

**Table 3: South African Sorghum Crop Quality Averages 2018/19 season**

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Class sorghum	GM				GH			
Grade sorghum	GM1	GM2	GM3	Weighted Average	GH1	GH2	Weighted Average	
<b>Grading</b>								
Foreign matter, %	0.55	1.80	0.62	0.62	0.60	2.60	0.78	
Unthreshed sorghum, %	0.67	0.72	1.08	0.69	0.78	0.48	0.75	
Defective sorghum, %	0.72	0.54	0.38	0.70	0.72	0.62	0.71	
Small kernel sorghum, %	0.98	0.50	1.12	0.96	1.41	0.72	1.35	
Total defective sorghum and small kernel sorghum, %	1.53	1.04	1.50	1.51	2.13	1.34	2.06	
Sorghum of another group, %	0.00	0.22	7.80	0.00	0.00	0.18	0.00	
White sorghum, %	0.07	0.80	0.00	0.10	0.02	0.00	0.01	
Total of sorghum of another group and white sorghum, %	0.14	1.02	7.80	0.57	0.03	0.18	0.05	
Weather-stained sorghum, %	0.71	1.10	0.40	0.71	0.31	1.08	0.38	
<b>Physical parameters</b>								
Test weight, kg/hl	79.0	78.7	77.8	78.9	77.2	78.7	77.3	
1000 Kernel Mass, g (14% moisture base)	25.2	26.7	30.0	25.5	24.1	27.7	24.4	
# Image analysis	Length, mm	4.42	4.36	4.29	4.41	4.21	4.16	4.20
	Standard Deviation	0.30	0.26	0.32	0.30	0.28	0.28	0.28
	Width, mm	3.76	3.80	3.82	3.77	3.77	3.75	3.77
	Standard Deviation	0.23	0.22	0.22	0.23	0.22	0.20	0.22
	Roundness, %	85	87	87	85	89	90	89
	Standard Deviation	4.5	4.7	4.9	4.6	4.8	5.3	4.9
	Surface Area, %	70	71	71	70	68	68	68
	Standard Deviation	3.2	2.6	2.4	3.1	3.0	2.6	3.0
<b>Chemical composition</b>								
Moisture, %	11.0	11.5	11.8	11.1	11.6	11.7	11.6	
Protein, % (db)	11.1	9.7	11.9	11.0	10.7	10.5	10.7	
Starch content, % (db)	71.8	73.5	72.6	71.9	69.6	67.6	69.4	
<b>Hunterlab colour</b> (fraction of dehulled sample above the 1.8 mm slotted sieve milled on Retch mill through 0.5 mm sieve)	L	73.49	73.21	73.56	73.48	68.82	69.43	68.88
	a	4.54	4.19	4.44	4.51	4.76	4.75	4.76
	b	10.58	9.98	10.19	10.53	9.56	9.60	9.57
<b>Number of samples</b>	<b>18</b>	<b>1</b>	<b>1</b>	<b>20</b>	<b>10</b>	<b>1</b>	<b>11</b>	