

TABLE 12: PHYSICAL QUALITY FACTORS OF WHITE MAIZE ACCORDING TO GRADE (2008/2009)

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		< 6.3 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: WM 1																												
1	Region 11	80.9	80.9	80.9	32.8	32.8	32.8	1.8	1.8	1.8	50.1	50.1	50.1	48.1	48.1	48.1	1.1	1.1	1.1	0.8	0.8	0.8	1	1	1	100.7	100.7	100.7
13	Region 12	78.0	74.4	80.1	35.1	29.6	37.5	26.0	10.5	36.2	63.7	58.3	71.7	10.2	5.1	17.8	1.5	0.7	3.3	1.1	0.3	2.0	3	0	7	94.4	79.7	103.5
16	Region 13	77.5	76.0	79.1	34.3	32.1	36.8	28.6	19.0	35.2	61.7	55.0	67.1	9.7	4.8	14.8	1.1	0.4	2.1	0.8	0.3	1.6	3	1	5	90.4	82.7	98.2
35	Region 14	78.8	75.3	82.8	35.3	28.0	38.4	31.1	14.9	41.6	59.6	49.8	69.5	9.3	3.8	18.0	1.1	0.3	2.4	0.8	0.2	1.7	3	0	13	98.1	91.2	111.9
23	Region 15	79.4	76.2	80.5	34.6	29.8	36.6	31.0	16.2	43.4	60.6	52.5	71.1	8.3	2.9	15.3	1.0	0.4	2.7	0.7	0.2	2.3	4	1	19	98.8	92.2	106.0
38	Region 16	78.3	74.6	81.3	35.7	31.2	43.4	27.9	1.7	42.4	62.6	52.0	77.9	9.6	2.9	37.8	1.4	0.5	4.3	1.1	0.3	4.1	3	0	13	94.3	82.2	106.0
31	Region 17	76.1	70.1	79.0	34.2	30.3	39.8	25.3	6.4	42.5	64.2	49.9	79.2	10.5	2.1	23.2	1.9	0.9	3.4	1.5	0.5	2.8	4	0	10	93.0	79.1	115.4
10	Region 18	77.1	75.0	78.4	35.9	31.4	38.4	27.7	18.7	34.5	63.4	57.8	69.6	8.9	5.1	14.4	1.8	0.9	3.3	1.4	0.4	2.9	5	0	18	97.7	87.9	106.0
6	Region 19	77.6	76.8	78.2	35.5	33.8	39.0	30.1	25.3	35.8	62.8	59.1	66.0	7.2	4.0	9.4	1.2	0.9	1.7	0.9	0.7	1.3	5	3	6	98.1	89.7	106.7
15	Region 20	77.2	74.3	78.7	34.7	31.3	40.1	25.6	8.8	36.3	64.5	57.6	75.6	9.9	4.8	15.6	1.7	0.6	3.1	1.3	0.5	2.4	7	0	31	91.7	81.7	103.7
24	Region 21	77.9	76.4	79.8	35.1	31.0	42.8	24.9	12.8	33.3	64.9	59.1	76.4	10.1	5.3	15.7	1.6	0.6	2.8	1.3	0.6	2.4	3	0	10	94.3	87.2	106.3
19	Region 22	78.5	77.3	80.7	35.8	32.1	38.0	31.5	16.4	43.1	60.9	54.3	73.5	7.6	2.6	14.4	1.1	0.5	2.4	0.8	0.3	2.2	1	0	8	98.1	91.4	103.1
27	Region 23	78.5	74.2	80.3	35.4	31.0	44.0	28.2	15.1	39.2	63.2	55.1	75.9	8.6	5.4	14.0	1.4	0.7	3.0	1.1	0.4	2.1	3	0	16	95.8	74.0	105.9
16	Region 24	77.1	61.6	79.9	35.3	27.9	40.5	22.5	0.5	39.0	63.6	48.5	74.8	13.9	4.2	51.0	1.9	0.6	6.1	1.4	0.4	3.6	5	0	15	91.7	80.7	106.5
