

TABLE 6a: PHYSICAL PARAMETERS & IMAGE ANALYSIS OF SORGHUM ACCORDING TO GRADE (2022/23)
(Sorghum crop samples)

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		Elongation (%) Average		Elongation (%) Std Dev		Volume to surface ratio (%) Average		Volume to surface ratio (%) Std Dev	
		ave.	max.	ave.	max.	ave.	max.	ave.	max.	ave.	max.	ave.	max.	ave.	max.	ave.	max.	ave.	max.	ave.	max.
GRADE: GM1																					
12	Region 35	78.3	79.7	24.5	24.9	4.77	4.94	0.36	0.42	3.92	4.17	0.33	0.40	82	85	5.6	6.2	74	77	5.3	6.3
12	Ave. GM1	78.3		24.5		4.77		0.36		3.92		0.33		82		5.6		74		5.3	
	Min. GM1	75.8		22.4		4.50		0.30		3.66		0.28		80		4.7		69		4.6	
	Max. GM1	79.7		24.9		4.94		0.42		4.17		0.40		85		6.2		77		6.3	
GRADE: GM2																					
1	Region 35	78.7	-	24.6	-	4.76	-	0.29	-	3.91	-	0.30	-	82	-	4.3	-	74	-	4.7	-
1	Ave. GM2	78.7		24.6		4.76		0.29		3.91		0.30		82		4.3		74		4.7	
	Min. GM2	-		-		-		-		-		-		-		-		-		-	
	Max. GM2	-		-		-		-		-		-		-		-		-		-	
GRADE: GM3																					
1	Region 35	67.9	-	21.3	-	4.50	-	0.38	-	3.70	-	0.37	-	82	-	5.8	-	70	-	5.8	-
1	Ave. GM3	67.9		21.3		4.50		0.38		3.70		0.37		82		5.8		70		5.8	
	Min. GM3	-		-		-		-		-		-		-		-		-		-	
	Max. GM3	-		-		-		-		-		-		-		-		-		-	
GRADE: GH1																					
1	Region 13	77.1	-	26.6	-	4.19	-	0.32	-	3.85	-	0.29	-	92	-	4.1	-	68	-	4.9	-
1	Region 20	74.5	-	24.2	-	4.20	-	0.30	-	3.90	-	0.29	-	93	-	3.6	-	68	-	4.8	-
1	Region 33	72.4	-	23.5	-	4.19	-	0.31	-	3.87	-	0.31	-	92	-	5.0	-	68	-	4.9	-
3	Ave. GH1	74.7		24.8		4.19		0.31		3.87		0.30		92		4.2		68		4.9	
	Min. GH1	72.4		23.5		4.19		0.30		3.85		0.29		92		3.6		68		4.8	
	Max. GH1	77.1		26.6		4.20		0.32		3.90		0.31		93		5.0		68		4.9	
GRADE: GH2																					
1	Region 19	66.8	-	18.8	-	4.12	-	0.34	-	3.80	-	0.34	-	92	-	4.8	-	67	-	5.4	-
1	Ave. GH2	66.8		18.8		4.12		0.34		3.80		0.34		92		4.8		67		5.4	
	Min. GH2	-		-		-		-		-		-		-		-		-		-	
	Max. GH2	-		-		-		-		-		-		-		-		-		-	
18	Ave. Sorghum	76.5		24.0		4.62		0.35		3.89		0.32		85		5.3		72		5.3	
	Min. Sorghum	66.8		18.8		4.12		0.29		3.66		0.28		80		3.6		67		4.6	
	Max. Sorghum	79.7		26.6		4.94		0.42		4.17		0.40		93		6.2		77		6.3	