

**TABLE 7b: PHYSICAL PARAMETERS & IMAGE ANALYSIS OF SORGHUM ACCORDING TO CLASS (2022/23)**  
(Sorghum cultivar trial samples)

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			Elongation (%) Average			Elongation (%) 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>																															
5	Region 18	62.0	54.0	71.5	23.1	20.2	26.2	4.41	4.22	4.57	0.31	0.22	0.38	4.00	3.64	4.24	0.28	0.25	0.30	91	86	93	4.8	3.3	6.3	71	67	74	4.5	3.5	5.1
1	Region 21	63.2	-	-	27.4	-	-	4.62	-	-	0.40	-	-	4.10	-	-	0.32	-	-	89	-	-	5.7	-	-	74	-	-	5.6	-	-
6	Region 35	76.7	73.9	80.1	24.8	22.7	27.2	4.47	4.24	4.71	0.32	0.28	0.35	3.86	3.64	4.04	0.27	0.25	0.32	86	84	88	5.2	4.5	6.1	71	67	74	4.5	4.0	5.0
12	Ave. GM	69.4			24.3			4.46			0.32			3.93			0.28			88			5.1			71			4.6		
	Min. GM	54.0			20.2			4.22			0.22			3.64			0.25			84			3.3			67			3.5		
	Max. GM	80.1			27.4			4.71			0.40			4.24			0.32			93			6.3			74			5.6		
<b>CLASS: GH</b>																															
1	Region 17	53.8	-	-	19.2	-	-	4.28	-	-	0.32	-	-	3.88	-	-	0.31	-	-	91	-	-	4.4	-	-	69	-	-	5.0	-	-
1	Region 18	60.4	-	-	20.5	-	-	4.32	-	-	0.38	-	-	3.97	-	-	0.31	-	-	92	-	-	4.4	-	-	70	-	-	5.6	-	-
1	Region 35	67.2	-	-	21.4	-	-	4.25	-	-	0.25	-	-	3.60	-	-	0.25	-	-	85	-	-	5.7	-	-	67	-	-	3.7	-	-
3	Ave. GH	60.5			20.4			4.28			0.32			3.82			0.29			89			4.8			68			4.8		
	Min. GH	53.8			19.2			4.25			0.25			3.60			0.25			85			4.4			67			3.7		
	Max. GH	67.2			21.4			4.32			0.38			3.97			0.31			92			5.7			70			5.6		
15	Ave. Sorghum	67.6			23.5			4.42			0.32			3.91			0.28			88			5.0			71			4.6		
	Min. Sorghum	53.8			19.2			4.22			0.22			3.60			0.25			84			3.3			67			3.5		
	Max. Sorghum	80.1			27.4			4.71			0.40			4.24			0.32			93			6.3			74			5.6		