11	Region 25	76.6	75.2	78.8	33.0	29.1	36.5	18.7	12.2	27.4	68.5	65.2	72.2	12.8	6.1	17.3	1.0	0.2	2.2	0.8	0.1	1.7	2	0	5	84.6	70.0	98.4
17	Region 26	76.7	73.6	79.9	33.3	30.5	36.6	20.9	12.4	40.9	66.0	52.1	76.6	13.1	7.0	24.8	1.6	0.5	3.7	1.2	0.4	2.7	4	0	16	92.2	72.5	100.3
6	Region 27	77.2	76.0	78.5	35.2	34.2	36.3	25.8	17.3	31.0	64.5	58.0	70.8	9.8	6.6	11.9	4.2	1.1	7.3	2.6	0.7	4.3	24	1	50	89.9	83.5	96.9
22	Region 28	77.5	73.9	79.1	34.8	31.6	37.7	24.3	13.1	37.4	65.6	57.1	74.1	10.2	5.5	19.2	1.3	0.4	4.3	1.0	0.2	3.9	8	2	23	89.9	82.8	96.2
28	Region 29	77.3	72.8	80.7	35.0	27.1	39.8	25.9	10.6	46.4	62.6	43.1	74.0	11.5	4.6	30.5	1.2	0.4	4.2	0.9	0.2	3.9	3	0	15	93.9	72.1	106.3
18	Region 30	77.6	75.9	79.0	34.6	31.5	38.3	19.1	4.5	43.0	66.6	46.8	78.4	14.3	4.7	36.5	1.5	0.4	6.3	1.0	0.1	4.2	9	2	33	94.7	82.4	107.8
12	Region 31	77.7	74.1	79.2	37.5	31.4	40.9	15.3	4.5	30.0	71.3	63.3	84.0	13.4	5.9	24.0	1.1	0.4	2.2	1.0	0.4	2.0	5	0	11	93.6	85.1	102.3
18	Region 32	77.9	76.3	79.4	36.8	33.3	40.1	29.4	22.8	42.0	62.0	52.7	69.0	8.6	5.3	11.1	1.2	0.3	2.6	0.9	0.2	2.3	6	0	20	89.9	78.6	107.5
1	Region 33	77.2	77.2	77.2	34.1	34.1	34.1	34.9	34.9	34.9	59.0	59.0	59.0	6.1	6.1	6.1	0.6	0.6	0.6	0.5	0.5	0.5	2	2	2	83.7	83.7	83.7
10	Region 34	77.9	73.8	79.8	36.2	34.1	38.7	30.8	2.7	45.2	59.1	50.4	67.7	10.1	4.4	29.6	1.2	0.3	2.4	0.9	0.2	1.8	5	1	16	89.7	70.6	100.2
9	Region 35	77.0	74.5	80.6	35.3	32.6	39.7	26.2	11.6	33.5	63.5	57.8	69.1	10.4	5.8	25.3	0.9	0.2	1.7	0.6	0.2	1.1	4	2	10	97.3	89.1	105.3
14	Region 36	76.7	74.0	78.0	34.0	31.1	37.4	17.9	4.3	26.0	66.5	59.6	80.0	15.6	9.2	22.5	1.4	0.3	2.4	1.1	0.3	1.7	10	2	24	98.6	89.0	103.6
440	Ave WM 1	77.7			35.1			26.0			63.4			10.5			1.4			1.1			5			94.1		
	Min WM 1				27.1			0.5			43.1			2.1			0.2			0.1			0			70.0		
	Max WM 1				44.0			46.4			84.0			51.0			7.3			4.3			50			115.4		

**TABLE 12: PHYSICAL QUALITY FACTORS OF WHITE MAIZE ACCORDING TO GRADE (2008/2009)
(continue)**

Number of samples	Region	Hectolitre mass (kg/htl)			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	< 6.3 mm sieve			< 4.75 mm sieve			ave.	min.	max.	ave.	min.	max.						
