

Chairman's Report



21ST ANNUAL GENERAL MEETING OF THE SOUTHERN AFRICAN GRAIN LABORATORY NPC

Introduction



MR. BOIKANYO MOKGATLE
CHAIRPERSON 2017/2018

It is an honour to deliver the 21st Chairperson's Report of the SAGL for the financial year 2017/2018.

For the past 21 years the SAGL provide quality analyses on different grain and oilseed commodities. Internationally recognised procedures and methods are used to produce analyses results to support effective marketing of local grain products. There is globally an increased focus on food safety and security and the National Crop Quality Surveys on wheat, maize, soybeans, sunflower seeds and sorghum funded by respective Trusts, contribute to improving food safety control systems in South Africa. The quality of imported grains also forms part of the analytical results produced at the SAGL to assist with quality comparisons between local and imported grain. The value of agricultural products is linked to the quality and safety of the product which is established through measurements conducted in laboratories such as the SAGL.

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The quality systems and internationally recognised accreditation ensures that analysis results generated at the SAGL are equivalent and accepted by other countries. Important economic and safety decisions are based on these measurement results. To strengthen the network between food safety control systems, SAGL also provides consultancy, training and testing services for countries in the rest of Africa.

The **Crop Protection Division** of the SAGL which was launched in June 2017 is both ISO 17025 accredited and OECD GLP Compliant and provides independent accredited services to companies in both South Africa as well as the rest of the world. This initiative is aligned with the strategic imperatives to expand the services base of the laboratory to ensure growth and sustainability.

Recent Crop Quality Reports





MS. MARIANA PURNELL
EXECUTIVE COMMITTEE MEMBER



MR. BOIKANYO MOKGATLE
CHAIRPERSON



MR. DEREK MATHEWS
VICE CHAIRPERSON



MR. DE WET BOSHOFF
EXECUTIVE COMMITTEE MEMBER

EXECUTIVE COMMITTEE
MEMBERS

MR. KEVIN CLARKE
PROCESSING: MILLING

DR. MARINDA VISSER
PRODUCTION: MAIZE

MR. GERRIT ROOS
PRODUCTION: SOYBEAN

MR. JANNIE DE VILLIERS
ALTERNATE DIRECTOR FOR
PRODUCTION

MR. GEOFF PENNY
PROCESSING: BAKING

MR. DIRK KOK
TRADING

DR. FRANCOIS KOEKEMOER
BREEDING: WHEAT

MR. A.W. SCHRÖDER
BREEDING: MAIZE

DR. TOI TSILO
RESEARCH

BOARD OF DIRECTORS
2017/2018



Testing
is
fun!



"The difference between the impossible and the possible lies in a man's determination" ~ Tommy Lasorda

STRATEGIC INTENT, AIM & VALUE

STRATEGIC INTENT

To be recognised as market leader in grain and oilseed analysis and related services in Southern Africa.

AIM

To be the analytical service provider of choice for the grain and oilseed industries to enhance competitiveness and sustainability.

VALUE

Accurate measurements, agricultural prosperity, social responsibility and good governance.

CORE BUSINESS

Fit-for-purpose analyses services to all the sectors of the South African Grain and Oilseed Industry remains SAGL's core function. In a reference laboratory role, SAGL maintains measurement standards at an acceptable international level and disseminates traceability to the industry.

The two main focus areas are **Crop Quality** and **Crop Protection**.

- Crop quality analyses are performed on different grain and oilseed commodities as well as associated food and feed products.
- The Crop Protection Division is able to perform 5-batch analysis according to OECD GLP, a global requirement in the Agro-chemical Industry for the registration of crop protection products. The laboratory has the capability to do physical and chemical studies on formulated plant protection products as well as to provide testing services for compliance with the Globally Harmonised System for packaging and labelling.

Through continuous engagement with stakeholders, SAGL ensures a good understanding of market requirements relating to quality and safety of food and feed to increase access to high-value markets. Measurements assist with the improvement of the competitiveness of the South African industry and support the national strategic initiatives. The survival of the Agricultural Industry depends on the ability to measure accurately.

To fulfil our mandate, we collaborate with academic institutions and commercial processing companies in applied research studies.

The different testing areas included in the scope of testing is illustrated in Figure 1.

