

TABLE 10: PHYSICAL QUALITY FACTORS OF WHITE MAIZE ACCORDING TO GRADE (2015/2016)

Number of samples	Region	Test weight (kg/h)			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: WM1																												
2	Region 11	79.7	79.2	80.2	34.5	32.3	36.7	5.9	5.7	6.1	71.5	67.9	75.1	22.6	19.2	26.0	1.3	0.8	1.8	0.5	0.3	0.6	13	7	18	106.5	100.6	112.3
8	Region 12	79.1	76.8	81.0	34.5	30.6	37.2	25.5	10.1	99.4	61.5	0.1	72.3	13.0	0.5	19.5	1.1	0.4	1.6	0.5	0.1	1.2	4	3	7	103.7	100.9	109.6
12	Region 13	78.2	75.7	81.3	31.3	26.2	35.9	14.4	6.6	23.0	65.3	53.4	74.0	20.3	11.2	38.8	1.3	0.5	2.9	0.4	0.1	1.2	2	0	4	100.6	85.5	111.0
18	Region 14	79.1	77.9	79.9	33.4	27.8	36.8	23.1	10.7	28.9	64.3	57.8	69.9	12.7	7.7	19.4	0.5	0.1	0.9	0.2	0.0	0.4	4	0	10	104.2	94.7	108.5
16	Region 17	79.1	72.6	81.1	32.6	29.6	35.9	21.3	7.1	99.0	62.9	0.2	71.9	15.7	0.8	23.6	0.8	0.0	1.6	0.3	0.0	0.7	4	2	9	102.4	80.0	110.6
4	Region 18	78.4	76.9	80.0	33.1	31.9	34.9	10.0	2.5	19.4	65.3	53.6	73.9	24.7	15.3	43.9	1.1	0.2	2.2	0.6	0.2	1.5	4	2	8	105.8	102.7	109.9
5	Region 19	79.2	77.9	80.8	32.7	29.3	34.8	17.5	5.0	32.2	67.4	56.3	73.8	15.1	10.0	24.8	1.1	0.3	1.9	0.3	0.0	0.7	3	0	9	99.6	90.2	110.6
9	Region 20	78.6	76.2	81.2	32.8	30.4	39.9	15.6	2.3	32.5	72.0	61.8	89.5	12.4	0.0	23.2	0.9	0.2	1.5	0.2	0.0	0.6	4	1	9	98.1	83.9	109.1
4	Region 21	80.8	80.7	80.9	31.8	29.8	35.7	22.1	11.8	30.9	64.1	62.2	68.6	13.8	6.8	21.9	0.7	0.3	1.1	0.4	0.2	0.7	5	1	11	111.4	108.9	114.0
5	Region 22	78.7	76.1	79.8	31.1	30.7	31.4	24.9	10.9	33.9	64.6	59.8	71.7	10.5	6.3	17.4	0.8	0.3	1.7	0.2	0.0	0.5	4	0	10	98.5	93.2	102.5
4	Region 23	78.9	77.0	81.2	31.0	28.6	33.3	19.7	10.1	26.4	71.6	64.8	83.7	8.7	5.6	17.1	0.9	0.6	1.1	0.7	0.5	0.9	5	4	5	102.2	93.9	107.6
8	Region 24	79.9	78.6	81.9	31.1	26.2	35.2	19.3	11.3	28.3	68.6	63.1	76.4	12.1	8.2	16.1	0.6	0.3	1.3	0.3	0.0	0.6	9	1	25	105.4	97.9	110.9
4	Region 25	77.5	72.9	79.9	32.8	28.7	38.6	17.2	12.1	23.5	70.2	66.8	77.3	12.6	8.1	21.1	0.9	0.6	1.2	0.2	0.0	0.4	6	2	9	86.4	74.2	99.9
9	Region 26	78.1	72.8	80.5	33.6	28.4	38.3	22.0	3.2	42.8	65.5	54.4	74.8	12.5	2.8	33.3	0.9	0.2	1.9	0.2	0.0	0.6	6	1	21	96.4	89.9	103.2
1	Region 27	81.9	-	-	28.9	-	-	7.1	-	-	70.9	-	-	22.0	-	-	0.6	-	-	0.3	-	-	1	-	-	114.0	-	-
11	Region 28	79.8	77.6	81.0	32.7	28.6	36.6	19.4	8.2	28.9	67.6	58.5	73.5	13.0	9.3	21.2	0.5	0.1	1.2	0.3	0.0	0.7	6	1	16	101.1	95.3	110.5
