

TABLE 14: PHYSICAL QUALITY CHARACTERISTICS OF YELLOW MAIZE ACCORDING TO GRADE (2020/21)																																
Number of samples	Region	Test weight (kg/hl)			100 kernel mass (g)			Kernel size (%)						Breakage susceptibility (%)						Stress cracks (%)			SAGL Milling index 2021			GYA						
		min.		max.	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.	ave.	min.	max.	ave.	min.	max.	ave.	min.	max.	ave.	min.	max.	ave.	min.	max.	ave.	min.	max.				
GRADE: YM1																																
24	Region 10	78.9	75.5	82.6	36.0	32.0	43.8	3.4	0.0	10.1	68.1	48.7	81.0	28.6	9.1	48.8	0.4	0.0	1.8	0.3	0.0	1.2	7.1	1	18	74	41	84	63	55	66	
13	Region 11	79.0	76.4	80.1	34.7	29.5	38.0	4.9	1.7	20.7	69.2	63.3	78.4	25.9	16.0	34.1	0.7	0.0	1.5	0.5	0.0	1.1	10.3	3	19	75	65	87	64	61	67	
5	Region 13	77.6	76.8	78.4	28.6	25.8	30.2	7.4	4.1	15.6	71.6	68.3	75.4	21.0	12.6	27.6	0.7	0.1	1.3	0.5	0.0	1.1	9.4	4	14	86	83	88	66	66	67	
6	Region 14	77.4	75.6	79.0	31.0	28.1	34.3	6.9	3.0	13.2	66.9	55.0	78.8	26.1	10.9	41.8	1.2	0.4	2.0	0.9	0.3	1.4	15.6	6	25	84	71	91	66	63	67	
3	Region 17	77.5	75.7	79.8	29.1	27.4	30.7	3.6	2.1	6.1	63.9	59.2	69.9	32.5	24.0	38.3	0.4	0.0	1.2	0.3	0.0	1.0	10.5	5	15	81	73	86	65	63	66	
6	Region 18	76.0	72.1	77.6	29.5	25.5	34.1	7.4	4.7	9.7	70.6	65.0	77.6	22.1	16.3	26.0	1.3	0.4	2.2	1.0	0.3	1.9	16.7	7	32	83	80	87	65	65	66	
7	Region 19	74.3	71.2	77.7	27.0	24.0	29.0	9.8	3.1	15.8	68.1	60.1	74.1	22.1	15.2	34.7	1.0	0.4	2.9	0.8	0.3	2.1	10.5	5	20	84	79	87	66	65	66	
7	Region 20	77.2	76.1	79.1	30.1	27.1	37.1	3.7	1.5	6.8	67.8	60.2	75.5	28.5	22.0	37.3	0.7	0.1	1.5	0.5	0.1	1.3	13.4	4	33	77	69	82	64	62	65	
3	Region 21	76.4	75.1	78.0	30.3	26.8	32.7	7.7	1.9	13.7	67.6	65.0	70.1	24.7	21.3	30.4	1.0	0.2	2.4	0.7	0.1	1.7	13.2	2	20	85	85	86	66	66	66	
5	Region 22	77.8	77.1	78.3	28.5	27.6	29.6	6.0	4.8	7.4	67.7	63.8	71.4	26.3	22.7	31.4	0.7	0.4	1.2	0.5	0.3	1.2	7.3	3	11	84	79	94	66	65	68	
4	Region 23	76.6	75.4	77.8	28.4	27.1	30.0	6.6	2.5	11.6	60.7	46.2	68.8	32.7	19.6	51.3	0.9	0.4	1.4	0.7	0.4	1.0	9.4	4	15	78	62	90	64	60	67	
4	Region 24	77.3	75.3	78.3	30.5	26.5	33.7	2.7	1.6	3.7	62.7	60.2	66.8	34.6	30.0	37.0	0.7	0.0	1.1	0.6	0.0	0.9	12.5	5	23	75	60	82	64	60	65	
