

TABLE 12: PHYSICAL QUALITY FACTORS OF WHITE MAIZE ACCORDING TO GRADE (2010/2011)

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: WM 1																												
1	Region 08	78.0	78.0	78.0	32.0	32.0	32.0	27.5	27.5	27.5	62.8	62.8	62.8	9.7	9.7	9.7	3.0	3.0	3.0	1.9	1.9	1.9	10	10	10	93.2	93.2	93.2
9	Region 12	79.1	77.8	80.4	34.7	32.5	38.2	24.9	19.5	32.0	64.4	60.2	68.3	10.7	7.1	14.1	1.1	0.4	1.9	0.8	0.4	1.8	4	1	9	93.6	84.6	99.0
13	Region 13	78.2	75.8	79.8	34.7	32.8	38.1	25.1	11.1	34.9	64.3	55.8	73.5	10.6	5.2	15.4	1.6	0.9	2.6	1.2	0.6	2.1	4	2	8	91.5	81.1	102.7
14	Region 14	78.6	75.1	80.4	34.6	30.4	40.3	26.4	14.0	41.7	62.1	37.4	74.4	11.6	4.4	31.4	1.5	0.2	4.7	1.1	0.0	3.1	5	0	18	90.5	74.1	99.2
4	Region 15	79.4	79.1	79.6	37.1	36.1	38.1	35.6	27.4	40.5	57.7	53.9	63.2	6.7	5.6	9.4	0.4	0.3	0.5	0.4	0.3	0.5	3	2	4	96.9	95.6	99.0
9	Region 16	78.8	77.7	80.5	36.0	33.4	38.3	31.2	22.7	37.4	61.1	54.9	66.4	7.7	4.5	10.9	0.8	0.3	1.3	0.7	0.3	1.2	3	0	5	92.4	83.9	102.3
22	Region 17	78.5	76.6	79.7	35.1	32.6	37.7	25.4	9.1	41.7	64.5	53.0	74.9	10.1	5.3	17.1	1.2	0.4	3.0	0.9	0.4	2.5	3	0	7	89.2	81.7	99.7
14	Region 18	78.2	76.8	80.6	34.6	31.9	37.3	26.9	14.2	39.9	62.2	51.7	69.1	10.9	4.7	19.0	1.4	0.9	2.8	1.1	0.7	2.0	6	2	12	90.6	86.2	101.4
11	Region 19	76.9	73.6	79.7	33.3	28.7	41.4	20.0	9.1	32.8	67.3	60.2	83.9	12.7	7.0	24.5	1.4	0.6	3.1	1.1	0.3	2.4	3	2	14	87.7	70.1	95.4
7	Region 20	78.4	76.7	79.9	34.5	30.4	37.8	25.7	19.9	33.6	64.8	57.9	70.8	9.5	6.0	13.4	1.4	0.5	2.6	1.1	0.1	2.3	4	1	8	89.1	84.9	95.5
8	Region 21	77.7	74.6	79.7	35.3	34.0	37.6	21.8	9.3	32.1	65.9	58.6	72.8	12.2	7.7	19.6	1.7	0.5	3.9	1.5	0.5	3.6	3	0	5	90.1	80.6	97.5
8	Region 22	78.1	77.2	79.0	34.6	31.2	37.1	27.6	21.7	32.8	62.2	56.0	68.0	10.2	6.2	15.5	1.3	0.3	1.9	1.0	0.3	1.5	3	0	5	91.0	86.2	94.9
13	Region 23	79.2	75.9	81.8	37.0	31.6	40.4	35.7	23.9	46.9	58.4	47.8	70.8	6.0	2.7	8.4	1.8	0.7	3.9	1.4	0.7	2.7	7	0	17	89.9	54.4	103.0
12	Region 24	78.0	75.5	79.4	36.8	34.8	44.0	31.9	12.5	44.0	59.5	48.7	70.7	8.6	5.4	16.8	2.0	0.0	3.6	1.6	0.0	2.6	8	2	19	94.1	89.3	99.1
6	Region 25	77.5	76.1	78.8	32.8	25.0	36.5	20.1	1.4	35.3	61.1	33.5	73.9	18.9	6.1	65.1	1.5	0.8	2.4	1.2	0.6	1.8	4	1	7	81.9	67.8	94.7
6	Region 26	76.8	74.9	78.2	34.6	31.1	38.7	20.0	10.1	33.2	69.1	60.3	76.7	11.0	6.5	15.4	1.3	0.6	1.9	1.1	0.4	1.4	6	3	9	86.4	82.3	93.9
1	Region 27	74.4	74.4	74.4	32.6	32.6	32.6	3.5	3.5	3.5	65.9	65.9	65.9	30.6	30.6	30.6	3.2	3.2	3.2	2.3	2.3	2.3	9	9	9	85.4	85.4	85.4
