

TABLE 9: PHYSICAL QUALITY FACTORS OF WHITE MAIZE ACCORDING TO GRADE (2012/2013)

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		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: WM1																																										
3	Region 11	81.6	80.8	82.2	32.2	29.6	34.3	2.7	1.8	3.4	57.5	52.2	60.6	39.8	36.0	44.8	1.5	1.2	2.0	1.0	0.7	1.2	7	1	11	109.9	108.4	112.8														
5	Region 12	79.3	77.1	80.5	27.3	22.9	30.9	11.0	7.3	15.8	64.7	53.7	69.9	24.3	14.3	34.3	1.0	0.7	1.3	0.6	0.4	0.9	3	1	8	109.5	103.6	114.8														
5	Region 13	78.4	77.7	79.2	23.6	20.9	25.9	6.7	3.8	11.5	62.0	49.9	68.8	31.2	19.7	46.3	0.8	0.4	1.5	0.3	0.2	0.6	3	1	7	104.5	97.8	111.1														
14	Region 14	77.9	72.6	79.7	26.2	18.3	35.0	8.7	0.7	18.1	61.7	41.5	78.3	29.6	9.1	57.8	1.1	0.7	2.1	0.6	0.1	1.5	6	1	20	105.7	87.5	117.2														
8	Region 15	80.5	79.7	81.3	29.7	26.0	32.0	20.4	11.7	24.1	66.4	62.8	70.4	13.2	10.2	17.9	0.9	0.6	1.6	0.5	0.2	1.2	3	1	6	103.3	97.8	111.0														
16	Region 16	79.7	77.7	81.6	27.8	21.5	31.4	13.8	3.6	23.4	63.5	48.1	72.4	22.7	8.5	48.3	0.6	0.3	1.1	0.4	0.2	0.7	5	0	9	105.6	95.5	110.3														
7	Region 17	78.1	76.2	80.1	26.1	24.4	28.0	9.4	4.4	18.9	62.6	60.2	64.7	27.9	18.1	34.9	0.8	0.2	1.1	0.4	0.0	0.7	4	1	8	102.2	97.2	112.0														
11	Region 18	78.5	76.2	82.9	28.1	23.3	33.9	10.0	2.1	28.5	65.9	58.0	75.8	24.0	7.5	39.9	1.1	0.3	1.7	0.7	0.0	1.2	6	1	17	98.1	91.0	110.8														
10	Region 19	78.7	74.9	81.6	27.3	22.3	33.2	7.6	1.0	14.5	61.9	44.3	71.0	30.5	15.7	54.7	1.1	0.6	1.6	0.7	0.3	1.3	4	1	7	106.1	102.2	112.1														
7	Region 20	78.1	75.6	80.4	30.7	25.4	38.3	11.0	6.9	16.1	68.3	63.5	75.9	20.7	15.3	27.6	1.6	0.8	2.2	1.1	0.4	1.9	4	2	8	99.7	90.3	111.0														
34	Region 21	78.5	72.9	80.4	28.0	21.6	41.2	11.2	3.3	23.1	67.1	56.2	77.5	21.7	10.9	37.3	1.1	0.1	2.3	0.7	0.1	1.6	4	0	11	101.1	88.6	115.3														
29	Region 22	79.2	77.6	80.5	29.1	25.4	31.3	15.8	1.2	24.3	66.8	61.4	72.7	17.5	11.1	33.7	0.7	0.2	1.2	0.5	0.2	0.9	2	0	9	98.0	88.6	104.8														
49	Region 23	79.6	74.4	81.5	30.3	21.4	37.6	18.4	2.1	27.6	67.5	50.1	75.6	14.1	6.6	46.1	1.0	0.1	2.6	0.8	0.1	2.3	3	0	16	103.0	81.2	119.5														
24	Region 24	78.5	76.7	80.9	26.3	22.6	31.9	14.3	1.0	30.1	63.9	59.0	71.9	21.9	6.8	34.8	0.8	0.1	2.3	0.4	0.1	1.0	2	0	8	94.0	80.4	113.6														
5	Region 25	75.6	70.9	78.8	28.1	22.4	31.7	10.9	1.9	17.0	67.8	63.1	74.3	21.3	10.9	33.8	1.3	0.3	2.1	1.1	0.7	1.5	7	4	10	79.0	47.3	92.2														
