

TABLE 14: PHYSICAL QUALITY CHARACTERISTICS OF YELLOW MAIZE ACCORDING TO GRADE (2017/2018)

Number of samples	Region	Test weight (kg/hl)			100 kernel mass (g)			Kernel size (%)						Breakage susceptibility (%)						Stress cracks (%)			SAGL Milling Index 2018			GYA					
		ave.	min.	max.	ave.	min.	max.	Above 10 mm sieve		Below 8 mm sieve		Below 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.						
GRADE: YM1																															
15	Region 10	79.9	79.0	80.8	38.1	34.7	40.7	5.5	2.0	9.1	73.4	58.4	78.0	21.1	14.8	39.6	0.3	0.1	0.6	0.2	0.1	0.4	8	3	16	78.6	72.4	84.4	64.4	63.0	65.9
14	Region 11	79.3	76.8	81.7	34.6	28.9	39.6	9.9	1.4	72.4	66.5	24.2	76.7	23.6	3.4	33.6	0.9	0.2	4.5	0.6	0.2	3.3	8	3	15	75.2	54.4	88.1	63.6	58.6	66.7
6	Region 12	77.4	75.0	79.0	32.2	28.5	35.6	13.1	6.3	21.7	71.2	66.4	76.6	15.7	8.0	23.6	1.0	0.4	1.5	0.8	0.3	1.3	10	6	14	89.0	71.3	102.4	67.0	62.7	70.2
8	Region 13	77.1	75.8	78.3	29.1	26.0	33.9	9.5	5.5	20.3	71.1	63.0	75.9	19.4	9.9	28.7	0.9	0.5	1.4	0.6	0.3	0.9	10	6	14	88.9	77.7	95.2	66.9	64.2	68.5
12	Region 14	77.4	71.9	80.1	31.4	25.0	40.2	13.7	4.0	25.6	67.4	58.8	73.5	18.9	8.0	36.5	1.0	0.0	1.9	0.8	0.0	1.6	11	3	17	86.8	60.2	98.3	66.4	59.9	69.2
1	Region 15	75.8	-	-	32.2	-	-	5.5	-	-	65.3	-	-	29.2	-	-	0.9	-	-	0.8	-	-	12	-	-	61.0	-	-	60.2	-	-
4	Region 16	76.9	74.8	78.1	30.6	28.0	34.7	11.9	1.4	20.3	64.4	48.7	74.3	23.7	10.3	49.9	1.1	0.6	2.0	0.9	0.6	1.4	12	2	17	81.2	65.4	93.4	65.0	61.2	68.0
7	Region 17	77.2	74.8	78.7	30.3	27.5	32.1	13.8	6.4	19.9	67.3	63.5	76.0	18.9	13.5	24.0	0.9	0.2	1.6	0.8	0.1	1.4	12	11	14	85.0	78.8	93.3	66.0	64.5	68.0
6	Region 18	78.2	77.3	79.5	29.6	28.1	33.8	8.9	4.1	16.9	67.0	61.7	76.0	24.1	15.4	32.1	1.0	0.4	1.5	0.8	0.4	1.1	9	7	12	86.7	80.6	95.3	66.4	64.9	68.4
8	Region 19	77.9	74.4	80.9	31.7	29.0	33.6	15.9	8.7	31.8	67.2	59.2	74.0	16.9	9.0	28.0	0.6	0.2	1.0	0.4	0.0	0.7	9	5	12	90.8	82.0	99.7	67.4	65.3	69.5
6	Region 20	78.1	77.2	79.5	31.0	27.0	34.1	12.5	6.8	26.0	69.7	66.0	76.6	17.9	8.0	24.4	0.9	0.3	2.7	0.7	0.1	1.9	10	6	17	86.1	81.1	88.9	66.3	65.0	66.9