19	Region 28	77.3	73.9	80.0	33.9	28.0	37.8	22.6	7.4	42.6	65.1	52.7	78.9	12.3	4.7	20.4	1.4	0.2	3.7	0.9	0.2	2.6	8	1	31	85.7	68.1	98.1
7	Region 30	77.6	74.9	79.1	35.0	30.6	38.9	26.9	14.5	35.5	62.5	54.8	71.2	10.6	6.2	15.2	2.1	0.4	4.1	1.7	0.4	3.1	6	1	18	88.9	76.3	96.7
2	Region 31	77.9	77.6	78.1	37.0	35.9	38.1	11.4	10.6	12.1	71.7	70.2	73.1	17.0	14.8	19.2	1.3	1.1	1.4	0.8	0.6	0.9	4	4	4	88.0	87.3	88.7
16	Region 32	77.2	75.2	79.4	34.4	31.2	40.1	17.9	4.5	32.2	65.3	58.5	72.1	16.9	8.0	33.0	1.1	0.6	2.5	0.9	0.4	1.6	5	2	7	84.7	75.7	98.6
16	Region 33	75.8	74.1	77.3	34.0	30.4	37.6	21.9	12.6	30.6	63.3	59.0	69.4	14.8	8.5	23.3	0.6	0.2	1.6	0.5	0.2	1.1	6	1	12	86.4	72.8	96.4
28	Region 34	78.4	76.7	80.2	35.1	31.2	39.8	25.5	6.2	47.3	62.5	48.4	70.9	12.0	4.3	28.4	0.8	0.0	1.7	0.7	0.0	1.4	4	0	13	87.8	71.5	99.7
5	Region 35	78.1	76.3	80.8	34.0	27.2	37.4	28.7	2.6	42.3	59.5	52.2	64.4	11.8	5.5	35.4	1.7	0.7	2.3	1.3	0.7	1.8	3	1	6	87.6	81.8	94.8
13	Region 36	77.5	75.7	79.9	34.1	29.9	38.2	14.6	3.9	32.8	71.0	62.0	79.8	14.5	5.2	22.3	1.5	1.2	2.0	1.2	0.5	1.6	6	1	18	96.2	92.4	102.4
264	Ave WM 1	77.9			34.8			24.7			63.6			11.7			1.3			1.0			5			89.3		
	Min WM 1	73.6			25.0			1.4			33.5			2.7			0.0			0.0			0			54.4		
	Max WM 1	81.8			44.0			47.3			83.9			65.1			4.7			3.6			31			103.0		

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(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		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: WM 2																												
11	Region 12	78.3	77.2	79.9	35.3	33.6	40.3	27.8	20.9	43.8	62.8	52.8	67.0	9.4	3.4	13.5	1.4	0.5	2.6	1.1	0.4	1.7	4	2	8	89.2	83.4	96.0
14	Region 13	78.2	76.6	79.7	34.0	32.1	35.8	22.4	2.7	30.1	63.8	57.0	72.8	13.9	6.4	40.3	1.9	0.8	2.7	1.4	0.7	2.2	3	0	9	87.2	82.0	98.1
13	Region 14	78.0	75.4	80.7	34.3	29.5	36.8	25.5	8.6	46.2	63.7	52.1	74.5	10.8	1.7	20.9	1.4	0.1	2.7	1.1	0.1	2.0	4	2	6	92.3	73.3	103.5
5	Region 15	78.7	77.9	79.2	37.2	35.8	37.9	36.7	32.0	43.0	56.9	52.7	61.6	6.4	4.3	9.1	1.0	0.3	1.7	0.9	0.3	1.2	4	2	5	94.9	90.2	99.5
5	Region 16	78.9	78.0	80.1	35.0	33.2	36.7	35.9	29.2	43.0	58.7	53.4	63.8	5.5	3.6	7.7	1.1	0.9	1.3	0.9	0.8	1.1	4	2	7	90.8	88.0	93.8
6	Region 17	77.9	76.4	78.9	35.0	32.0	38.6	18.5	9.1	29.2	64.6	59.3	72.3	16.9	7.9	31.6	1.3	0.4	1.8	1.0	0.3	1.4	4	2	6	85.7	72.8	94.1
