

**TABLE 14: PHYSICAL QUALITY CHARACTERISTICS OF YELLOW MAIZE ACCORDING TO GRADE (2022/23)**

Number of samples	Region	Test weight (kg/ha)			100 kernel mass (g)			Kernel size (%)			Breakage susceptibility (%)						Stress cracks (%)			SAGL Milling Index 2023			GYA								
		ave. min. max.			ave. min. max.			Above 10 mm sieve			Above 6 mm sieve			Below 6 mm sieve			< 6.35 mm sieve			< 4.75 mm sieve			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.	ave.	min.	max.	ave.	min.	max.
<b>GRADE: YM1</b>																															
3	Region 06	76.8	76.1	77.5	37.0	34.5	39.6	2.7	0.9	4.2	67.6	61.1	72.4	29.7	23.4	35.8	2.5	1.2	3.4	2.1	1.2	3.0	22	15	27	69	62	79	62	61	65
19	Region 10	79.0	75.9	82.2	35.5	33.7	38.7	1.6	0.6	4.9	55.5	38.7	74.0	42.8	21.1	60.4	0.7	0.2	1.5	0.6	0.2	1.4	10	3	16	75	63	88	64	61	67
16	Region 11	78.7	76.9	80.1	34.7	27.8	38.3	2.0	0.0	4.7	59.3	30.9	81.1	38.7	16.6	67.7	0.8	0.2	1.7	0.8	0.2	1.4	9	4	15	70	54	81	62	58	65
2	Region 12	74.8	74.4	75.2	28.4	26.0	30.7	5.9	2.6	9.1	60.5	54.2	66.8	33.7	24.1	43.2	1.6	1.2	2.0	1.4	0.7	2.0	7	5	9	78	71	85	64	63	66
3	Region 13	74.5	71.4	76.4	31.5	29.7	34.8	10.3	7.3	12.4	70.2	66.4	75.7	19.6	11.9	26.3	1.6	1.3	2.1	1.3	1.1	1.5	11	8	13	86	80	90	66	65	67
4	Region 14	77.7	76.2	79.1	29.1	23.3	32.5	4.2	0.4	8.2	57.6	38.1	74.6	38.2	17.2	61.5	0.8	0.1	1.4	0.5	0.1	0.8	5	3	6	76	69	83	64	62	65
4	Region 16	76.7	74.5	78.8	30.0	28.3	32.2	5.8	3.6	10.5	66.1	61.0	68.8	28.1	20.7	34.2	1.7	0.6	3.3	1.3	0.6	2.1	6	2	9	77	70	89	64	62	67
4	Region 17	75.7	73.8	77.9	30.4	28.9	31.8	8.5	5.6	15.2	67.2	60.3	75.2	24.3	17.7	33.2	1.3	1.0	2.1	1.0	0.8	1.2	8	5	11	78	71	83	64	63	65
4	Region 18	78.5	76.5	80.5	33.3	29.6	37.0	5.6	3.4	9.0	64.0	58.5	68.8	30.4	25.7	38.1	1.1	0.1	2.5	1.0	0.1	2.2	11	6	14	85	80	88	66	65	67
3	Region 19	77.2	76.0	78.8	27.1	24.7	28.7	2.6	0.0	5.4	54.9	46.9	61.8	42.5	32.8	53.1	0.9	0.1	1.4	0.5	0.1	0.8	8	3	13	81	75	85	65	64	66
7	Region 20	76.4	74.0	78.5	32.4	30.3	36.0	6.7	3.9	8.8	66.7	62.4	69.1	26.6	22.1	30.8	1.2	0.2	2.6	0.8	0.2	1.6	6	1	18	75	66	84	64	61	66
8	Region 21	75.8	74.1	77.9	32.5	27.5	36.9	6.0	0.4	14.6	66.9	52.9	79.7	27.1	12.4	46.7	2.4	0.6	6.6	1.6	0.6	4.5	13	2	25	70	51	84	62	58	66
3	Region 23	76.1	73.6	77.9	33.4	28.0	37.3	4.8	2.5	6.8	70.3	62.4	75.7	24.9	17.5	35.1	1.8	1.2	2.2	1.5	0.7	2.2	5	4	7	81	79	84	65	65	66
5	Region 24	75.7	74.4	76.9	30.4	28.1	32.9	3.8	0.1	6.3	65.8	56.7	71.6	30.4	23.0	43.2	1.6	0.8	2.1	1.1	0.6	1.9	4	1	7	74	65	84	63	61	66
