

TABLE 10: PHYSICAL QUALITY FACTORS OF YELLOW MAIZE ACCORDING TO GRADE (2013/2014)

Number of samples	Region	Hectolitre mass (kg/h)			100 kernel mass (g)			Kernel size (%)						Breakage susceptibility (%)						Stress cracks (%)			Milling index					
		Hectolitre mass (kg/h)		max.	kernel mass (g)		max.	Above 10 mm sieve		Above 8 mm sieve		Below 8 mm sieve		< 6.35 mm sieve		< 4.75 mm sieve		Stress cracks (%)		Milling index								
		ave.	min.	max.	ave.	min.	max.	ave.	min.	max.	ave.	min.	max.	ave.	min.	max.	ave.	min.	max.	ave.	min.	max.						
GRADE: YM1																												
11	Region 10	78.7	75.7	80.9	32.9	30.5	35.4	2.1	0.9	3.9	64.7	48.4	73.2	33.2	23.3	50.7	0.9	0.2	2.4	0.8	0.2	1.9	4	0	10	89.3	70.2	101.2
3	Region 11	78.5	77.9	79.0	30.2	29.6	31.1	2.7	2.0	3.8	61.0	57.1	63.9	36.4	33.9	40.9	2.2	1.2	2.8	1.9	1.0	2.4	6	4	9	90.5	89.3	92.9
6	Region 12	76.1	75.2	76.9	30.3	27.8	32.5	13.0	8.0	21.1	68.9	65.6	72.4	18.1	13.3	22.8	1.7	1.3	2.5	1.1	0.6	1.7	13	10	17	95.6	89.9	100.9
4	Region 13	76.5	75.2	77.4	30.5	27.1	32.2	12.6	9.5	17.2	69.0	65.5	73.4	18.5	13.6	25.0	1.6	1.3	1.7	1.0	0.8	1.2	3	0	5	94.8	91.2	97.1
15	Region 14	76.7	73.7	78.4	29.8	22.5	32.3	10.7	3.7	18.6	70.0	50.1	75.0	19.3	11.8	46.2	1.7	0.9	2.6	1.3	0.4	2.2	6	0	18	97.8	89.5	103.6
3	Region 15	77.6	76.1	80.3	33.4	28.3	38.2	9.0	3.3	14.1	69.0	61.7	74.7	22.0	11.2	35.0	1.9	1.8	2.0	1.6	1.4	1.7	6	2	11	93.6	81.7	105.6
4	Region 16	77.2	76.0	78.5	30.0	25.6	32.1	18.1	9.0	28.6	65.4	63.6	66.7	16.5	7.8	24.3	1.8	1.2	2.9	1.3	0.9	2.1	3	2	6	97.7	92.9	103.2
6	Region 17	75.7	73.9	77.2	31.3	25.2	43.1	13.1	8.7	23.3	70.5	64.4	75.4	16.5	11.2	26.9	1.7	1.0	2.7	1.3	0.9	2.2	7	2	11	92.9	88.9	97.9
9	Region 18	76.3	75.7	77.1	30.1	28.2	32.9	13.5	6.9	22.4	68.9	61.6	77.9	17.6	11.0	27.0	1.4	0.7	2.9	1.1	0.6	2.3	4	1	10	96.1	92.2	102.4
8	Region 19	76.0	74.9	77.2	30.3	25.9	32.9	16.3	8.4	31.1	66.7	57.6	72.4	17.0	11.3	23.5	1.6	1.1	2.2	1.2	0.8	1.9	6	2	13	91.9	84.8	99.5
7	Region 20	76.6	75.7	77.5	32.2	29.4	33.3	14.0	4.4	22.3	66.3	62.3	72.0	19.6	12.2	31.7	2.8	1.3	5.6	2.3	1.0	5.0	7	4	11	87.2	60.7	96.5
14	Region 21	76.7	74.3	79.1	30.4	28.1	32.6	10.8	4.6	19.3	69.7	63.1	75.5	19.5	12.1	30.6	2.1	1.0	3.8	1.7	0.6	2.4	4	0	9	98.6	75.7	107.4
7	Region 22	77.1	75.6	79.9	31.6	28.1	37.0	14.3	4.7	28.2	68.9	59.6	74.5	16.7	6.1	30.0	1.5	0.9	3.0	1.3	0.8	2.6	4	0	8	100.9	92.4	109.4