16	Region 29	80.1	77.4	83.9	34.5	30.2	38.5	19.1	5.6	41.7	69.4	53.0	76.6	11.5	4.0	20.3	0.4	0.0	0.7	0.2	0.0	0.6	3	0	9	103.9	87.8	120.1
28	Region 30	78.4	71.7	81.1	31.6	25.5	39.6	10.9	2.2	38.0	67.2	55.0	78.8	22.0	6.8	39.9	0.5	0.0	1.2	0.3	0.0	0.8	4	0	10	96.8	84.7	108.5
9	Region 31	76.7	74.5	79.1	32.5	29.9	36.4	11.9	3.3	28.6	68.8	55.7	79.5	19.2	4.1	34.1	1.2	0.1	3.2	0.8	0.0	2.7	3	1	9	91.6	84.3	101.5
28	Region 32	78.3	75.7	81.8	33.9	28.2	40.8	12.6	1.8	32.4	69.7	56.6	79.5	17.7	4.2	33.3	0.8	0.0	3.6	0.4	0.0	2.1	2	0	8	94.9	72.6	109.1
29	Region 33	77.3	72.2	81.1	30.2	21.9	35.3	10.9	3.0	24.3	65.8	53.8	72.6	23.3	8.1	38.9	0.9	0.1	3.6	0.6	0.0	2.7	6	0	22	95.0	80.1	106.5
29	Region 34	78.3	71.1	81.2	33.2	26.5	40.5	14.7	0.4	36.8	66.8	45.2	80.9	18.5	4.9	54.4	0.6	0.1	2.2	0.3	0.0	0.8	4	0	13	98.2	85.4	109.6
19	Region 35	78.5	73.6	81.2	33.0	24.4	36.2	9.4	2.9	32.0	69.9	61.3	78.5	20.7	3.8	33.6	1.3	0.7	2.3	1.1	0.6	1.8	6	0	18	96.4	75.9	106.8
22	Region 36	76.8	72.2	78.9	34.3	28.4	39.7	11.2	4.5	20.8	69.8	62.2	80.3	19.0	6.9	31.5	0.6	0.2	1.8	0.2	0.0	0.7	5	0	11	99.5	92.3	105.6
300	Ave. WM1	78.4			32.7			15.3			67.3			17.4			0.8			0.4			4			98.9		
	Min. WM1	71.1			21.9			0.4			0.1			0.0			0.0			0.0			0			72.6		
	Max. WM1	83.9			40.8			99.4			89.5			54.4			3.6			2.7			25			120.1		

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(continue)

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		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.						
GRADE: WM2																												
3	Region 12	77.4	75.6	79.8	27.3	21.9	30.5	7.5	0.8	14.8	58.8	43.2	67.2	33.7	18.0	56.0	1.3	0.7	1.7	0.6	0.2	1.4	4	2	7	102.1	94.6	108.9
10	Region 13	77.9	74.3	80.2	31.7	27.0	35.1	13.6	5.7	22.3	65.5	58.6	72.6	20.9	11.3	29.3	1.1	0.2	1.7	0.4	0.0	0.9	4	1	6	102.9	87.6	114.1
3	Region 14	80.9	80.3	81.3	32.0	31.0	33.4	17.7	13.9	22.4	67.8	65.1	71.3	14.5	10.6	21.0	0.8	0.4	1.4	0.3	0.1	0.7	4	2	8	109.9	106.7	111.6
2	Region 17	79.4	78.4	80.4	28.0	27.0	28.9	12.2	11.0	13.3	62.3	53.5	71.1	25.6	15.6	35.5	0.5	0.5	0.6	0.4	0.2	0.5	3	2	3	101.8	95.3	108.2
3	Region 18	78.7	78.5	78.9	31.0	30.1	32.3	14.0	12.4	16.4	70.6	69.3	71.5	15.4	14.3	16.1	0.8	0.5	1.0	0.2	0.1	0.4	3	2	4	98.8	95.6	103.2
12	Region 19	78.1	75.6	80.8	32.7	23.9	37.6	18.6	8.1	42.1	61.4	41.4	69.7	20.1	1.9	50.5	0.9	0.3	1.5	0.3	0.0	0.9	4	1	11	104.9	97.2	116.3