"Success is the sum of small efforts, repeated day-in and day-out" – Robert Collier

CORE BUSINESS



Figure 1: SAGL's core business and capacity in different areas

CORE BUSINESS - CROP QUALITY & CROP PROTECTION

Different Revenue Sources for 2017/2018

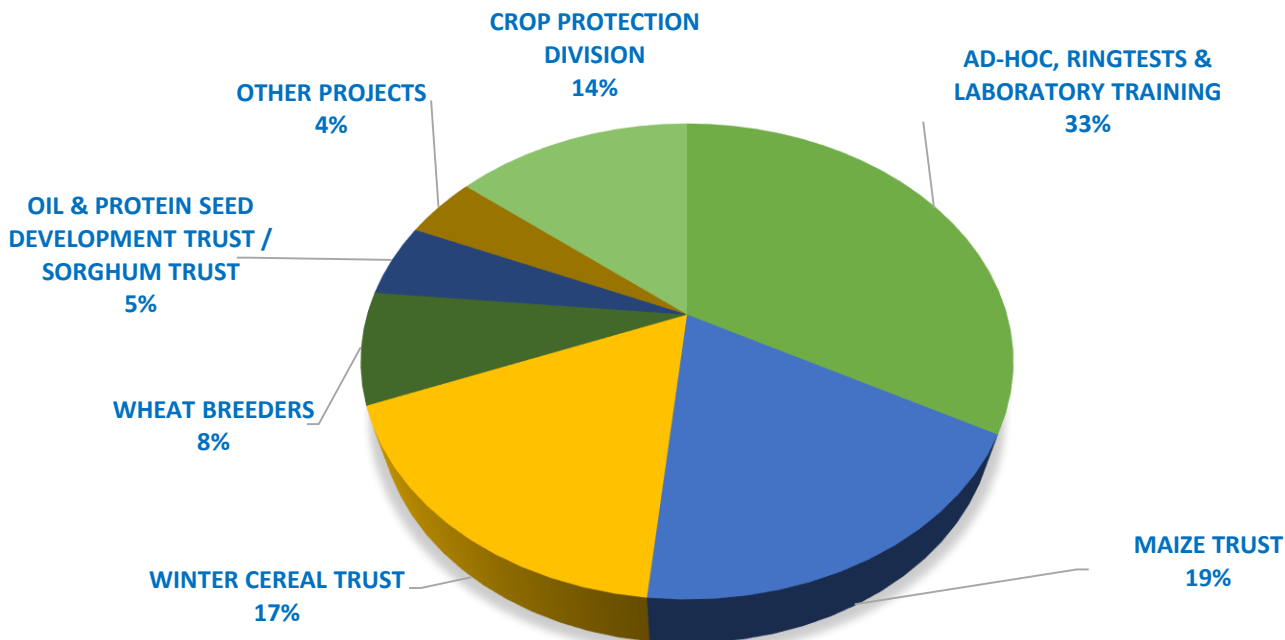


Figure 2: Different Revenue Sources for 2017/2018 financial year

"Opportunities don't happen, you create them" – Chris Grosser

CORE BUSINESS – CROP PROTECTION



5-BATCH TESTING (OECD GLP OR ISO 17025)

- ✓ 5-Batch analysis is a regulatory requirement in the global Agro-chemical Industry
- ✓ Five or more batches of technical material, from a specific manufacturer, are analysed to determine the impurity profile and to assess the purity of the active ingredient
- ✓ All relevant impurities (of toxicological significance) are quantified to ensure compliance with international specifications
- ✓ This work is usually conducted according to OECD GLP (OECD Series on Principles of Good Laboratory Practice (GLP) and Compliance Monitoring).

