

TABLE 9: PHYSICAL QUALITY FACTORS OF WHITE MAIZE ACCORDING TO GRADE (2013/2014)

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: WM1																												
7	Region 12	78.3	77.2	78.8	34.9	32.3	37.2	25.3	20.8	34.7	64.5	57.5	71.2	10.2	5.8	14.7	1.4	0.5	2.5	1.1	0.4	1.6	11	4	20	99.0	90.1	105.5
3	Region 13	76.8	76.3	77.5	32.7	30.9	33.8	27.7	24.0	29.7	63.2	59.5	67.0	9.0	7.3	10.8	0.9	0.7	1.1	0.8	0.6	1.0	10	1	21	88.2	83.7	93.7
26	Region 14	78.0	71.8	79.9	33.4	30.2	36.2	25.7	15.1	40.7	65.2	53.9	71.6	9.0	4.6	13.3	1.4	0.3	5.9	1.0	0.3	3.8	7	0	22	96.4	87.2	111.1
3	Region 15	79.5	79.3	79.6	33.8	32.8	35.3	24.1	22.1	26.8	67.2	65.8	68.5	8.7	7.4	9.4	1.9	1.1	2.9	1.4	0.8	2.1	1	0	3	101.5	100.1	102.9
9	Region 16	78.2	76.3	80.6	33.4	32.0	35.3	23.6	8.1	36.9	64.5	58.8	69.2	11.9	4.3	22.7	0.7	0.2	2.5	0.5	0.1	1.7	5	1	18	97.1	92.2	101.9
9	Region 17	77.2	75.4	78.6	32.5	28.0	34.6	26.5	18.5	35.9	64.7	57.0	72.7	8.8	7.1	9.4	1.1	0.5	1.8	0.9	0.5	1.5	6	3	12	88.0	78.6	94.8
6	Region 18	76.0	73.9	77.6	31.6	26.0	34.0	19.1	8.3	28.1	67.9	55.7	81.1	13.0	7.6	23.4	2.0	0.2	7.2	1.3	0.2	4.0	8	0	24	91.7	82.8	101.6
5	Region 19	76.4	75.4	76.9	32.4	31.3	34.2	25.0	18.6	30.2	65.4	63.2	69.1	9.6	6.6	12.3	0.9	0.6	1.1	0.7	0.5	0.9	6	1	8	83.7	73.7	91.4
5	Region 20	78.1	77.4	79.2	34.2	30.7	40.9	19.2	3.1	25.7	68.8	64.8	71.3	12.0	4.2	26.1	1.8	1.1	2.8	1.3	0.8	1.8	9	6	13	95.1	88.8	99.5
39	Region 21	78.1	74.8	79.9	33.4	27.9	36.5	22.6	4.9	42.9	66.5	52.6	74.8	11.0	2.3	27.5	1.1	0.3	3.0	0.9	0.3	2.1	3	0	16	96.8	83.4	102.8
28	Region 22	78.5	74.1	80.4	33.2	30.3	36.0	27.1	3.3	41.6	63.7	53.5	74.5	9.2	4.4	35.4	0.9	0.2	2.9	0.8	0.2	2.5	4	0	30	98.6	94.1	106.3
12	Region 23	80.0	78.2	81.9	33.3	31.2	36.5	27.1	20.3	34.4	65.4	59.9	71.2	7.5	4.2	10.8	0.8	0.2	2.0	0.7	0.2	1.9	3	0	10	102.0	90.7	109.0
42	Region 24	78.0	75.1	81.1	34.5	27.9	38.7	25.1	8.3	44.2	66.3	51.2	82.7	8.6	1.1	20.8	0.9	0.2	2.0	0.7	0.2	1.6	5	0	16	95.5	79.6	107.5
7	Region 25	76.0	73.3	77.3	32.1	28.8	35.8	18.9	13.1	29.9	68.8	64.2	71.9	12.4	5.9	16.4	1.2	0.3	3.7	1.0	0.2	2.7	8	1	13	74.0	60.8	95.6
4	Region 26	76.2	74.9	78.3	32.1	30.5	34.0	11.2	4.9	19.2	68.3	59.7	73.9	20.6	9.4	35.4	1.6	0.5	2.8	1.4	0.5	2.6	4	3	5	80.3	63.3	98.4
1	Region 27	77.9	-	-	32.8	-	-	17.0	-	-	69.9	-	-	13.1	-	-	1.4	-	-	1.1	-	-	3	-	-	99.1	-	-
