

TABLE 11: PHYSICAL QUALITY FACTORS OF YELLOW MAIZE ACCORDING TO GRADE (2014/2015)

Number of samples	Region	Test weight (kg/hl)			100 kernel mass (g)			Kernel size (%)						Breakage susceptibility (%)						Stress cracks (%)			Milling index					
		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																												
18	Region 10	77.2	74.3	79.7	33.6	28.3	36.6	6.8	3.3	12.3	71.3	63.9	78.9	21.9	13.9	32.8	0.9	0.2	1.6	0.7	0.1	1.2	5	1	10	86.0	70.2	97.8
4	Region 11	79.3	77.9	80.0	34.2	33.3	35.8	7.2	5.1	8.6	68.9	62.7	75.5	24.0	15.9	32.2	1.1	0.8	1.4	1.0	0.7	1.4	5	2	8	98.9	90.2	103.8
3	Region 12	76.2	75.6	76.6	27.9	27.2	29.1	6.4	5.0	7.2	63.5	58.0	70.3	30.1	22.8	34.8	1.3	0.4	1.7	0.8	0.4	1.1	8	4	10	97.5	97.2	97.9
9	Region 13	77.9	76.1	80.2	25.1	22.9	26.7	3.7	0.6	8.0	57.4	48.2	66.5	38.9	25.5	50.1	1.1	0.8	1.4	0.8	0.5	1.0	4	1	7	107.0	98.1	113.4
15	Region 14	77.3	76.0	79.4	27.3	24.5	30.7	4.7	2.6	8.0	61.8	52.9	69.9	33.6	23.8	42.9	1.1	0.4	2.2	0.9	0.4	2.0	5	1	24	103.9	96.0	112.6
1	Region 15	83.1	-	-	28.9	-	-	1.0	-	-	64.2	-	-	34.8	-	-	1.4	-	-	1.1	-	-	2	-	-	115.6	-	-
3	Region 16	78.9	77.4	79.9	26.2	23.7	27.9	3.9	2.1	7.0	55.7	47.0	64.8	40.5	33.1	50.5	1.4	0.8	2.2	0.8	0.6	1.2	4	2	5	110.1	108.2	113.1
11	Region 17	76.5	73.9	77.9	25.4	22.5	33.2	4.9	0.7	23.7	59.6	53.1	67.5	35.5	8.8	46.2	1.8	0.7	4.3	1.3	0.3	3.5	4	0	7	99.7	92.7	107.7
5	Region 18	77.0	75.1	80.5	30.5	25.8	36.1	13.2	4.0	27.8	62.5	54.3	67.0	24.2	8.8	40.6	0.7	0.2	1.0	0.4	0.1	0.7	10	1	22	99.7	94.9	104.8
13	Region 19	77.7	74.0	80.0	26.6	23.2	33.9	4.8	2.0	10.3	60.6	52.6	75.2	34.5	14.5	44.9	0.9	0.3	1.6	0.7	0.3	1.2	4	1	7	100.6	92.0	109.7
10	Region 20	78.4	76.3	80.2	29.1	25.8	33.6	9.3	3.2	16.7	61.9	53.9	66.4	28.8	21.8	38.8	1.4	0.5	3.9	1.1	0.4	2.8	6	1	17	100.8	82.6	114.1
5	Region 21	78.4	73.9	83.0	31.7	26.5	37.7	9.3	0.8	24.1	68.2	64.6	74.7	22.6	9.7	31.6	1.0	0.3	2.2	0.8	0.1	1.4	9	3	15	100.0	81.2	110.1
6	Region 22	79.5	77.3	82.4	29.6	24.9	32.7	5.8	0.0	12.0	60.2	38.6	68.9	34.0	20.7	61.4	1.3	0.8	1.7	0.9	0.5	1.3	5	3	9	108.3	104.3	119.1
4	Region 23	78.8	77.9	80.7	30.4	28.9	31.9	5.1	2.8	6.9	65.6	61.9	69.0	29.4	24.1	33.3	1.4	0.7	2.2	1.1	0.6	1.6	8	2	17	108.6	105.5	112.4
5	Region 24	79.5	78.2	82.1	30.0	26.7	32.6	6.3	1.9	8.4	63.2	55.6	70.4	30.5	21.2	39.5	0.9	0.1	1.2	0.6	0.0	1.0	8	4	11	103.6	95.0	110.9