PHYSICAL AND CHEMICAL STUDIES ON FORMULATED PLANT PROTECTION PRODUCTS

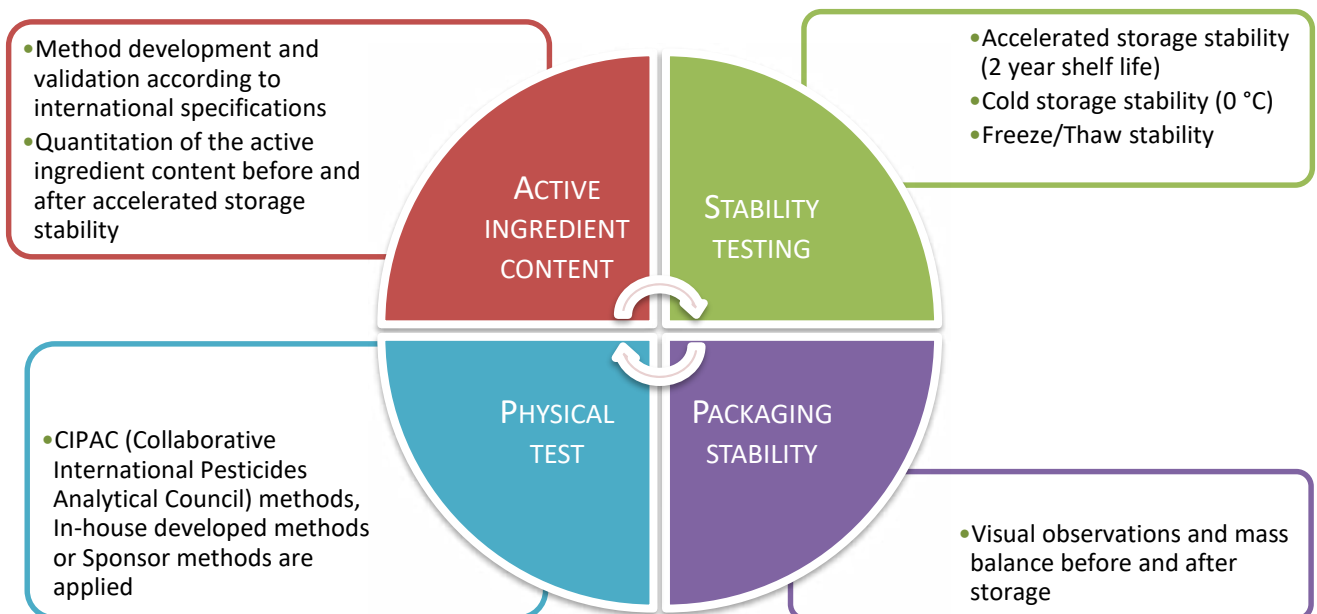


Figure 3: Physical and Chemical tests performed on Plant Protection Products

Marketing Initiatives

The technical specialist of the **Crop Protection Division** attended CropLife International meetings and serves on the English Speaking Expert Group (SEG) of CropLife International. This provides a good opportunity to stay abreast of global regulatory requirements and promote collaboration with multi-national companies and international laboratories.

The **Crop Protection** capabilities are included in the marketing material and reflected on the SAGL website.

Non-disclosure agreements have been concluded with several companies to provide development and validation of testing methods for company specific applications. These methods involve different technologies available in the various testing areas.

The Milling Index Calibration which was successfully developed and rolled out for milling applications are now further refined for other specific applications in industries such as the snack food industry.

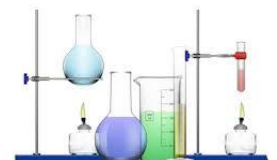
Presentations at different forums and popular articles published are listed in this report.

An exhibition stand at the Global Sorghum Conference in Cape Town increased SAGL's exposure to the sorghum industry in South Africa and the rest of Africa.

SAGL is represented on the Technical Committees of the various industry associations to ensure alignment with changes relating to regulations as well as additional industry-specific requirements.

Certain training programmes were customised based on customer requirements.

SAGL collaborate with the animal feed industry in developing calibrations for specific applications



"If your actions inspire others to dream more, learn more, do more and become more, you are a leader"
 – John Quincy Adams

PRESENTATIONS

- *Services to the Agricultural Industry in South Africa and beyond* – January 2018, Wiana Louw
- *Evaluation of Sampling device* – 18 April 2018, Ben van der Linde, Dr Corinda Erasmus, Hannalien Meyer, Wiana Louw
- *Mycotoxin monitoring in South African Maize and Wheat Crops: Food Safety Conference* - 4 June 2018, Hannalien Meyer
- *Crop Surveys* - South Sudan National Bureau of Standards (SSNBS) - 11 June 2018, Wiana Louw
- *Services to Grain & Oilseed Industries in South Africa with special focus on Maize: Maize Trust* - June 2018, Wiana Louw
- *Evaluation of commercial screening kits for the determination of mycotoxins in maize in non-laboratory environments: 2nd African Symposium on Mycotoxicology Kenya* – June 2018, Zanele Skhosana
- *Occurrence of mycotoxins in South African maize and wheat (Poster): 2nd African Symposium on Mycotoxicology Kenya* – June 2018, Mamsy Motlanthe
- *Quality analyses on locally produced and imported wheat* – 16 July 2018, Wiana Louw
- *Mycotoxin myths in the grain industry* - 21 August 2018, Hannalien Meyer
- *Mycotoxins in South African Grain: Myths and Levels: Maize Forum* - 19 October 2018, Hannalien Meyer

POPULAR ARTICLES

Wheat focus/ Koringfokus

- *National Wheat Crop quality of the 2017/2018 season with reference to wheat imported for local use*, Jolanda Nortjé

SA Grain/SA Graan

- *Quality of the 2016/2017 sunflower crop in the spotlight*, Jolanda Nortjé
- *QUALITY of the 2016/2017 soybean crop scrutinised*, Jolanda Nortjé
- *Maize quality 2016/2017: Special focus on mycotoxins*, Jolanda Nortjé
- *Local and imported WHEAT QUALITY scrutinised*, Jolanda Nortjé

Oilseeds Focus

- *Quality of the 2016/2017 season's soya bean crop*, Jolanda Nortjé
- *Quality of the 2016/2017 season's sunflower crop*, Jolanda Nortjé

MEDIA INTERVIEWS

RSG Landbou

- *"Mikotoksien analises by die SAGL in graan, oliesade en verwante produkte"* - December 2017, Hannalien Meyer
- *"Graansorghum analises en die Internasionale Graansorghum Konferensie"* – 22 March 2018, Wiana Louw
- *"Gluten en die rol van gluten in die bakindustrie"* Industry – 14 September 2018, Theresa de Beer

