

TABLE 14: PHYSICAL QUALITY CHARACTERISTICS OF YELLOW MAIZE ACCORDING TO GRADE (2018/19)

Number of samples	Region	Test weight (kg/h)			100 kernel mass (g)			Kernel size (%)						Breakage susceptibility (%)						Stress cracks (%)			SAGL Milling index 2019			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.	ave.	min.	max.	
GRADE: YM1																															
1	Region 03	80.9	-	-	30.0	-	-	2.8	-	-	36.3	-	-	0.6	-	-	0.5	-	-	6	-	-	90.5	-	-	67.3	-	-			
19	Region 10	79.8	76.9	82.0	35.2	31.1	39.5	4.4	1.0	10.1	25.4	17.6	39.9	0.5	0.0	1.8	0.4	0.0	1.6	15	4	34	80.7	64.3	92.4	65.0	61.0	67.8			
15	Region 11	80.7	77.2	83.3	34.8	30.8	37.4	4.7	1.4	9.4	23.1	11.8	33.0	0.5	0.2	1.0	0.4	0.0	0.9	8	2	15	80.7	68.3	91.4	64.9	61.9	67.5			
1	Region 12	78.8	-	-	31.7	-	-	10.3	-	-	20.3	-	-	1.2	-	-	1.1	-	-	21	-	-	99.4	-	-	69.5	-	-			
1	Region 13	77.2	-	-	27.2	-	-	7.4	-	-	31.6	-	-	1.8	-	-	1.5	-	-	19	-	-	84.7	-	-	65.9	-	-			
3	Region 14	76.4	75.5	76.9	31.6	30.9	32.2	9.0	6.6	10.3	22.2	15.4	31.0	1.5	1.0	1.9	1.2	0.8	1.6	16	15	19	86.1	81.3	93.2	66.2	65.1	67.9			
2	Region 15	75.9	74.1	77.6	30.2	30.0	30.4	5.1	0.9	9.2	27.8	22.9	32.7	2.3	2.0	2.5	1.8	1.7	1.8	19	14	23	71.1	64.7	77.4	62.6	61.0	64.1			
4	Region 16	75.9	73.2	77.5	29.5	27.0	31.2	7.6	3.4	14.7	25.0	15.2	35.1	1.6	0.9	2.7	1.3	0.8	2.0	13	7	20	81.0	73.1	87.7	65.0	63.1	66.6			
1	Region 17	77.8	-	-	32.9	-	-	4.9	-	-	16.7	-	-	1.1	-	-	0.9	-	-	11	-	-	84.4	-	-	65.8	-	-			
1	Region 18	78.4	-	-	29.8	-	-	9.8	-	-	27.2	-	-	0.7	-	-	0.5	-	-	11	-	-	93.9	-	-	68.1	-	-			
3	Region 19	77.0	76.3	77.9	31.2	29.9	33.3	10.4	8.7	12.8	20.6	13.2	24.8	0.9	0.5	1.4	0.6	0.3	1.2	12	5	19	86.5	78.4	91.9	66.3	64.4	67.6			
3	Region 20	78.2	77.7	78.7	28.7	28.0	30.0	4.1	3.3	4.5	30.3	28.9	31.2	1.6	0.6	3.4	1.1	0.5	2.3	15	5	30	83.1	78.7	85.9	65.5	64.4	66.2			
7	Region 21	77.6	74.7	79.9	30.3	24.5	35.8	7.9	4.3	12.8	25.8	18.1	33.6	0.9	0.4	1.5	0.6	0.2	1.0	11	5	14	80.4	66.1	93.8	64.8	61.4	68.1			
1	Region 22	75.3	-	-	30.3	-	-	9.9	-	-	23.3	-	-	0.9	-	-	0.7	-	-	16	-	-	74.0	-	-	63.3	-	-			
2	Region 23	72.9	71.5	74.2	30.6	29.5	31.7	13.4	11.6	15.1	15.2	13.2	17.1	1.4	1.1	1.7	0.9	0.8	1.0	13	10	15	69.2	60.3	78.0	62.1	60.0	64.3			
11	Region 24	76.4	71.8	79.6	31.9	26.5	38.5	7.0	0.8	12.3	22.8	7.8	41.5	1.1	0.3	1.9	0.8	0.2	1.6	14	5	24	83.2	72.9	101.3	65.5	63.0	70.0			
