratory is grain and oilseed quality testing conducted in the Crop Quality Division. The Plant Protection Product testing is done in the Crop Protection Division.



## 3. COMPANY HISTORY AND MILESTONES



## 4. BOARD OF DIRECTORS



DR ERHARD BRIEDENHANN
RESEARCH



MS LIESL BREYTENBACH
PROCESSING: ANIMAL FEED



**DR DIRK STRYDOM**PRODUCTION: WHEAT



MR CRAIG BINNION DR ANDRÉ VAN DER
PROCESSING: VYVER
BAKING TRADING



MR WILLEM GROOTHOF PRODUCTION: MAIZE



MR BOIKANYO MOKGATLE
PROCESSING: MAIZE
MILLING



MR ERWIN POTGIETER
PROCESSING: WHEAT
MILLING



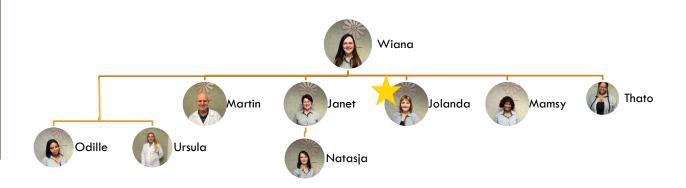
MR GERRIT ROOS
PRODUCTION:
SOYBEAN

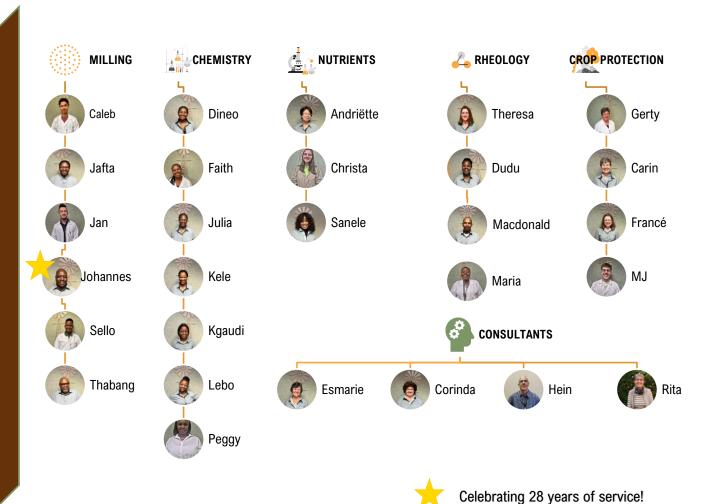


DR CHARL VAN DER
MERWE
STORAGE

## 5. HUMAN CAPITAL

#### **MEET THE SAGL TEAM**

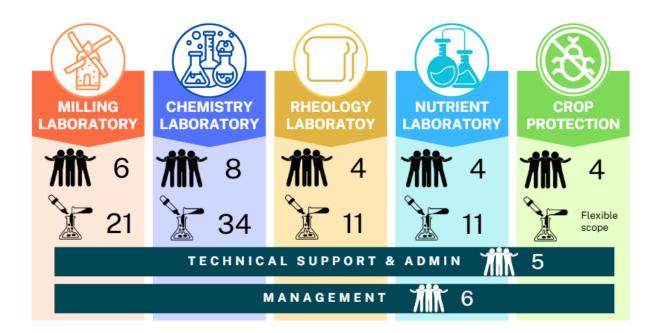




## 6. CORE BUSINESS, CAPABILITIES AND FOCUS AREAS

The Southern African Grain Laboratory (SAGL) complies with the requirements of the international ISO/IEC 17025 standard for testing laboratories as well as the OECD Principles of Good Laboratory Practice. With this accreditation, the laboratory can provide fit-for-purpose, accurate and internationally accepted measurement results.

Each of the five testing areas specialises in a different range of analyses, using specific skills to execute the validated methods.



The scope of testing in the crop quality and the crop protection divisions is focused on the needs of the agricultural industry and in line with an increasingly dynamic regulatory environment. It is expandable to ensure continued compliance in the agricultural industry in South Africa.

## **FOCUS AREAS (Continued)**

#### CROP QUALITY SURVEYS

- GRADING, MILLING, PHYSICAL TESTING
- NUTRITIONAL VALUES
- RHEOLOGICAL AND BAKING
  TESTS
- AMINO ACIDS, VITAMINS, MINERALS,, MALTING & SDU

#### IMPORTED GRAIN

- GRADING, MILLING & PHYSICAL
   TESTING
- NUTRITIONAL VALUES
- RHEOLOGICAL & BAKING TESTS (WHFAT)
- MYCOTOXINS

#### TRAINING COURSES

- WHEAT & WHEAT FLOUR ANALYSIS
- MAIZE MEAL QUALITY ANALYSIS
- GRADING
- ISO17025 OUALITY SYSTEMS
- MYCOTOXINS
- CUSTOM TRAINING REQUESTS

## ↑ FOCUS AREAS

#### **PROFICIENCY TESTING**

- GRADING
- WHEAT FLOUR
- MAIZE MEAL
- WHEAT COLOUR
- SOYBEANS AND SOYBEAN MEAL QUALITY
- SUNFLOWER AND SUNFLOWER MEAL QUALITY