13	Region 25	74.3	71.2	76.0	30.5	28.3	35.7	11.0	5.8	23.2	69.3	59.2	74.1	19.7	9.6	35.0	1.0	0.1	3.7	0.6	0.1	2.8	11	1	57	63	37	86	61	54	66
12	Region 26	76.0	73.3	76.9	30.3	28.4	32.3	8.2	3.3	16.5	62.1	43.3	71.6	29.7	18.2	53.4	1.1	0.4	2.1	0.9	0.4	1.8	6	1	18	66	52	78	61	58	64
11	Region 27	75.3	72.1	78.0	29.8	24.0	35.2	7.6	2.1	18.0	64.1	53.8	73.8	28.3	13.2	44.1	7.3	0.4	69.0	6.9	0.4	67.3	9	2	17	74	60	87	63	60	66
38	Region 28	76.2	71.9	79.8	30.0	25.0	38.2	8.2	0.6	28.7	64.1	37.1	75.9	27.6	6.1	62.3	1.3	0.2	9.5	0.9	0.1	5.2	7	0	23	72	61	88	63	60	67
31	Region 29	77.7	71.2	80.6	31.6	25.9	38.2	9.4	2.5	31.0	66.8	54.2	75.7	23.8	2.8	43.3	0.8	0.2	2.0	0.6	0.2	1.2	6	0	19	77	63	91	64	61	67
31	Region 30	77.1	73.4	81.6	32.9	27.1	37.5	12.0	0.9	26.6	66.1	45.4	77.0	21.9	7.0	51.7	1.0	0.1	7.2	0.7	0.1	3.6	7	1	36	76	64	89	64	61	67
25	Region 31	76.8	72.1	79.6	32.3	27.2	37.2	6.9	0.5	15.0	61.7	37.4	73.0	31.4	18.7	61.2	0.6	0.0	1.5	0.6	0.0	1.3	5	1	16	74	66	81	63	61	65
24	Region 32	76.8	71.8	80.7	32.9	27.8	39.4	10.6	0.4	33.1	63.1	40.0	75.0	26.3	4.8	59.6	0.9	0.2	3.2	0.7	0.2	2.4	7	1	22	75	63	85	64	61	66
17	Region 33	77.1	74.2	80.3	31.7	25.8	36.0	6.7	0.8	16.2	63.3	51.3	72.3	30.0	11.5	47.9	1.0	0.1	3.6	0.8	0.1	2.5	6	0	18	71	49	82	63	57	65
16	Region 34	77.0	74.8	79.7	31.3	25.3	37.0	9.3	1.6	22.1	64.8	40.5	73.7	26.0	11.4	57.9	1.0	0.2	2.0	0.7	0.2	1.9	5	1	16	81	74	93	65	63	68
4	Region 35	76.6	75.1	77.9	32.6	29.3	36.5	3.8	1.9	6.6	64.9	55.0	70.6	31.3	22.8	43.1	1.8	0.8	2.9	1.5	0.6	2.3	7	5	8	71	58	80	63	60	65
24	Region 36	75.2	71.9	77.9	32.1	27.3	36.7	3.8	0.6	9.6	54.1	37.2	74.5	42.2	21.6	60.9	1.8	0.9	3.0	1.3	0.8	1.9	13	1	25	63	57	75	61	59	64
331	Ave. YM1	76.7			31.9			7.4			63.1			29.5			1.3			1.0			8			73			63		
	Min. YM1	71.2			23.3			0.0			30.9			2.8			0.0			0.0			0			37			54		
	Max. YM1	82.2			39.6			33.1			81.1			67.7			69.0			67.3			57			93			68		

**TABLE 14: PHYSICAL QUALITY CHARACTERISTICS OF YELLOW MAIZE ACCORDING TO GRADE (2022/23)**  
(continue)

Number of samples	Region	Test weight (kg/ha)			100 kernel mass (g)			Kernel size (%)			Breakage susceptibility (%)			Stress cracks (%)			SAGL Milling Index 2023			GYA					
		ave.	min.	max.	ave.	min.	max.	Above 10 mm sieve	Above 8 mm sieve	Below 8 mm sieve	< 6.35 mm sieve	< 4.75 mm sieve	ave.	min.	max.	ave.	min.	max.	ave.	min.	max.				