14	Region 26	78.1	75.5	79.6	27.1	23.7	31.0	10.8	3.2	25.3	63.2	52.5	72.4	26.0	12.7	42.1	0.8	0.2	1.4	0.5	0.2	1.0	3	1	7	97.2	88.7	105.8														
4	Region 27	75.5	74.9	76.9	29.0	27.8	31.1	12.9	1.2	25.7	58.2	46.2	68.6	28.9	14.5	52.6	2.4	1.1	3.6	1.6	0.9	2.4	4	0	7	98.6	94.5	103.7														
14	Region 28	77.7	74.9	80.4	32.3	23.6	46.0	16.3	5.3	30.1	68.2	59.7	78.7	15.5	5.8	25.7	0.8	0.3	1.3	0.6	0.2	0.9	4	0	13	92.0	74.5	100.9														
15	Region 29	79.2	76.6	82.2	33.2	27.7	40.3	15.8	2.2	34.2	66.8	59.9	74.8	17.4	4.4	37.9	0.8	0.1	1.4	0.6	0.0	1.1	5	0	14	103.6	94.3	114.3														
19	Region 30	77.8	75.8	80.0	33.2	28.2	40.3	20.9	5.0	39.3	64.1	54.5	71.3	15.0	5.6	33.1	0.6	0.2	1.3	0.5	0.1	1.3	3	0	11	91.4	84.7	98.9														
26	Region 31	77.7	75.7	79.9	33.4	26.3	41.0	20.3	5.0	59.9	62.9	38.0	80.5	17.1	3.1	38.8	1.3	0.2	5.1	0.9	0.1	2.8	4	0	14	92.9	67.4	106.9														
30	Region 32	77.5	71.0	81.1	31.9	25.0	37.0	20.6	2.0	49.2	63.8	47.1	75.8	15.6	3.7	37.5	0.8	0.0	2.0	0.5	0.0	1.5	5	0	20	86.8	74.1	105.3														
28	Region 33	76.8	71.9	80.2	28.5	23.2	35.8	16.2	3.1	32.6	66.3	55.3	79.6	17.5	6.0	27.6	0.8	0.1	2.8	0.6	0.0	1.8	4	0	18	84.3	65.1	104.0														
34	Region 34	78.3	75.6	80.4	31.1	26.1	36.7	14.6	4.1	32.8	68.6	57.7	76.1	16.8	7.4	35.2	1.0	0.4	2.3	0.8	0.2	1.8	5	0	12	95.4	82.8	108.7														
6	Region 35	77.8	76.6	79.6	30.2	25.3	35.0	20.0	6.0	26.1	62.6	50.3	68.7	17.4	8.0	35.6	1.4	0.6	2.5	0.8	0.3	1.1	9	4	21	94.9	82.0	106.5														
14	Region 36	77.1	73.2	79.0	33.7	28.4	41.2	14.2	6.5	35.8	69.8	59.8	80.5	15.9	4.4	21.8	1.4	0.4	3.3	1.1	0.4	2.4	10	2	24	95.4	86.2	104.5														
431	Ave. WM1	78.4	70.9	82.9	29.8	18.3	46.0	15.2	0.7	59.9	65.6	38.0	80.5	19.3	3.1	57.8	1.0	0.0	5.1	0.7	0.0	2.8	4	0	24	97.0	47.3	119.5														
	Min. WM1																																									
	Max. WM1																																									

TABLE 9: PHYSICAL QUALITY FACTORS OF WHITE MAIZE ACCORDING TO GRADE (2012/2013)
(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: WM2																									
1	Region 11	81.4	-	-	27.9	-	-	0.0	-	-	44.2	-	-	55.8	-	-	1.5	-	-	8	-	-	108.5	-	-
3	Region 12	79.5	77.7	80.7	28.5	26.2	30.4	8.1	3.5	15.3	61.0	51.3	67.4	30.9	20.3	45.2	1.2	1.0	1.5	4	1	8	108.3	102.7	111.3
5	Region 13	77.5	75.7	78.9	21.2	17.7	25.2	5.4	2.4	9.3	51.6	36.2	61.4	43.0	29.3	61.4	1.4	0.9	1.7	4	2	9	103.3	92.2	115.3
2	Region 14	78.1	76.3	79.8	25.2	21.0	29.3	7.0	3.8	10.2	56.3	44.5	68.0	36.8	21.8	51.7	1.3	1.0	1.5	3	2	3	104.5	100.5	108.4