8	Region 21	77.6	76.5	79.2	32.6	29.9	34.3	13.3	5.6	23.8	70.2	64.9	75.3	16.5	11.3	25.6	1.0	0.4	1.8	0.8	0.3	1.5	10	5	19	85.6	76.9	93.0	66.1	64.0	67.9
4	Region 22	78.2	76.2	79.8	30.9	28.2	35.1	13.2	9.5	15.9	71.0	68.7	72.8	15.9	11.3	18.4	0.9	0.5	1.6	0.7	0.3	1.2	13	7	17	92.0	85.5	99.9	67.6	66.1	69.6
4	Region 23	78.6	76.6	82.5	30.5	29.2	31.8	10.1	5.9	12.4	67.7	64.2	72.0	22.2	18.1	29.9	0.8	0.6	1.1	0.6	0.4	0.9	10	7	16	85.9	78.8	94.4	66.2	64.5	68.2
7	Region 24	75.4	74.1	76.5	29.4	27.6	34.1	8.7	3.4	17.0	66.1	59.7	71.3	25.3	11.7	31.9	1.3	0.5	2.0	1.0	0.5	1.3	12	7	19	72.4	61.7	78.7	62.9	60.3	64.4
1	Region 25	77.5	-	-	32.6	-	-	18.1	-	-	69.9	-	-	12.0	-	-	0.3	-	-	0.3	-	-	11	-	-	83.5	-	-	65.6	-	-
10	Region 26	75.6	73.8	77.7	29.7	27.8	31.8	9.5	5.1	13.9	65.6	59.3	75.2	24.9	19.7	32.4	0.9	0.1	2.0	0.5	0.1	1.6	9	4	14	67.1	56.2	79.4	61.6	59.0	64.6
8	Region 27	76.6	75.9	77.2	30.1	27.8	32.1	8.9	4.6	15.3	66.3	61.9	70.2	24.8	14.5	31.3	0.8	0.2	1.3	0.5	0.2	1.0	12	7	23	75.0	67.0	85.5	63.5	61.6	66.1
12	Region 28	77.3	73.5	79.3	31.4	28.6	34.6	9.2	1.2	19.5	65.9	60.5	75.5	24.9	18.7	34.6	0.9	0.4	1.6	0.6	0.2	1.1	7	3	13	74.3	64.1	82.4	63.4	60.9	65.3
46	Region 29	77.7	74.1	81.1	31.8	23.4	39.4	10.5	1.8	54.1	65.7	43.4	78.4	23.8	2.5	44.2	0.7	0.0	2.3	0.5	0.0	1.5	7	3	15	78.8	57.5	93.3	64.5	59.3	68.0
43	Region 30	76.5	72.2	80.0	31.0	24.5	37.5	11.6	2.5	26.8	66.5	47.3	77.2	21.9	8.6	50.2	0.8	0.0	2.9	0.5	0.0	1.7	8	1	35	77.5	62.1	87.8	64.2	60.4	66.7
51	Region 31	77.6	73.3	80.5	31.3	25.7	40.5	12.3	1.3	22.2	66.3	44.7	77.7	21.4	10.4	54.0	0.8	0.1	1.8	0.6	0.0	1.6	7	2	14	79.7	69.8	91.2	64.7	62.3	67.5
65	Region 32	77.0	72.8	81.8	31.6	24.6	38.4	12.1	1.1	23.7	67.1	35.9	82.2	20.8	6.2	60.7	1.1	0.2	4.1	0.8	0.0	2.7	10	3	20	79.0	67.6	95.8	64.5	61.7	68.6
4	Region 33	75.7	74.8	77.0	29.5	28.1	31.4	9.2	5.9	15.3	66.7	64.9	68.4	24.2	16.8	28.7	0.9	0.4	1.4	0.5	0.1	0.9	5	1	9	74.3	72.2	79.3	63.4	62.9	64.6
26	Region 34	78.1	74.8	81.0	32.0	29.1	36.1	11.9	4.6	26.7	64.8	52.7	73.2	23.3	9.8	42.7	0.8	0.0	2.1	0.6	0.0	1.5	6	2	11	84.4	72.5	94.7	65.8	62.9	68.3
