

**TABLE 7: PHYSICAL PARAMETERS & IMAGE ANALYSIS OF SORGHUM ACCORDING TO CLASS (2017/2018)**

Number of samples	Region	Test weight, kg/ha		1000 Kernel mass, g		Image Analysis Length (mm) Average		Image Analysis Length (mm) Std Dev		Width (mm) Average		Width (mm) Std Dev		Relative Roundness (%) Average		Relative Roundness (%) Std Dev		Volume to surface ratio (%) Average		Volume to surface ratio (%) Std Dev												
		ave.	min.	max.	ave.	min.	max.	ave.	min.	max.	ave.	min.	max.	ave.	min.	max.	ave.	min.	max.	ave.	min.	max.										
<b>CLASS: GM</b>																																
3	Region 18	73.4	71.7	75.8	21.7	19.9	24.5	4.60	4.48	4.69	0.36	0.33	0.38	3.95	3.78	4.17	0.29	0.26	0.32	86	82	89	5.3	5.0	5.7	72	71	74.9	4.9	4.3	5.3	
1	Region 24	80.3	-	-	25.1	-	-	4.29	-	-	0.32	-	-	3.91	-	-	0.32	-	-	-	91	-	-	4.2	-	-	69	-	-	4.9	-	-
1	Region 26	80.7	-	-	22.3	-	-	4.15	-	-	0.35	-	-	3.80	-	-	0.34	-	-	-	92	-	-	5.5	-	-	67	-	-	5.5	-	-
3	Region 27	77.4	75.7	78.9	25.5	24.4	27.2	4.63	4.59	4.67	0.30	0.29	0.31	4.11	4.06	4.19	0.28	0.23	0.32	89	87	91	4.8	4.7	5.2	74	73	74.4	4.5	4.0	4.9	
12	Region 29	78.3	75.3	82.3	25.5	23.2	29.5	4.44	4.12	4.71	0.33	0.28	0.42	3.96	3.73	4.20	0.33	0.27	0.40	89	87	92	5.2	4.4	5.7	71	66	75.0	5.2	4.4	6.6	
1	Region 31	77.5	-	-	26.0	-	-	4.57	-	-	0.37	-	-	4.01	-	-	0.31	-	-	-	88	-	-	5.1	-	-	73	-	-	5.4	-	-
6	Region 35	80.5	78.9	82.1	27.7	21.6	31.3	4.50	4.32	4.80	0.32	0.27	0.38	3.94	3.75	4.17	0.29	0.23	0.43	88	84	91	5.2	4.3	6.1	71	68	75.0	4.8	4.0	6.5	
27	Ave. GM	78.3	71.7	82.3	25.5	19.9	31.3	4.48	4.12	4.80	0.33	0.27	0.42	3.97	3.73	4.20	0.31	0.23	0.43	89	82	92	5.1	4.2	6.1	71	66	75	5.0	4.0	6.6	
<b>CLASS: GH</b>																																
1	Region 17	54.1	-	-	17.0	-	-	4.15	-	-	0.45	-	-	3.64	-	-	0.32	-	-	-	88	-	-	8.4	-	-	66	-	-	5.0	-	-
2	Region 18	73.2	70.9	75.4	21.4	19.7	23.0	4.37	4.19	4.54	0.38	0.37	0.39	3.87	3.80	3.95	0.32	0.28	0.37	89	87	91	5.5	5.2	5.9	70	67	72	5.5	5.2	5.8	
1	Region 19	74.7	-	-	24.4	-	-	4.22	-	-	0.29	-	-	3.87	-	-	0.22	-	-	-	92	-	-	4.4	-	-	68	-	-	4.2	-	-
2	Region 20	73.3	71.0	75.6	23.8	19.7	27.8	4.24	4.11	4.36	0.29	0.29	0.29	3.86	3.65	4.06	0.30	0.29	0.30	91	89	93	5.2	4.6	5.8	68	66	71	4.5	4.5	4.6	
1	Region 21	75.6	-	-	21.8	-	-	4.01	-	-	0.30	-	-	3.68	-	-	0.29	-	-	-	92	-	-	4.0	-	-	65	-	-	4.4	-	-
3	Region 24	75.4	73.8	77.2	21.8	20.7	23.4	4.14	4.11	4.18	0.36	0.30	0.41	3.72	3.70	3.74	0.31	0.27	0.37	90	90	91	5.4	4.8	5.8	66	66	67	5.3	4.7	5.8	
1	Region 27	77.0	-	-	23.2	-	-	4.28	-	-	0.33	-	-	3.78	-	-	0.32	-	-	-	89	-	-	6.5	-	-	68	-	-	4.8	-	-
2	Region 29	74.6	74.2	74.9	22.3	20.3	24.2	4.09	4.05	4.14	0.30	0.28	0.32	3.71	3.65	3.77	0.27	0.25	0.30	91	90	91	4.9	4.5	5.3	66	65	67	4.5	4.2	4.8	
2	Region 35	77.1	74.7	79.4	23.7	23.3	24.1	4.22	4.20	4.23	0.36	0.34	0.37	3.76	3.74	3.77	0.33	0.26	0.40	89	88	90	5.6	5.3	5.9	67	67	67	5.4	4.7	6.2	
15	Ave. GH	73.6	54.1	79.4	22.3	17.0	27.8	4.19	4.01	4.54	0.34	0.28	0.45	3.77	3.64	4.06	0.30	0.22	0.40	90	87	93	5.5	4.0	8.4	67	65	72	5.0	4.2	6.2	