5	Region 18	77.5	76.8	78.1	34.0	32.8	35.7	23.6	12.9	36.0	62.7	53.1	67.6	13.7	9.6	20.4	1.6	1.2	2.5	1.1	0.8	1.6	5	1	13	89.7	84.1	96.8
11	Region 19	77.0	75.0	78.1	33.0	28.5	36.5	25.2	12.5	37.0	65.5	57.0	74.7	9.3	2.9	18.7	1.6	0.6	3.7	1.2	0.6	2.9	6	2	11	90.8	73.7	111.7
3	Region 20	77.0	75.1	78.6	33.7	31.7	35.0	30.5	21.0	36.3	60.1	55.5	67.4	9.4	8.2	11.6	1.9	1.6	2.1	1.6	1.4	1.9	9	7	14	83.7	75.9	92.8
1	Region 21	78.5	78.5	78.5	36.7	36.7	36.7	28.3	28.3	28.3	61.7	61.7	61.7	10.0	10.0	10.0	0.8	0.8	0.8	0.8	0.8	0.8	2	2	2	91.4	91.4	91.4
2	Region 22	77.2	77.2	77.2	34.2	34.1	34.2	28.6	27.3	29.8	62.8	59.5	66.0	8.7	6.7	10.7	1.4	1.2	1.5	1.1	0.9	1.3	4	4	4	88.4	86.9	89.8
11	Region 23	79.0	77.2	81.5	35.2	33.4	36.9	31.0	16.7	38.6	61.2	54.8	66.8	7.8	4.6	17.5	1.7	0.9	2.7	1.4	0.8	2.3	3	0	5	93.5	85.7	97.7
9	Region 24	78.3	74.0	80.0	35.1	33.7	40.3	31.4	12.5	55.8	58.8	41.4	66.9	9.7	2.8	20.6	1.7	0.9	5.1	1.2	0.8	2.3	6	0	21	90.6	82.3	100.7
12	Region 25	75.7	73.2	79.0	32.2	29.7	36.1	17.2	3.6	35.0	67.2	56.6	75.7	15.6	6.3	39.5	3.0	0.5	8.4	2.1	0.5	5.9	4	0	12	76.7	56.6	96.1
4	Region 26	76.5	73.4	79.5	30.8	26.2	33.7	17.8	14.7	22.9	64.5	55.2	72.6	17.7	11.7	30.1	1.9	0.3	3.1	1.5	0.2	2.5	3	0	5	81.0	73.3	92.1
1	Region 27	74.0	74.0	74.0	35.6	35.6	35.6	34.0	34.0	34.0	58.0	58.0	58.0	8.0	8.0	8.0	6.2	6.2	6.2	4.7	4.7	4.7	12	12	12	87.1	87.1	87.1
6	Region 28	75.8	74.3	77.8	32.6	29.1	37.0	14.4	10.4	22.0	68.8	64.4	73.7	16.8	9.2	22.1	2.8	1.4	6.0	1.8	0.8	3.2	10	0	31	83.4	73.5	94.5
1	Region 33	76.8	76.8	76.8	32.7	32.7	32.7	13.3	13.3	13.3	66.5	66.5	66.5	20.2	20.2	20.2	0.5	0.5	0.5	0.2	0.2	0.2	4	4	4	88.9	88.9	88.9
3	Region 34	75.8	73.0	79.2	32.5	25.2	36.7	21.5	7.5	31.7	62.3	56.9	65.4	16.2	10.1	27.1	1.6	0.4	2.4	1.3	0.3	1.9	6	4	8	77.9	64.2	84.8
2	Region 36	78.7	77.1	80.3	36.4	35.2	37.6	23.5	20.9	26.1	69.7	69.0	70.4	6.8	3.5	10.1	1.4	1.2	1.5	1.2	1.1	1.2	3	2	3	93.5	91.0	96.0
125	Ave WM 2	77.6			34.1			25.1			63.3			11.6			1.8			1.3			5			88.0		
	Min WM 2				25.2			2.7			41.4			1.7			0.1			0.1			0			56.6		
	Max WM 2				40.3			55.8			75.7			40.3			8.4			8.4			31			111.7		

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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: WM 3																												
1	Region 12	77.8	77.8	77.8	36.4	36.4	36.4	31.4	31.4	31.4	64.8	64.8	64.8	3.8	3.8	3.8	3.4	3.4	3.4	3.0	3.0	3.0	3	3	3	89.8	89.8	89.8
2	Region 13	76.4	75.8	76.9	31.4	30.2	32.5	16.3	5.4	27.1	63.0	61.7	64.2	20.8	11.2	30.4	2.2	1.5	2.9	1.6	1.3	1.8	7	5	8	78.4	74.6	82.2