GRADE: WM 2																												
2	Region 12	77.1	76.9	77.2	35.3	34.7	35.9	32.8	29.2	36.3	56.8	56.5	57.1	10.5	7.2	13.7	2.0	1.3	2.6	1.4	0.8	2.0	6	5	7	90.6	88.3	92.9
1	Region 13	77.2	77.2	77.2	32.6	32.6	32.6	29.5	29.5	29.5	61.1	61.1	61.1	9.4	9.4	9.4	1.0	1.0	1.0	0.8	0.8	0.8	3	3	3	91.4	91.4	91.4
1	Region 14	79.0	79.0	79.0	35.2	35.2	35.2	33.7	33.7	33.7	59.5	59.5	59.5	6.8	6.8	6.8	1.1	1.1	1.1	0.7	0.7	0.7	5	5	5	100.6	100.6	100.6
2	Region 15	78.4	78.4	78.4	33.8	32.6	35.0	30.4	25.7	35.0	61.2	58.0	64.4	8.5	7.0	9.9	1.9	0.9	2.8	1.3	0.8	1.7	7	0	13	100.9	98.8	102.9
2	Region 16	77.3	75.9	78.7	36.0	34.6	37.4	34.7	30.2	39.2	58.1	52.0	64.2	7.2	5.6	8.8	1.2	0.9	1.4	0.9	0.8	0.9	6	3	8	87.5	87.4	87.5
2	Region 17	76.8	76.3	77.3	32.5	32.2	32.7	27.4	25.9	28.9	62.0	60.0	63.9	10.7	10.2	11.1	1.5	1.4	1.6	1.0	0.7	1.2	2	1	3	88.9	88.6	89.2
3	Region 19	77.3	76.3	78.4	35.7	33.2	37.1	31.1	21.9	43.3	60.8	49.2	69.0	8.1	7.5	9.1	1.7	1.7	1.7	1.2	0.9	1.4	2	0	5	93.1	90.9	94.7
2	Region 20	77.5	77.0	77.9	35.3	33.3	37.2	25.2	21.6	28.8	66.1	64.6	67.5	8.8	6.6	10.9	1.8	1.6	2.0	1.6	1.5	1.7	4	3	4	96.3	89.0	103.5
3	Region 23	77.7	76.9	78.5	35.1	34.0	35.8	28.1	19.3	33.8	62.7	56.5	71.1	9.2	5.7	12.3	1.7	1.2	2.5	1.2	0.8	1.9	2	1	4	98.1	95.9	102.2
1	Region 25	76.2	76.2	76.2	32.9	32.9	32.9	15.4	15.4	15.4	63.1	63.1	63.1	21.5	21.5	21.5	2.7	2.7	2.7	1.9	1.9	1.9	5	5	5	81.5	81.5	81.5
2	Region 26	75.5	74.9	76.1	31.5	31.1	31.9	24.4	20.1	28.6	64.9	61.6	68.1	10.8	9.8	11.8	2.0	1.8	2.2	1.1	1.0	1.1	3	0	5	79.0	75.4	82.6
3	Region 28	77.5	75.8	79.7	33.2	30.9	34.9	21.7	20.2	22.8	64.8	63.6	67.2	13.5	10.8	16.2	1.9	1.4	2.8	1.4	1.2	1.7	7	3	14	92.7	89.1	96.0
3	Region 29	77.2	74.7	78.6	35.5	28.9	39.1	30.9	17.4	39.4	58.6	48.1	69.9	10.5	6.4	12.7	2.0	1.6	2.7	1.5	1.1	1.9	7	1	11	89.3	77.9	98.0
4	Region 30	76.8	75.4	78.8	36.9	33.6	40.8	30.5	11.0	43.3	58.4	47.0	65.6	11.1	3.3	23.4	5.6	0.5	11.7	3.9	0.2	8.7	23	5	39	91.9	70.4	104.3
1	Region 32	75.1	75.1	75.1	34.5	34.5	34.5	18.0	18.0	18.0	73.1	73.1	73.1	8.9	8.9	8.9	2.3	2.3	2.3	2.0	2.0	2.0	3	3	3	80.7	80.7	80.7
2	Region 34	75.2	74.3	76.1	35.0	32.3	37.6	28.8	14.2	43.3	60.7	49.5	71.8	10.6	7.2	14.0	2.0	1.5	2.4	1.5	1.1	1.8	2	1	2	86.6	82.3	90.9
