

Table 3b: IMPORTED SORGHUM QUALITY
Quality of sorghum imported from March 2024 to February 2025 compared to
RSA crop quality of the 2024/2025 season

Country of origin	USA		RSA Crop Average			
Class sorghum	GM		GM			
Grade sorghum	GM1	Average	GM1	GM2	Average	
Grading						
Foreign matter, %	0.31	0.31	0.26	0.37	0.28	
Unthreshed sorghum, %	0.06	0.06	0.78	0.22	0.66	
Defective sorghum, %	1.87	1.87	1.10	3.55	1.59	
Small kernel sorghum, %	0.75	0.75	0.88	0.44	0.79	
Total defective sorghum and small kernel sorghum, %	2.83	2.83	1.98	3.99	2.38	
Sorghum of another group, %	0.40	0.40	0.00	0.00	0.00	
White sorghum, %	2.75	2.75	0.04	0.00	0.03	
Total of sorghum of another group and white sorghum, %	3.15	3.15	0.04	0.00	0.03	
Weather-stained sorghum, %	3.03	3.03	0.00	0.00	0.00	
Physical parameters						
Test weight, kg/hl	79.9	79.9	78.3	75.2	77.6	
1000 Kernel Mass, g (14% moisture base)	22.6	22.6	23.7	26	24.2	
# Image analysis	Length, mm	4.23	4.23	4.59	4.70	4.61
	Standard Deviation	0.33	0.33	0.37	0.37	0.37
	Width, mm	3.75	3.75	3.83	4.08	3.88
	Standard Deviation	0.24	0.24	0.35	0.33	0.35
	Elongation (% Width/Length)	89	89	84	87	84
	Standard Deviation	5.0	5.0	5.9	5.4	5.8
	Volume/surface area (%)	67	67	67	71	68
	Standard Deviation	5.0	5.0	5.6	5.3	5.5
Nutritional analysis						
Milled Sorghum moisture, %	13.4	13.4	11.9	13.1	12.2	
Protein, % (db)	11.2	11.2	10.0	10.9	10.2	
Total Starch, % (db)	73.5	73.5	72.7	73.0	72.7	
Crude fat, % (db)	3.1	3.1	3.6	3.5	3.6	
Hunterlab colour (fraction of dehulled sample above the 1.8 mm slotted sieve milled on Retch mill through 0.5 mm sieve	L	73.41	73.41	66.08	70.67	66.99
	a	4.73	4.73	5.71	4.83	5.54
	b	10.65	10.65	9.62	10.24	9.74
Number of samples	1	1	8	2	10	
Mycotoxins (µg/kg)						
Aflatoxin B ₁ [max value]	0 [0]		1 [8]			
Aflatoxin B ₂ [max value]	0 [0]		0 [0]			
Aflatoxin G ₁ [max value]	0 [0]		0 [0]			
Aflatoxin G ₂ [max value]	0 [0]		0 [0]			
Fumonisin B ₁ [max value]	0 [0]		3 [33]			
Fumonisin B ₂ [max value]	0 [0]		0 [0]			
Fumonisin B ₃ [max value]	0 [0]		0 [0]			
Deoxynivalenol [max value]	0 [0]		0 [0]			
15-ADON [max value]	0 [0]		0 [0]			
Ochratoxin A [max value]	0 [0]		0 [0]			
Zearalenone [max value]	0 [0]		0 [0]			
HT2 [max value]	0 [0]		0 [0]			
T2 [max value]	0 [0]		0 [0]			
Number of samples	1		10			