8	Region 20	77.8	76.6	79.7	31.7	28.3	34.8	15.8	8.1	30.5	65.1	61.8	67.6	19.2	7.7	27.5	1.1	0.6	1.6	0.4	0.1	0.7	5	2	10	95.3	83.1	104.2
1	Region 21	80.0	-	-	30.1	-	-	10.0	-	-	66.9	-	-	23.1	-	-	1.5	-	-	1.0	-	-	13	-	-	113.4	-	-
3	Region 22	78.6	77.6	80.2	31.5	30.8	32.0	21.9	10.7	28.6	65.1	61.9	67.7	13.0	7.9	21.6	1.2	0.9	1.4	0.4	0.1	0.6	6	3	8	106.4	98.8	110.4
1	Region 23	79.9	-	-	33.3	-	-	24.1	-	-	66.7	-	-	9.2	-	-	1.7	-	-	1.3	-	-	18	-	-	111.2	-	-
2	Region 24	80.0	79.6	80.4	29.5	28.8	30.1	17.6	17.0	18.2	69.8	69.2	70.3	12.7	12.6	12.7	1.3	1.0	1.6	0.6	0.1	1.1	9	8	9	108.2	105.2	111.2
1	Region 25	74.5	-	-	33.5	-	-	15.3	-	-	75.6	-	-	9.1	-	-	0.2	-	-	0.0	-	-	3	-	-	85.6	-	-
6	Region 26	73.2	69.9	78.8	29.7	24.8	34.5	11.0	3.2	26.8	64.4	52.7	74.9	24.7	8.4	43.4	1.0	0.7	1.3	0.3	0.1	0.6	5	3	6	81.7	66.6	106.8
2	Region 27	77.7	76.8	78.6	36.0	35.6	36.4	12.8	10.8	14.7	74.3	72.5	76.1	13.0	12.8	13.1	1.8	1.5	2.0	0.5	0.2	0.8	4	3	5	89.7	86.0	93.4
3	Region 28	77.0	76.7	77.7	30.7	24.3	38.0	12.9	0.3	31.1	63.5	50.6	78.9	23.6	8.0	49.1	1.5	0.9	2.4	0.6	0.3	1.1	10	5	17	97.4	96.6	98.3
2	Region 30	78.0	77.8	78.2	35.7	34.6	36.7	24.0	13.5	34.5	65.7	58.8	72.6	10.3	6.7	13.9	0.7	0.3	1.1	0.4	0.1	0.8	10	5	15	99.8	97.4	102.2
3	Region 31	73.1	68.5	76.9	27.6	20.8	39.6	11.5	0.8	27.8	52.1	35.4	64.7	36.4	7.5	63.8	1.4	0.2	2.2	0.5	0.0	0.8	5	3	6	90.4	82.9	98.4
5	Region 33	76.4	72.9	78.9	32.0	29.8	35.1	19.6	14.6	22.7	65.2	62.9	70.0	15.3	11.0	22.4	2.2	0.8	4.2	1.5	0.7	2.8	12	5	23	96.5	89.7	101.8
1	Region 34	79.3	-	-	30.1	-	-	10.0	-	-	76.6	-	-	13.4	-	-	0.3	-	-	0.2	-	-	8	-	-	100.4	-	-
5	Region 35	77.4	74.9	79.8	31.5	25.9	35.9	8.7	3.3	27.7	62.4	52.8	72.9	28.9	10.8	43.0	2.7	1.0	7.2	1.3	0.2	4.3	9	1	19	97.6	92.1	99.9
8	Region 36	77.1	74.9	78.4	34.9	29.8	38.1	16.6	2.5	23.6	67.2	59.9	73.7	16.1	9.5	24.1	0.5	0.2	1.5	0.2	0.0	0.6	6	2	11	100.6	97.3	106.1
84	Ave. WM2	77.4			31.7			15.2			64.7			20.1			1.2			0.5			6			99.3		
	Min. WM2	68.5			20.8			0.3			35.4			1.9			0.2			0.0			1			66.6		
	Max. WM2	81.3			39.6			42.1			78.9			63.8			7.2			4.3			23			116.3		

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(continue)

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		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.						