6	Region 25	78.0	76.2	79.5	30.3	28.4	31.0	7.2	3.2	12.4	29.2	19.9	38.3	0.4	0.2	0.8	0.3	0.2	0.4	8	4	12	74.6	64.1	82.7	63.4	60.9	65.4			
15	Region 26	77.5	75.9	80.2	31.3	27.8	34.7	7.4	3.4	16.7	26.0	8.4	32.9	0.7	0.3	1.6	0.5	0.1	1.2	13	3	27	78.9	65.7	107.1	64.5	61.3	71.4			
7	Region 27	77.1	75.4	79.1	30.2	26.7	32.1	10.5	4.7	31.9	24.7	11.7	39.8	1.2	0.3	2.8	0.8	0.2	2.2	16	6	25	82.5	69.3	87.7	65.3	62.2	66.6			
28	Region 28	76.9	73.9	80.8	30.7	26.0	38.3	8.4	2.0	23.2	24.1	7.2	40.9	0.7	0.0	2.2	0.5	0.0	1.7	11	2	26	79.9	71.7	96.0	64.7	62.8	68.7			
26	Region 29	77.0	75.1	79.7	26.7	19.6	31.3	6.8	1.3	16.8	29.6	9.0	46.3	0.8	0.2	1.9	0.6	0.2	1.2	14	4	22	82.9	70.3	93.2	65.5	62.4	68.0			
33	Region 30	77.2	73.7	80.8	32.0	25.7	41.4	13.1	0.9	29.4	18.9	4.7	31.8	0.6	0.0	1.8	0.4	0.0	0.8	14	6	39	78.1	43.6	91.1	64.3	56.0	67.5			
31	Region 31	77.1	73.0	81.1	29.9	22.6	34.8	8.9	2.0	18.6	25.5	14.6	48.5	0.6	0.1	1.6	0.4	0.0	1.2	10	3	27	79.2	67.0	91.2	64.5	61.6	67.5			
26	Region 32	76.4	74.2	79.1	30.8	26.0	34.8	9.4	4.2	16.0	22.5	14.4	34.8	0.7	0.1	1.3	0.5	0.0	0.9	11	3	20	76.4	62.1	85.6	63.9	60.4	66.1			
15	Region 33	76.6	73.9	80.0	28.7	23.3	36.3	6.2	0.6	20.0	32.4	16.8	54.6	0.8	0.0	1.8	0.5	0.0	1.1	14	7	32	72.9	53.6	85.4	63.0	58.3	66.1			
21	Region 34	76.2	73.1	79.4	28.9	21.6	35.6	9.1	2.9	20.7	24.3	8.4	49.2	1.0	0.2	3.0	0.7	0.1	2.0	16	5	35	79.8	65.9	90.0	64.7	61.3	67.2			
9	Region 35	76.3	73.4	78.3	32.9	30.5	39.0	15.1	3.2	33.2	20.6	6.0	32.7	0.8	0.2	1.7	0.6	0.1	1.3	9	4	16	79.7	63.3	95.4	64.7	60.7	68.5			
17	Region 36	77.7	72.3	81.2	33.3	26.8	39.0	7.0	0.0	20.6	27.9	9.6	45.6	1.2	0.5	3.2	0.8	0.4	1.7	12	3	37	77.1	57.6	106.5	64.1	59.4	71.2			
309	Ave. YM1	77.3			30.9			8.4			24.8			0.8			0.6			12			79.4			64.6					
	Min. YM1	71.5			19.6			0.0			4.7			0.0			0.0			2			43.6			56.0					
	Max. YM1	83.3			41.4			33.2			54.6			3.4			2.3			39			107.1			71.4					

TABLE 14: PHYSICAL QUALITY CHARACTERISTICS OF YELLOW MAIZE ACCORDING TO GRADE (2018/19)
(continue)

Number of samples	Region	Test weight (kg/h)			100 kernel mass (g)			Kernel size (%)						Breakage susceptibility (%)						Stress cracks (%)			SAGL Milling index 2019			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.		
