

TABLE 6b: PHYSICAL PARAMETERS & IMAGE ANALYSIS OF SORGHUM ACCORDING TO GRADE (2022/23)
(Sorghum cultivar trial 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																					
1	Region 21	63.2	-	27.4	-	4.62	-	0.40	-	4.10	-	0.32	-	89	-	5.7	-	74	-	5.6	-
5	Region 35	77.2	74.2	24.3	22.7	4.52	4.35	0.32	0.28	3.90	3.67	0.28	0.32	86	84	5.4	4.9	71	68	4.6	4.0
6	Ave. GM1	74.9	-	24.9	-	4.53	-	0.33	-	3.93	-	0.29	-	87	-	5.4	-	72	-	4.8	-
	Min. GM1	63.2	-	22.7	-	4.35	-	0.28	-	3.67	-	0.25	-	84	-	4.9	-	68	-	4.0	-
	Max. GM1	80.1	-	27.4	-	4.71	-	0.40	-	4.10	-	0.32	-	89	-	6.1	-	74	-	5.6	-
GRADE: GM3																					
1	Region 35	73.9	-	27.2	-	4.24	-	0.29	-	3.64	-	0.25	-	86	-	4.5	-	67	-	4.2	-
1	Ave. GM3	73.9	-	27.2	-	4.24	-	0.29	-	3.64	-	0.25	-	86	-	4.5	-	67	-	4.2	-
	Min. GM3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Max. GM3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GRADE: CO																					
5	Region 18	62.0	54.0	23.1	20.2	4.41	4.22	0.31	0.22	4.00	3.64	0.28	0.30	91	86	4.8	3.3	71	67	4.5	3.5
5	Ave. CO	62.0	-	23.1	-	4.41	-	0.31	-	4.00	-	0.28	-	91	-	4.8	-	71	-	4.5	-
	Min. CO	54.0	-	20.2	-	4.22	-	0.22	-	3.64	-	0.25	-	86	-	3.3	-	67	-	3.5	-
	Max. CO	71.5	-	26.2	-	4.57	-	0.38	-	4.24	-	0.30	-	93	-	6.3	-	74	-	5.1	-
GRADE: GH1																					
1	Region 17	53.8	-	19.2	-	4.28	-	0.32	-	3.88	-	0.31	-	91	-	4.4	-	69	-	5.0	-
1	Region 35	67.2	-	21.4	-	4.25	-	0.25	-	3.60	-	0.25	-	85	-	5.7	-	67	-	3.7	-
2	Ave. GH1	60.5	-	20.3	-	4.27	-	0.29	-	3.74	-	0.28	-	88	-	5.1	-	68	-	4.3	-
	Min. GH1	53.8	-	19.2	-	4.25	-	0.25	-	3.60	-	0.25	-	85	-	4.4	-	67	-	3.7	-
	Max. GH1	67.2	-	21.4	-	4.28	-	0.32	-	3.88	-	0.31	-	91	-	5.7	-	69	-	5.0	-
GRADE: CO																					
1	Region 18	60.4	-	20.5	-	4.32	-	0.38	-	3.97	-	0.31	-	92	-	4.4	-	70	-	5.6	-
1	Ave. CO	60.4	-	20.5	-	4.32	-	0.38	-	3.97	-	0.31	-	92	-	4.4	-	70	-	5.6	-
	Min. CO	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Max. CO	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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	-