GRADE: WM3																												
4	Region 13	76.6	75.2	77.8	30.8	25.6	36.7	14.3	5.9	22.6	68.9	61.3	79.3	16.9	14.8	19.5	2.6	1.3	4.8	1.1	0.2	2.9	4	1	5	96.9	90.0	107.1
2	Region 18	76.2	75.6	76.8	32.6	30.6	34.5	9.6	7.5	11.6	68.1	66.7	69.4	22.4	21.7	23.1	1.6	1.5	1.6	0.8	0.7	0.8	4	3.0	4.0	95.5	95.5	95.5
4	Region 19	77.8	76.9	78.7	29.6	25.6	32.4	11.4	6.4	16.7	63.2	59.3	66.2	25.5	17.1	29.1	1.3	0.8	1.7	0.5	0.2	0.7	4	2.0	6.0	101.9	88.9	108.1
3	Region 20	77.9	76.0	79.8	34.3	30.5	37.4	29.5	15.6	40.1	64.9	56.9	77.8	5.6	3.0	7.3	1.3	0.9	2.0	0.6	0.3	0.8	4	3	5	90.6	79.0	97.9
1	Region 21	79.8	-	-	32.6	-	-	9.3	-	-	67.7	-	-	23.0	-	-	2.4	-	-	1.2	-	-	30	-	-	117.0	-	-
4	Region 22	79.4	78.6	79.9	32.2	29.2	33.8	15.5	14.0	19.2	68.1	64.9	72.8	16.5	13.2	19.9	1.6	0.7	2.7	0.5	0.2	1.0	11	6	15	110.2	108.3	111.3
1	Region 28	79.5	-	-	35.4	-	-	28.0	-	-	59.0	-	-	13.0	-	-	1.0	-	-	0.1	-	-	14	-	-	97.1	-	-
1	Region 30	76.9	-	-	32.7	-	-	7.6	-	-	73.1	-	-	19.3	-	-	1.6	-	-	0.4	-	-	7	-	-	87.6	-	-
2	Region 31	73.5	72.5	74.5	27.8	26.2	29.3	8.9	4.3	13.4	67.2	65.4	69.0	24.0	17.6	30.3	1.6	1.2	1.9	1.2	0.7	1.7	7	4	9	102.8	100.6	105.0
1	Region 33	76.7	-	-	28.1	-	-	20.3	-	-	60.7	-	-	19.0	-	-	1.1	-	-	0.7	-	-	12	-	-	103.1	-	-
2	Region 35	75.9	74.9	76.8	34.0	32.7	35.3	20.3	6.3	34.2	60.1	56.2	63.9	19.7	9.6	29.8	2.4	2.0	2.7	0.5	0.0	0.9	6	2	10	104.1	101.0	107.1
2	Region 36	76.8	75.2	78.4	32.5	30.4	34.5	6.6	5.2	8.0	67.8	67.7	67.8	25.7	24.3	27.0	2.1	0.5	3.6	0.9	0.2	1.5	4	2	5	97.4	90.7	104.1
27	Ave. WM3	77.3	-	-	31.7	-	-	15.1	-	-	66.0	-	-	18.9	-	-	1.7	-	-	0.7	-	-	7	-	-	100.4	-	-
	Min. WM3	72.5	-	-	25.6	-	-	4.3	-	-	56.2	-	-	3.0	-	-	0.5	-	-	0.0	-	-	1	-	-	79.0	-	-
	Max. WM3	79.9	-	-	37.4	-	-	40.1	-	-	79.3	-	-	30.3	-	-	4.8	-	-	2.9	-	-	30	-	-	117.0	-	-
CLASS: COM																												
1	Region 19	68.6	-	-	22.8	-	-	5.1	-	-	41.4	-	-	53.5	-	-	0.8	-	-	0.4	-	-	2	-	-	88.6	-	-
1	Region 20	75.9	-	-	34.3	-	-	14.6	-	-	65.1	-	-	20.3	-	-	4.2	-	-	1.3	-	-	3	-	-	99.1	-	-
1	Region 31	76.5	-	-	33.6	-	-	5.2	-	-	71.4	-	-	23.4	-	-	0.8	-	-	0.3	-	-	4	-	-	89.0	-	-
1	Region 35	75.7	-	-	37.2	-	-	5.6	-	-	73	-	-	21.4	-	-	2.3	-	-	1.1	-	-	3	-	-	90.5	-	-
4	Ave. COM	74.2	-	-	32.0	-	-	7.6	-	-	62.7	-	-	29.7	-	-	2.0	-	-	0.8	-	-	3	-	-	91.8	-	-
	Min. COM	68.6	-	-	22.8	-	-	5.1	-	-	41.4	-	-	20.3	-	-	0.8	-	-	0.3	-	-	2	-	-	88.6	-	-
	Max. COM	76.5	-	-	37.2	-	-	14.6	-	-	73.0	-	-	53.5	-	-	4.2	-	-	1.3	-	-	4	-	-	99.1	-	-
415	Ave. white maize	78.1	-	-	32.4	-	-	15.2	-	-	66.7	-	-	18.2	-	-	0.9	-	-	0.4	-	-	5	-	-	99.0	-	-
	Min. white maize	68.5	-	-	20.8	-	-	0.3	-	-	0.1	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0	-	-	66.6	-	-
	Max. white maize	83.9	-	-	40.8	-	-	99.4	-	-	89.5	-	-	63.8	-	-	7.2	-	-	4.3	-	-	30	-	-	120.1	-	-
920	Ave. maize	77.3	-	-	32.1	-	-	13.3	-	-	66.7	-	-	20.0	-	-	1.0	-	-	0.5	-	-	5	-	-	95.5	-	-
	Min. maize	59.8	-	-	17.1	-	-	0.3	-	-	0.1	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0	-	-	21.7	-	-
	Max. maize	83.9	-	-	43.1	-	-	99.4	-	-	93.6	-	-	77.9	-	-	7.2	-	-	4.3	-	-	31	-	-	120.1	-	-