GRADE: YM2																													
1	Region 13	77.7	-	-	28.9	-	-	6.8	-	-	25.8	-	-	1.1	-	-	0.9	-	-	13	-	-	99.9	-	-	69.5	-	-	
3	Region 14	73.9	71.3	76.8	28.4	27.4	28.9	7.9	5.1	10.7	22.4	21.4	24.4	2.7	1.4	5.2	2.1	1.2	3.5	19	12	29	84.5	79.6	93.1	65.8	64.6	67.9	
2	Region 16	73.3	72.9	73.6	25.1	22.1	28.0	4.6	3.0	6.2	31.9	17.6	46.1	5.3	4.1	6.5	3.5	3.0	3.9	26	23	28	85.6	82.8	88.4	66.1	65.4	66.8	
1	Region 17	76.1	-	-	28.0	-	-	6.3	-	-	16.6	-	-	0.8	-	-	0.5	-	-	4	-	-	97.1	-	-	68.9	-	-	
1	Region 18	76.3	-	-	28.6	-	-	6.5	-	-	23.9	-	-	1.1	-	-	1.0	-	-	12	-	-	78.8	-	-	64.5	-	-	
1	Region 20	77.0	-	-	29.3	-	-	0.6	-	-	55.1	-	-	3.2	-	-	2.4	-	-	26	-	-	78.8	-	-	64.5	-	-	
1	Region 22	77.8	-	-	30.1	-	-	10.6	-	-	20.5	-	-	1.6	-	-	1.3	-	-	18	-	-	90.1	-	-	67.2	-	-	
1	Region 23	77.9	-	-	29.9	-	-	4.4	-	-	38.1	-	-	1.7	-	-	1.0	-	-	16	-	-	89.6	-	-	67.1	-	-	
1	Region 24	76.9	-	-	30.1	-	-	6.3	-	-	25.2	-	-	2.7	-	-	2.0	-	-	20	-	-	87.7	-	-	66.6	-	-	
6	Region 26	76.7	75.2	78.9	30.3	28.5	31.8	6.3	2.3	7.9	30.8	25.6	34.9	0.9	0.5	1.2	0.6	0.4	1.0	10	4	14	80.7	72.3	93.9	64.9	62.9	68.1	
2	Region 27	77.8	77.5	78.1	29.9	29.7	30.0	7.1	4.0	10.1	31.0	29.5	32.5	1.0	0.7	1.3	0.8	0.5	1.0	10	7	12	88.4	82.0	94.9	66.8	65.2	68.4	
5	Region 28	75.6	71.1	77.3	27.2	22.5	33.0	5.3	1.3	8.9	39.5	25.4	74.5	1.2	1.0	1.9	1.0	0.6	1.6	12	4	20	74.2	57.4	81.4	63.4	59.2	65.1	
3	Region 29	73.4	69.2	76.6	24.3	19.5	32.3	7.8	2.9	12.8	29.9	15.0	52.9	2.5	0.3	4.2	1.4	0.2	2.5	26	15	38	77.0	63.4	89.0	64.0	60.7	66.9	
1	Region 30	77.4	-	-	28.8	-	-	8.2	-	-	35.7	-	-	0.9	-	-	0.6	-	-	7	-	-	73.0	-	-	63.0	-	-	
2	Region 31	75.7	74.2	77.1	31.6	30.3	32.9	8.5	6.7	10.3	17.3	16.8	17.7	1.3	0.7	1.9	1.0	0.6	1.3	20	10	30	82.4	81.6	83.2	65.3	65.1	65.5	
1	Region 32	74.1	-	-	30.4	-	-	19.7	-	-	11.5	-	-	0.9	-	-	0.6	-	-	20	-	-	76.1	-	-	63.8	-	-	
2	Region 33	74.4	74.0	74.8	29.7	27.0	32.3	3.8	0.0	7.5	30.4	23.1	37.7	1.6	1.2	2.0	1.3	1.0	1.5	22	16	28	63.3	57.0	69.6	60.6	59.1	62.2	