4	Region 25	77.0	76.3	77.4	32.6	30.3	36.0	8.5	5.6	12.1	68.5	62.9	71.5	23.0	21.1	25.0	1.3	0.9	1.9	1.1	0.8	1.3	5	2	10	90.2	85.9	92.4
7	Region 26	77.8	73.7	79.6	31.0	27.8	33.7	9.1	3.4	22.7	66.1	58.0	73.1	24.7	9.5	36.8	0.8	0.5	1.1	0.6	0.5	0.9	6	1	12	104.2	97.4	110.8
3	Region 27	77.1	75.9	78.0	29.6	25.9	32.5	9.7	5.7	14.4	64.5	60.6	69.6	25.8	21.4	33.7	1.5	1.2	1.9	1.0	0.9	1.2	13	10	15	95.5	92.8	100.5
26	Region 28	76.5	74.1	79.0	31.4	25.8	36.4	12.5	4.6	23.3	67.7	61.5	73.4	19.7	9.3	29.6	1.1	0.4	3.5	0.8	0.3	2.3	5	0	13	93.8	81.2	102.4
45	Region 29	75.9	67.3	79.4	28.6	20.3	35.6	9.7	0.8	25.3	66.6	56.2	76.6	23.7	10.4	41.7	1.3	0.3	3.6	0.8	0.2	1.9	4	0	14	97.4	86.7	112.6
44	Region 30	75.6	69.9	79.2	28.7	20.5	36.0	11.4	1.8	23.2	66.7	45.3	76.7	21.9	4.2	52.9	1.4	0.5	2.6	1.0	0.3	2.2	5	0	23	95.7	80.4	111.8
40	Region 31	76.4	72.8	79.5	28.2	23.4	34.1	9.0	3.7	20.1	66.6	56.3	72.4	24.4	10.9	37.1	1.1	0.3	2.5	0.7	0.2	1.8	4	0	14	93.9	79.4	105.5
31	Region 32	75.5	71.8	78.0	28.9	21.4	34.8	11.8	5.1	22.2	68.5	62.1	76.1	19.7	8.5	32.8	1.5	0.3	5.6	1.0	0.3	4.8	4	0	14	86.4	72.5	101.2
35	Region 33	76.0	73.0	77.9	30.2	24.2	38.2	13.0	1.0	30.2	64.9	41.8	73.5	22.0	7.5	57.2	1.1	0.2	2.6	0.8	0.2	1.9	5	0	12	89.1	73.6	98.6
21	Region 34	76.8	73.6	82.6	29.1	24.9	37.4	9.9	1.1	27.7	66.5	57.1	74.1	23.6	5.7	41.8	1.1	0.2	2.3	0.8	0.2	1.6	4	1	12	99.1	83.2	118.0
6	Region 35	76.3	72.7	77.9	31.1	28.4	34.3	3.6	1.3	5.3	62.3	53.9	73.3	34.1	21.4	44.8	1.3	0.3	1.9	1.2	0.3	1.7	6	1	23	79.0	68.9	93.9
18	Region 36	76.9	74.8	79.2	33.1	26.3	37.1	11.7	2.9	18.6	64.1	49.1	72.9	24.2	12.1	41.3	1.3	0.2	4.3	1.0	0.2	3.4	7	2	15	92.1	78.4	102.9
392	Ave. YM1	76.6			29.4			9.5			65.5			25.0			1.2			0.9			5			95.4		
	Min. YM1	67.3			20.3			0.0			38.6			4.2			0.1			0.0			0			68.9		
	Max. YM1	83.1			38.2			30.2			78.9			61.4			5.6			4.8			24			119.1		

TABLE 11: PHYSICAL QUALITY FACTORS OF YELLOW MAIZE ACCORDING TO GRADE (2014/2015)
(continue)

Number of samples	Region	Test weight (kg/ha)			100 kernel mass (g)			Kernel size (%)			Breakage susceptibility (%)						Stress cracks (%)			Milling index					
		ave.	min.	max.	ave.	min.	max.	Above 10 mm sieve			Below 8 mm sieve			< 6.35 mm sieve			ave.	min.	max.	ave.	min.	max.			
								ave.	min.	max.	ave.	min.	max.	ave.	min.	max.									