<b>GRADE: YM2</b>																									
1	Region 08	75.0	-	-	33.6	-	-	4.0	-	-	61.6	-	-	0.4	-	-	0.4	-	-	56	-	-	59	-	-
2	Region 10	76.1	75.9	76.2	30.2	29.8	30.6	4.6	4.4	4.7	60.2	58.4	62.0	1.0	0.8	1.2	0.7	0.5	0.8	69	66	72	62	61	63
4	Region 11	78.1	76.9	79.2	32.8	29.1	36.2	1.5	0.0	3.2	50.4	30.2	63.5	0.9	0.1	2.1	0.7	0.1	1.6	65	57	73	61	59	63
1	Region 13	71.9	-	-	31.1	-	-	10.1	-	-	72.5	-	-	2.8	-	-	1.9	-	-	88	-	-	67	-	-
2	Region 16	76.2	75.8	76.5	30.0	29.6	30.3	10.7	9.1	12.2	63.1	55.1	71.0	1.4	1.0	1.8	0.9	0.8	1.0	66	63	69	61	61	62
1	Region 17	76.1	-	-	30.5	-	-	15.4	-	-	67.0	-	-	0.5	-	-	0.5	-	-	88	-	-	67	-	-
4	Region 19	77.0	75.6	78.0	27.0	24.9	28.0	4.0	1.6	6.2	60.3	52.6	68.9	1.1	0.6	2.1	0.8	0.5	1.3	82	79	89	65	65	67
1	Region 21	73.5	-	-	28.7	-	-	0.5	-	-	49.1	-	-	5.6	-	-	4.4	-	-	49	-	-	57	-	-
4	Region 24	73.6	72.6	74.9	25.2	23.3	26.2	2.6	1.2	3.2	59.3	55.5	66.1	2.6	1.2	5.9	1.6	0.6	4.0	68	63	71	62	61	63
6	Region 25	74.2	71.4	76.2	31.1	28.1	35.0	7.7	5.0	12.1	67.6	61.7	70.6	2.4	0.4	2.1	0.7	0.3	1.5	62	49	76	60	57	64
8	Region 26	75.3	73.9	77.8	28.5	26.9	30.4	5.5	1.6	10.3	65.2	61.4	68.4	2.9	0.4	3.2	0.9	0.2	2.1	62	52	75	60	58	64
5	Region 27	75.2	71.3	79.0	30.5	28.0	36.8	6.3	2.3	9.8	60.8	54.2	65.7	3.2	1.2	3.6	1.3	0.7	2.0	71	61	78	63	60	64
8	Region 28	74.8	72.6	76.6	31.4	23.2	39.4	10.5	0.4	20.8	59.5	17.4	72.6	30.1	8.5	82.2	1.4	0.4	2.7	72	56	87	63	59	67
6	Region 29	75.7	72.3	79.2	30.4	23.2	36.2	4.7	1.1	10.3	56.3	35.5	68.6	39.0	25.5	63.4	2.1	0.6	4.0	69	58	78	62	59	64
11	Region 30	76.5	74.0	78.2	31.8	24.3	36.3	7.1	0.8	17.1	60.8	38.1	73.7	32.2	14.2	60.9	1.8	0.6	3.1	71	51	86	63	58	66
3	Region 31	76.8	74.9	79.0	30.7	27.2	33.6	3.5	0.8	7.1	58.3	49.8	74.0	38.2	23.3	48.1	0.9	0.5	1.0	69	64	76	62	61	64
3	Region 32	76.9	75.4	79.7	27.4	24.6	30.5	2.1	0.0	3.3	45.2	38.7	49.5	52.8	47.2	61.3	1.1	1.0	1.2	71	69	73	62	62	63
7	Region 33	76.7	73.8	78.3	28.8	25.4	32.9	3.8	0.4	11.0	58.8	42.0	66.5	37.4	22.5	57.1	1.2	0.1	2.4	69	51	77	62	58	64
4	Region 34	72.6	70.1	74.4	31.9	29.2	34.1	2.5	1.8	3.2	51.1	44.4	58.6	46.5	38.5	53.7	2.9	1.1	3.8	71	53	79	62	58	65
2	Region 35	75.3	73.9	76.7	29.8	27.7	31.9	1.8	1.0	2.6	49.1	43.2	55.0	49.1	44.0	54.2	1.3	1.0	1.5	64	55	72	61	59	63
