

TABLE 11: IMPORTED SORGHUM QUALITY

Quality of sorghum imported from March 2019 to February 2020 compared to RSA crop quality of the 2018/19 season

| Country of origin | | USA | RSA Crop Average |
|---|--------------------|-----------|------------------|
| Class sorghum | | GM | GM |
| Grade sorghum | | GM3 | GM3 |
| Grading | | | |
| Foreign matter, % | | 0.20 | 0.62 |
| Unthreshed sorghum, % | | 0.27 | 1.08 |
| Defective sorghum, % | | 0.80 | 0.38 |
| Small kernel sorghum, % | | 2.68 | 1.12 |
| Total defective sorghum and small kernel sorghum, % | | 3.48 | 1.50 |
| Sorghum of another group, % | | 1.03 | 7.80 |
| White sorghum, % | | 10.73 | 0.00 |
| Total of sorghum of another group and white sorghum, % | | 11.76 | 7.80 |
| Weather-stained sorghum, % | | 1.50 | 0.40 |
| Physical parameters | | | |
| Test weight, kg/hl | | 77.8 | 77.8 |
| 1000 Kernel Mass, g (14% moisture base) | | 24.5 | 30.0 |
| # Image analysis | Length, mm | 4.69 | 4.29 |
| | Standard Deviation | 0.30 | 0.32 |
| | Width, mm | 4.08 | 3.82 |
| | Standard Deviation | 0.21 | 0.22 |
| | Roundness, % | 87.24 | 87 |
| | Standard Deviation | 5.47 | 4.9 |
| | Surface Area, % | 74.3 | 71 |
| | Standard Deviation | 3.7 | 2.4 |
| Chemical composition | | | |
| Moisture, % | | 13.0 | 11.8 |
| Protein, % (db) | | 9.6 | 11.9 |
| Starch content, % (db) | | 73.1 | 72.6 |
| Hunterlab colour (fraction of dehulled sample above the 1.8 mm slotted sieve milled on Retch mill through 0.5 mm sieve) | L | 73.02 | 73.56 |
| | a | 4.17 | 4.44 |
| | b | 10.36 | 10.19 |
| Mycotoxins (µg/kg) | | | |
| Aflatoxin B ₁ | | ND | ND |
| Aflatoxin B ₂ | | ND | ND |
| Aflatoxin G ₁ | | ND | ND |
| Aflatoxin G ₂ | | <20 [<20] | ND |
| Fumonisin B ₁ | | ND | ND |
| Fumonisin B ₂ | | ND | ND |
| Fumonisin B ₃ | | ND | ND |
| Deoxynivalenol | | ND | ND |
| 15-ADON | | ND | ND |
| Ochratoxin A | | ND | ND |
| Zearalenone | | 75 [77] | ND |
| HT2 | | ND | ND |
| T2 | | ND | ND |
| Number of samples | | 2 | 1 |