4	Region 14	75.8	72.6	78.6	34.1	32.7	36.6	33.5	28.6	36.4	58.6	49.6	63.2	8.0	4.6	14.0	2.5	0.5	4.5	2.1	0.5	3.6	3	1	4	86.0	75.4	92.8
1	Region 15	79.9	79.9	79.9	35.0	35.0	35.0	33.9	33.9	33.9	59.0	59.0	59.0	7.1	7.1	7.1	1.8	1.8	1.8	1.4	1.4	1.4	3	3	3	99.7	99.7	99.7
2	Region 17	77.6	77.3	77.8	33.8	31.1	36.5	11.5	10.4	12.5	69.3	62.8	75.8	19.3	13.8	24.7	1.6	1.4	1.8	1.2	1.1	1.3	3	5	5	84.5	81.3	87.7
2	Region 18	76.0	75.6	76.4	33.6	31.3	35.9	27.0	13.0	41.0	61.1	52.9	69.3	11.9	6.1	17.7	2.8	2.1	3.4	2.5	1.7	3.3	6	1	10	86.8	77.1	96.4
3	Region 19	76.5	75.1	77.5	32.6	31.2	34.0	25.2	25.1	25.3	64.0	60.7	66.5	10.8	8.2	14.2	3.2	2.2	4.2	1.9	1.5	2.5	7	5	8	92.5	87.1	101.0
3	Region 20	76.7	75.4	78.6	36.3	33.2	42.4	26.1	24.5	27.3	63.4	61.8	65.3	10.5	7.4	12.5	3.3	1.8	4.3	2.6	1.6	3.1	8	6	12	82.3	59.1	100.3
3	Region 23	75.6	71.9	77.9	31.6	26.0	34.7	24.9	13.6	32.0	66.9	63.2	74.1	8.2	4.8	12.3	2.7	2.6	2.9	2.2	2.0	2.4	5	4	7	90.0	72.0	103.7
3	Region 23	75.6	71.9	77.9	31.6	26.0	34.7	24.9	13.6	32.0	66.9	63.2	74.1	8.2	4.8	12.3	2.7	2.6	2.9	2.2	2.0	2.4	5	4	7	90.0	72.0	103.7
21	Ave WM 3	76.5	71.9	79.9	33.7	26.0	42.4	25.6	5.4	41.0	63.2	49.6	75.8	11.2	3.8	30.4	2.7	0.5	4.5	2.1	0.5	3.6	5	1	12	87.0	59.1	103.7
GRADE: COM																												
1	Region 19	71.3	71.3	71.3	30.8	30.8	30.8	22.0	22.0	22.0	65.9	65.9	65.9	12.1	12.1	12.1	5.6	5.6	5.6	3.2	3.2	3.2	16	16	16	63.6	63.6	63.6
1	Region 20	77.2	77.2	77.2	35.5	35.5	35.5	23.6	23.6	23.6	61.0	61.0	61.0	15.4	15.4	15.4	4.6	4.6	4.6	3.3	3.3	3.3	12	12	12	70.0	70.0	70.0
1	Region 25	73.5	73.5	73.5	33.9	33.9	33.9	27.3	27.3	27.3	61.4	61.4	61.4	11.3	11.3	11.3	4.5	4.5	4.5	3.4	3.4	3.4	3	3	3	71.0	71.0	71.0
3	Ave COM	74.0	71.3	77.2	33.4	30.8	35.5	24.3	22.0	27.3	62.8	61.0	65.9	12.9	11.3	15.4	4.9	4.5	5.6	3.3	3.2	3.4	10	3	16	68.2	63.6	71.0
413	Ave white maize	77.7	71.3	81.8	34.5	25.0	44.0	24.9	1.4	55.8	63.5	33.5	83.9	11.6	1.7	65.1	1.6	0.0	8.4	1.2	0.0	5.9	5	0	31	88.6	54.4	111.7
693	Ave maize	77.1	69.0	81.8	33.5	22.0	44.0	20.7	1.1	55.8	65.6	33.5	83.9	13.8	1.7	65.1	1.8	0.0	8.4	1.3	0.0	5.9	5	0	31	87.5	40.2	111.7
	Min maize	77.1	69.0	81.8	33.5	22.0	44.0	20.7	1.1	55.8	65.6	33.5	83.9	13.8	1.7	65.1	1.8	0.0	8.4	1.3	0.0	5.9	5	0	31	87.5	40.2	111.7
	Max maize	77.1	69.0	81.8	33.5	22.0	44.0	20.7	1.1	55.8	65.6	33.5	83.9	13.8	1.7	65.1	1.8	0.0	8.4	1.3	0.0	5.9	5	0	31	87.5	40.2	111.7