

TABLE 10: PHYSICAL QUALITY FACTORS OF WHITE MAIZE ACCORDING TO GRADE (2011/2012)

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.		
GRADE: WM1																									
1	Region 11	78.9	-	-	33.3	-	-	15.8	-	-	19.2	-	-	2.1	-	-	1.0	-	-	2	-	-	100.4	-	-
11	Region 12	79.4	77.7	81.3	32.1	28.3	38.0	19.2	7.0	33.1	15.7	6.2	26.0	0.7	0.2	1.3	0.6	0.0	1.3	4	0	10	100.1	92.5	108.9
36	Region 13	78.9	77.4	80.5	30.2	25.1	37.9	13.7	6.5	34.7	18.3	7.9	39.9	0.7	0.1	1.5	0.5	0.0	1.3	4	0	17	100.9	94.3	107.6
44	Region 14	78.4	75.5	80.9	30.7	20.7	37.3	17.0	2.4	25.9	16.3	8.1	49.2	0.8	0.0	3.2	0.5	0.0	2.5	6	0	16	99.0	84.2	111.7
11	Region 15	79.3	78.0	81.1	32.0	27.2	35.9	26.3	16.3	34.4	10.6	5.2	18.7	0.6	0.2	1.4	0.4	0.1	0.8	6	2	23	93.1	82.8	103.4
30	Region 16	79.4	77.1	80.7	32.5	27.1	39.0	22.9	3.7	37.7	13.7	5.4	44.1	0.6	0.0	1.3	0.4	0.0	0.9	6	2	14	99.2	95.3	109.2
26	Region 17	78.5	73.8	80.2	29.2	25.0	32.7	12.8	7.0	26.8	21.7	8.0	33.9	0.8	0.3	1.5	0.5	0.2	1.1	5	0	10	96.7	71.5	106.0
29	Region 18	78.4	75.6	80.2	31.7	27.7	35.2	18.2	6.7	30.2	16.9	3.2	26.5	0.8	0.2	1.4	0.6	0.0	1.1	6	0	16	95.0	82.0	104.5
20	Region 19	78.8	76.4	81.0	32.2	24.8	37.8	21.0	4.5	47.5	16.0	2.9	39.5	0.8	0.2	2.4	0.6	0.0	1.5	5	2	12	99.1	81.2	117.0
9	Region 20	78.6	76.3	80.1	32.6	28.9	34.8	17.8	9.9	28.7	16.9	9.6	30.0	0.6	0.1	1.5	0.4	0.1	0.8	4	1	9	96.3	87.3	103.5
29	Region 21	78.2	75.6	80.0	28.4	25.6	31.6	15.2	5.5	24.8	19.4	10.5	30.0	0.6	0.1	1.4	0.5	0.0	1.1	4	0	11	93.3	84.6	99.3
37	Region 22	78.3	75.6	80.5	30.5	25.2	34.0	22.3	10.5	36.7	11.7	7.4	18.6	0.8	0.3	2.6	0.6	0.0	2.2	4	0	25	96.3	90.7	102.7
45	Region 23	78.7	76.7	80.8	31.2	23.0	36.5	24.4	5.4	43.5	11.7	6.3	27.2	0.8	0.1	3.1	0.6	0.0	2.8	4	0	14	95.6	88.0	103.9
22	Region 24	78.4	76.4	79.7	31.3	26.5	37.3	21.7	8.1	37.2	13.8	7.3	25.3	0.8	0.2	1.7	0.6	0.2	1.2	6	0	11	93.1	79.8	108.6
6	Region 25	77.7	76.0	79.4	29.8	26.8	32.7	13.6	5.5	23.1	19.0	8.7	39.4	0.8	0.3	2.1	0.5	0.2	1.2	8	3	18	92.6	89.1	97.2
4	Region 26	78.4	76.5	80.7	28.7	26.8	31.3	9.1	7.0	12.6	30.3	19.9	44.2	0.8	0.4	1.3	0.5	0.3	0.7	3	1	3	94.4	83.2	100.9
2	Region 27	76.9	76.5	77.2	28.8	28.0	29.6	11.5	1.2	21.8	28.0	18.8	37.2	1.3	1.2	1.4	0.3	0.1	0.4	3	2	4	84.7	80.7	88.6
15	Region 28	78.0	75.8	81.7	31.9	24.6	40.0	18.0	10.1	31.5	13.8	5.1	21.9	0.6	0.1	2.0	0.4	0.1	1.6	5	0	13	91.2	78.4	102.7
16	Region 29	77.5	73.6	79.4	30.6	23.7	37.9	18.6	1.5	36.7	17.0	2.8	53.3	0.5	0.0	1.2	0.4	0.0	1.2	5	1	13	85.0	69.2	90.7
28	Region 30	77.6	74.1	80.1	31.4	24.4	41.8	17.5	3.6	50.2	18.3	4.1	31.5	0.8	0.0	2.6	0.6	0.0	2.2	5	0	17	89.8	75.4	102.9