4	Region 28	79.5	78.7	80.1	34.8	32.4	37.3	26.9	17.7	36.5	65.6	57.0	72.3	7.6	4.6	10.0	1.2	0.2	3.1	0.8	0.1	1.8	2	0	3	96.2	91.2	103.7
22	Region 29	78.9	77.0	81.0	33.8	28.3	37.6	22.0	6.6	34.8	67.1	60.9	74.9	10.9	3.9	32.5	0.8	0.3	1.9	0.7	0.3	1.8	6	0	16	94.1	84.8	102.0
15	Region 30	78.2	76.7	79.9	34.4	29.9	39.4	26.5	8.2	41.3	62.0	53.8	76.0	11.5	4.0	22.4	0.5	0.0	1.2	0.4	0.0	0.9	4	1	13	91.5	81.0	99.6
11	Region 31	76.4	73.3	80.5	36.1	29.9	46.3	29.2	3.9	56.5	60.5	40.6	79.1	10.3	2.9	29.1	0.9	0.3	1.6	0.7	0.1	1.4	10	1	26	91.9	83.8	107.6
5	Region 32	77.9	73.1	79.9	32.5	29.4	36.8	17.4	0.7	34.3	68.2	58.9	72.8	14.3	6.8	26.5	1.4	0.5	2.5	1.1	0.5	2.0	7	1	19	91.1	76.9	100.0
10	Region 33	77.1	73.8	79.0	33.3	26.5	37.4	24.4	15.6	34.1	63.3	57.0	69.2	12.3	8.9	21.0	1.0	0.3	2.3	0.8	0.2	1.8	8	1	19	88.7	78.8	99.1
18	Region 34	76.6	68.7	79.8	33.4	27.8	37.5	21.8	6.6	41.7	67.7	55.2	75.0	10.5	3.1	20.8	1.4	0.3	3.8	1.1	0.3	2.1	10	3	28	93.0	75.9	107.7
6	Region 35	78.5	77.0	80.1	33.9	29.3	36.6	23.9	13.6	42.2	65.1	54.4	73.1	11.1	3.4	15.1	1.7	0.6	3.0	1.4	0.5	2.4	3	0	4	98.0	90.1	107.7
17	Region 36	76.1	70.3	78.7	34.1	28.2	38.3	21.2	10.5	56.4	67.4	38.3	74.0	11.5	5.3	16.9	1.0	0.1	2.8	0.8	0.1	1.8	5	0	13	93.3	77.5	103.0
314	Ave. WM1	77.8			33.7			24.0			65.6			10.4			1.1			0.8			6			94.3		
	Min. WM1	68.7			26.0			0.7			38.3			1.1			0.0			0.0			0			60.8		
	Max. WM1	81.9			46.3			56.5			82.7			35.4			7.2			4.0			30			111.1		

TABLE 9: PHYSICAL QUALITY FACTORS OF WHITE 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.							
GRADE: WM2																												
1	Region 12	75.8	-	-	29.2	-	-	16.5	-	-	71.2	-	-	12.3	-	-	0.9	-	-	0.6	-	-	3	-	-	85.6	-	-
2	Region 13	77.4	76.5	78.2	32.2	29.3	35.0	28.5	22.6	34.3	62.2	58.8	65.6	9.4	6.9	11.8	0.8	0.7	0.8	0.5	0.5	0.5	4	0	7	87.8	83.7	91.9
3	Region 14	78.1	77.1	78.7	33.8	30.5	38.1	38.0	22.9	67.1	55.0	30.4	68.5	7.0	2.5	9.9	2.8	2.3	3.4	1.9	1.4	2.3	17	2	30	99.2	92.1	106.0
2	Region 16	76.4	75.1	77.6	35.1	33.6	36.6	36.9	30.0	43.7	56.4	51.8	60.9	6.8	4.5	9.1	2.6	2.3	2.8	1.8	1.6	1.9	19	14	24	95.0	90.1	99.9
1	Region 18	75.8	-	-	31.3	-	-	34.1	-	-	57.9	-	-	8.0	-	-	1.1	-	-	1.0	-	-	1	-	-	83.8	-	-
2	Region 19	76.1	75.9	76.3	37.8	33.7	41.8	45.5	19.6	71.3	48.5	23.4	73.5	6.1	5.3	6.9	1.5	1.4	1.5	1.0	1.0	1.0	22	21	22	94.8	94.5	95.1
