

Table 3: IMPORTED SORGHUM QUALITY Quality of sorghum imported from March 2023 to February 2024 compared to RSA crop quality of the 2023/2024 season				
Country of origin	Brazil		RSA Crop Average	
Class sorghum	GM		GM	
Grade sorghum	GM1	Brazil Average	GM1	RSA Average
Grading				
Foreign matter, %	0.62	0.62	0.86	0.88
Unthreshed sorghum, %	0.14	0.14	0.65	0.76
Defective sorghum, %	1.22	1.22	1.76	2.22
Small kernel sorghum, %	2.28	2.28	1.42	1.37
Total defective sorghum and small kernel sorghum, %	3.50	3.50	3.18	3.59
Sorghum of another group, %	0.18	0.18	0.00	0.00
White sorghum, %	1.07	1.07	0.00	0.00
Total of sorghum of another group and white sorghum, %	1.24	1.24	0.00	0.00
Weather-stained sorghum, %	0.24	0.24	0.92	0.76
Physical parameters				
Test weight, kg/hl	79.6	79.6	78.4	77.7
1000 Kernel Mass, g (14% moisture base)	23.2	23.2	24.4	23.9
# Image analysis	Length, mm	4.43	4.43	4.48
	Standard Deviation	0.38	0.38	0.33
	Width, mm	3.94	3.94	3.65
	Standard Deviation	0.35	0.35	0.26
	Elongation (% Width/Length)	89	89	82
	Standard Deviation	5.6	5.6	5.52
	Volume/surface area (%)	71	71	69
	Standard Deviation	5.8	5.8	4.5
Nutritional analysis				
Milled Sorghum Moisture, %	12.2	12.2	11.1	11.1
Crude Protein content, % (db)	10.3	10.3	10.4	10.3
Total Starch content, % (db)	74.5	74.5	72.5	72.1
Crude Fat content, % (db)				
Hunterlab colour (fraction of dehulled sample above the 1.8 mm slotted sieve milled on Retch mill through 0.5 mm sieve)	L	69.8	69.8	75.2
	a	5.2	5.2	4.3
	b	10.8	10.8	10.7
Number of samples	9	9	13	20
Mycotoxins (µg/kg)				
Aflatoxin B ₁	0 [0]		0 [0]	
Aflatoxin B ₂	0 [0]		0 [0]	
Aflatoxin G ₁	0 [0]		0 [0]	
Aflatoxin G ₂	0 [0]		0 [0]	
Fumonisin B ₁ [max value]	0 [0]		0 [0]	
Fumonisin B ₂	0 [0]		0 [0]	
Fumonisin B ₃	0 [0]		0 [0]	
Deoxynivalenol [max value]	0 [0]		0 [0]	
15-ADON	0 [0]		0 [0]	
Ochratoxin A	0 [0]		0 [0]	
Zearalenone [max value]	0 [0]		0 [0]	
HT2	0 [0]		0 [0]	
T2	0 [0]		0 [0]	
Number of samples	9		20	