

**TABLE 7: PHYSICAL PARAMETERS & IMAGE ANALYSIS OF SORGHUM ACCORDING TO CLASS (2019/20)**

Number of samples	Region	Test weight, kg/hl			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.	ave.	min.	max.	ave.	min.	max.			
<b>CLASS: GM</b>																															
1	Region 16	77.1	-	-	31.5	-	-	4.58	-	-	0.30	-	-	4.01	-	-	0.26	-	-	88	-	-	6.1	-	-	73	-	-	4.0	-	-
8	Region 29	77.3	71.1	80.8	23.3	21.1	25.4	4.45	4.23	4.63	0.30	0.26	0.34	3.87	3.76	3.97	0.22	0.19	0.25	87	86	90	5.6	4.7	6.1	70	68	73	3.9	3.4	4.3
1	Region 30	76.6	-	-	20.3	-	-	4.49	-	-	0.52	-	-	3.88	-	-	0.24	-	-	88	-	-	6.4	-	-	70	-	-	3.9	-	-
1	Region 31	49.1	-	-	19.0	-	-	4.45	-	-	0.38	-	-	3.71	-	-	0.32	-	-	84	-	-	7.2	-	-	69	-	-	5.1	-	-
16	Region 35	76.8	69.2	79.8	23.7	19.2	27.5	4.55	4.25	4.83	0.33	0.27	0.42	3.78	3.67	3.92	0.25	0.20	0.28	84	80	89	5.8	5.2	6.5	71	67	74	4.3	3.3	5.2
1	Region 36	73.5	-	-	22.1	-	-	4.29	-	-	0.27	-	-	3.89	-	-	0.23	-	-	91	-	-	4.5	-	-	69	-	-	3.9	-	-
28	Ave. GM	75.8			23.5			4.51			0.33			3.82			0.24			85			5.8			71			4.2		
	Min. GM	49.1			19.0			4.23			0.26			3.67			0.19			80			4.5			67			3.3		
	Max. GM	80.8			31.5			4.83			0.52			4.01			0.32			91			7.2			74			5.2		
<b>CLASS: GH</b>																															
1	Region 16	78.7	-	-	24.1	-	-	4.37	-	-	0.26	-	-	3.99	-	-	0.22	-	-	91	-	-	4.8	-	-	70	-	-	3.7	-	-
1	Region 17	72.0	-	-	24.4	-	-	4.31	-	-	0.30	-	-	3.90	-	-	0.24	-	-	91	-	-	5.3	-	-	69	-	-	4.2	-	-
1	Region 20	78.3	-	-	27.5	-	-	4.31	-	-	0.28	-	-	3.94	-	-	0.23	-	-	92	-	-	3.9	-	-	70	-	-	4.0	-	-
1	Region 21	74.8	-	-	24.7	-	-	4.30	-	-	0.30	-	-	3.94	-	-	0.22	-	-	92	-	-	4.9	-	-	69	-	-	4.0	-	-
1	Region 24	74.6	-	-	23.3	-	-	4.25	-	-	0.27	-	-	3.87	-	-	0.20	-	-	91	-	-	5.1	-	-	68	-	-	3.6	-	-
1	Region 27	79.8	-	-	27.4	-	-	4.64	-	-	0.29	-	-	3.95	-	-	0.21	-	-	85	-	-	5.2	-	-	73	-	-	3.6	-	-
2	Region 33	76.2	76.0	76.3	23.0	20.9	25.1	4.30	4.26	4.35	0.33	0.29	0.36	3.90	3.88	3.91	0.25	0.22	0.28	91	90	92	5.4	4.8	5.9	69	69	70	4.5	4.0	5.0
3	Region 35	75.4	74.0	77.4	20.9	18.5	25.2	4.27	4.18	4.36	0.29	0.25	0.31	3.81	3.77	3.83	0.24	0.22	0.28	89	87	92	5.2	4.5	6.0	68	67	69	4.1	3.6	4.4
1	Region 36	82.8	-	-	25.6	-	-	4.43	-	-	0.30	-	-	3.95	-	-	0.21	-	-	89	-	-	4.9	-	-	71	-	-	4.0	-	-
12	Ave. GH	76.6			23.8			4.33			0.29			3.90			0.23			90			5.0			69			4.0		
	Min. GH	72.0			18.5			4.18			0.25			3.77			0.20			85			3.9			67			3.6		
	Max. GH	82.8			27.5			4.64			0.36			3.99			0.28			92			6.0			73			5.0		