7	Region 23	77.8	76.9	79.2	29.7	26.7	33.3	7.6	2.1	13.5	71.0	65.6	79.7	21.4	13.0	32.3	2.2	1.6	2.9	1.8	1.2	2.5	3	0	11	103.2	101.9	104.6
10	Region 24	77.3	76.3	79.8	30.7	27.3	35.0	11.9	4.5	30.6	66.1	55.9	71.9	22.1	5.6	39.4	1.4	0.7	2.6	1.1	0.6	1.9	8	2	20	99.4	90.6	116.6
23	Region 25	75.7	73.8	79.0	30.8	27.2	36.1	12.7	5.8	19.9	70.4	64.7	78.6	16.9	10.6	24.1	2.8	0.6	13.7	2.0	0.3	7.2	9	1	53	79.1	67.2	98.6
10	Region 26	76.7	75.2	78.7	33.1	28.9	38.0	18.1	5.8	33.7	65.3	60.0	70.0	16.6	4.5	29.2	1.3	0.3	2.2	0.9	0.0	1.8	5	0	13	87.7	75.5	95.7
15	Region 27	76.5	73.2	79.4	32.3	27.9	38.7	13.5	0.3	26.1	64.8	53.8	74.1	21.6	8.0	43.4	2.2	0.9	4.3	1.6	0.7	3.2	12	4	28	90.1	68.2	101.8
27	Region 28	74.4	66.3	77.9	33.9	28.5	38.3	22.7	11.0	39.2	66.3	58.1	73.7	11.0	2.7	24.3	1.3	0.3	4.6	1.0	0.3	4.1	4	0	16	84.5	73.3	97.3
53	Region 29	76.7	71.4	80.9	34.4	28.1	41.1	19.1	9.2	48.5	68.5	48.0	76.8	12.4	2.6	20.0	1.4	0.3	3.3	1.1	0.2	2.5	6	0	24	91.4	66.0	111.2
27	Region 30	74.8	70.2	77.9	32.7	26.4	39.0	19.1	7.3	35.9	67.1	53.6	75.1	13.8	5.5	29.3	1.7	0.3	5.1	1.1	0.2	3.3	8	1	30	86.8	79.2	96.6
22	Region 31	75.9	70.6	79.4	33.2	29.2	40.6	19.4	8.6	41.7	66.9	55.0	73.0	13.8	3.3	26.1	1.3	0.2	4.2	0.9	0.1	3.0	9	2	42	86.5	71.7	98.4
30	Region 32	77.0	74.7	79.2	32.0	25.5	39.7	17.7	8.1	41.9	67.0	50.5	75.8	15.3	6.0	24.8	2.2	0.8	3.7	1.7	0.7	2.7	9	1	28	90.8	80.0	120.4
10	Region 33	75.2	72.5	77.0	32.8	27.4	35.9	17.2	3.6	28.6	66.0	58.0	74.1	16.8	7.2	38.4	1.1	0.3	3.2	0.9	0.3	2.4	7	2	17	80.1	73.1	88.2
19	Region 34	77.7	73.0	80.6	33.1	30.7	37.8	18.3	8.9	46.4	67.1	49.7	77.9	14.6	3.9	23.8	2.7	0.6	14.5	1.9	0.4	8.2	6	0	15	96.5	82.3	105.6
6	Region 35	76.2	72.5	78.5	31.0	25.3	36.2	9.5	1.8	19.6	67.2	58.4	77.0	23.3	15.7	34.4	2.2	0.9	5.9	1.9	0.8	5.2	4	1	8	86.9	67.0	104.1
11	Region 36	75.6	73.4	78.0	33.3	28.9	37.2	14.4	8.3	26.3	68.1	59.6	74.7	17.5	10.0	26.4	1.1	0.4	2.1	0.8	0.2	1.7	5	2	11	87.5	78.4	105.2
367	Ave. YM1	76.3			32.3			15.8			67.6			16.7			1.8			1.3			7			90.4		
	Min. YM1	66.3			22.5			0.3			48.0			2.6			0.2			0.0			0			60.7		
	Max. YM1	80.9			43.1			48.5			79.7			50.7			14.5			8.2			53			120.4		

TABLE 10: PHYSICAL QUALITY FACTORS OF YELLOW MAIZE ACCORDING TO GRADE (2013/2014)
(continue)

Number of samples	Region	Hectolitre mass (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.				