5	Region 36	76.6	74.0	78.9	30.2	24.3	35.7	4.6	0.8	10.4	46.0	29.2	63.0	49.4	27.6	70.0	1.8	1.0	2.7	69	55	84	62	59	66
88	Ave. YM2	75.6			30.1			5.5			58.5			36.1			1.6			69			62		
	Min. YM2	70.1			23.2			0.0			17.4			8.5			0.1			49			57		
	Max. YM2	79.7			39.4			20.8			82.2			5.9			4.4			89			67		

**TABLE 14: PHYSICAL QUALITY CHARACTERISTICS OF YELLOW MAIZE ACCORDING TO GRADE (2022/23)**  
**(continue)**

Number of samples	Region	Test weight (kg/hl)			100 kernel mass (g)			Kernel size (%)						Breakage susceptibility (%)						Stress cracks (%)			SAGL Milling Index 2023			GYA					
		ave.	min.	max.	ave.	min.	max.	Above 10 mm sieve	Above 8 mm sieve	Below 8 mm sieve	< 6.35 mm sieve	< 4.75 mm sieve	ave.	min.	max.	ave.	min.	max.	ave.	min.	max.	ave.	min.	max.	ave.	min.	max.				
<b>GRADE: YM3</b>																															
2	Region 08	73.5	71.3	75.6	30.1	30.0	30.1	7.8	1.5	14.0	58.4	52.0	64.8	33.9	21.2	46.5	0.8	0.6	1.0	0.8	0.6	1.0	4	2	5	54	51	57	59	58	59
1	Region 11	78.0	-	-	33.6	-	-	0.4	-	-	57.7	-	-	41.9	-	-	1.7	-	-	1.7	-	-	14	-	-	70	-	-	62	-	-
1	Region 12	75.9	-	-	36.1	-	-	30.7	-	-	61.5	-	-	7.8	-	-	1.0	-	-	1.0	-	-	8	-	-	74	-	-	63	-	-
1	Region 21	74.1	-	-	35.8	-	-	10.5	-	-	79.3	-	-	10.2	-	-	1.5	-	-	1.5	-	-	16	-	-	94	-	-	68	-	-
2	Region 24	73.9	73.4	74.3	27.8	25.8	29.7	4.3	2.0	6.5	64.4	52.8	76.0	31.4	17.5	45.2	2.1	0.9	3.2	2.1	0.9	3.2	5	3	7	77	71	84	64	63	66
1	Region 25	69.1	-	-	23.3	-	-	8.7	-	-	53.0	-	-	38.3	-	-	1.8	-	-	1.8	-	-	20	-	-	44	-	-	56	-	-
2	Region 26	74.4	73.9	74.9	27.4	26.8	27.9	6.7	6.5	6.9	58.9	56.0	61.8	34.4	31.3	37.5	1.6	0.4	1.8	1.1	0.4	1.8	6	4	7	57	56	57	59	59	59
1	Region 27	76.1	-	-	37.7	-	-	10.3	-	-	66.6	-	-	23.1	-	-	1.4	-	-	1.4	-	-	13	-	-	89	-	-	67	-	-
1	Region 28	76.8	-	-	31.5	-	-	9.0	-	-	61.7	-	-	29.3	-	-	0.6	-	-	0.2	-	-	8	-	-	68	-	-	62	-	-
1	Region 29	80.0	-	-	36.8	-	-	4.2	-	-	60.7	-	-	35.1	-	-	1.8	-	-	1.2	-	-	11	-	-	86	-	-	66	-	-
1	Region 30	76.5	-	-	32.6	-	-	9.9	-	-	67.8	-	-	22.3	-	-	0.4	-	-	0.4	-	-	3	-	-	67	-	-	62	-	-
3	Region 31	76.8	75.6	78.2	30.4	25.6	32.9	6.6	1.4	13.7	56.9	39.1	71.3	36.5	15.0	59.5	0.5	0.4	0.7	0.3	0.1	0.4	6	3	10	76	71	81	64	63	65