GRADE: YM2																									
1	Region 10	74.8	-	-	31.2	-	-	66.9	-	-	27.8	-	-	2.7	-	-	1.8	-	-	3	-	-	75.1	-	-
1	Region 11	78.9	-	-	34.3	-	-	67.5	-	-	17.2	-	-	1.2	-	-	0.9	-	-	3	-	-	104.7	-	-
4	Region 12	75.9	75.5	76.4	25.9	23.1	29.1	62.8	59.5	68.6	32.6	22.8	38.4	1.8	1.1	2.6	1.1	0.8	1.4	3	1	7	95.7	88.8	100.3
4	Region 13	76.1	73.2	79.0	23.9	21.7	26.4	52.3	44.2	58.8	38.5	18.1	54.3	2.0	1.1	4.3	1.3	0.6	2.8	5	4	6	107.9	102.8	113.7
2	Region 14	74.3	73.9	74.7	20.7	19.7	21.6	46.4	45.2	47.6	52.5	51.3	53.7	1.5	1.2	1.8	0.8	0.6	1.0	1	0	2	82.6	80.7	84.5
5	Region 17	77.0	76.2	77.7	23.2	21.3	25.7	51.9	44.3	58.9	45.6	35.9	54.0	1.7	1.2	2.6	1.0	0.6	1.5	5	1	9	102.0	97.0	107.0
2	Region 18	77.8	77.7	77.9	25.2	25.0	25.4	55.5	54.6	56.4	40.9	39.3	42.4	1.5	1.1	1.8	1.2	1.1	1.2	3	2	3	108.5	108.2	108.7
6	Region 19	77.1	76.3	77.4	25.1	23.2	26.8	53.9	46.9	60.4	42.8	34.3	50.9	1.7	0.9	3.5	1.2	0.4	2.8	4	1	12	101.6	98.8	103.2
6	Region 20	76.1	74.2	77.8	29.6	25.5	35.0	63.3	56.8	70.5	31.0	18.0	41.4	1.3	0.7	2.1	1.0	0.6	1.5	3	1	10	88.6	75.5	97.5
3	Region 21	76.0	73.8	77.8	30.6	29.5	32.6	64.0	60.0	67.4	30.0	27.4	33.7	1.3	1.0	1.7	1.1	0.9	1.4	6	6	7	93.5	74.7	106.5
1	Region 22	78.2	-	-	29.3	-	-	61.7	-	-	35.8	-	-	1.6	-	-	1.3	-	-	5	-	-	103.3	-	-
1	Region 23	77.2	-	-	29.3	-	-	67.8	-	-	20.7	-	-	2.1	-	-	1.5	-	-	4	-	-	110.1	-	-
2	Region 25	75.6	74.3	76.8	23.5	20.2	26.8	52.3	43.1	61.4	44.1	35.5	52.6	2.8	2.4	3.1	1.5	1.3	1.7	5	1	8	93.8	92.4	95.2
1	Region 26	72.8	-	-	29.4	-	-	70.2	-	-	23.2	-	-	0.2	-	-	0.1	-	-	1	-	-	84.6	-	-
2	Region 27	77.1	75.5	78.7	26.6	25.6	27.6	62.2	58.0	66.3	30.9	22.8	38.9	1.9	1.8	2.0	1.2	1.0	1.4	9	6	11	99.9	99.3	100.4
6	Region 28	76.3	74.6	78.1	27.4	24.3	30.9	60.8	49.7	69.1	30.5	17.7	45.5	1.2	0.8	2.1	0.8	0.6	0.9	4	2	8	95.9	92.2	99.7
10	Region 29	74.0	68.0	80.7	23.2	19.3	31.8	53.7	30.3	69.6	41.6	8.5	69.1	1.5	0.4	4.2	0.8	0.1	1.8	8	0	29	95.9	66.2	114.8
14	Region 30	74.8	68.8	80.0	23.9	19.4	28.4	51.0	16.4	69.6	44.7	21.5	83.6	1.7	0.4	3.1	1.1	0.4	2.4	6	0	28	91.1	50.2	104.5
7	Region 31	75.2	73.5	77.3	23.6	22.4	26.7	50.9	18.5	62.2	43.6	31.0	81.2	1.3	0.4	2.4	0.9	0.4	1.3	8	1	22	93.2	80.2	107.2
9	Region 32	73.8	70.3	75.7	24.5	21.8	28.3	63.8	57.2	68.6	27.3	17.3	40.4	1.5	1.0	3.9	0.9	0.7	2.1	5	0	28	85.3	73.5	101.5
4	Region 33	74.3	72.4	76.3	27.7	23.9	32.4	63.5	54.7	72.2	26.0	12.5	36.4	2.1	1.1	4.4	1.4	0.7	3.1	4	3	8	82.9	74.8	89.9
6	Region 34	75.2	73.0	77.2	27.2	24.9	29.1	58.9	43.8	68.1	31.7	16.8	50.8	1.2	0.8	2.0	0.7	0.5	1.1	5	3	7	93.7	83.4	99.3
6	Region 36	76.2	75.0	77.7	32.6	26.4	36.3	63.7	47.7	72.1	25.9	15.4	47.6	1.2	0.4	3.3	1.0	0.4	2.9	7	4	11	92.7	88.2	96.3
103	Ave. YM2	75.5			25.9			57.4			36.2			1.5			1.0			5			93.9		
	Min. YM2	68.0			19.3			16.4			8.5			0.2			0.1			0			50.2		
	Max. YM2	80.7			36.3			72.2			83.6			4.4			3.1			29			114.8		

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(continue)

Number of samples	Region	Test weight (kg/hi)			100 kernel mass (g)			Kernel size (%)			Breakage susceptibility (%)			Stress cracks (%)			Milling index									
		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.								