#### BREEDING - WHEAT CULTIVARS

DIVIŠION

- . MILLING & PHYSICAL TESTING
- NUTRITIONAL VALUES
- RHEOLOGICAL & BAKING TESTS

#### RESEARCH PROJECTS

- CHEMICAL & PHYSICAL ANALYSIS
   OF MILLET TO DETERMINE GRAIN
   & DOUGH PROPERTIES
- MYCOTOXIN ANALYSES FOR RESEARCH STUDIES
- · FORTIFICATION ANALYSES
- DATA MINING OF CROP QUALITY DATA

### SURVEYS LAUNCHED SINCE INCORPORATION



Maize Crop Quality Survey since 1997



Wheat Crop Quality Survey since 1998



Soybean Crop Quality Survey since 2011



Sunflower Crop Quality Survey since 2012



Grain Sorghum Crop Quality Survey since 2018

## The focus areas of the Crop Protection Division:

#### PHYSICAL AND CHEMICAL STUDIES ON FORMULATED PLANT PROTECTION PRODUCTS

## Physical Tests

CIPAC Methods

In-house developed methods

Sponsor methods

## Active Ingredient

Method
Development
according to
International
Standards

Quantification of a.i content before and after storage

## Packaging stability

Visual observations before and after storage

## Stability Testing

Accelerated Storage Stability (2 year shelf life)

Cold storage (0°C)

Freeze/Thaw stability

## 5-BATCH TESTING (OECD GLP or ISO 17025)

Relevant impurities (of toxical significance) are quantified to ensure compliance with international specifications



5+ batches technical material are analysed to determine the impurity profile & to assess purity & concentration of the active ingredient

5-batch testing is a regulatory requirement Globally



Conducted according to OECD GLP and Compliance monitoring



### 7. POPULAR ARTICLES



### 8. PROFESSIONAL AFFILIATIONS



#### **COMMITTEES:**

Co-opted on various Industry Technical Committees
Wheat Focus Editorial Committee

SA-RFTL Forum: SA-Regulatory Food Testing Laboratory Forum Technical Committees of the SA Winter Cereal Industry Trust (SAWCIT)

## 9. PROFICIENCY TESTS OFFERED

In its capacity as reference laboratory for grains and oilseeds, SAGL offers proficiency testing to participants from South Africa and other countries in Africa.

The participants use the Proficiency testing as independent assessments of their quality control measures to monitor equipment, personnel competency and analytical methods. These proficiency tests serve as a powerful tool for a laboratory or testing facility to demonstrate competency to stakeholders in the grain and oilseed sector. The proficiency tests offered by the SAGL are detailed below.

Please contact us for our price list and more information on check samples which we have available.

Contact Person: Theresa de Beer Email: Theresa.deBeer@sagl.co.za

Tel: +27 12 807 4019

DESCRIPTION	INTERVAL	PRODUCT	LOCAL	INTERNATIONAL	COUNTRIES	TOTAL
			PARTICIPANTS	PARTICIPANTS		
SAGL Soybean grading	Quarterly	Soybeans	9 (grading)	-	-	15
and Quality			13 (quality)			
SAGL Soybean Meal	Quarterly	Soybean Meal	18	-	-	18
SAGL Sunflower	3 times per	Sunflower	9 (whole seed)	-	-	17
Quality	year		9 (milled seed)			
SAGL Sunflower Meal	3 times per	Sunflower Meal	16	-	-	16
Quality	year					
SAGL Minolta Dry	Bi-monthly	White bread flour &	10	1	Botswana	11
Colour Proficiency Test		Cake flour				
SAGL Maize Grading	Quarterly	2 x White Maize	10	4	Lesotho, Zambia,	14
Proficiency Test		2 x Yellow Maize			Tanzania & Namibia	
SAGL Maize Meal	Quarterly	2 x Super Maize	3	7	Eswatini, Lesotho,	10
<b>Quality Proficiency</b>		Meal			Namibia, Botswana,	
Test		2 x "Special" Maize			Zambia, Zimbabwe,	
		Meal			Tanzania	
SAGL Wheat Grading	Quarterly	Wheat	16	3	Lesotho & Namibia	19
Proficiency Test						
SAGL Wheat and Flour	Quarterly	Wheat, Wheat flour	18	15	Ghana, Nigeria,	33
Proficiency Test		& Brown bread flour			Lesotho, Swaziland,	
					Senegal, Namibia,	
					Cameroon, Botswana,	
					Zambia, Zimbabwe	

## 10. COMPLIANCE AND MEMBERSHIP CERTIFICATES











## 11. ISO 17025 ACCREDITATION AND OECD GLP COMPLIANCE

The scope of SAGL's accreditation is aligned with the needs of the industry. It expanded over the years as regulatory requirement and needs changed.