GROOTPLAAS (Groot FM)

- *"Naby Infrarooi Spektroskopie as 'n tegniek en kundigheid om die graanbedryf meer kompetender te maak"* - 20 March 2018, Wiana Louw
- *"Gluten en die rol van gluten in die bakindustrie"* Industry – 27 July 2018, Theresa de Beer

"No matter how many mistakes you make, or how slow your progress, you are still way ahead of everyone who isn't trying" – Tony Robbins

PROFESSIONAL AFFILIATIONS

SAGL IS REPRESENTED ON THE FOLLOWING COMMITTEES/ASSOCIATIONS:

- ✓ AACCI: American Association of Cereal Chemists International (United States of America)
- ✓ AFMA: Animal Feed Manufacturers Association
- ✓ AgriLASA: Agri Laboratory Association of South Africa
- ✓ Campden BRI (UK Based)
- ✓ ChromSA: Chromatographic Society of South Africa
- ✓ Co-opted on various Industry Technical Committees
- ✓ CropLife South Africa
- ✓ CST-SA: Cereal Science and Technology
- ✓ GOSA: Grain Handling Organisation of South Africa
- ✓ IAOM: International Association of Operative Millers in the Middle East & Africa
- ✓ Maize Trust Mycotoxin Research Review Panel
- ✓ NLA: National Laboratory Association of South Africa
- ✓ SAAMS: South African Association for Mass Spectrometry
- ✓ SAAFoST: South African Association for Food Scientists
- ✓ SACI: The South African Chemical Institute
- ✓ Technical Committees of the Winter Cereal Trust
- ✓ Wheat Focus Editorial Committee



LABORATORY VISITS / DELEGATIONS

- Delegation from African Countries as part of training course at University of Pretoria – 7 February 2018
- Grain SA Grain sorghum working group – 14 February 2018
- Delegation from SABS Commercial – 22 February 2018
- Prof. Fred Bellow – 6 March 2018
- Taiwanese Delegation – 16 July 2018
- Millers from Mauritius – 11 September 2018
- Bayer Crop Science – 27 September 2018
- Introlab SA and Intace France – 27 September 2018
- Lusaka Security Exchange and Zambian Commodity Exchange – 28 September 2018

Human Capital

The SAGL strives to maintain a competent and motivated staff complement as its major asset. A skills development programme enables the laboratory to successfully compete on an international level. The expanding scope of services contributes to the development of a stimulating testing environment, sophisticated enough to attract and retain scarce technical and scientific skills.

The annual Management Review process is used to evaluate the in-house, on-the-job training to ensure a healthy skills base. The laboratory personnel received both in-house and external training during the period under review.

RETIREMENTS – 20 YEAR'S SERVICE



Japhta
Modise



Daniël
Msiza

NEW APPOINTMENTS



FRANCÉ
MULDER



JAFTA
KOBOLA



DESIRÉ
VERSTER



EMMANUEL
DOLLEY

"Work hard in silence, let your success be your noise." – Frank Ocean

Meet the SAGL team

MANAGEMENT



Cecilia



Jolanda



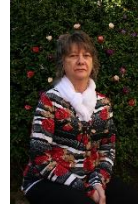
Hannalien



Wiana



Beatrix



Marie



Paulina



Desiré

RHEOLOGY



Dudu



Ilse



Theresa

SUPPORT



Natasja



Odille



Caroline



Corinda

MILLING AND GRADING



Ben



Johannes



Jafta

CHEMISTRY



Dineo



Gianni



Maphela



Marelize



Thabang



Tumelo



Emmanuel



Lebo



Julia



Kele



Marie

NUTRIENTS & CONTAMINANTS



Zanele



Andriette



Mamsy



Hannalien

CROP PROTECTION



Cecilia



Gerty



Rita



Francé

EXTERNAL TRAINING

SAGL carefully selects external training courses to ensure that both technical and administrative needs are addressed. Figure 4 summarises the training attended during 2017/2018. The list below is an indication of the type of training events attended:

- ✓ Basic Conditions of Employment Act
- ✓ B-BBEE
- ✓ Consumer Protection Act
- ✓ Employment Equity
- ✓ HIV/AIDS in the Workplace
- ✓ Junior Management & Supervisor Training
- ✓ Personal budgeting
- ✓ Labour Law in the Workplace
- ✓ Leadership & Mentoring
- ✓ Occupational Health & Safety
- ✓ Standard Financial Literacy
- ✓ OECD Principles of GLP
- ✓ Sensory evaluation workshop
- ✓ Grading of grains and oilseeds
- ✓ Essentials of best practice in calibration of instruments
- ✓ Fundamentals of Atomic Absorption spectrometry
- ✓ Food fraud workshop
- ✓ Grading refresher courses
- ✓ Africa Food Safety Workshop
- ✓ Global Grain Network Meeting

Summary of external training October 2017 to September 2018



Figure 4: External training during 2017/2018

"Efforts and courage are not enough without purpose and direction" – John F. Kennedy

TRAINING PRESENTED

The staff at the SAGL present training courses to participants from South Africa and the rest of Africa. The training courses, developed at the SAGL to address the needs of the industry, cover both theoretical aspects and hands-on practical training in the laboratory. The requirements of the ISO 17025 standard, which forms the basis of accreditation, and general good laboratory practices are covered in the training courses.