18	Region 25	75.2	73.7	76.6	29.2	26.3	32.1	6.5	0.8	26.1	64.6	52.4	69.7	28.9	17.6	39.1	0.8	0.0	1.6	0.7	0.0	1.5	15.6	6	33	69	56	88	62	59	67	
11	Region 26	75.9	72.9	77.2	28.6	25.5	34.2	6.6	1.7	26.8	65.1	60.0	70.3	28.3	6.2	35.1	0.7	0.2	2.0	0.6	0.1	1.7	13.4	4	25	79	62	100	65	60	70	
4	Region 27	74.5	71.4	76.8	25.6	22.8	27.9	3.2	0.8	5.0	61.3	57.1	63.8	35.5	32.3	42.1	0.9	0.7	1.2	0.8	0.6	1.0	16.8	8	25	77	75	79	64	64	65	
28	Region 28	75.9	74.3	78.8	30.2	23.9	38.5	6.4	0.1	32.0	65.4	55.5	76.5	28.2	8.2	44.4	0.8	0.0	2.3	0.6	0.0	1.5	13.3	3	28	73	55	86	63	59	66	
26	Region 29	77.0	74.2	79.4	31.4	27.9	35.2	7.7	2.2	16.8	69.4	58.8	78.7	22.9	10.5	38.2	0.7	0.0	1.6	0.5	0.0	1.3	14.4	4	49	80	59	89	65	60	67	
39	Region 30	76.3	71.6	78.5	33.5	29.2	39.5	11.6	2.5	32.5	68.4	53.3	80.1	20.0	6.1	39.3	0.5	0.0	1.5	0.3	0.0	1.4	10.3	3	32	77	60	95	64	60	68	
39	Region 31	77.7	74.3	80.2	32.3	28.0	37.1	9.0	0.4	23.0	67.2	58.9	81.8	23.8	9.8	37.0	0.5	0.0	1.6	0.4	0.0	1.4	10.2	2	23	78	66	93	64	61	68	
32	Region 32	77.3	73.5	80.3	33.1	24.1	37.2	10.7	0.6	20.9	67.1	49.8	76.1	22.2	9.7	49.4	0.7	0.0	1.8	0.5	0.0	1.4	11.4	4	21	80	72	89	65	63	67	
20	Region 33	76.5	75.0	79.7	32.1	26.1	37.1	7.5	1.4	14.0	65.9	47.6	73.9	26.7	13.6	50.5	0.8	0.0	2.0	0.6	0.0	1.7	12.4	4	23	69	59	81	62	60	65	
16	Region 34	77.0	74.5	79.5	30.3	22.7	37.4	9.3	1.0	31.8	62.2	42.3	74.3	28.5	13.0	53.8	0.6	0.0	1.8	0.4	0.0	1.2	11.5	5	21	82	75	93	65	64	68	
6	Region 35	77.3	73.7	79.9	29.4	22.4	34.1	5.2	1.2	13.2	62.9	51.5	72.1	31.9	20.7	46.8	0.9	0.2	1.8	0.8	0.2	1.5	12.8	8	15	79	50	89	65	58	67	
17	Region 36	76.3	75.0	79.5	31.5	28.5	34.9	8.7	0.0	28.6	62.4	44.2	71.9	28.9	13.5	55.2	0.7	0.1	2.0	0.5	0.0	1.4	11.4	4	29	73	49	87	63	57	66	
343	Ave. YM1	76.9	71.2	82.6	31.6	22.4	43.8	7.8	0.0	32.5	66.6	42.3	81.8	25.6	6.1	55.2	0.7	0.0	2.9	0.5	0.0	2.1	11.1	1	49	77	41	100	64	55	70	
	Min. YM1																															
	Max. YM1																															

**TABLE 14: PHYSICAL QUALITY CHARACTERISTICS OF YELLOW MAIZE ACCORDING TO GRADE (2020/21)
(continue)**

Number of samples	Region	Test weight (kg/hl)			100 kernel mass (g)			Kernel size (%)			Breakage susceptibility (%)			Stress cracks (%)			SAGL Milling index 2021			GYA											
		ave.	min.	max.	ave.	min.	max.	Above 10 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.															