2	Region 36	75.5	74.4	76.5	34.8	33.3	36.3	19.4	18.9	19.8	64.4	61.1	67.7	16.3	12.5	20.0	3.0	1.5	4.5	2.6	1.2	3.9	9	4	14	99.0	96.1	101.8
36	Ave WM 2	76.9			34.7			27.8			61.6			10.6			2.3			1.6			7			91.6		
	Min WM 2	74.3			28.9			11.0			47.0			3.3			0.5			0.2			0			70.4		
	Max WM 2	79.7			40.8			43.3			73.1			23.4			11.7			8.7			39			104.3		

**TABLE 12: PHYSICAL QUALITY FACTORS OF WHITE MAIZE ACCORDING TO GRADE (2008/2009)
(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		< 6.3 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: WM 3																												
1	Region 16	79.4	79.4	79.4	40.5	40.5	40.5	39.1	39.1	39.1	55.5	55.5	55.5	5.4	5.4	5.4	2.4	2.4	2.4	1.6	1.6	1.6	2	2	2	100.5	100.5	100.5
1	Region 19	75.4	75.4	75.4	39.6	39.6	39.6	24.8	24.8	24.8	68.8	68.8	68.8	6.4	6.4	6.4	1.7	1.7	1.7	1.3	1.3	1.3	1	1	1	94.9	94.9	94.9
1	Region 25	73.8	73.8	73.8	33.1	33.1	33.1	33.3	33.3	33.3	56.9	56.9	56.9	9.8	9.8	9.8	10.8	10.8	10.8	8.1	8.1	8.1	29	29	29	82.9	82.9	82.9
1	Region 36	75.2	75.2	75.2	34.1	34.1	34.1	4.4	4.4	4.4	75.0	75.0	75.0	20.6	20.6	20.6	3.3	3.3	3.3	2.6	2.6	2.6	4	4	4	98.4	98.4	98.4
4	Ave WM 3	76.0			36.8			25.4			64.1			10.6			4.6			3.4			9			94.2		
	Min WM 3	73.8			33.1			4.4			55.5			5.4			1.7			1.3			1			82.9		
	Max WM 3	79.4			40.5			39.1			75.0			20.6			10.8			8.1			29			100.5		
GRADE: COM																												
2	Region 17	72.9	71.8	74.0	34.3	33.5	35.0	33.8	26.8	40.7	59.6	56.3	62.9	6.7	3.0	10.3	1.9	1.8	1.9	1.2	1.1	1.3	6	2	9	101.5	97.1	105.9
1	Region 28	74.3	74.3	74.3	38.7	38.7	38.7	22.9	22.9	22.9	69.9	69.9	69.9	7.2	7.2	7.2	0.9	0.9	0.9	0.7	0.7	0.7	13	13	13	93.7	93.7	93.7
3	Ave COM	73.4			35.7			30.1			63.0			6.8			1.5			1.0			8			98.9		
	Min COM	71.8			33.5			22.9			56.3			3.0			0.9			0.7			2			93.7		
	Max COM	74.3			38.7			40.7			69.9			10.3			1.9			1.3			13			105.9		
483 Ave white maize																												
	Min white maize	61.6			27.1			0.5			43.1			2.1			0.2			0.1			0			70.0		
	Max white maize	82.8			44.0			46.4			84.0			51.0			11.7			8.7			50			115.4		
810 Ave maize																												
	Min maize	61.6			24.2			0.5			43.1			1.6			0.1			0.0			0			68.6		
	Max maize	82.8			45.4			52.8			84.0			51.0			11.7			9.9			50			115.4		