5-day Mycotoxin method development course

- Trainees – 1

12-month internship in Rheology laboratory

- Trainees - 2

3 - day Wheat and flour training course

- Trainees - 5

2 - day Maize and Maize meal training course

- Trainees - 2

5 - day US Wheat - wheat and flour training course

- Trainees - 11

PROFICIENCY TESTS OFFERED

SAGL offers a wide range of proficiency schemes to the grain and oilseed industry in its capacity as reference laboratory. These schemes are designed to provide the local and international participants with a tool to assess their quality control measures, the performance of their instruments and methods, and to identify training needs. For the past five years, SAGL also has acted as the expert laboratory for the East African Proficiency Scheme (EAPT).

Registration and other information on the proficiency programme can be found on the SAGL website - www.sagl.co.za

PROFICIENCY TESTS OFFERED

Table 1: Proficiency tests offered by the SAGL

DESCRIPTION	# / YEAR	INTERVAL	PRODUCT	LOCAL PARTICIPANTS	INTER-NATIONAL PARTICIPANTS	COUNTRIES	TOTAL
SAGL ANNUAL PRE-HARVEST MAIZE GRADING RING TEST	1	Per Season	Maize	8	-	-	8
SAGL ANNUAL PRE-HARVEST SOYA BEANS GRADING RING TEST	1	Per Season	Soya beans	-	-	-	-
SAGL ANNUAL PRE-HARVEST SUNFLOWER GRADING RING TEST	1	Per Season	Sunflower	-	-	-	-
SAGL COLOUR RING TEST	6	Bi-monthly	White bread flour & Cake flour	4	2	Lesotho & Namibia	6
SAGL MINOLTA DRY COLOUR RING TEST	6	Bi-monthly	White bread flour & Cake flour	7	1	Botswana	8
SAGL MAIZE GRADING RING TEST	4	Quarterly	2 x White Maize 2 x Yellow Maize	6	2	Lesotho & Namibia	8
SAGL MAIZE MEAL QUALITY RING TEST	4	Quarterly	2 x Super Maize Meal 2 x "Special" Maize Meal	3	3	Swaziland, Lesotho, Namibia & Botswana	6
SAGL WHEAT GRADING RING TEST	4	Quarterly	Wheat	15	2	Lesotho & Namibia	17
SAGL WHEAT AND FLOUR RING TEST	4	Quarterly	Wheat, Wheat flour & Brown bread flour	19	13	Ghana, Nigeria, Lesotho, Swaziland, Senegal, Namibia, Cameroon, Botswana & Mauritius	32
SAGL VITAMIN INTER-LABORATORY TESTING	4	Quarterly	1 x Wheat Flour & Fortified Maize 2 x Maize Meal & Wheat Flour 1 Maize Meal & Cereal	1	1	Nigeria	2

