

TABLE 7: PHYSICAL PARAMETERS & IMAGE ANALYSIS OF SORGHUM ACCORDING TO CLASS (2020/21)

Number of samples	Region	Test weight, kg/hl			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.	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.
CLASS: GM																															
1	Region 24	73.0	-	-	28.1	-	-	4.68	-	-	0.29	-	-	3.86	-	-	0.19	-	-	83	-	-	5.2	-	-	73	-	-	3.4	-	-
1	Region 27	81.3	-	-	23.3	-	-	4.30	-	-	0.25	-	-	3.84	-	-	0.18	-	-	89	-	-	4.7	-	-	69	-	-	3.3	-	-
2	Region 28	80.5	79.8	81.1	29.3	27.5	31.0	4.29	4.18	4.40	0.26	0.24	0.28	3.87	3.84	3.90	0.20	0.19	0.21	90	89	92	4.7	4.4	5.0	69	68	70	3.6	3.3	3.8
9	Region 29	79.9	76.6	82.3	27.3	23.2	29.2	4.26	4.19	4.35	0.25	0.22	0.31	3.88	3.82	3.96	0.21	0.18	0.26	91	90	93	4.9	4.3	5.3	69	68	70	3.5	3.0	4.4
1	Region 33	83.4	-	-	29.0	-	-	4.36	-	-	0.28	-	-	3.94	-	-	0.19	-	-	91	-	-	4.7	-	-	68	-	-	3.0	-	-
14	Region 35	76.7	65.0	81.2	27.4	20.1	31.8	4.59	4.20	4.86	0.30	0.23	0.36	3.80	3.58	3.90	0.21	0.16	0.25	83	80	91	5.3	4.3	5.9	71	66	74	3.7	3.1	4.6
2	Region 36	80.1	78.7	81.4	25.9	25.5	26.3	4.28	4.19	4.36	0.24	0.23	0.25	3.84	3.84	3.84	0.19	0.17	0.20	90	88	92	4.2	4.0	4.5	69	68	69	3.2	2.9	3.5
30	Ave. GM	78.4			27.3			4.44			0.28			3.84			0.20			87			5.0			70			3.5		
	Min. GM	65.0			20.1			4.18			0.22			3.58			0.16			80			4.0			66			2.9		
	Max. GM	83.4			31.8			4.86			0.36			3.96			0.26			93			5.9			74			4.6		
CLASS: GH																															
1	Region 18	74.5	-	-	26.6	-	-	4.18	-	-	0.24	-	-	3.88	-	-	0.22	-	-	93	-	-	3.9	-	-	68	-	-	3.6	-	-
3	Region 19	69.9	61.1	75.9	23.9	22.0	25.3	4.21	4.12	4.26	0.26	0.24	0.28	3.80	3.77	3.83	0.21	0.19	0.22	90	90	92	5.0	4.9	5.1	68	66	68	3.5	3.5	3.6
1	Region 24	71.8	-	-	26.9	-	-	4.30	-	-	0.23	-	-	3.83	-	-	0.16	-	-	89	-	-	4.4	-	-	69	-	-	2.9	-	-
1	Region 29	78.1	-	-	27.0	-	-	4.03	-	-	0.27	-	-	3.61	-	-	0.21	-	-	90	-	-	5.5	-	-	65	-	-	3.6	-	-
2	Region 33	79.4	79.2	79.6	27.5	27.4	27.6	4.16	4.14	4.18	0.19	0.19	0.19	3.86	3.82	3.90	0.16	0.15	0.17	93	92	93	3.7	3.5	3.9	68	67	68	2.7	2.7	2.7
3	Region 35	78.8	78.2	79.6	27.1	25.6	28.8	4.20	3.88	4.39	0.25	0.22	0.26	3.73	3.51	3.85	0.18	0.16	0.21	89	88	91	4.4	4.0	5.0	67	62	70	3.2	3.0	3.5
11	Ave. GH	75.4			26.2			4.19			0.24			3.79			0.19			91			4.5			67			3.3		
	Min. GH	61.1			22.0			3.88			0.19			3.51			0.15			88			3.5			62			2.7		
	Max. GH	79.6			28.8			4.39			0.28			3.90			0.22			93			5.5			70			3.6		