

**TABLE 8: CHEMICAL COMPOSITION OF SORGHUM ACCORDING TO GRADE
(2017/2018)**

Number of samples	Region	Moisture, %			Protein, % (db)			Starch content, % (db)			Hunterlab Colour								
											L			a			b		
		ave.	min.	max.	ave.	min.	max.	ave.	min.	max.	ave.	min.	max.	ave.	min.	max.	ave.	min.	max.
GRADE: GM1																			
3	Region 18	11.7	11.3	12.0	11.0	10.1	12.5	69.5	69.2	70.1	68.35	67.49	69.56	5.25	4.81	5.47	8.66	8.00	9.30
1	Region 24	11.2	-	-	9.8	-	-	73.1	-	-	73.57	-	-	4.75	-	-	9.65	-	-
1	Region 26	11.3	-	-	9.1	-	-	77.3	-	-	76.39	-	-	4.41	-	-	9.90	-	-
2	Region 27	12.4	12.1	12.7	12.3	11.6	13.0	67.8	67.5	68.0	70.69	69.51	71.87	5.06	4.50	5.62	9.64	8.94	10.34
9	Region 29	11.3	11.2	11.4	11.5	9.6	12.8	71.5	69.6	73.3	73.19	71.39	77.36	4.63	4.01	5.02	10.42	10.10	10.84
1	Region 31	11.6	-	-	12.1	-	-	70.2	-	-	76.10	-	-	4.00	-	-	10.11	-	-
5	Region 35	11.2	10.9	12.0	10.3	9.2	11.3	73.4	72.4	75.4	77.54	76.07	79.06	3.89	3.67	4.14	10.76	10.22	11.27
22	Ave. GM1	11.4			11.0			71.6			73.59			4.55			10.12		
	Min. GM1	10.9			9.1			67.5			67.49			3.67			8.00		
	Max. GM1		12.7			13.0			77.3			79.06		5.62				11.27	
GRADE: GM2																			
1	Region 27	12.0	-	-	12.0	-	-	68.1	-	-	69.87	-	-	5.14	-	-	9.39	-	-
1	Region 29	11.2	-	-	11.7	-	-	73.1	-	-	71.10	-	-	4.99	-	-	10.19	-	-
2	Ave. GM2	11.6			11.9			70.6			70.49			5.07			9.79		
	Min. GM2	11.2			11.7			68.1			69.87			4.99			9.39		
	Max. GM2		12.0			12.0		73.1			71.10			5.14				10.19	
GRADE: GM3																			
2	Region 29	11.1	11.1	11.1	10.0	10.0	10.0	71.4	70.9	71.9	75.02	71.92	78.11	3.84	2.32	5.35	10.54	9.59	11.48
1	Region 35	11.3	-	-	6.9	-	-	77.2	-	-	83.08	-	-	1.68	-	-	11.52	-	-
3	Ave. GM3	11.2			9.0			73.3			77.70			3.12			10.86		
	Min. GM3	11.1			6.9			70.9			71.92			1.68			9.59		
	Max. GM3		11.3			10.0		77.2			83.08			5.35				11.52	
GRADE: GH1																			
1	Region 18	11.4	-	-	9.1	-	-	71.5	-	-	67.41	-	-	5.16	-	-	9.95	-	-
1	Region 19	12.0	-	-	10.9	-	-	73.3	-	-	73.19	-	-	3.78	-	-	8.73	-	-
1	Region 20	11.9	-	-	11.5	-	-	70.9	-	-	66.90	-	-	5.47	-	-	9.51	-	-
1	Region 21	12.4	-	-	9.7	-	-	71.3	-	-	69.78	-	-	4.35	-	-	7.91	-	-
3	Region 24	11.6	11.5	11.9	8.9	8.6	9.3	72.6	71.2	74.5	70.46	69.51	71.87	4.66	4.21	4.93	8.46	8.13	8.65
2	Region 29	11.5	11.4	11.6	11.4	11.3	11.5	69.1	69.0	69.2	68.20	66.17	70.22	4.93	4.46	5.39	9.33	8.78	9.87
2	Region 35	11.5	11.4	11.6	10.4	8.6	12.3	71.4	67.6	75.1	71.00	68.46	73.54	4.50	3.87	5.12	9.49	9.06	9.92
11	Ave. GH1	11.7			10.1			71.4			69.73			4.69			9.01		
	Min. GH1	11.4			8.6			67.6			66.17			3.78			7.91		
	Max. GH1		12.4			12.3		75.1			73.54			5.47				9.95	
GRADE: GH2																			
1	Region 17	10.5	-	-	11.3	-	-	60.1	-	-	69.92	-	-	4.93	-	-	10.49	-	-
1	Region 18	12.3	-	-	12.0	-	-	66.2	-	-	67.95	-	-	4.74	-	-	9.49	-	-
1	Region 20	11.3	-	-	9.1	-	-	72.3	-	-	71.19	-	-	4.29	-	-	8.43	-	-
1	Region 27	11.8	-	-	8.9	-	-	75.5	-	-	73.93	-	-	5.15	-	-	9.92	-	-
4	Ave. GH2	11.5			10.3			68.5			70.75			4.78			9.58		
	Min. GH2	10.5			8.9			60.1			67.95			4.29			8.43		
	Max. GH2		12.3			12.0		75.5			73.93			5.15				10.49	
42	Ave. sorghum	11.5			10.6			71.3			72.45			4.53			9.81		
	Min. sorghum	10.5			6.9			60.1			66.17			1.68			7.91		
	Max. sorghum		12.7			13.0		77.3			83.08			5.62				11.52	