8	Region 31	77.5	76.1	78.9	31.5	29.3	34.2	17.3	8.2	27.8	15.6	9.9	23.6	0.5	0.2	1.0	0.4	0.2	0.7	2	1	4	89.1	78.5	96.9
27	Region 32	77.7	74.9	80.6	32.8	28.4	37.0	19.1	2.7	39.8	17.0	4.9	28.4	0.7	0.1	1.8	0.6	0.1	1.2	5	1	14	80.8	67.0	90.6
23	Region 33	76.9	74.6	80.0	30.0	25.0	35.2	17.6	0.8	32.2	15.8	8.8	31.4	0.5	0.2	0.9	0.3	0.0	0.8	4	1	9	77.6	59.0	96.4
32	Region 34	77.7	74.3	79.9	31.9	27.7	36.2	19.7	5.1	34.6	15.3	5.2	40.2	1.0	0.1	2.6	0.7	0.0	2.0	6	0	16	85.0	70.5	103.4
4	Region 35	79.9	78.4	82.0	33.9	30.9	36.9	15.5	4.8	29.4	23.1	7.6	33.8	0.7	0.1	1.3	0.6	0.1	1.0	6	1	11	90.9	78.7	114.2
11	Region 36	78.5	76.4	80.1	37.0	34.6	41.0	21.1	13.9	33.6	11.2	6.2	20.1	1.0	0.7	1.4	0.7	0.5	1.0	10	2	17	98.0	84.8	107.2
526	Ave. WM1	78.3			31.2			18.8			15.9			0.8			0.5			5			93.4		
	Min. WM1				20.7			0.8			2.8			0.0			0.0			0			59.0		
	Max. WM1				41.8			50.2			53.3			3.2			2.8			25			117.0		

TABLE 10: PHYSICAL QUALITY FACTORS OF WHITE MAIZE ACCORDING TO GRADE (2011/2012)
(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		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: WM2																												
2	Region 12	76.7	76.3	77.0	27.3	22.2	32.3	21.0	6.0	36.0	61.3	58.6	64.0	17.7	5.4	30.0	1.1	1.0	1.2	0.4	0.2	0.6	5	3	6	98.5	95.8	101.1
5	Region 13	77.3	74.9	78.9	30.5	27.5	32.5	16.7	8.5	21.3	68.9	65.6	73.6	14.4	7.2	24.4	1.0	0.5	2.1	0.8	0.4	1.7	4	2	9	99.5	85.2	106.5
3	Region 14	77.7	74.6	80.0	33.2	31.0	36.0	19.6	17.6	21.0	63.2	59.3	67.1	17.2	12.6	23.1	1.3	0.9	2.0	1.1	0.4	1.9	14	6	20	96.0	93.2	100.4
2	Region 15	78.5	77.9	79.0	39.6	34.8	44.4	30.0	28.9	31.1	62.1	61.6	62.5	8.0	7.3	8.6	2.1	1.1	3.1	1.3	0.7	2.0	14	8	19	93.1	91.6	94.5
1	Region 17	76.6	-	-	29.3	-	-	11.1	-	-	61.7	-	-	27.2	-	-	1.2	-	-	1.2	-	-	3	-	-	93.7	-	-
4	Region 18	75.0	72.3	77.9	34.1	30.3	39.4	32.9	11.6	63.3	56.2	33.7	66.8	11.0	3.0	21.6	1.9	0.8	3.1	1.3	0.5	2.3	9	1	20	90.6	84.3	99.2
4	Region 19	76.2	75.2	77.5	32.1	27.4	34.5	17.2	6.5	27.6	64.4	61.9	66.9	18.4	10.5	29.7	1.8	1.4	2.2	1.3	0.9	1.5	9	0	15	91.0	82.1	102.8
1	Region 20	73.9	-	-	32.6	-	-	1.6	-	-	71.4	-	-	27.0	-	-	0.1	-	-	0.1	-	-	9	-	-	86.1	-	-
2	Region 21	77.8	77.7	77.8	27.8	27.3	28.2	7.2	4.9	9.4	56.8	52.4	61.1	36.1	29.5	42.7	0.9	0.8	0.9	0.5	0.3	0.7	4	2	6	103.0	99.0	107.0
3	Region 22	77.2	76.8	77.9	29.1	28.5	29.6	18.0	16.1	19.6	65.1	64.1	66.5	16.9	13.9	19.8	0.9	0.5	1.3	0.5	0.4	0.5	4	2	6	90.6	87.7	93.3
4	Region 23	78.2	77.6	78.8	32.7	30.9	34.4	24.2	20.9	27.2	64.8	64.1	65.7	11.0	8.7	14.7	1.9	0.4	5.3	1.4	0.3	3.9	7	3	9	90.2	86.4	94.1