Chairman's Report 2017/2018



THE SOUTHERN AFRICAN GRAIN LABORATORY NPC

ACCREDITATION

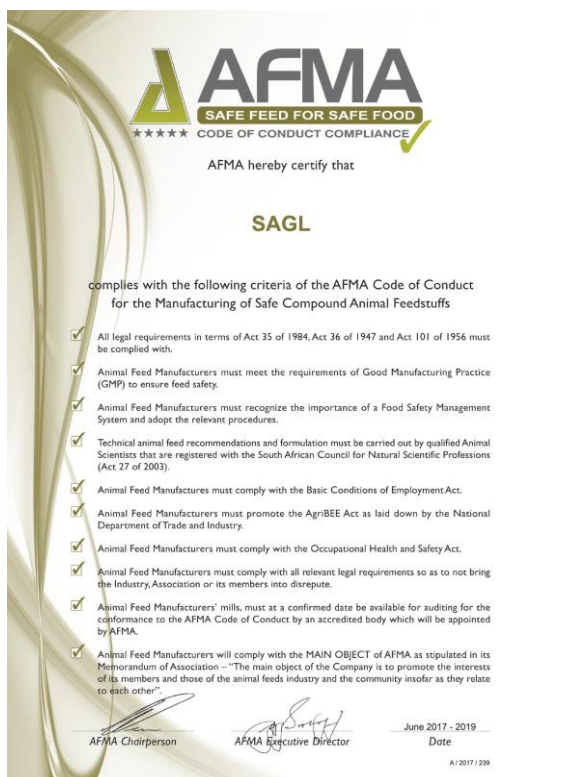
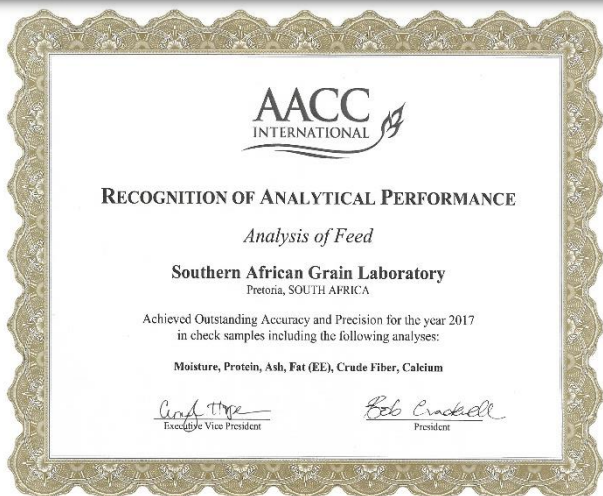
Accreditation under the International Organisation for Standardisation (ISO/IEC) 17025 is maintained. SANAS (South African National Accreditation System) conducts surveillance audits in an 18-month cycle to confirm compliance. During 2017, a new version of the ISO 17025 standard was published. The laboratory is currently in the process of migrating to the new standard. Accurate measurements are assured through the maintenance of SAGL's accreditation status to support a competitive grain and oilseed industry. The SAGL maintains benchmarking to the international measurement system through participation in international proficiency schemes to demonstrate competence. Refer to page 16 for more detail on the scope of accreditation.

Table 2: The comprehensive range of test methods on different matrices covered to confirm traceability to international standards across the entire range of analyses offered to the industry by SAGL.

PROFICIENCY SERVICE PROVIDER	FREQUENCY OF PARTICIPATION SAMPLES PER YEAR	MATRIX	ANALYSIS	ACCREDITED
American Association of Cereal Chemists International (AACCI) United States of America	6	Wheat Flour	Moisture & Alveograph	✓
		Hard Wheat Flour	Moisture, Protein, Ash, Falling number and Diastatic activity*	✓
		Feed Samples	Moisture, Protein, Ash, Crude fat (EE) and Crude fibre*	✓
		Different Grain Based Matrices	Moisture & Total dietary fibre	✓
		Hard Wheat Flour	Moisture & Farinograph	✓
		Wheat Flour	Moisture & Mixograph	✓
Bureau Interprofessionnel der Etudes Analytiques (BIPEA) France	10	Wheat Flour (Different types)	Moisture, Protein, Falling Number, Ash, Damaged starch*, Gluten (Wet & Dry) *, Gluten index*, Alveograph	✓
		Different Matrices	Mycotoxins	✓
The Food and Environmental Research Agency (FAPAS) United Kingdom	5	Amino Acids (Animal feed)	Protein, Free and Protein bound amino acids*	
	10	Various Mycotoxin Matrices	Mycotoxins	✓
	1	Various Sample Matrices	Melamine*	
	5	Bread Crumbs / Biscuits / Cereal / Soy bean meal / Poultry ration	Moisture, Ash, Nitrogen, Starch*, Total dietary fibre, Crude fat, Crude fibre* and Sodium	✓
AgriLASA South Africa	12	Various Feed Samples	Moisture*, Protein, Ash, Crude fat, Crude fibre*, Dietary fibre, Starch* and Minerals	✓
CODA-CERVA (NRL Belgium)	1	Cereal flour	Mycotoxins	✓
Romer Labs Check-Sample-Survey	2	Maize Products	Deoxynivalenol	✓
Aflatoxin Proficiency Testing and Control in Africa, Asia and Americas (APTECA)	1	Maize meal	Aflatoxins B1, B2, G1, G2	✓
World-wide Inter-Laboratory: World Grain Network	10	Barley (Milled)	Moisture & Protein	✓
		Wheat (Milled)	Moisture, Protein, Falling number and Wet gluten*	✓
		Canola/Rapeseed (milled)	Moisture & Crude fat	✓
Association of American Pesticide Control Officials (AAPCO)	1	4 different pesticides	Different active ingredient content	✓
National Laboratory Association – South Africa (NLA)	3	Pesticide formulations	Tests: Active ingredients content Physical tests: Suspensibility*, Emulsion stability*, Foaming*, pH range*, Density	

* Not accredited method.

COMPLIANCE CERTIFICATES & AWARDS



ISO 17025 ACCREDITATION & OECD GLP COMPLIANCE

The scope of SAGL's accreditation is determined by the needs of the Industry. Over the years, this scope was expanded in line with changing legislation and other local and international requirements.