2	Region 15	80.5	80.2	80.8	29.1	28.7	29.5	14.6	14.3	14.8	69.1	68.1	70.1	16.4	15.1	17.6	0.9	0.5	1.2	6	5	7	103.5	102.4	104.5
2	Region 17	75.2	73.9	76.4	21.9	19.0	24.8	6.1	3.5	8.7	50.5	39.1	61.8	43.5	29.5	57.4	2.0	0.8	3.1	14	3	24	96.3	89.7	102.8
2	Region 18	78.3	76.8	79.7	29.4	24.8	33.9	16.7	8.0	25.4	63.4	58.7	68.0	20.0	6.6	33.3	1.6	1.3	1.8	8	7	9	102.9	99.2	106.6
1	Region 19	73.5	-	-	27.9	-	-	11.6	-	-	73.5	-	-	14.9	-	-	1.1	-	-	3	-	-	106.9	-	-
3	Region 20	77.9	76.8	79.4	29.2	26.4	32.2	13.2	8.0	17.1	67.4	65.1	71.0	19.4	14.5	26.9	1.3	0.8	1.7	5	4	7	101.9	92.0	108.2
1	Region 21	79.1	-	-	28.8	-	-	14.9	-	-	66.5	-	-	18.6	-	-	0.9	-	-	6	-	-	103.7	-	-
3	Region 22	79.6	77.2	81.9	29.8	29.2	30.2	8.5	2.3	20.8	66.9	65.7	68.0	24.5	12.1	32.0	0.6	0.2	0.8	1	0	3	100.1	96.0	104.4
4	Region 23	79.7	78.5	80.3	30.0	26.9	32.8	18.1	10.7	22.3	68.7	66.7	71.4	13.2	11.0	17.9	0.9	0.7	1.6	2	1	3	99.5	85.5	106.7
3	Region 25	75.5	73.0	76.9	24.6	21.8	26.3	8.2	4.2	11.7	64.0	63.4	64.5	27.8	24.2	32.4	0.9	0.6	1.4	6	2	8	83.3	71.6	90.6
4	Region 26	76.4	75.2	77.7	25.4	19.0	29.6	7.1	0.3	19.8	48.9	16.2	66.8	44.1	18.5	83.5	1.9	0.8	2.8	4	0	10	93.7	87.9	103.8
1	Region 27	76.7	-	-	31.6	-	-	14.2	-	-	67.7	-	-	18.1	-	-	6.6	-	-	15	-	-	101.3	-	-
1	Region 29	79.5	-	-	44.1	-	-	3.5	-	-	63.4	-	-	33.1	-	-	0.3	-	-	8	-	-	107.2	-	-
2	Region 31	75.3	75.0	75.6	34.5	33.8	35.2	18.0	15.7	20.3	69.0	64.2	73.7	13.1	10.6	15.5	4.2	3.6	4.8	7	3	10	95.0	87.1	102.8
3	Region 32	76.0	74.7	76.9	34.2	33.3	35.2	35.3	15.4	54.9	55.2	39.3	75.6	9.5	5.8	13.6	1.4	0.5	2.3	7	2	11	80.5	66.8	94.8
6	Region 33	75.4	72.3	77.8	30.2	23.2	39.0	24.8	12.6	38.6	59.7	50.4	67.8	15.5	5.7	37.0	2.0	0.4	5.4	9	0	37	87.2	78.7	93.0
5	Region 34	78.0	76.5	80.0	32.9	29.3	40.1	24.6	14.6	50.0	63.4	46.3	72.0	12.1	3.7	16.8	1.4	0.5	2.0	5	1	8	93.7	87.5	98.7
1	Region 35	78.9	-	-	29.4	-	-	23.2	-	-	55.5	-	-	21.3	-	-	1.5	-	-	8	-	-	112.6	-	-
5	Region 36	77.4	75.9	79.2	31.2	25.1	34.5	15.1	8.7	25.7	67.4	60.3	70.1	17.5	9.7	23.2	2.1	1.2	2.4	10	5	14	94.6	85.6	105.4
60	Ave. WM2	77.5			29.0			14.8	0.0	54.9	61.2	16.2	75.6	24.0	3.7	83.5	1.6	0.2	6.6	6	0	37	97.0	66.8	115.3
	Min. WM2	72.3			17.7			0.0		54.9	16.2	75.6	24.0	3.7	83.5	1.6	0.2	6.6				0.1	4.6		
	Max. WM2	81.9			44.1					54.9	75.6	75.6	75.6	83.5	83.5	83.5	83.5	83.5	6.6						

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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																												
2	Region 13	78.6	77.8	79.3	18.9	18.2	19.6	3.1	0.6	5.5	40.6	36.1	45.0	56.4	49.5	63.3	1.8	1.4	2.1	0.4	0.3	0.4	2	1	3	108.6	103.4	113.8
