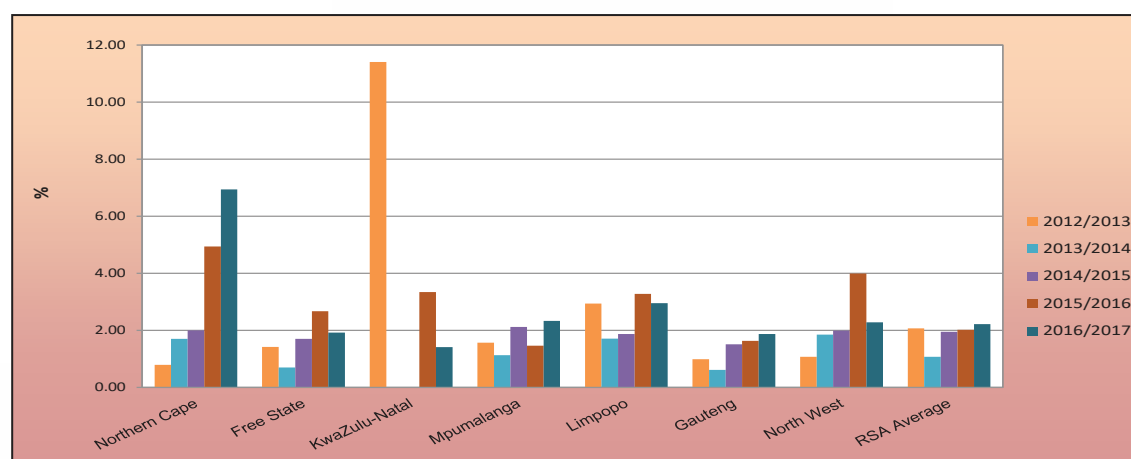
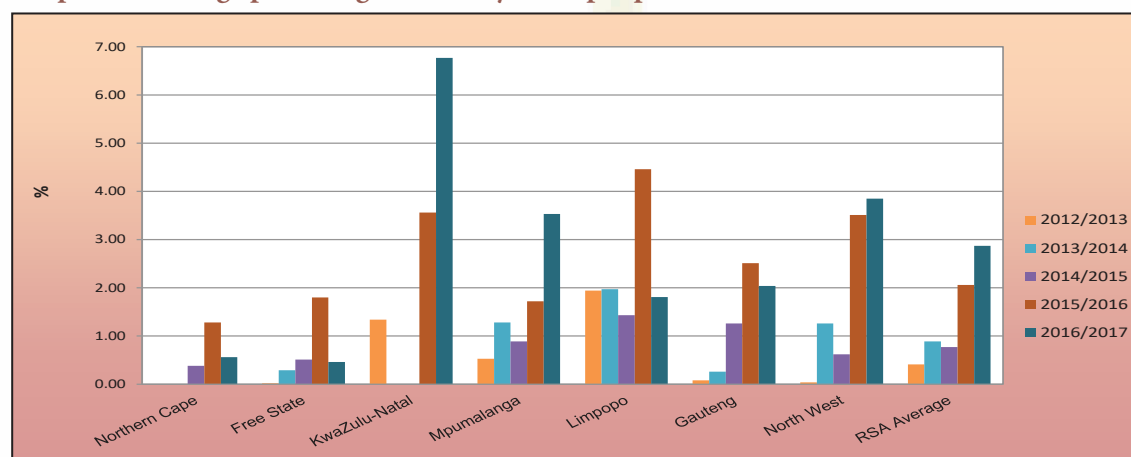


Graph 19: Average percentage defective soybeans on the 4.75 mm round hole sieve per province over five seasons



The South African weighted average percentage soiled soybeans of 2.87% is the highest since this survey was started in the 2011/2012 season when the average was 1.60%. The average last season was 2.06%. Average weighted percentages per province ranged from 0.46 in the Free State to 6.77 in KwaZulu-Natal. Please see Graph 20. Eleven samples exceeded the maximum permissible deviation of 10% according to the grading regulations. More than half of these samples originated from Mpumalanga. Last season, no samples exceeded this grading limit.

Graph 20: Average percentage soiled soybeans per province over five seasons



Test weight does not form part of the grading regulations for soybeans in South Africa. An approximation of the test weight of South African soybeans is provided in Table 2 for information purposes. The g/1L filling weight of the 150 soybeans samples was determined by means of the Kern 222 apparatus. The test weight was extrapolated by means of the following formulas obtained from the Test Weight Conversion Chart for Soybean of the Canadian Grain Commission: $y = 0.1898x + 2.2988$ (291 to 350 g/0.5 L) and $y = 0.1895x + 2.3964$ (351 to 410 g/0.5 L). Please see Graph 21 for a comparison of the test weight per province over the last three seasons.

Table 2: Approximation of test weight per province over three seasons

| Province | Test weight, kg/hl | | | | | | | | |
|---------------------------------|--------------------|--------------------|----------------|------------------|--------------------|----------------|------------------|--------------------|----------------|
| | 2016/2017 Season | | | 2015/2016 Season | | | 2014/2015 Season | | |
| | Weighted average | Range | No. of samples | Weighted average | Range | No. of samples | Weighted average | Range | No. of samples |
| Northern Cape (Regions 10 - 11) | 71.2 | 71.1 - 71.2 | 2 | 70.5 | - | 1 | 71.6 | 71.2 - 71.9 | 3 |
| Free State (Regions 21 - 28) | 70.7 | 65.8 - 72.1 | 33 | 70.8 | 68.5 - 73.0 | 23 | 71.1 | 67.0 - 72.7 | 42 |
| KwaZulu-Natal (Regions 36) | 70.6 | 69.2 - 71.5 | 8 | 69.9 | 67.7 - 71.6 | 14 | - | - | - |
| Mpumalanga (Regions 29 - 33) | 71.0 | 67.6 - 72.6 | 86 | 71.3 | 68.9 - 72.7 | 91 | 70.7 | 63.3 - 78.2 | 77 |
| Limpopo (Region 35) | 69.7 | 69.1 - 70.2 | 2 | 71.3 | - | 1 | 70.0 | 69.3 - 70.8 | 2 |
| Gauteng (Region 34) | 71.5 | 70.8 - 73.6 | 11 | 71.2 | 70.6 - 72.2 | 5 | 71.4 | 69.5 - 72.4 | 8 |
| North West (Region 12 - 20) | 69.8 | 67.7 - 70.9 | 8 | 68.9 | 64.9 - 70.5 | 8 | 71.1 | 68.8 - 72.2 | 18 |
| RSA | 70.9 | 65.8 - 73.6 | 150 | 70.9 | 64.9 - 73.0 | 143 | 70.9 | 63.3 - 78.2 | 150 |