6	Region 35	77.8	75.2	78.8	31.7	23.8	37.4	12.3	0.0	29.1	63.0	41.4	71.8	24.7	6.4	58.6	0.8	0.4	1.6	0.6	0.2	1.3	7	3	15	83.6	74.7	94.8	65.6	63.5	68.3
18	Region 36	77.8	73.9	80.0	33.6	27.9	38.0	9.7	1.6	25.6	67.3	49.8	75.3	23.0	6.5	46.4	0.8	0.0	2.2	0.5	0.0	1.7	11	2	21	77.9	49.8	94.8	64.3	57.4	68.3
400	Ave. YM1	77.5	71.9	82.5	31.7	23.4	40.7	11.2	0.0	72.4	67.0	24.2	82.2	21.8	2.5	60.7	0.9	0.0	4.5	0.6	0.0	3.3	9	1	35	79.9	49.8	102.4	64.7	57.4	70.2

TABLE 14: PHYSICAL QUALITY CHARACTERISTICS YELLOW MAIZE ACCORDING TO GRADE (2017/2018)
(continue)

Number of samples	Region	Test weight (kg/ha)			100 kernel mass (g)			Kernel size (%)			Breakage susceptibility (%)						Stress cracks (%)			SAGL Milling Index 2018			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.							
GRADE: YM2																															
1	Region 12	75.7	-	-	36.1	-	-	22.3	-	-	70.3	-	-	7.4	-	-	1.1	-	-	0.8	-	-	14	-	-	80.3	-	-	64.8	-	-
1	Region 16	71.6	-	-	23.4	-	-	3.9	-	-	51.2	-	-	44.9	-	-	1.5	-	-	0.9	-	-	13	-	-	62.3	-	-	60.5	-	-
1	Region 17	74.3	-	-	26.8	-	-	5.8	-	-	69.6	-	-	24.6	-	-	2.5	-	-	1.5	-	-	19	-	-	78.4	-	-	64.4	-	-
4	Region 18	77.3	76.0	78.5	27.5	26.0	29.7	5.2	3.1	6.9	64.1	60.7	70.8	30.8	23.7	34.0	1.0	0.7	1.3	0.8	0.6	0.9	11	6	19	83.9	78.0	89.6	65.7	64.3	67.1
1	Region 19	75.6	-	-	26.9	-	-	5.7	-	-	52.9	-	-	41.4	-	-	2.8	-	-	1.5	-	-	20	-	-	96.4	-	-	68.8	-	-
3	Region 20	75.5	71.3	80.7	28.5	28.0	29.2	8.6	6.7	10.7	62.0	45.2	72.2	29.4	19.5	48.1	1.3	1.0	1.8	1.0	0.9	1.1	11	5	15	64.5	42.2	83.8	61.0	55.5	65.7
4	Region 24	73.4	69.6	75.0	30.4	26.8	33.5	14.2	4.4	30.9	69.1	63.3	74.1	16.8	5.8	26.7	1.5	1.0	2.1	1.1	0.7	1.3	19	13	30	81.1	75.5	87.8	65.0	63.7	66.6
2	Region 26	75.8	75.3	76.3	27.6	25.7	29.4	5.6	5.5	5.6	64.1	58.9	69.3	30.4	25.1	35.6	2.1	1.6	2.6	1.6	1.5	1.7	19	15	22	69.0	62.0	76.0	62.1	60.4	63.8
1	Region 27	72.9	-	-	27.3	-	-	11.0	-	-	67.6	-	-	21.4	-	-	4.4	-	-	2.5	-	-	38	-	-	67.8	-	-	61.8	-	-
4	Region 28	75.0	74.1	75.9	31.5	27.6	34.1	13.4	6.0	22.2	67.4	62.6	71.9	19.2	15.2	28.8	1.0	0.4	1.8	0.7	0.3	0.9	14	10	18	73.8	68.1	80.0	63.3	61.9	64.7