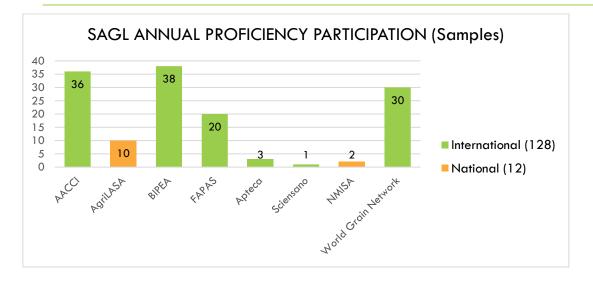
Technical Signatories form the backbone of a successful quality system and the development and training of laboratory personnel to become technical signatories remains a primary focus of the SAGL since 1999 when the laboratory achieved its accreditation. SAGL prides itself on maintaining this solid foundation.

#### SAGL ACCREDITATION AND COMPLIANCE



#### **SANAS** accreditation certificates:

- Crop Protection Division ISO 17025 valid until 22 August 2027
- Crop Quality Division ISO 17025 valid until 31 October 2029
- Crop Protection Division OECD GLP valid until 26 July 2027



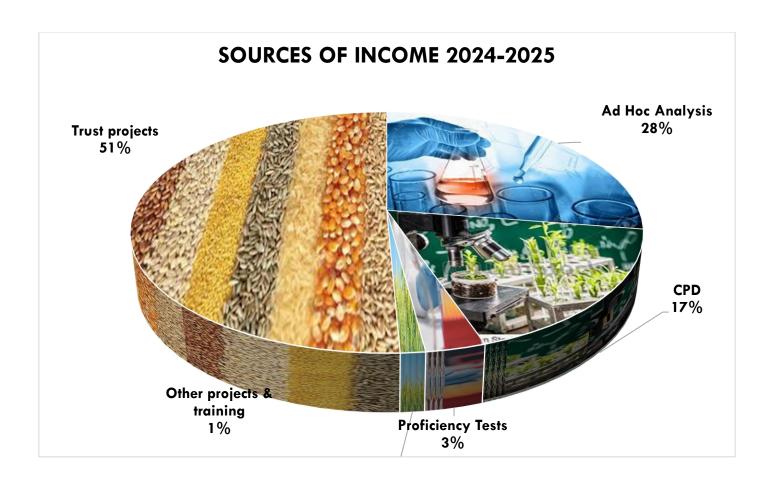
Participation in proficiency schemes, to demonstrate competence, is used as the laboratory's benchmark to the international measurement system.

### 12. FINANCIAL POSITION

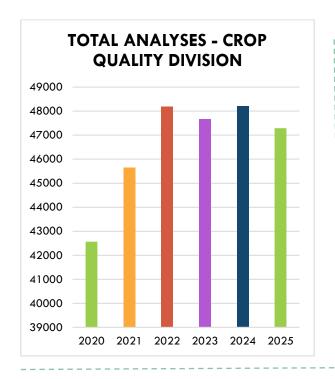
The annual financial statements were prepared on the basis of accounting policies applicable to a going concern. The directors believe that the company has adequate financial resources to continue in operation for the foreseeable future and accordingly the annual financial statements have been prepared on a going concern basis.

The directors have satisfied themselves that the company is in a sound financial position and that it has access to sufficient borrowing facilities to meet its foreseeable cash requirements. However, Capex is required to sustain the organisation. The directors are not aware of any material noncompliance with statutory or regulatory requirements or of any pending changes to legislation which may affect the company.

The Independent Auditors' Report indicates no material inconsistencies between the Directors' Report and the audited financial statements.



## **FINANCIAL POSITION (Continued)**





1127

Ad hoc projects registered in CQD laboratory



3 799

Ad hoc samples analysed

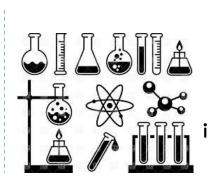


11 243

Ad hoc methods reported



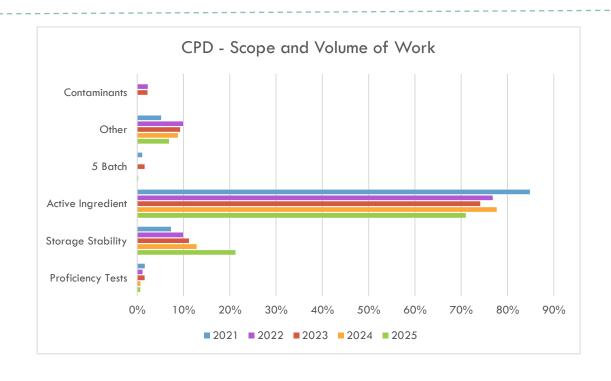
satisfied customers



495

studies registered in the CPD laboratory

400 (2023/2024)



## 13. CONCLUSION AND ACKNOWLEDGEMENTS

The SAGL is performing financially well while providing a world class essential service to the industry.

The contribution of capital as well as continued projects by the various trusts supports the sustainability of the SAGL and our gratitude is extended to them.

The support of the board members to achieve strategic direction and structure during the year is appreciated.

The Executive Committee we thank for the groundwork in making the management and board decisions more efficient.

The effort of the management and staff of the SAGL led by Wiana can be seen in the results of the organisation and we would like to thank them for the difference they have made.

Dr Erhard Briedenhann
Chairperson 2024/2025