3	Region 20	77.2	76.6	77.5	36.3	33.8	39.7	21.8	14.0	26.2	67.3	63.9	73.2	10.9	9.9	12.8	1.1	0.5	1.9	1.0	0.5	1.7	7	4	10	86.6	80.9	97.4
5	Region 21	77.5	76.2	78.3	33.5	31.4	35.4	23.2	18.5	29.9	66.2	61.9	71.8	10.6	3.9	15.5	1.4	0.6	3.0	1.1	0.6	2.3	6	1	10	93.9	87.0	97.0
1	Region 22	78.9	-	-	33.9	-	-	22.9	-	-	65.4	-	-	11.7	-	-	2.5	-	-	1.6	-	-	7	-	-	97.8	-	-
2	Region 23	79.6	78.3	80.9	33.6	32.4	34.8	25.7	19.6	31.7	64.9	59.6	70.1	9.5	8.7	10.3	1.6	1.2	2.0	1.2	0.7	1.7	9	7	11	103.6	98.5	108.7
2	Region 24	77.8	77.5	78.1	30.3	28.9	31.7	23.5	22.9	24.1	67.0	66.4	67.5	9.6	8.4	10.7	1.2	0.9	1.4	1.0	0.8	1.1	7	6	7	95.8	93.1	98.5
5	Region 27	78.0	76.5	80.3	34.7	34.1	35.5	18.3	1.6	23.6	68.0	65.4	70.8	13.7	5.6	32.5	2.3	1.7	3.1	1.5	1.2	1.7	12	5	26	92.5	83.8	98.7
8	Region 28	77.6	75.0	80.2	35.2	32.3	43.1	23.6	9.3	33.0	64.9	59.3	68.6	11.5	2.5	22.2	1.5	0.2	3.2	1.1	0.1	2.7	7	0	17	91.8	80.4	99.1
9	Region 29	77.2	70.3	79.5	35.0	27.8	38.5	23.8	1.7	38.8	64.5	55.0	75.0	11.6	5.0	37.0	1.7	0.4	3.7	1.2	0.4	2.1	11	2	32	90.0	70.4	100.7
6	Region 30	77.5	75.9	79.9	33.5	28.6	36.4	19.4	6.5	46.4	65.9	49.5	75.6	14.7	4.1	30.0	0.8	0.3	1.8	0.6	0.3	1.1	10	5	17	91.2	80.4	99.3
9	Region 31	75.6	70.9	77.2	37.1	30.2	41.6	43.2	2.9	57.9	49.2	38.5	72.3	7.6	3.2	24.8	1.1	0.1	3.6	0.8	0.1	2.1	9	0	33	86.9	66.6	92.5
18	Region 32	77.8	74.9	79.7	34.3	30.4	37.6	17.4	2.3	38.0	65.7	51.9	78.6	16.9	5.2	37.7	1.6	0.7	5.4	1.3	0.7	3.9	7	2	26	91.2	63.1	103.6
7	Region 33	76.0	71.6	77.5	36.7	32.8	46.5	32.4	23.7	42.7	60.0	55.0	67.3	7.7	2.3	14.2	1.1	0.4	2.0	0.9	0.3	1.6	8	1	18	80.5	69.7	96.4
12	Region 34	77.1	73.7	79.0	34.3	30.0	40.4	27.5	9.7	46.5	63.9	50.5	75.4	8.6	3.0	15.6	1.7	0.7	3.6	1.3	0.6	2.7	7	0	23	90.1	84.1	97.2
1	Region 35	79.4	-	-	37.7	-	-	46.3	-	-	48.7	-	-	5.0	-	-	1.9	-	-	1.7	-	-	5	-	-	93.1	-	-
3	Region 36	75.7	74.1	76.8	37.0	34.6	39.9	24.3	22.2	28.0	68.1	66.0	69.8	7.6	6.0	9.4	1.8	0.7	3.1	1.4	0.7	2.3	9	4	16	96.8	87.4	103.3
102	Ave. WM2	77.2			34.8			26.2			62.7			11.1			1.5			1.2			9			90.7		
	Min. WM2				27.8			1.6			23.4			2.3			0.1			0.1			0			63.1		
	Max. WM2				46.5			71.3			78.6			37.7			5.4			3.9			33			108.7		

TABLE 9: PHYSICAL QUALITY FACTORS OF WHITE MAIZE ACCORDING TO GRADE (2013/2014)
(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.				