1	Region 32	76.9	-	-	26.1	-	-	1.5	-	-	51.5	-	-	47.0	-	-	1.1	-	-	1.1	-	-	11	-	-	74	-	-	63	-	-
18	Ave. YM3	75.4	-	-	30.8	-	-	7.9	-	-	60.8	-	-	31.3	-	-	1.4	-	-	1.1	-	-	8	-	-	70	-	-	63	-	-
	Min. YM3	69.1	-	-	23.3	-	-	0.4	-	-	39.1	-	-	7.8	-	-	0.4	-	-	0.1	-	-	2	-	-	44	-	-	56	-	-
	Max. YM3	80.0	-	-	37.7	-	-	30.7	-	-	79.3	-	-	59.5	-	-	5.4	-	-	3.2	-	-	20	-	-	94	-	-	68	-	-
<b>CLASS: COM</b>																															
3	Region 08	75.1	73.9	76.1	33.2	32.1	34.7	4.7	2.1	9.3	60.8	49.5	67.2	34.5	23.5	47.7	1.2	0.6	1.9	0.8	0.5	1.2	9	7	11	60	59	62	60	60	60
1	Region 10	76.6	-	-	36.3	-	-	3.4	-	-	64.6	-	-	32.0	-	-	1.6	-	-	1.6	-	-	5	-	-	50	-	-	58	-	-
4	Region 11	79.0	77.5	79.8	33.9	33.1	35.6	1.0	0.3	1.9	52.0	49.5	55.7	47.1	43.0	50.2	0.6	0.6	0.7	0.4	0.0	0.7	9	7	11	74	69	82	63	62	65
1	Region 12	74.8	-	-	31.1	-	-	4.5	-	-	73.9	-	-	21.6	-	-	3.0	-	-	2.4	-	-	5	-	-	89	-	-	67	-	-
1	Region 14	76.2	-	-	36.5	-	-	37.0	-	-	58.3	-	-	4.7	-	-	0.8	-	-	0.7	-	-	3	-	-	75	-	-	64	-	-
2	Region 18	75.3	75.3	75.3	28.6	26.4	30.8	7.8	7.6	8.0	60.4	58.9	61.9	31.8	30.1	33.5	2.0	1.6	2.4	1.6	1.0	2.2	10	6	13	77	76	78	64	64	64
1	Region 21	75.3	-	-	35.2	-	-	10.8	-	-	72.7	-	-	16.5	-	-	1.7	-	-	1.7	-	-	19	-	-	86	-	-	66	-	-
5	Region 24	75.3	73.4	77.0	28.0	22.2	32.1	4.3	1.1	10.8	60.5	48.3	66.8	35.2	24.4	50.6	1.7	0.5	2.4	1.1	0.5	1.4	10	2	20	65	51	77	61	58	64
1	Region 25	72.3	-	-	28.7	-	-	14.0	-	-	64.4	-	-	21.6	-	-	1.0	-	-	0.7	-	-	14	-	-	64	-	-	61	-	-
1	Region 26	69.5	-	-	24.9	-	-	8.1	-	-	66.2	-	-	25.7	-	-	2.8	-	-	1.7	-	-	25	-	-	59	-	-	60	-	-
1	Region 27	76.8	-	-	31.6	-	-	9.5	-	-	67.4	-	-	23.1	-	-	1.8	-	-	1.2	-	-	17	-	-	80	-	-	65	-	-
1	Region 28	76.4	-	-	33.5	-	-	9.9	-	-	71.6	-	-	18.5	-	-	0.4	-	-	0.4	-	-	10	-	-	83	-	-	66	-	-

**TABLE 14: PHYSICAL QUALITY CHARACTERISTICS OF YELLOW MAIZE ACCORDING TO GRADE (2022/23)**  
(continue)

Number of samples	Region	Test weight (kg/hl)			100 kernel mass (g)			Above 10 mm sieve			Above 8 mm sieve			Below 8 mm sieve			Breakage susceptibility (%)						Stress cracks (%)			SAGL Milling Index 2023			GYA			
		ave.	min.	max.	ave.	min.	max.	kernel	min.	max.	ave.	min.	max.	ave.	min.	max.	ave.	min.	max.	ave.	min.	max.	ave.	min.	max.	ave.	min.	max.	ave.	min.	max.	