1	Region 16	80.1	-	-	30.5	-	-	22.7	-	-	68.2	-	-	9.1	-	-	0.4	-	-	0.1	-	-	5	-	-	108.5	-	-
2	Region 17	76.7	74.5	78.8	21.0	17.7	24.3	4.0	1.2	6.7	53.0	35.6	70.4	43.1	22.9	63.2	1.3	1.2	1.3	0.5	0.4	0.5	2	1	3	100.4	94.0	106.7
1	Region 19	77.6	-	-	22.2	-	-	4.6	-	-	62.0	-	-	33.4	-	-	1.1	-	-	0.7	-	-	1	-	-	105.4	-	-
1	Region 22	76.8	-	-	27.6	-	-	15.0	-	-	71.3	-	-	13.7	-	-	0.4	-	-	0.3	-	-	5	-	-	90.4	-	-
1	Region 24	78.3	-	-	32.1	-	-	20.2	-	-	69.4	-	-	10.4	-	-	0.6	-	-	0.5	-	-	2	-	-	102.1	-	-
1	Region 25	75.9	-	-	32.3	-	-	28.2	-	-	65.2	-	-	6.6	-	-	0.9	-	-	0.6	-	-	2	-	-	91.2	-	-
1	Region 29	80.3	-	-	36.8	-	-	28.6	-	-	61.9	-	-	9.5	-	-	2.0	-	-	1.5	-	-	15	-	-	107.2	-	-
1	Region 31	72.3	-	-	22.5	-	-	10.6	-	-	67.5	-	-	21.9	-	-	1.0	-	-	0.6	-	-	7	-	-	79.1	-	-
2	Region 34	77.7	75.7	79.7	31.9	30.9	32.8	16.2	11.3	21.1	71.7	65.5	77.8	12.2	10.9	13.4	2.2	1.2	3.2	1.8	0.9	2.6	7	3	10	90.4	85.9	94.8
13	Ave. WM3	77.5	-	-	26.7	-	-	13.6	0.6	28.6	61.2	35.6	77.8	25.2	6.6	63.2	1.3	0.4	3.2	0.7	0.1	2.6	4	1	15	98.7	79.1	113.8
	Min. WM3	72.3	-	-	17.7	-	-	36.8	-	-	35.6	77.8	77.8	63.2	-	-	3.2	-	-	0.1	-	-	-	-	-	-	-	-
	Max. WM3	80.3	-	-	36.8	-	-	36.8	-	-	77.8	77.8	77.8	63.2	-	-	3.2	-	-	0.1	-	-	-	-	-	-	-	-
CLASS: COM																												
2	Region 23	79.3	78.8	79.8	29.9	28.0	31.8	13.7	10.1	17.2	70.3	69.9	70.6	16.1	12.9	19.3	1.2	1.2	1.2	0.8	0.8	0.8	3	1	5	109.6	105.3	113.9
1	Region 25	69.7	-	-	22.3	-	-	7.0	-	-	70.7	-	-	22.3	-	-	1.4	-	-	1.2	-	-	2	-	-	77.2	-	-
1	Region 32	79.4	-	-	34.9	-	-	26.5	-	-	60.8	-	-	12.7	-	-	0.4	-	-	0.4	-	-	6	-	-	87.2	-	-
4	Ave. COM	76.9	-	-	29.3	-	-	15.2	7.0	26.5	68.0	60.8	70.7	16.8	12.7	22.3	1.1	0.4	1.4	0.8	0.4	1.2	4	1	6	95.9	77.2	113.9
	Min. COM	69.7	-	-	22.3	-	-	34.9	-	-	60.8	70.7	70.7	12.7	22.3	22.3	0.4	-	-	0.4	-	-	-	-	-	-	-	-
	Max. COM	79.8	-	-	34.9	-	-	34.9	-	-	70.7	70.7	70.7	22.3	22.3	22.3	1.4	-	-	1.2	-	-	-	-	-	-	-	-
508	Ave. white maize	78.2	-	-	29.6	-	-	15.1	0.0	59.9	65.0	16.2	80.5	20.0	3.1	83.5	1.0	0.0	6.6	0.7	0.0	4.6	4	0	37	97.0	47.3	119.5
	Min. white maize	69.7	-	-	17.7	-	-	46.0	-	-	16.2	80.5	80.5	3.1	83.5	83.5	0.0	-	6.6	0.0	-	4.6	-	-	-	-	-	-
	Max. white maize	82.9	-	-	46.0	-	-	46.0	-	-	80.5	80.5	80.5	3.1	83.5	83.5	6.6	-	6.6	0.0	-	4.6	-	-	-	-	-	-
1000	Ave. maize	77.4	-	-	29.0	-	-	12.5	0.0	59.9	63.4	10.1	80.9	24.2	3.1	89.9	1.4	0.0	8.2	0.9	0.0	5.4	5	0	37	95.1	46.9	119.5
	Min. maize	67.8	-	-	15.2	-	-	46.0	-	-	10.1	80.9	80.9	3.1	89.9	89.9	0.0	-	8.2	0.0	-	5.4	-	-	-	-	-	-
	Max. maize	82.9	-	-	46.0	-	-	46.0	-	-	80.9	80.9	80.9	3.1	89.9	89.9	8.2	-	8.2	0.0	-	5.4	-	-	-	-	-	-