7	Region 34	75.0	73.6	76.1	28.2	26.6	30.0	6.7	2.1	9.5	25.5	17.1	35.2	1.0	0.6	1.3	0.6	0.2	0.9	16	8	33	77.9	70.7	83.6	64.2	62.5	65.6	
6	Region 36	77.2	76.2	80.4	33.7	31.5	36.2	12.9	2.5	26.3	19.2	9.6	28.7	1.3	0.7	1.8	0.9	0.5	1.4	15	7	31	83.8	75.0	92.0	65.7	63.5	67.7	
47	Ave. YM2	75.8	69.2	80.4	29.2	19.5	36.2	7.5	0.0	26.3	27.8	9.6	74.5	1.6	0.3	6.5	1.1	0.2	3.9	16	4	38	80.8	57.0	99.9	64.9	59.1	69.5	
	Min. YM2																												
	Max. YM2																												

TABLE 14: PHYSICAL QUALITY CHARACTERISTICS OF YELLOW MAIZE ACCORDING TO GRADE (2018/19)
(continue)

Number of samples	Region	Test weight (kg/ht)		100 kernel mass (g)		Kernel size (%)						Breakage susceptibility (%)						Stress cracks (%)			SAGL Milling index 2019			GYA									
		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.	ave.	min.	max.	ave.	min.	max.	ave.													min.	max.					
GRADE: YM3																																	
1	Region 11	78.8	-	-	33.0	-	-	7.5	-	-	68.5	-	-	24.0	-	-	1.3	-	-	1.1	-	-	17	-	-	78.1	-	-	64.3	-	-		
1	Region 17	73.4	-	-	30.4	-	-	9.3	-	-	73.3	-	-	17.4	-	-	2.3	-	-	2.0	-	-	18	-	-	74.9	-	-	63.5	-	-		
1	Region 20	71.5	-	-	29.1	-	-	8.3	-	-	68.5	-	-	23.2	-	-	1.1	-	-	0.9	-	-	12	-	-	51.8	-	-	57.9	-	-		
1	Region 22	75.1	-	-	28.2	-	-	5.5	-	-	69.9	-	-	24.6	-	-	1.9	-	-	1.2	-	-	21	-	-	82.1	-	-	65.3	-	-		
1	Region 24	76.4	-	-	34.5	-	-	6.4	-	-	70.9	-	-	22.7	-	-	1.0	-	-	0.9	-	-	13	-	-	82.1	-	-	65.3	-	-		
1	Region 28	78.6	-	-	31.0	-	-	4.1	-	-	69.4	-	-	26.5	-	-	1.0	-	-	0.7	-	-	16	-	-	83.2	-	-	65.5	-	-		
1	Region 32	75.1	-	-	29.5	-	-	2.1	-	-	66.7	-	-	31.2	-	-	1.0	-	-	0.6	-	-	9	-	-	80.5	-	-	64.8	-	-		
2	Region 34	73.7	69.0	78.3	28.7	27.1	30.3	14.5	10.4	18.5	71.6	69.2	73.9	14.0	12.3	15.7	1.2	0.7	1.6	0.6	0.4	0.9	14	8	20	75.8	59.2	92.4	63.7	59.6	67.8		
1	Region 35	78.4	-	-	33.1	-	-	7.6	-	-	64.2	-	-	28.2	-	-	0.7	-	-	0.5	-	-	12	-	-	90.9	-	-	67.4	-	-		