<b>CLASS: COM</b>																																
3	Region 29	76.6	75.6	77.2	35.3	33.9	36.1	12.6	6.3	15.8	69.0	68.2	70.4	18.4	13.8	25.5	0.7	0.4	1.2	0.7	0.4	1.1	5	3	8	80	78	83	65	64	65	
2	Region 30	74.0	73.4	74.5	30.7	29.8	31.6	10.5	7.1	13.9	69.1	65.1	73.0	20.5	19.9	21.0	1.1	0.5	1.7	0.5	0.0	1.0	12	10	14	69	63	75	62	61	64	
5	Region 31	76.9	75.6	77.7	31.7	29.4	34.6	4.3	2.1	6.0	60.8	46.0	67.6	34.9	27.7	51.0	0.8	0.4	1.2	0.7	0.4	1.1	5	0	8	72	62	76	63	60	64	
3	Region 32	74.6	73.0	76.6	33.8	33.6	33.9	8.2	2.6	16.6	71.5	70.6	72.7	20.3	10.7	26.8	0.6	0.5	0.6	0.6	0.5	0.6	2	1	3	73	70	77	63	62	64	
2	Region 33	75.6	74.0	77.1	33.3	32.0	34.5	5.3	2.7	7.9	65.5	63.7	67.2	29.3	28.4	30.1	1.4	1.3	1.5	0.7	0.7	0.8	4	3	5	69	65	73	62	61	63	
4	Region 34	76.2	74.2	78.9	32.1	31.4	33.4	2.3	0.4	6.3	56.6	43.5	74.8	41.1	18.9	56.1	1.1	0.8	1.9	0.9	0.5	1.4	8	3	14	68	53	78	62	58	64	
1	Region 35	77.2	-	-	30.5	-	-	7.0	-	-	66.8	-	-	26.2	-	-	0.1	-	-	0.1	-	-	7	-	-	86	-	-	66	480	-	
1	Region 36	75.9	-	-	32.3	-	-	4.4	-	-	55.5	-	-	40.1	-	-	1.2	-	-	1.2	-	-	10	-	-	67	-	-	62	-	-	
43	Ave. COM	75.8	69.5	79.8	32.0	22.2	36.5	6.7	0.3	37.0	62.7	43.5	74.8	30.6	4.7	56.1	1.2	0.1	3.0	0.9	0.0	2.4	8	0	25	71	50	89	63	58	67	
480	Ave. YM	76.4	69.1	82.2	31.6	22.2	39.6	7.0	0.0	37.0	62.1	17.4	81.1	30.9	2.8	82.2	1.4	0.0	69.0	1.0	0.0	67.3	8	0	57	72	37	94	63	54	68	
1000	Ave. Maize	76.3	69.1	82.2	33.5	22.2	53.8	16.1	0.0	62.2	62.6	17.4	81.1	21.3	0.4	82.2	1.2	0.0	69.0	1.0	0.0	67.3	8	0	63	72	35	98	63	54	69	
	Min. Maize																															
	Max. Maize																															