GRADE: YM2																															
3	Region 10	76.6	73.8	78.8	35.5	33.7	37.1	2.4	1.3	4.6	70.3	59.6	77.6	27.3	21.1	39.1	0.8	0.1	1.5	0.7	0.1	1.4	10	4	20	64	49	75	61	57	64
2	Region 11	74.7	71.6	77.8	29.5	23.6	35.3	5.0	0.6	9.4	54.1	39.3	68.8	41.0	21.8	60.1	1.4	0.6	2.2	1.2	0.5	1.8	17	15	18	63	51	76	61	58	64
1	Region 12	75.1	75.1	75.1	36.4	36.4	36.4	5.6	5.6	5.6	66.6	66.6	66.6	27.8	27.8	27.8	0.9	0.9	0.9	0.8	0.8	0.8	10	10	10	77	77	77	64	64	64
1	Region 13	74.5	74.5	74.5	26.9	26.9	26.9	4.3	4.3	4.3	65.7	65.7	65.7	30.0	30.0	30.0	0.8	0.8	0.8	0.5	0.5	0.5	8	8	8	82	82	82	65	65	65
1	Region 14	74.9	74.9	74.9	27.1	27.1	27.1	3.0	3.0	3.0	60.5	60.5	60.5	36.5	36.5	36.5	1.1	1.1	1.1	0.9	0.9	0.9	10	10	10	80	80	80	65	65	65
1	Region 16	76.7	76.7	76.7	28.7	28.7	28.7	3.3	3.3	3.3	64.8	64.8	64.8	31.9	31.9	31.9	0.7	0.7	0.7	0.6	0.6	0.6	6	6	6	71	71	71	63	63	63
1	Region 18	75.2	75.2	75.2	26.4	26.4	26.4	5.9	5.9	5.9	64.3	64.3	64.3	29.8	29.8	29.8	2.1	2.1	2.1	1.8	1.8	1.8	26	26	26	81	81	81	65	65	65
2	Region 19	76.9	74.9	78.9	27.0	22.7	31.3	6.9	6.3	7.4	41.3	5.6	77.0	51.9	15.6	88.1	0.5	0.2	0.8	0.5	0.2	0.7	12	5	18	86	86	86	66	66	66
1	Region 21	73.9	73.9	73.9	24.2	24.2	24.2	0.8	0.8	0.8	56.1	56.1	56.1	43.1	43.1	43.1	1.1	1.1	1.1	0.9	0.9	0.9	18	18	18	79	79	79	65	65	65
1	Region 22	75.8	75.8	75.8	29.8	29.8	29.8	2.3	2.3	2.3	58.8	58.8	58.8	38.9	38.9	38.9	2.2	2.2	2.2	1.9	1.9	1.9	21	21	21	76	76	76	64	64	64
1	Region 24	74.0	74.0	74.0	30.3	30.3	30.3	8.1	8.1	8.1	69.8	69.8	69.8	22.1	22.1	22.1	1.4	1.4	1.4	1.2	1.2	1.2	14	14	14	56	56	56	59	59	59
5	Region 25	74.4	73.7	75.4	28.5	26.4	29.8	4.0	1.4	6.7	61.0	47.6	69.0	35.0	24.3	51.0	0.8	0.3	1.2	0.5	0.1	0.9	13	6	26	66	59	72	61	60	63
3	Region 26	74.0	72.7	75.3	27.8	26.1	30.0	6.1	2.3	9.9	64.1	62.6	65.2	29.8	24.9	35.1	2.1	0.9	3.5	1.5	0.7	2.1	20	15	30	69	59	76	62	60	64
