

Table 3: South African Sorghum Crop Quality Averages 2022/23 season

Class and grade sorghum		GM					GH			
		GM1	GM2	GM3	CO	Weighted Average	GH1	GH2	CO	Weighted Average
Grading										
Foreign matter, %		0.40	0.16	1.56	1.94	0.77	0.44	0.36	1.20	0.54
Unthreshed sorghum, %		1.67	1.12	7.24	39.08	9.27	2.50	0.90	43.40	8.12
Defective sorghum, %		0.86	3.84	1.94	0.91	1.07	1.27	3.20	0.64	1.46
Small kernel sorghum, %		1.19	1.92	3.30	0.98	1.34	1.95	6.78	0.98	2.50
Total defective sorghum and small kernel sorghum, %		2.04	5.76	5.24	1.89	2.40	3.22	9.98	1.62	3.96
Sorghum of another group, %		0.00	0.00	5.00	0.00	0.38	0.00	0.00	0.00	0.00
White sorghum, %		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total of sorghum of another group and white sorghum, %		0.00	0.00	5.00	0.00	0.38	0.00	0.00	0.00	0.00
Weather-stained sorghum, %		0.87	0.00	0.20	0.26	0.66	0.54	0.74	0.60	0.58
Physical parameters										
Test weight, kg/hl		77.1	78.7	70.9	62.0	73.8	69.0	66.8	60.4	67.5
1000 Kernel Mass, g (14% moisture base)		24.6	24.6	24.3	23.1	24.3	23.0	18.8	20.5	22.0
# Image analysis	Length, mm	4.69	4.76	4.37	4.41	4.61	4.22	4.12	4.32	4.22
	Standard Deviation	0.35	0.29	0.33	0.31	0.34	0.30	0.34	0.38	0.32
	Width, mm	3.93	3.91	3.67	4.00	3.92	3.82	3.80	3.97	3.84
	Standard Deviation	0.31	0.30	0.31	0.28	0.31	0.29	0.34	0.31	0.30
	Elongation, %	84	82	84	91	85	90	92	92	91
	Standard Deviation	5.6	4.3	5.2	4.8	5.3	4.6	4.8	4.4	4.6
	Surface Area, %	73	74	68	71	72	68	67	70	68
	Standard Deviation	5.1	4.7	5.0	4.5	5.0	4.7	5.4	5.6	4.9
Nutritional analysis										
Milled Sorghum Moisture, %		12.0	10.7	12.1	11.9	11.9	12.1	12.3	12.4	12.2
Crude Protein content, % (db)		9.2	8.0	8.9	12.2	9.7	10.2	11.0	12.7	10.7
Total Starch content, % (db)		75.7	81.1	73.6	66.6	74.0	71.2	72.9	67.0	70.9
Crude Fat content, % (db)		3.4	3.4	3.4	3.2	3.4	2.9	2.5	2.7	2.8
Hunterlab colour (fraction of dehulled sample above the 1.8 mm slotted sieve milled on Retch mill through 0.5 mm sieve)	L	71.70	71.36	70.20	65.97	70.47	66.97	68.06	67.07	67.14
	a	5.01	5.56	5.11	5.49	5.13	5.15	3.87	4.35	4.85
	b	10.22	9.96	9.84	9.14	9.97	8.62	7.76	7.96	8.40
Number of samples		18	1	2	5	26	5	1	1	7

CO = Class other