GRADE: YM2																												
2	Region 11	76.9	76.9	76.9	30.9	30.4	31.3	2.4	2.2	2.6	62.7	59.3	66.1	34.9	31.3	38.5	2.6	1.3	3.8	2.0	1.2	2.7	3	0	6	85.6	79.2	92.0
1	Region 13	76.7	-	-	27.3	-	-	12.1	-	-	69.2	-	-	18.7	-	-	1.2	-	-	0.9	-	-	1	-	-	97.5	-	-
1	Region 15	56.6	-	-	18.6	-	-	6.4	-	-	56.4	-	-	37.2	-	-	3.0	-	-	1.0	-	-	3	-	-	93.5	-	-
2	Region 16	76.8	76.7	76.9	27.1	25.0	29.2	4.8	3.9	5.7	71.0	67.9	74.1	24.2	20.2	28.2	2.2	2.0	2.3	1.9	1.7	2.0	9	8	10	97.8	93.0	102.5
1	Region 17	74.5	-	-	27.9	-	-	12.0	-	-	65.3	-	-	22.7	-	-	1.2	-	-	0.9	-	-	12	-	-	89.3	-	-
2	Region 18	77.3	76.7	77.8	31.9	31.0	32.7	16.7	11.4	22.0	70.2	67.1	73.2	13.2	10.9	15.4	0.7	0.1	1.3	0.5	0.1	1.0	3	1	5	98.5	97.2	99.8
2	Region 20	75.5	75.4	75.6	28.9	28.7	29.0	9.7	4.0	15.3	66.7	64.2	69.2	23.7	15.5	31.8	2.6	1.4	3.7	1.9	0.8	2.9	5	5	5	89.4	88.3	90.5
3	Region 21	75.2	73.5	77.1	29.2	27.8	30.5	14.6	10.5	20.1	64.7	63.0	67.2	20.7	16.1	26.5	1.8	0.9	2.6	1.4	0.7	1.9	5	3	6	90.6	83.7	103.2
1	Region 23	77.7	-	-	27.7	-	-	5.1	-	-	59.0	-	-	35.9	-	-	1.7	-	-	1.0	-	-	6	-	-	82.0	-	-
1	Region 24	76.2	-	-	29.6	-	-	21.6	-	-	65.8	-	-	12.6	-	-	1.7	-	-	1.4	-	-	8	-	-	101.8	-	-
1	Region 25	74.8	-	-	33.9	-	-	3.2	-	-	68.6	-	-	28.2	-	-	4.8	-	-	4.2	-	-	7	-	-	69.0	-	-
7	Region 27	75.3	71.4	79.1	30.2	23.9	33.6	7.6	2.1	12.3	64.4	52.4	73.6	28.0	17.7	39.1	3.1	1.9	4.7	2.2	1.4	3.6	15	4	24	86.4	73.6	105.7
5	Region 28	72.8	70.1	76.8	28.0	23.2	31.9	10.0	3.1	25.8	59.2	32.4	73.5	30.8	7.8	64.5	2.6	1.8	3.2	2.0	1.6	2.5	2	0	4	72.0	46.5	91.0
7	Region 29	75.1	72.8	76.6	32.5	28.8	35.5	15.9	5.1	52.7	65.7	44.2	73.3	18.4	3.1	33.8	2.0	0.7	3.1	1.5	0.6	2.7	8	2	16	78.4	60.9	96.1
7	Region 30	74.7	69.9	76.8	28.3	23.7	33.5	12.9	4.3	19.2	56.8	35.0	69.2	30.3	12.0	54.2	1.4	0.4	3.3	0.8	0.3	1.7	10	1	22	81.9	62.5	92.2
14	Region 31	75.0	70.5	79.0	30.6	25.5	41.0	13.9	1.1	34.3	63.4	37.8	74.7	22.7	5.4	57.7	1.8	0.5	8.1	1.3	0.1	5.1	10	1	29	80.0	65.6	95.1
18	Region 32	75.1	70.7	77.8	28.4	23.7	34.3	11.1	3.5	25.9	67.5	60.1	75.6	21.4	11.3	32.0	2.5	1.4	4.8	1.7	0.7	3.5	8	1	27	85.8	72.8	105.0
4	Region 33	73.8	72.9	74.6	29.9	26.3	32.9	11.1	4.4	17.0	68.2	64.2	72.4	20.7	13.5	31.4	1.3	0.4	1.8	0.8	0.4	1.1	8	3	12	69.6	54.4	85.7
11	Region 34	76.8	73.4	79.0	32.9	26.6	39.9	15.3	0.3	28.9	67.5	34.9	77.5	17.2	7.2	64.8	2.3	1.1	3.5	1.7	0.8	2.7	11	1	23	92.2	58.9	105.8
2	Region 35	77.1	76.3	77.8	30.9	30.7	31.0	1.9	1.7	2.1	52.3	49.5	55.1	45.8	43.2	48.4	3.5	2.9	4.0	2.6	1.8	3.3	3	3	3	91.5	90.6	92.3
