

TABLE 7: PHYSICAL PARAMETERS & IMAGE ANALYSIS OF SORGHUM ACCORDING TO CLASS (2018/19)

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			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.				
<b>GRADE: GM</b>																																
1	Region 16	77.8	-	-	30.0	-	-	4.29	-	-	0.32	-	-	3.82	-	-	0.22	-	-	87	-	-	4.9	-	-	71	-	-	2.4	-	-	
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	-	-	
5	Region 31	77.0	74.0	78.7	26.6	25.7	27.1	4.34	4.26	4.39	0.30	0.26	0.34	3.77	3.74	3.80	0.22	0.18	0.27	87	84	90	4.8	3.7	5.8	69	66	71	3.0	2.6	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	
20	Ave. GM	78.9			25.5			4.41			0.30			3.77			0.23			85			4.6			70			3.1			
	Min. GM	74.0			19.4			4.07			0.23			3.58			0.18			78			3.7			64			2.2			
	Max. GM	81.2			30.0			4.68			0.38			4.07			0.39			93			5.8			74			5.1			
<b>GRADE: GH</b>																																
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	78.7	23.9	22.3	25.4	4.12	4.04	4.18	0.29	0.28	0.30	3.66	3.60	3.70	0.22	0.21	0.23	89	87	91	5.5	4.7	6.7	66	65	67	3.1	3.0	3.2	
1	Region 26	78.7	-	-	27.7	-	-	4.16	-	-	0.28	-	-	3.75	-	-	0.20	-	-	90	-	-	5.3	-	-	68	-	-	2.6	-	-	
2	Region 33	78.1	77.2	78.9	23.7	23.6	23.8	4.21	4.17	4.25	0.30	0.27	0.32	3.91	3.83	4.00	0.28	0.26	0.31	93	92	94	3.7	3.2	4.3	69	67	71	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	-	-	
11	Ave. GH	77.3			24.4			4.20			0.28			3.77			0.22			89			4.9			68			3.0			
	Min. GH	76.2			19.8			4.04			0.25			3.60			0.18			84			3.2			65			2.2			
	Max. GH	78.9			29.4			4.36			0.32			4.00			0.31			94			6.7			71			5.0			