

TABLE 6: PHYSICAL PARAMETERS & IMAGE ANALYSIS OF SORGHUM ACCORDING TO GRADE (2018/19)

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			Relative Roundness (%) Average			Relative Roundness (%) 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.	ave.	min.	max.
GRADE: GM1																															
1	Region 28	77.9	-	-	29.1	-	-	4.38	-	-	0.28	-	-	3.78	-	-	0.19	-	-	85	-	-	4.8	-	-	71	-	-	2.4	-	-
2	Region 29	80.7	80.5	80.9	24.0	23.8	24.2	4.42	4.23	4.61	0.32	0.30	0.35	3.94	3.81	4.07	0.30	0.28	0.33	89	88	90	4.9	4.8	5.1	71	69	74	4.5	3.9	5.1
1	Region 30	80.3	-	-	23.5	-	-	4.33	-	-	0.38	-	-	3.93	-	-	0.39	-	-	91	-	-	4.9	-	-	71	-	-	5.0	-	-
4	Region 31	76.5	74.0	78.3	26.6	25.7	27.1	4.33	4.26	4.39	0.31	0.29	0.34	3.76	3.74	3.79	0.22	0.18	0.27	87	84	90	4.8	3.7	5.8	69	66	71	3.1	2.7	3.4
2	Region 33	79.3	77.7	80.9	24.9	23.7	26.0	4.15	4.07	4.23	0.25	0.23	0.27	3.83	3.73	3.92	0.21	0.18	0.23	92	92	93	4.1	3.8	4.5	67	64	70	3.0	2.6	3.3
8	Region 35	79.7	77.8	81.2	24.5	19.4	29.6	4.56	4.45	4.68	0.29	0.25	0.33	3.68	3.58	3.83	0.21	0.20	0.23	80	78	83	4.3	3.7	4.7	72	70	73	2.8	2.2	3.3
18	Ave. GM1	79.0	-	-	25.2	-	-	4.42	-	-	0.30	-	-	3.76	-	-	0.23	-	-	85	-	-	4.5	-	-	70	-	-	3.2	-	-
	Min. GM1	74.0	-	-	19.4	-	-	4.07	-	-	0.23	-	-	3.58	-	-	0.18	-	-	78	-	-	3.7	-	-	64	-	-	2.2	-	-
	Max. GM1	81.2	-	-	29.6	-	-	4.68	-	-	0.38	-	-	4.07	-	-	0.39	-	-	93	-	-	5.8	-	-	74	-	-	5.1	-	-
GRADE: GM2																															
1	Region 31	78.7	-	-	26.7	-	-	4.36	-	-	0.26	-	-	3.80	-	-	0.22	-	-	87	-	-	4.7	-	-	71	-	-	2.6	-	-
1	Ave. GM2	78.7	-	-	26.7	-	-	4.36	-	-	0.26	-	-	3.80	-	-	0.22	-	-	87	-	-	4.7	-	-	71	-	-	2.6	-	-
	Min. GM2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Max. GM2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GRADE: GM3																															
1	Region 16	77.8	-	-	30.0	-	-	4.29	-	-	0.32	-	-	3.82	-	-	0.22	-	-	87	-	-	4.9	-	-	71	-	-	2.4	-	-
1	Ave. GM3	77.8	-	-	30.0	-	-	4.29	-	-	0.32	-	-	3.82	-	-	0.22	-	-	87	-	-	4.9	-	-	71	-	-	2.4	-	-
	Min. GM3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Max. GM3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

TABLE 6: PHYSICAL PARAMETERS & IMAGE ANALYSIS OF SORGHUM ACCORDING TO GRADE (2018/19)
(continue)

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		Relative Roundness (%) Average		Relative Roundness (%) Std Dev		Volume to surface ratio (%) Average		Volume to surface ratio (%) Std Dev		
		ave.	max.	ave.	max.	ave.	min.	max.	ave.	min.	max.	ave.	min.	max.	ave.	min.	max.	ave.	min.	max.	ave.	min.
GRADE: GH1																						
1	Region 13	77.2	-	21.3	-	4.30	-	0.29	-	3.70	-	0.19	-	84	-	4.6	-	70	-	2.7	-	-
1	Region 17	76.6	-	25.1	-	4.36	-	0.27	-	3.82	-	0.20	-	87	-	5.4	-	70	-	2.5	-	-
1	Region 19	76.2	-	19.8	-	4.08	-	0.26	-	3.74	-	0.21	-	90	-	4.8	-	68	-	2.8	-	-
1	Region 20	76.5	-	26.3	-	4.27	-	0.26	-	3.80	-	0.18	-	88	-	4.8	-	70	-	2.2	-	-
3	Region 21	77.7	76.5	23.9	22.3	4.12	4.04	0.29	0.28	3.66	3.60	0.22	0.21	89	87	5.5	4.7	66	65	3.1	3.0	3.2
2	Region 33	78.1	77.2	23.7	23.6	4.21	4.17	0.30	0.27	3.91	3.83	0.28	0.26	93	92	3.7	3.2	69	67	4.2	3.4	5.0
1	Region 35	76.2	-	29.4	-	4.26	-	0.25	-	3.82	-	0.21	-	88	-	4.7	-	70	-	2.4	-	-
10	Ave. GH1	77.2	-	24.1	-	4.21	-	0.28	-	3.77	-	0.22	-	89	-	4.8	-	68	-	3.0	-	-
	Min. GH1	76.2	-	19.8	-	4.04	-	0.25	-	3.60	-	0.18	-	84	-	3.2	-	65	-	2.2	-	-
	Max. GH1	78.9	-	29.4	-	4.36	-	0.32	-	4.00	-	0.31	-	94	-	6.7	-	71	-	5.0	-	-
GRADE: GH2																						
1	Region 26	78.7	-	27.7	-	4.16	-	0.28	-	3.75	-	0.20	-	90	-	5.3	-	68	-	2.6	-	-
1	Ave. GH2	78.7	-	27.7	-	4.16	-	0.28	-	3.75	-	0.20	-	90	-	5.3	-	68	-	2.6	-	-
	Min. GH2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Max. GH2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
31	Ave. sorghum	78.4	-	25.1	-	4.34	-	0.29	-	3.77	-	0.23	-	86	-	4.7	-	70	-	3.1	-	-
	Min. sorghum	74.0	-	19.4	-	4.04	-	0.23	-	3.58	-	0.18	-	78	-	3.2	-	64	-	2.2	-	-
	Max. sorghum	81.2	-	30.0	-	4.68	-	0.38	-	4.07	-	0.39	-	94	-	6.7	-	74	-	5.1	-	-