Technical Signatories create a solid foundation for growth in the organisation and results in an emphasis on technical skills development.



ISO 17025
Accredited Since
1999
Scope: 21 Methods
Technical
Signatories: 13

ISO 17025 Accredited
Since 2017
Flexible Scope: HPLC
& GC/GC-MS, Density
Technical
Signatories: 2

OECD Principles of
GLP Compliant
Since 2017
Study Directors: 2

SANAS AUDITS/INSPECTIONS DURING 2017/2018:

- **Crop Protection Division** – ISO 17025 Audit: 26 February 2018
- **Crop Protection Division** – OECD GLP Inspection: 18 February 2018
- **Crop Quality Division** – ISO 17025 Surveillance Audit: 29 & 30 November 2017

"Quality is never an accident, it is always the result of high intention, sincere effort, intelligent direction and skilful execution. It represents the wise choice of many alternatives."

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. The directors are not aware of any new material changes that may adversely impact the company.

The directors are also 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.

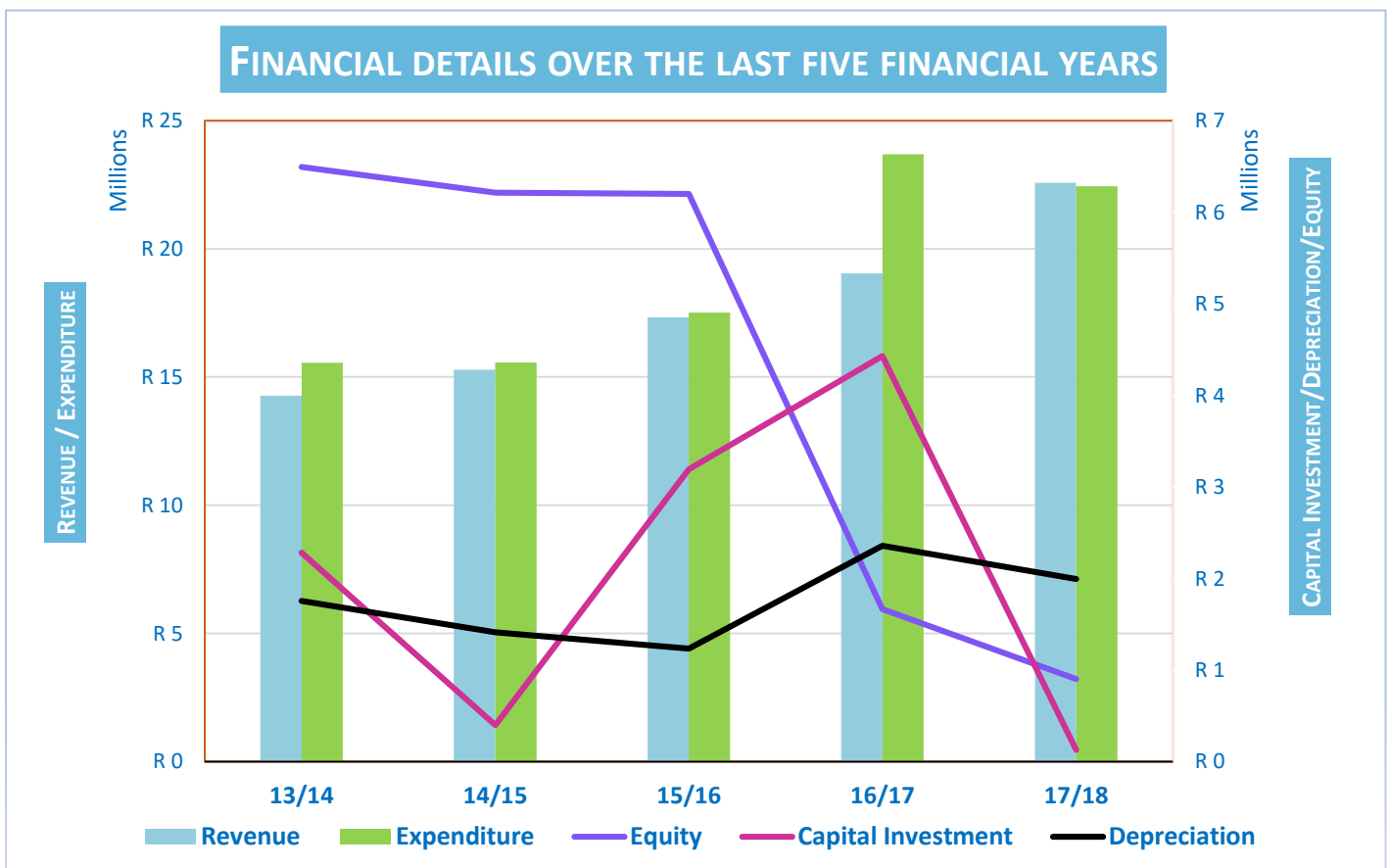


Figure 5: Financial position of the SAGL over the last five financial years

"Pleasure in the job puts perfection in the work." - Aristotle

Conclusion

The SAGL assertively reaffirmed its relevance and reputation as a reference laboratory of choice both locally and internationally.