4	Region 29	76.7	74.9	78.4	29.7	23.1	34.2	7.6	2.2	12.3	63.4	49.3	73.0	29.0	16.5	48.5	0.8	0.3	1.1	0.6	0.3	0.9	6	2	10	80.8	72.2	87.2	65.0	62.9	66.5
2	Region 30	75.5	74.8	76.1	26.9	23.4	30.3	9.5	5.0	13.9	59.9	59.4	60.3	30.7	25.8	35.6	0.9	0.7	1.1	0.6	0.5	0.8	8	4	12	78.9	72.8	85.1	64.5	63.0	66.0
1	Region 33	76.0	-	-	27.6	-	-	21.5	-	-	62.8	-	-	15.7	-	-	1.4	-	-	0.5	-	-	5	-	-	75.9	-	-	63.8	-	-
1	Region 34	77.1	-	-	33.1	-	-	9.3	-	-	59.1	-	-	31.6	-	-	1.4	-	-	1.3	-	-	10	-	-	81.2	-	-	65.1	-	-
4	Region 36	75.5	73.8	78.8	31.2	29.0	33.0	9.0	5.3	12.2	67.8	60.9	71.7	23.2	16.1	33.8	1.5	0.6	2.0	1.2	0.6	1.7	14	10	18	62.3	43.1	74.2	60.5	55.8	63.4
34	Ave. YM2	75.4			29.3			9.8			64.5			25.7			1.4			1.0			13			75.3			63.6		
	Min. YM2	69.6			23.1			2.2			45.2			5.8			0.3			0.3			2			42.2			55.5		
	Max. YM2	80.7			36.1			30.9			74.1			48.5			4.4			2.5			38			96.4			68.8		
GRADE: YM3																															
1	Region 12	59.6	-	-	15.6	-	-	0.5	-	-	37.5	-	-	62.0	-	-	4.7	-	-	3.2	-	-	25	-	-	41.8	-	-	55.4	-	-
1	Region 15	78.1	-	-	34.7	-	-	14.1	-	-	74.8	-	-	11.1	-	-	0.7	-	-	0.5	-	-	14	-	-	90.6	-	-	67.3	-	-
1	Region 22	74.3	-	-	36.0	-	-	15.6	-	-	71.1	-	-	13.3	-	-	1.7	-	-	1.3	-	-	15	-	-	77.8	-	-	64.2	-	-
1	Region 24	69.9	-	-	21.8	-	-	3.3	-	-	66.0	-	-	30.7	-	-	4.0	-	-	1.9	-	-	33	-	-	72.0	-	-	62.7	-	-
1	Region 26	71.7	-	-	25.6	-	-	5.1	-	-	69.7	-	-	25.2	-	-	2.0	-	-	1.2	-	-	14	-	-	80.4	-	-	64.9	-	-
1	Region 30	75.2	-	-	33.6	-	-	14.2	-	-	59.0	-	-	26.8	-	-	0.5	-	-	0.2	-	-	3	-	-	73.0	-	-	63.1	-	-
2	Region 31	75.3	74.6	75.9	23.7	21.0	26.3	3.4	0.9	5.9	59.8	50.2	69.4	36.8	24.7	48.9	0.9	0.8	1.1	0.6	0.5	0.8	11	10	12	80.0	77.6	82.5	64.7	64.1	65.4
1	Region 32	76.9	-	-	30.8	-	-	7.9	-	-	67.2	-	-	24.9	-	-	2.3	-	-	1.7	-	-	11	-	-	77.8	-	-	64.2	-	-
1	Region 33	76.6	-	-	29.7	-	-	6.4	-	-	67.7	-	-	25.9	-	-	0.5	-	-	0.2	-	-	1	-	-	78.1	-	-	64.3	-	-
10	Ave. YM3	73.3			27.5			7.4			63.3			29.4			1.8			1.2			14			75.2			63.5		
	Min. YM3	59.6			15.6			0.5			37.5			11.1			0.5			0.2			1			41.8			55.4		
	Max. YM3	78.1			36.0			15.6			74.8			62.0			4.7			3.2			33			90.6			67.3		