GRADE: YM3																										
1	Region 13	76.2	-	-	17.8	-	-	42.7	-	-	56.9	-	-	1.5	-	-	0.7	-	-	95.8	-	-				
1	Region 18	76.3	-	-	24.4	-	-	53.2	-	-	42.7	-	-	1.3	-	-	0.8	-	-	102.2	-	-				
2	Region 20	75.9	75.9	75.9	22.4	21.9	22.9	3.1	2.0	4.1	43.0	42.7	43.3	1.8	1.7	1.8	0.9	0.8	1.0	4	2	6	88.7	87.5	89.8	
1	Region 26	73.1	-	-	26.6	-	-	57.7	-	-	35.7	-	-	1.2	-	-	0.9	-	-	-	6	-	-	89.2	-	-
2	Region 29	69.9	69.5	70.2	24.9	23.1	26.6	3.5	1.3	5.7	54.1	46.5	61.6	3.4	1.6	5.2	2.2	1.0	3.3	7	6	8	73.2	63.4	83.0	
2	Region 31	76.0	75.0	77.0	21.2	19.9	22.5	0.2	0.0	0.4	11.6	9.2	13.9	1.6	1.4	1.7	0.7	0.5	0.9	7	3	10	97.0	89.4	104.6	
9	Ave. YM3	74.3			22.9			2.7			53.6			1.9			1.1			5			89.4			
	Min. YM3	69.5			17.8			0.0			32.7			1.2			0.5			2			63.4			
	Max. YM3	77.0			26.6			6.6			90.4			5.2			3.3			10			104.6			
CLASS: COM																										
1	Region 13	70.1	-	-	19.0	-	-	3.7	-	-	41.2	-	-	1.2	-	-	0.6	-	-	1	-	-	88.2	-	-	
1	Region 14	75.9	-	-	28.7	-	-	8.7	-	-	17.0	-	-	1.5	-	-	1.2	-	-	1	-	-	95.9	-	-	
1	Region 16	77.1	-	-	31.6	-	-	10.2	-	-	28.4	-	-	1.4	-	-	0.9	-	-	2	-	-	99.6	-	-	
2	Region 19	78.3	78.1	78.4	25.2	22.5	27.9	1.6	0.9	2.3	41.9	38.9	44.8	6.7	6.5	6.8	2.5	2.4	2.6	35	13	56	120.7	118.4	122.9	
1	Region 29	75.1	-	-	32.8	-	-	12.2	-	-	16.0	-	-	0.8	-	-	0.4	-	-	0	-	-	99.2	-	-	
1	Region 30	73.5	-	-	30.0	-	-	26.3	-	-	11.5	-	-	0.9	-	-	0.6	-	-	3	-	-	78.4	-	-	
4	Region 33	70.0	68.4	71.3	30.9	30.6	31.4	18.3	14.7	21.0	14.6	11.9	16.6	1.8	1.4	2.5	1.4	1.2	1.7	8	5	12	90.1	87.4	93.0	
11	Ave. COM	73.5			28.7			12.5			26.0			2.4			1.3			10			96.6			
	Min. COM	68.4			19.0			0.9			11.5			0.8			0.4			0			78.4			
	Max. COM	78.4			32.8			26.3			58.8			6.8			2.6			56			122.9			
515 Ave. yellow maize																										
	Min. yellow maize	76.3			28.6			8.8			27.8			1.3			0.9			5			95.0			
	Max. yellow maize	83.1			38.2			30.2			90.4			6.8			4.8			56			122.9			
1000 Ave. maize																										
	Min. maize	77.3			29.8			12.0			23.2			1.2			0.8			6			97.6			
	Max. maize	83.1			48.3			86.7			90.4			12.1			5.6			61			123.5			