4	Region 27	74.6	73.6	75.3	25.2	23.1	26.3	3.2	2.1	5.0	59.5	53.4	64.9	37.3	30.1	44.5	1.0	0.7	1.4	0.9	0.6	1.3	12	7	18	77	76	78	64	64	64
5	Region 28	74.3	72.0	75.2	27.2	23.4	30.6	5.0	1.0	9.6	59.0	49.0	66.2	36.0	24.2	50.0	0.4	0.0	1.0	0.2	0.0	0.4	11	8	15	72	66	79	63	61	64
2	Region 30	76.1	74.9	77.4	34.6	34.1	35.0	10.5	5.6	15.4	72.2	69.9	74.5	17.3	14.7	19.9	0.4	0.0	0.8	0.3	0.0	0.6	15	12	18	77	74	79	64	63	65
1	Region 31	75.3	75.3	75.3	30.5	30.5	30.5	5.9	5.9	5.9	59.2	59.2	59.2	34.9	34.9	34.9	0.2	0.2	0.2	0.2	0.2	0.2	8	8	8	61	61	61	60	60	60
3	Region 32	77.4	76.8	78.0	33.9	31.6	35.9	12.2	5.0	21.8	57.3	39.5	68.1	30.5	10.1	55.5	0.3	0.0	0.7	0.2	0.0	0.6	11	8	13	77	70	86	64	62	66
2	Region 33	76.0	75.4	76.7	31.5	30.7	32.2	3.3	1.0	5.6	65.8	59.0	72.5	31.0	21.9	40.0	0.8	0.7	0.8	0.5	0.5	0.5	10	9	11	73	70	77	63	62	64
2	Region 34	74.8	74.1	75.4	26.9	25.2	28.6	5.2	3.1	7.2	61.1	58.1	64.1	33.8	28.7	38.8	0.6	0.2	1.1	0.5	0.1	0.9	7	5	8	77	72	82	64	63	65
1	Region 36	75.4	75.4	75.4	35.3	35.3	35.3	1.0	1.0	1.0	59.3	59.3	59.3	39.7	39.7	39.7	1.2	1.2	1.2	1.0	1.0	1.0	13	13	13	81	81	81	65	65	65
43	Ave. YM2	75.2	71.6	78.9	29.4	22.7	37.1	5.2	0.6	21.8	61.1	5.6	77.6	33.8	10.1	88.1	0.9	0.0	3.5	0.7	0.0	2.1	13	4	30	73	49	86	63	57	66

TABLE 14: PHYSICAL QUALITY CHARACTERISTICS OF YELLOW MAIZE ACCORDING TO GRADE (2020/21)
(continue)

Number of samples	Region	Test weight (kg/hl)			100 kernel mass (g)			Kernel size (%)			Breakage susceptibility (%)			Stress cracks (%)			SAGL Milling index 2021			GYA											
		ave.	min.	max.	ave.	min.	max.	Above 10 mm sieve		Above 8 mm sieve		< 6.35 mm sieve		< 4.75 mm sieve		ave.	min.	max.	ave.	min.	max.										
								ave.	max.	ave.	min.	ave.	min.	ave.	min.							ave.	min.	max.							
