

TABLE 6: PHYSICAL PARAMETERS & IMAGE ANALYSIS OF SORGHUM ACCORDING TO GRADE (2021/22)																															
Number of samples	Region	Test weight, kg/hl			1000 Kernel mass, g			Image 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.			
GRADE: GM1																															
1	Region 20	73.6	-	-	23.2	-	-	4.27	-	-	0.28	-	-	3.82	-	-	0.25	-	-	89	-	-	4.5	-	-	68	-	-	4.2	-	-
3	Region 29	79.2	78.2	80.0	25.0	23.7	26.4	4.51	4.36	4.62	0.30	0.26	0.34	4.00	3.89	4.08	0.26	0.25	0.27	89	89	89	5.2	4.8	5.4	72	70	74	4.3	4.0	4.7
6	Region 35	79.2	76.8	80.3	24.8	21.9	27.9	4.72	4.67	4.76	0.36	0.30	0.41	3.95	3.83	4.03	0.32	0.24	0.38	84	82	85	5.5	4.7	6.8	74	72	75	5.3	4.1	6.2
10	Ave. GM1	78.6			24.7			4.61			0.34			3.95			0.30			86			5.3			73			4.9		
	Min. GM1	73.6			21.9			4.27			0.26			3.82			0.24			82			4.5			68			4.0		
	Max. GM1	80.3			27.9			4.76			0.41			4.08			0.38			89			6.8			75			6.2		
GRADE: GM2																															
2	Region 35	76.0	75.6	76.3	24.0	21.5	26.4	4.57	4.56	4.57	0.32	0.31	0.34	3.74	3.69	3.78	0.28	0.27	0.28	82	81	83	5.1	4.9	5.3	71	70	71	4.6	4.5	4.8
2	Ave. GM2	76.0			24.0			4.57			0.32			3.74			0.28			82			5.1			71			4.6		
	Min. GM2	75.6			21.5			4.56			0.31			3.69			0.27			81			4.9			70			4.5		
	Max. GM2	76.3			26.4			4.57			0.34			3.78			0.28			83			5.3			71			4.8		
GRADE: COS																															
3	Region 35	74.5	72.9	76.9	21.2	16.4	24.3	4.40	4.27	4.52	0.35	0.33	0.39	3.55	3.43	3.74	0.33	0.33	0.34	81	79	83	5.9	5.6	6.2	68	65	70	5.3	5.0	5.7
3	Ave. COS	74.5			21.2			4.40			0.35			3.55			0.33			81			5.9			68			5.3		
	Min. COS	72.9			16.4			4.27			0.33			3.43			0.33			79			5.6			65			5.0		
	Max. COS	76.9			24.3			4.52			0.39			3.74			0.34			83			6.2			70			5.7		
GRADE: GH1																															
1	Region 13	76.6	-	-	24.0	-	-	4.03	-	-	0.26	-	-	3.71	-	-	0.23	-	-	92	-	-	4.2	-	-	65	-	-	3.8	-	-
1	Region 19	75.8	-	-	22.9	-	-	4.08	-	-	0.26	-	-	3.68	-	-	0.23	-	-	90	-	-	4.8	-	-	65	-	-	3.7	-	-
2	Region 33	75.7	75.3	76.0	24.2	21.7	26.7	4.26	4.13	4.39	0.25	0.25	0.25	3.84	3.71	3.97	0.21	0.20	0.23	90	90	90	4.7	4.5	4.9	68	66	71	3.5	3.4	3.6
1	Region 35	76.7	76.7	76.7	24.3	24.3	24.3	4.20	4.20	4.20	0.34	0.34	0.34	3.81	3.81	3.81	0.34	0.34	0.34	91	91	91	5.1	5.1	5.1	68	68	68	5.5	5.5	5.5
5	Ave. GH1	76.1			23.9			4.17			0.27			3.78			0.24			91			4.7			67			4.0		
	Min. GH1	75.3			21.7			4.03			0.25			3.68			0.20			90			4.2			65			3.4		
	Max. GH1	76.7			26.7			4.39			0.34			3.97			0.34			92			5.1			71			5.5		
GRADE: GH2																															
1	Region 20	73.5	-	-	20.4	-	-	4.02	-	-	0.28	-	-	3.58	-	-	0.25	-	-	89	-	-	6.2	-	-	64	-	-	3.9	-	-
1	Ave. GH2	73.5			20.4			4.02			0.28			3.58			0.25			89			6.2			64			3.9		
	Min. GH2	-			-			-			-			-			-			-			-			-		-			
	Max. GH2	-			-			-			-			-			-			-			-			-		-			