

# South African

Commercial sorghum quality for the  
2018/2019 Season



## Acknowledgements

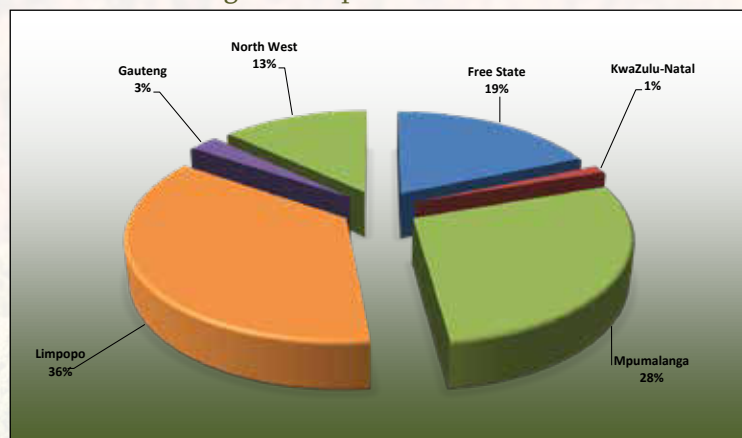
### With gratitude to:

- *The Sorghum Trust for its financial support in conducting this survey.*
- *Agbiz Grain and its members for their cooperation in providing the samples to make this survey possible.*
- *The Crop Estimates Committee (CEC) of the Department of Agriculture, Forestry and Fisheries for providing production related figures.*
- *South African Grain Information Service (SAGIS) for providing supply and demand figures relating to sorghum.*
- *The Bureau for Food and Agricultural Policy (BFAP) for providing research based market analysis.*

## Introduction

The final commercial sorghum crop figure of the 2018/19 production season as overseen by the National Crop Estimates Liaison Committee (CELC) is 127 0000 tons. The crop increased by just more than 10% (12 000 tons) year on year. Limpopo, the major sorghum producing province this season, contributed 36% of the total crop. Yield figures showed a 37% decrease year on year, from 3.99 t/ha to 2.51 t/ha.

Graph 1: Contribution of the provinces to the production of the 2018/2019 sorghum crop



Figures provided by the CEC.

During the harvesting season, a representative sample of each delivery of sorghum at the various grain intake points, was taken according to the prescribed grading regulations. The sampling procedure for the samples used in this survey is described on page 32. Thirty-one (31) composite sorghum samples, representing the different production regions, were analysed for quality.

The samples were graded and test weight and thousand kernel mass determined. Sub-samples were milled and analysed for moisture, crude protein and starch. After sieving and dehulling by means of a Barley pearler, the fraction of the sample above the 1.8 mm slotted sieve were milled and Hunter Lab colour analyses conducted. Multi-mycotoxin analyses as well as Image analyses (kernel size distribution, length, width, relative roundness and volume to surface ratio on the whole kernels) were also performed on the samples.

This is the second annual sorghum crop quality survey performed by The Southern African Grain Laboratory NPC (SAGL). SAGL was established in 1997 on request of the Grain Industry. SAGL is an ISO 17025 accredited testing laboratory and participates in a number of proficiency testing schemes, both nationally and internationally, as part of our ongoing quality assurance procedures to demonstrate technical competency and international comparability.

The goal of this crop quality survey is the compilation of a detailed database, accumulating quality data collected over several seasons on the national commercial sorghum crop. The data reveal general tendencies and highlight quality differences in the commercial sorghum produced in different local production regions. A detailed database containing reliable analytical data collected over several seasons, is essential in enabling industry to comment on proposed legislative levels and to supply reliable data for targeted research projects.