GRADE: YM3																															
1	Region 10	78.9	78.9	78.9	34.9	34.9	34.9	0.9	0.9	0.9	60.4	60.4	60.4	38.7	38.7	38.7	1.4	1.4	1.4	1.1	1.1	1.1	16	16	16	61	61	61	60	60	60
1	Region 21	77.2	77.2	77.2	21.4	21.4	21.4	2.5	2.5	2.5	59.9	59.9	59.9	37.6	37.6	37.6	0.3	0.3	0.3	0.2	0.2	0.2	5	5	5	90	90	90	67	67	67
1	Region 24	71.8	71.8	71.8	28.7	28.7	28.7	2.7	2.7	2.7	67.4	67.4	67.4	29.9	29.9	29.9	2.9	2.9	2.9	1.7	1.7	1.7	29	29	29	58	58	58	59	59	59
1	Region 29	75.1	75.1	75.1	28.1	28.1	28.1	8.7	8.7	8.7	66.8	66.8	66.8	24.5	24.5	24.5	0.7	0.7	0.7	0.7	0.7	0.7	10	10	10	77	77	77	64	64	64
1	Region 30	77.6	77.6	77.6	26.3	26.3	26.3	5.6	5.6	5.6	46.9	46.9	46.9	47.5	47.5	47.5	2.2	2.2	2.2	1.1	1.1	1.1	22	22	22	84	84	84	66	66	66
2	Region 33	72.9	71.3	74.4	34.2	30.1	38.2	6.4	5.8	7.0	66.3	65.1	67.4	27.4	26.8	27.9	0.8	0.7	0.8	0.7	0.6	0.7	11	9	13	68	66	70	62	61	62
1	Region 34	78.2	78.2	78.2	29.7	29.7	29.7	3.7	3.7	3.7	69.2	69.2	69.2	27.1	27.1	27.1	1.0	1.0	1.0	0.6	0.6	0.6	13	13	13	94	94	94	68	68	68
8	Ave. YM3	75.6			29.7			4.6			62.9			32.5			1.3			0.8			15			75			64		
	Min. YM3	71.3			21.4			0.9			46.9			24.5			0.3			0.2			5			58			59		
	Max. YM3	78.9			38.2			8.7			69.2			47.5			2.9			1.7			29			94			68		
CLASS: COM																															
1	12	76.6	76.6	76.6	28.8	28.8	28.8	10.5	10.5	10.5	66.8	66.8	66.8	22.7	22.7	22.7	0.2	0.2	0.2	0.1	0.1	0.1	3	3	3	84	84	84	66	66	66
1	14	75.9	75.9	75.9	26.0	26.0	26.0	6.5	6.5	6.5	68.3	68.3	68.3	25.2	25.2	25.2	1.0	1.0	1.0	0.8	0.8	0.8	15	15	15	80	80	80	65	65	65
1	17	76.8	76.8	76.8	25.9	25.9	25.9	7.1	7.1	7.1	61.7	61.7	61.7	31.2	31.2	31.2	0.2	0.2	0.2	0.1	0.1	0.1	5	5	5	86	86	86	66	66	66
2	18	75.1	74.9	75.2	30.1	27.1	33.1	6.9	6.2	7.6	70.0	68.7	71.2	23.1	22.6	23.7	1.8	0.7	2.8	1.5	0.6	2.3	15	5	25	83	81	85	65	65	66
2	21	75.3	74.5	76.1	27.3	25.1	29.5	6.4	2.4	10.3	64.8	55.6	73.9	28.9	15.8	42.0	1.3	1.0	1.5	0.9	0.8	1.0	15	12	17	81	80	81	65	65	65
1	22	75.9	75.9	75.9	30.0	30.0	30.0	2.9	2.9	2.9	58.1	58.1	58.1	39.0	39.0	39.0	1.5	1.5	1.5	1.5	1.5	1.5	15	15	15	67	67	67	62	62	62
1	25	70.7	70.7	70.7	29.3	29.3	29.3	5.0	5.0	5.0	56.2	56.2	56.2	38.8	38.8	38.8	2.4	2.4	2.4	1.9	1.9	1.9	25	25	25	65	65	65	61	61	61
6	26	74.3	72.2	76.1	28.9	26.3	32.1	7.6	4.4	17.2	66.3	62.4	71.2	26.1	13.4	33.0	1.4	1.1	2.4	1.1	0.9	1.8	19	13	33	70	60	80	62	60	65