3	Region 36	76.9	75.5	77.9	32.7	30.1	35.8	21.6	11.1	38.5	64.4	54.1	69.8	14.0	7.4	19.1	1.4	1.0	2.2	1.1	0.7	1.8	6	2	11	93.2	88.6	99.2
95	Ave. YM2	75.2			30.0			12.1			64.6			23.3			2.2			1.5			8			84.8		
	Min. YM2	56.6			18.6			0.3			32.4			3.1			0.1			0.1			0			46.5		
	Max. YM2	79.1			41.0			52.7			77.5			64.8			8.1			8.1			5.1			105.8		

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(continue)

Number of samples	Region	Hectolitre mass (kg/ht)			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: YM3																													
2	Region 27	75.0	74.9	75.1	28.8	27.7	29.9	6.5	1.4	11.5	68.7	65.2	72.1	24.9	16.4	33.4	2.9	1.9	3.8	2.1	1.7	2.4	8	7	8	84.8	81.1	88.4	
3	Region 29	74.9	73.9	76.5	32.3	30.7	35.0	16.0	13.2	19.5	70.8	70.0	72.1	13.2	10.5	16.5	2.1	2.0	2.3	1.6	1.6	1.6	6	4	7	86.5	79.3	93.3	
2	Region 32	75.3	74.7	75.9	31.2	31.2	31.2	15.2	10.8	19.6	72.1	71.2	73.0	12.7	7.4	18.0	3.3	2.2	4.3	2.3	1.6	2.9	8	6	10	94.5	89.1	99.9	
1	Region 33	71.0	-	-	26.7	-	-	9.2	-	-	58.5	-	-	32.3	-	-	2.1	-	-	1.6	-	-	11	-	-	82.2	-	-	
8	Ave. YM3	74.5			30.5			12.6			69.1			18.4			2.6			1.9			7			87.5			
	Min. YM3	71.0			26.7			1.4			58.5			7.4			1.9			1.6			4			79.3			
	Max. YM3	76.5			35.0			19.6			73.0			33.4			4.3			2.9			11			99.9			
CLASS: COM																													
3	Region 25	75.1	73.4	77.6	33.4	30.9	35.3	12.2	4.4	19.2	70.0	66.0	73.0	17.8	14.8	22.6	8.0	3.7	14.0	5.5	2.4	9.9	22	12	28	73.8	68.9	76.8	
1	Region 28	71.3	-	-	29.4	-	-	17.0	-	-	69.3	-	-	13.7	-	-	1.4	-	-	1.1	-	-	0	-	-	75.4	-	-	
2	Region 29	76.4	76.0	76.7	34.6	34.1	35.1	12.4	12.3	12.5	72.2	71.4	72.9	15.5	14.6	16.3	1.9	1.4	2.3	1.5	1.2	1.8	6	3	9	77.1	71.4	82.8	
1	Region 31	71.2	-	-	31.4	-	-	19.8	-	-	71.2	-	-	9.0	-	-	2.3	-	-	1.4	-	-	30	-	-	69.1	-	-	
2	Region 32	73.4	72.8	74.0	28.6	24.7	32.4	4.4	3.5	5.2	70.9	67.1	74.7	24.8	21.8	27.7	4.3	3.6	4.9	3.0	2.5	3.4	31	12	50	79.6	71.6	87.6	
9	Ave. COM	74.1			31.9			11.9			70.7			17.4			4.4			3.1			19			75.5			
	Min. COM	71.2			24.7			3.5			66.0			9.0			1.4			1.1			0			68.9			
	Max. COM	77.6			35.3			19.8			74.7			27.7			14.0			9.9			50			87.6			
479Ave. yellow maize																													
	Min. yellow maize	76.0			31.8			14.9			67.1			18.0			1.9			1.4			7			89.0			
	Max. yellow maize	80.9			43.1			52.7			79.7			2.6			0.1			0.0			0			46.5			
930 Ave. maize																													
	Min. maize	76.8			32.9			19.6			65.9			14.4			1.6			1.2			7			90.9			
	Max. maize	81.9			46.5			71.3			82.7			1.1			0.0			0.0			0			46.5			