It differentiates itself through use of internationally recognized procedures and methods in the provision of credible and quality analyses results of international standards.

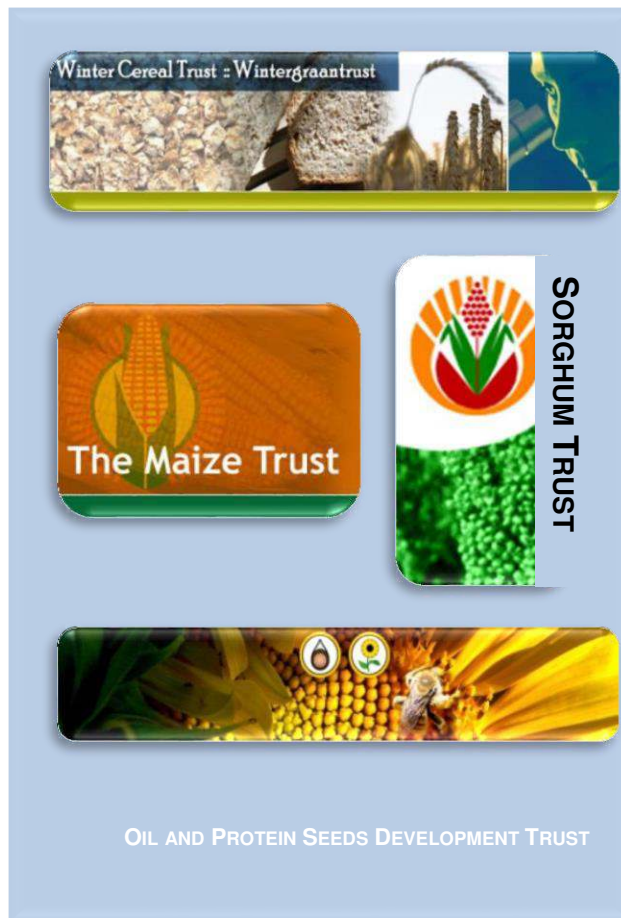
It is committed to contribute towards improving the country's food safety and quality control systems as well as continue to support and enhance industry's international competitiveness.

Acknowledgements

Heartfelt gratitude expressed to fellow Board members for support, commitment and strategic leadership.

Special word of thanks to the Executive Committee members for the all sacrifices and hard work.

Lastly, acknowledge the ever hard working management team and staff for keeping the SAGL's flag so visibly high. Your courageous and concerted efforts are highly commendable.



MR. BOIKANYO MOKGATLE
CHAIRPERSON 2017/2018

"The greatest leader is not necessarily the one who does the greatest things. He is the one that gets people to do the greatest things." – Ronald Reagan

THE SOUTHERN AFRICAN GRAIN LABORATORY NPC

The Southern African Grain Laboratory NPC (SAGL) is an independent non-profit laboratory, established in 1997 by the grain industry to act as a Reference Laboratory for the grain and oilseed industry. The SAGL provides an internationally competitive range of laboratory services for grain, oilseeds and products thereof including food, feed and feedstuffs. These services are driven by the needs of the broader grain industry.

The scope of analysis includes milling, grading, physical, chemical, rheological, baking, mycotoxin as well as macro- and micro nutrient analyses. ISO 17025 accredited test methods are implemented within a comprehensive quality system. Participation in several national and international proficiency schemes demonstrates technical competency, international comparability and traceability to international standards. The stakeholders serviced by the SAGL include grain and oilseed producers, the handling and storage industry, processors including the baking, milling and animal feed producing industries, traders of agricultural commodities, commercial seed breeding companies, agricultural research institutes and since 2016, also companies producing crop protection products.

The SAGL has expanded the scope of analysis by adding a Crop Protection Division to support the broader agricultural community in Southern Africa with accurate and reliable analytical results for registration purposes and after manufacturing quality control analysis of the final product as well as shelf-life extension.

This Division performs 5-batch analysis on technical material as well as the Physical, Chemical and stability testing on formulations as prescribed by the Food and Agricultural Organization of the United Nations (FAO) and the World Health Organization (WHO). This laboratory is equipped to perform most tests required by FAO/WHO according to the latest Collaborative International Pesticides Analytical Council (CIPAC) methods.

As an associate member of CropLife South Africa and through international involvement in the Specification Expert Group (SEG) and the English-Speaking Pesticide Analytical Committee (ESPAC), the SAGL is informed of changes in international requirements as developments take place.