2	27	73.8	72.1	75.4	28.3	24.3	32.2	5.2	1.3	9.0	64.6	53.9	75.2	30.3	15.8	44.8	1.4	1.2	1.6	1.3	1.1	1.4	21	14	28	76	75	76	64	64	64
1	28	73.4	73.4	73.4	28.3	28.3	28.3	5.4	5.4	5.4	60.6	60.6	60.6	34.0	34.0	34.0	2.2	2.2	2.2	1.4	1.4	1.4	25	25	25	62	62	62	60	60	60
4	29	76.2	75.0	77.7	33.4	28.9	38.0	7.4	0.6	11.3	73.1	70.2	77.0	19.5	11.7	24.9	1.0	0.4	1.4	0.5	0.4	0.7	20	9	37	78	73	83	64	63	65
3	30	76.3	75.2	76.9	34.6	31.3	37.1	7.3	2.1	10.7	69.3	67.4	71.7	23.3	21.9	26.2	0.7	0.2	1.1	0.5	0.1	0.9	9	4	16	74	72	77	63	63	64
4	31	76.2	74.9	77.1	30.4	26.7	33.6	7.1	4.6	11.3	67.0	60.1	72.3	26.0	19.7	33.9	0.7	0.2	1.5	0.4	0.2	0.7	10	4	22	77	74	79	64	63	64
5	32	75.6	74.1	77.4	30.2	20.9	34.5	7.4	3.9	11.5	65.8	60.1	70.1	26.8	21.7	31.2	0.9	0.2	1.7	0.8	0.2	1.3	9	5	16	75	70	80	64	62	65
5	33	76.0	72.7	79.4	32.8	29.8	36.9	9.3	1.5	23.3	67.3	65.2	68.6	23.4	9.1	30.4	0.5	0.2	0.9	0.4	0.1	0.7	10	6	16	72	66	80	63	61	65

TABLE 14: PHYSICAL QUALITY CHARACTERISTICS OF YELLOW MAIZE ACCORDING TO GRADE (2020/21)
(continue)

Number of samples	Region	Test weight (kg/hl)			100 kernel mass (g)			Above 10 mm sieve			Kernel size (%)			Breakage susceptibility (%)			Stress cracks (%)			SAGL Milling index 2021			GYA								
		ave.	min.	max.	ave.	min.	max.	ave.	min.	max.	Above 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.												
CLASS: COM																															
5	Region 34	74.3	70.9	78.5	27.8	19.9	31.6	6.4	0.1	16.5	61.2	37.3	73.0	32.3	19.8	62.6	1.1	0.4	1.7	0.6	0.3	0.7	14	9	24	82	79	87	65	64	66
2	Region 36	76.3	74.9	77.6	32.1	28.0	36.2	9.7	6.3	13.0	62.0	57.4	66.5	28.4	27.2	29.6	1.9	0.7	3.0	1.5	0.5	2.5	23	15	30	73	66	80	63	61	65
46	Ave. COM	75.3			30.2			7.3			65.9			26.8			1.1			0.8			14			76			64		
	Min. COM	70.7			19.9			0.1			37.3			9.1			0.2			0.1			3			60			60		
	Max. COM	79.4			38.0						23.3			62.6			3.0			2.5			37			87			66		
440	Ave. YM	76.5			31.2			7.4			65.9			26.7			0.8			0.6			12			76			64		
	Min. YM	70.7			19.9			0.0			5.6			6.1			0.0			0.0			1			41			55		
	Max. YM	82.6			43.8						32.5			88.1			3.5			2.5			49			100			70		
1000	Ave. Maize	76.2			32.4			15.4			65.5			19.2			0.8			0.6			12			74			63		
	Min. Maize	68.5			18.9			0.0			5.6			1.3			0.0			0.0			1			37			54		
	Max. Maize	82.6			43.8						55.1			88.1			4.3			3.3			49			111			72		