3	Region 36	76.5	72.2	80.0	33.9	32.6	34.6	10.1	3.0	15.4	69.2	66.1	74.0	20.7	18.5	23.0	1.9	1.5	2.7	1.4	1.1	1.9	26	20	32	82.0	80.6	84.3	65.2	64.9	65.8		
13	Ave. YM3	75.7			31.4			8.5	2.1	18.5	69.4	64.2	74.0	22.1	12.3	31.2	1.4	0.7	2.7	1.0	0.4	2.0	17	8	32	78.5	51.8	92.4	64.4	57.9	67.8		
	Min. YM3	69.0			27.1			34.6																									
	Max. YM3	80.0			34.6																												
CLASS: COM																																	
1	Region 11	81.6	-	-	34.8	-	-	6.0	-	-	72.3	-	-	21.7	-	-	0.9	-	-	0.6	-	-	11	-	-	85.5	-	-	66.1	-	-		
1	Region 13	74.9	-	-	25.2	-	-	2.5	-	-	68.1	-	-	29.4	-	-	2.2	-	-	1.8	-	-	17	-	-	76.5	-	-	63.8	-	-		
1	Region 14	78.9	-	-	27.5	-	-	3.2	-	-	58.9	-	-	37.9	-	-	1.4	-	-	1.1	-	-	13	-	-	92.0	-	-	67.6	-	-		
1	Region 18	76.1	-	-	33.0	-	-	11.5	-	-	68.0	-	-	20.5	-	-	1.8	-	-	1.3	-	-	8	-	-	87.0	-	-	66.5	-	-		
1	Region 19	72.3	-	-	22.2	-	-	0.9	-	-	60.2	-	-	38.9	-	-	4.0	-	-	2.3	-	-	29	-	-	71.3	-	-	62.6	-	-		
1	Region 22	76.9	-	-	30.8	-	-	6.7	-	-	64.1	-	-	29.2	-	-	0.9	-	-	0.8	-	-	17	-	-	86.8	-	-	66.4	-	-		
3	Region 24	74.0	71.7	77.7	33.7	31.2	35.5	2.5	1.0	4.5	64.3	57.7	68.1	33.2	28.4	41.3	1.8	1.0	2.5	1.5	0.7	2.2	19	14	25	82.2	80.8	83.0	65.3	65.0	65.5		
1	Region 25	76.3	-	-	27.9	-	-	8.0	-	-	65.6	-	-	26.4	-	-	0.7	-	-	0.5	-	-	11	-	-	72.7	-	-	63.0	-	-		
6	Region 26	75.0	73.5	78.1	31.0	25.3	34.7	5.9	0.5	12.7	64.1	39.0	74.1	30.0	13.6	60.5	1.6	0.3	3.5	1.0	0.1	2.4	22	13	33	74.9	60.3	86.9	63.5	59.9	66.4		
4	Region 28	75.7	73.2	77.6	30.9	30.1	31.6	12.2	7.3	14.6	68.1	67.8	68.4	19.7	17.1	24.7	0.7	0.3	1.1	0.5	0.2	0.7	15	6	31	81.6	80.4	83.3	65.2	64.9	65.6		
1	Region 30	77.4	-	-	28.5	-	-	15.1	-	-	61.5	-	-	23.4	-	-	0.4	-	-	0.2	-	-	9	-	-	75.7	-	-	63.7	-	-		
1	Region 31	75.4	-	-	30.2	-	-	9.0	-	-	73.0	-	-	18.0	-	-	0.2	-	-	0.2	-	-	8	-	-	79.8	-	-	64.7	-	-		
3	Region 32	76.1	75.6	77.0	27.8	23.7	30.0	10.6	2.9	16.0	62.1	44.8	72.1	27.3	11.9	52.3	0.8	0.7	1.0	0.6	0.4	0.8	17	12	26	74.3	70.8	77.4	63.3	62.5	64.1		

