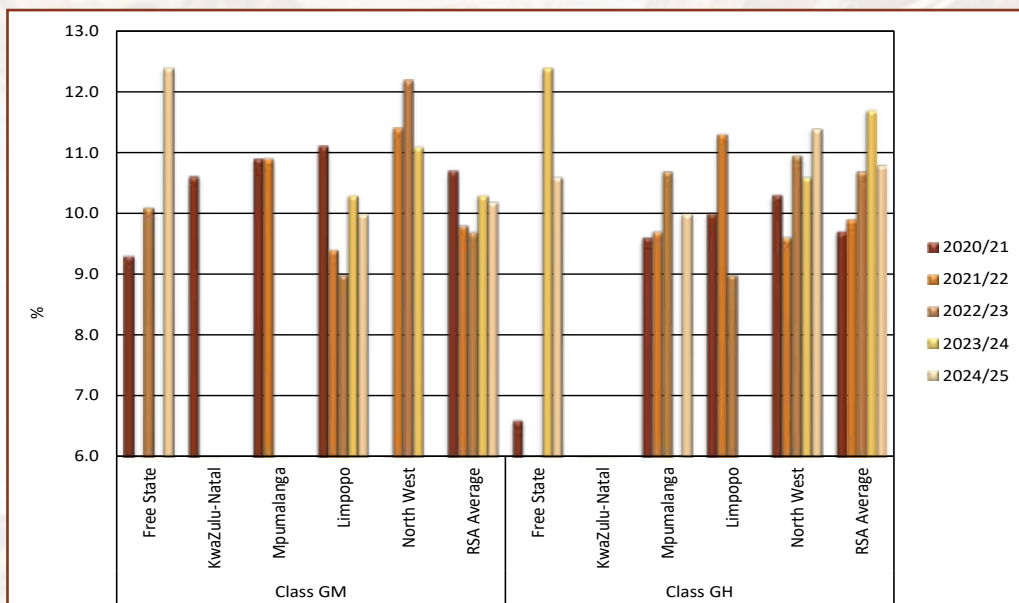


Graph 19: Average test weight per class per province over five seasons

GM sorghum also had the highest 1 000 kernel mass values, ranging between 22.2 g and 27.8 g (14% moisture basis) and averaging 24.2 g. GH sorghum averaged 22.4 g and varied between 20.7 g and 25.5 g. Last season these averages were 23.9 g and 19.0 g respectively.

The image analysis results showed that the GM sorghum on average had slightly longer kernels, while the kernel width was similar for GM and GH sorghum. The variation (indicated by the standard deviation) in these parameters is similar for both GM and GH sorghum. Kernel elongation, defined as % Width/Length, showed a wider variation as the individual length and width parameters as can be expected, with average standard deviations of 5.8% for GM and 5.1% for GH sorghum. A totally round kernel will have a % Width/Length of 100. GM sorghum's Volume / surface area percentage was on average over the last six seasons 4% higher than that of GH sorghum.

As shown in Graph 20, the crude protein content for GM sorghum varied between an average of 10.0% in Limpopo to 12.4% on the sample from the Free State. GH sorghum's average crude protein content ranged from 10.0% on the sample from Mpumalanga to averages of 10.6% and 11.4% on the two Free State and two North West samples respectively. Nationally, GM and GH sorghum averaged 10.2% and 10.8% respectively.



Graph 20: Average percentage crude protein per class per province over five seasons