3	Region 26	76.3	75.0	78.4	24.2	21.1	27.8	3.2	1.2	6.6	50.8	36.4	58.7	46.0	36.1	62.4	1.2	0.8	1.9	0.7	0.3	1.1	11	3	24	94.7	90.9	97.0
2	Region 28	74.4	73.7	75.1	29.7	25.4	34.0	9.7	6.1	13.2	62.9	59.4	66.3	27.5	20.5	34.5	2.3	0.6	4.1	1.5	0.0	3.0	12	4	20	85.1	84.5	85.6
3	Region 29	75.9	74.8	78.0	25.6	17.4	32.8	10.1	1.4	18.3	52.4	26.2	68.0	37.5	13.7	72.4	0.9	0.6	1.5	0.4	0.3	0.5	5	2	9	88.2	83.1	93.2
4	Region 30	75.7	73.9	78.2	33.0	21.7	43.6	31.7	19.9	48.8	53.7	45.8	61.9	14.7	5.4	31.6	3.2	0.7	8.6	1.8	0.2	4.9	10	2	19	89.5	83.4	93.0
1	Region 33	76.5	-	-	35.0	-	-	29.2	-	-	59.9	-	-	10.9	-	-	3.1	-	-	1.9	-	-	16	-	-	96.9	-	-
2	Region 36	77.5	77.4	77.6	36.8	35.3	38.3	20.9	8.4	33.4	64.2	58.0	70.3	15.0	8.6	21.3	2.3	1.1	3.4	1.8	0.9	2.6	7	6	8	91.1	82.0	100.1
46	Ave. WM2	76.6			31.2			19.1			60.9			20.0			1.6			1.1			8			92.8		
	Min. WM2	72.3			17.4			1.2			26.2			3.0			0.1			0.0			0			82.0		
	Max. WM2	80.0			44.4			63.3			73.6			72.4			8.6			4.9			24			107.0		

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(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.	ave.	min.	max.	ave.							min.	max.			
GRADE: WM3																												
1	Region 19	73.7	-	-	27.5	-	-	7.0	-	-	64.5	-	-	28.5	-	-	1.6	-	-	1.3	-	-	7	-	-	93.7	-	-
1	Region 20	74.6	-	-	24.1	-	-	5.7	-	-	68.5	-	-	25.8	-	-	1.5	-	-	0.7	-	-	9	-	-	82.8	-	-
2	Region 23	73.7	71.8	75.6	30.5	29.3	31.6	23.3	20.4	26.2	68.1	67.2	69.0	8.6	6.6	10.6	3.0	1.5	4.4	2.4	1.2	3.6	16	13	18	91.6	85.9	97.2
4	Ave. WM3	73.9			28.1			14.8			67.3			17.9			2.3			1.7			12			89.9		
	Min. WM3	71.8			24.1			5.7			64.5			6.6			1.5			0.7			7			82.8		
	Max. WM3	75.6			31.6			26.2			69.0			28.5			4.4			3.6			18			97.2		
CLASS: COM																												
1	Region 19	76.9	-	-	36.2	-	-	24.5	-	-	62.5	-	-	13.0	-	-	1.8	-	-	1.4	-	-	10	-	-	107.7	-	-
1	Ave. COM	76.9			36.2			24.5			62.5			13.0			1.8			1.4			10			107.7		
	Min. COM	-			-			-			-			-			-			-			-			-		
	Max. COM	-			-			-			-			-			-			-			-			-		
577	Ave. white maize	78.2			31.2			18.8			64.9			16.3			0.8			0.6			5			93.3		
	Min. white maize	71.8			17.4			0.8			26.2			2.8			0.0			0.0			0			59.0		
	Max. white maize	82.0			44.4			63.3			79.7			72.4			8.6			4.9			25			117.0		
1000	Ave. maize	77.3			30.4			15.6			64.5			19.9			1.0			0.7			6			91.0		
	Min. maize	68.1			14.5			0.0			13.7			2.8			0.0			0.0			0			53.0		
	Max. maize	82.0			44.4			63.3			79.7			86.3			15.6			8.3			27			117.0		