

TABLE 7: PHYSICAL PARAMETERS & IMAGE ANALYSIS OF SORGHUM ACCORDING TO GRADE (2024/25)

Number of samples		Region		Image Analysis																														
				Test weight, kg/hl			1000 Kernel mass, g			Length (mm) Average			Length (mm) Std Dev			Width (mm) Average			Width (mm) Std Dev			Elongation (% Width/Length) Average			Elongation (% Width/Length) Std Dev			Volume/surface area (%) Average			Volume/surface area (%) 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.	
GRADE: GM1																																		
8	Region 35	78.3	76.6	80.0	23.7	22.2	24.5	4.59	4.31	4.79	0.37	0.32	0.42	3.83	3.69	3.95	0.35	0.32	0.37	84	81	90	5.8	5.5	6.3	67	65	70	5.6	4.9	6.2			
8	Ave. GM1	78.3	76.6	80.0	23.7	22.2	24.5	4.59	4.31	4.79	0.37	0.32	0.42	3.83	3.69	3.95	0.35	0.32	0.37	84	81	90	5.8	5.5	6.3	67	65	70	5.6	4.9	6.2			
	Min. GM1																																	
	Max. GM1																																	
GRADE: GM2																																		
1	Region 28	79.2	-	-	27.8	-	-	4.60	-	-	0.32	-	-	4.18	-	-	0.26	-	-	91	-	-	5.1	-	-	72	-	-	4.3	-	-			
1	Region 35	71.2	-	-	24.3	-	-	4.81	-	-	0.41	-	-	3.97	-	-	0.40	-	-	83	-	-	5.6	-	-	70	-	-	6.4	-	-			
2	Ave. GM2	75.2	-	-	26.0	-	-	4.70	-	-	0.37	-	-	4.08	-	-	0.33	-	-	87	-	-	5.4	-	-	71	-	-	5.3	-	-			
	Min. GM2	71.2	-	-	24.3	-	-	4.60	-	-	0.32	-	-	3.97	-	-	0.26	-	-	83	-	-	5.1	-	-	70	-	-	4.3	-	-			
	Max. GM2	79.2	-	-	27.8	-	-	4.81	-	-	0.41	-	-	4.18	-	-	0.40	-	-	91	-	-	5.6	-	-	72	-	-	6.4	-	-			
GRADE: GH1																																		
2	Region 18	72.2	71.0	73.4	22.3	22.3	22.4	4.24	4.21	4.28	0.29	0.27	0.31	3.85	3.82	3.87	0.25	0.25	0.26	91	91	91	4.8	4.8	4.9	66	66	67	4.1	3.9	4.2			
1	Region 24	71.4	-	-	21.0	-	-	4.11	-	-	0.31	-	-	3.74	-	-	0.35	-	-	91	-	-	6.2	-	-	64	-	-	5.4	-	-			
1	Region 26	69.8	-	-	20.7	-	-	4.20	-	-	0.34	-	-	3.80	-	-	0.31	-	-	91	-	-	5.0	-	-	65	-	-	5.1	-	-			
1	Region 33	75.6	-	-	25.5	-	-	4.32	-	-	0.33	-	-	3.98	-	-	0.33	-	-	92	-	-	4.9	-	-	68	-	-	5.3	-	-			
5	Ave. GH1	72.2	69.8	75.6	22.4	20.7	25.5	4.22	4.11	4.32	0.31	0.27	0.34	3.84	3.74	3.98	0.30	0.25	0.35	91	91	92	5.1	4.8	6.2	66	64	68	4.8	3.9	5.4			
	Min. GH1	69.8	69.8	75.6	20.7	20.7	25.5	4.11	4.11	4.32	0.27	0.27	0.34	3.74	3.74	3.98	0.25	0.25	0.35	91	91	92	4.8	4.8	6.2	64	64	68	3.9	3.9	5.4			
	Max. GH1	75.6	75.6	75.6	25.5	25.5	25.5	4.32	4.32	4.32	0.34	0.34	0.34	3.98	3.98	3.98	0.35	0.35	0.35	92	92	92	6.2	6.2	6.2	68	68	68	5.4	5.4	5.4			
15	Ave. Sorghum	75.8	69.8	80.0	23.6	20.7	27.8	4.48	4.11	4.81	0.35	0.27	0.42	3.87	3.69	4.18	0.33	0.25	0.40	87	81	92	5.5	4.8	6.3	67	64	72	5.3	3.9	6.4			
	Min. Sorghum	69.8	69.8	80.0	20.7	20.7	27.8	4.11	4.11	4.81	0.27	0.27	0.42	3.69	3.69	4.18	0.25	0.25	0.40	81	81	92	4.8	4.8	6.3	64	64	72	3.9	3.9	6.4			
	Max. Sorghum	80.0	80.0	80.0	27.8	27.8	27.8	4.81	4.81	4.81	0.42	0.42	0.42	4.18	4.18	4.18	0.40	0.40	0.40	92	92	92	6.3	6.3	6.3	72	72	72	6.4	6.4	6.4			