GRADE: WM3																												
1	Region 15	78.5	-	-	28.3	-	-	18.8	-	-	62.2	-	-	19.0	-	-	0.4	-	-	0.4	-	-	1	-	-	99.2	-	-
1	Region 18	74.1	-	-	30.2	-	-	15.0	-	-	71.0	-	-	14.0	-	-	0.1	-	-	0.1	-	-	0	-	-	84.1	-	-
1	Region 23	81.6	-	-	35.6	-	-	18.7	-	-	76.0	-	-	5.3	-	-	1.8	-	-	1.4	-	-	4	-	-	105.4	-	-
1	Region 25	77.0	-	-	32.2	-	-	23.6	-	-	71.0	-	-	5.4	-	-	4.9	-	-	2.7	-	-	25	-	-	94.7	-	-
4	Region 27	75.4	74.9	76.1	33.2	29.0	35.3	10.5	5.3	22.4	71.5	66.1	78.5	18.0	10.6	28.6	3.2	1.4	5.1	2.7	1.0	4.2	6	2	10	82.3	73.5	86.1
1	Region 28	74.0	-	-	33.8	-	-	15.5	-	-	64.9	-	-	19.6	-	-	4.0	-	-	3.6	-	-	2	-	-	84.5	-	-
4	Region 29	78.1	77.1	79.1	33.0	31.5	33.7	22.4	9.1	38.2	64.7	55.3	75.0	12.9	5.7	23.5	2.8	1.5	3.9	1.9	1.3	2.5	15	6	32	92.2	85.6	97.0
1	Region 30	76.5	-	-	26.7	-	-	9.2	-	-	70.3	-	-	20.5	-	-	2.5	-	-	1.3	-	-	6	-	-	79.6	-	-
5	Region 32	77.1	74.9	78.8	37.0	35.0	39.5	30.3	15.1	53.1	58.3	41.0	67.8	11.4	5.9	17.1	1.7	1.1	2.1	1.3	0.6	1.8	6	1	12	85.0	78.7	94.8
5	Region 33	74.1	70.1	76.3	32.8	29.5	38.0	28.2	14.7	43.5	60.4	50.6	66.7	11.4	5.9	21.3	0.9	0.3	2.4	0.7	0.1	1.7	12	4	37	73.9	62.5	90.5
8	Region 34	77.1	75.2	78.3	37.2	34.3	41.9	36.4	16.2	52.3	57.9	44.9	76.9	5.7	2.8	10.1	2.1	1.4	3.1	1.7	1.2	2.5	7	1	17	93.4	85.0	102.9
32	Ave. WM3	76.5			34.3			25.5			63.0			11.5			2.1			1.6			8			87.1		
	Min. WM3	70.1			26.7			5.3			41.0			2.8			0.1			0.1			0			62.5		
	Max. WM3	81.6			41.9			53.1			78.5			28.6			5.1			4.2			37			105.4		
CLASS: COM																												
1	Region 28	73.0	-	-	31.8	-	-	31.6	-	-	58.7	-	-	9.7	-	-	1.3	-	-	0.8	-	-	17	-	-	89.6	-	-
1	Region 31	75.7	-	-	39.1	-	-	44.5	-	-	53.2	-	-	2.3	-	-	3.6	-	-	2.3	-	-	28	-	-	88.2	-	-
1	Region 34	76.5	-	-	34.5	-	-	25.6	-	-	66.3	-	-	8.1	-	-	4.5	-	-	2.6	-	-	27	-	-	99.2	-	-
3	Ave. COM	75.1			35.1			33.9			59.4			6.7			3.1			1.9			24			92.3		
	Min. COM	73.0			31.8			25.6			53.2			2.3			1.3			0.8			17			88.2		
	Max. COM	76.5			39.1			44.5			66.3			9.7			4.5			2.6			28			99.2		
451	Ave. white maize	77.6			34.0			24.7			64.7			10.6			1.3			1.0			7			93.0		
	Min. white maize	68.7			26.0			0.7			23.4			1.1			0.0			0.0			0			60.8		
	Max. white maize	81.9			46.5			71.3			82.7			37.7			7.2			4.2			37			111.1		
930	Ave. maize	76.8			32.9			19.6			65.9			14.4			1.6			1.2			7			90.9		
	Min. maize	56.6			18.6			0.3			23.4			1.1			0.0			0.0			0			46.5		
	Max. maize	81.9			46.5			71.3			82.7			64.8			14.5			9.9			53			120.4		