

TABLE 13: PHYSICAL QUALITY FACTORS OF YELLOW 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: YM 1																													
1	Region 08	69.0	69.0	69.0	25.3	25.3	25.3	1.2	1.2	1.2	68.3	68.3	68.3	30.5	30.5	30.5	3.2	3.2	3.2	2.5	2.5	2.5	3	3	3	40.2	40.2	40.2	
29	Region 10	77.3	75.2	81.5	33.1	28.2	40.4	5.0	1.1	11.9	70.1	59.6	79.1	24.9	13.5	36.3	2.2	0.8	4.3	1.8	0.7	3.6	2	0	13	75.8	58.9	101.1	
1	Region 11	75.7	75.7	75.7	31.0	31.0	31.0	2.9	2.9	2.9	66.5	66.5	66.5	30.6	30.6	30.6	0.8	0.8	0.8	0.5	0.5	0.5	4	4	4	74.8	74.8	74.8	
5	Region 12	76.6	75.4	77.4	31.8	27.8	33.2	16.2	6.7	31.4	68.2	57.9	73.1	15.6	10.7	20.2	2.1	1.1	2.8	1.6	1.0	2.3	4	0	9	90.3	84.7	95.1	
6	Region 13	77.0	76.5	77.5	30.4	27.9	34.4	14.6	11.1	18.8	67.9	64.7	71.6	17.5	14.8	21.4	1.5	0.5	2.4	1.1	0.0	1.7	3	2	4	91.6	84.9	100.5	
11	Region 14	76.2	74.5	78.1	32.6	30.1	34.6	16.2	10.2	25.1	68.5	59.2	75.3	15.3	9.7	22.9	1.8	0.9	2.6	1.4	0.6	2.1	4	0	8	92.7	86.1	100.1	
1	Region 15	75.8	75.8	75.8	35.5	35.5	35.5	8.9	8.9	8.9	70.3	70.3	70.3	20.8	20.8	20.8	1.1	1.1	1.1	1.0	1.0	1.0	8	8	8	77.3	77.3	77.3	
2	Region 16	76.8	76.6	76.9	33.4	32.9	33.8	19.5	16.1	22.9	68.7	66.1	71.3	11.8	11.0	12.6	1.2	0.9	1.5	0.9	0.8	0.9	6	2	9	95.1	93.0	97.1	
8	Region 17	76.4	74.3	78.0	33.5	31.4	37.0	17.7	11.5	23.9	70.2	67.2	75.2	12.1	8.8	20.2	1.9	0.7	3.4	1.4	0.7	2.2	6	1	21	89.7	84.8	93.0	
5	Region 18	76.9	75.9	78.8	29.5	22.0	32.3	14.5	7.3	22.6	68.6	60.6	72.8	16.9	13.3	24.9	1.8	1.0	2.5	1.6	1.0	2.3	5	3	9	95.3	87.7	101.2	
10	Region 19	76.4	73.1	79.2	32.7	25.0	36.1	14.7	7.6	21.1	69.7	57.8	73.4	15.6	9.7	34.6	1.8	0.5	3.5	1.3	0.4	2.4	6	1	15	93.3	85.6	100.1	
8	Region 20	76.1	75.2	76.9	33.8	31.6	37.5	19.1	10.8	28.1	68.0	61.9	73.7	12.9	1.9	19.2	1.9	1.0	3.4	1.5	0.8	2.9	6	2	9	88.4	72.9	99.7	
1	Region 21	74.9	74.9	74.9	30.1	30.1	30.1	15.6	15.6	15.6	68.8	68.8	68.8	15.6	15.6	15.6	3.2	3.2	3.2	2.4	2.4	2.4	7	7	7	84.9	84.9	84.9	
2	Region 22	76.0	75.3	76.7	30.1	28.9	31.3	20.6	18.5	22.7	67.7	63.7	71.6	11.8	9.9	13.6	2.3	1.9	2.7	1.6	1.5	1.7	3	2	4	96.8	89.9	103.6	
6	Region 23	77.4	74.5	79.0	32.2	30.6	34.4	13.3	5.1	17.1	70.4	66.3	73.9	16.3	10.8	24.9	2.3	1.1	5.1	1.6	0.8	2.9	6	2	17	95.6	68.8	107.5	
1	Region 24	77.4	77.4	77.4	34.2	34.2	34.2	18.6	18.6	18.6	69.3	69.3	69.3	12.1	12.1	12.1	1.6	1.6	1.6	1.3	1.3	1.3	8	8	8	87.0	87.0	87.0	
19	Region 25	77.1	74.9	78.7	32.6	28.6	35.1	20.3	5.5	30.9	66.5	59.8	74.0	13.2	6.0	26.5	2.1	0.9	4.1	1.5	0.6	2.8	4	1	11	86.4	68.7	100.8	
8	Region 26	76.7	74.9	78.5	33.1	30.9	34.8	17.4	9.7	27.9	68.7	64.1	74.6	14.0	7.0	19.7	1.5	0.9	1.9	1.2	0.6	1.6	6	2	10	87.5	82.7	94.2	
4	Region 27	75.7	75.3	76.0	32.5	31.8	33.6	17.2	14.3	19.6	69.6	67.9	71.4	13.3	10.7	16.4	2.0	1.3	2.4	1.6	1.3	1.9	4	2	5	85.9	81.5	88.8	
27	Region 28	74.9	69.1	78.3	29.9	23.2	34.0	12.6	2.8	23.4	68.2	62.6	75.5	19.2	8.5	33.0	2.3	0.5	4.6	1.6	0.4	3.4	7	1	23	84.3	74.0	90.0	
6	Region 30	77.1	75.6	78.5	31.6	27.8	35.3	10.8	7.6	13.4	74.4	71.0	79.6	14.8	11.8	20.2	3.0	0.8	8.1	2.2	0.8	5.0	4	1	10	79.2	71.8	89.4	
1	Region 31	78.7	78.7	78.7	30.3	30.3	30.3	21.9	21.9	21.9	65.4	65.4	65.4	12.7	12.7	12.7	1.0	1.0	1.0	0.5	0.5	0.5	4	4	4	93.8	93.8	93.8	
8	Region 32	77.1	74.6	79.2	33.4	29.2	38.2	20.9	10.2	40.2	64.6	49.1	73.4	14.5	7.5	20.2	1.7	0.9	2.7	1.3	0.7	2.2	6	1	17	90.6	77.8	97.4	
6	Region 33	74.5	72.9	75.8	30.6	27.9	32.6	10.5	6.7	13.4	68.5	58.8	74.1	21.0	15.9	27.8	1.0	0.5	2.5	0.8	0.3	2.1	4	2	9	82.3	76.1	89.9	
9	Region 34	76.6	72.1	80.0	32.0	24.1	39.2	17.4	5.2	43.7	67.9	52.6	75.7	14.8	3.7	40.4	1.4	0.6	2.6	1.1	0.6	2.0	6	0	13	86.2	70.3	102.7	
3	Region 35	77.1	76.8	77.7	33.4	29.4	35.5	5.5	2.8	9.9	65.1	62.7	67.4	29.4	24.8	34.5	2.0	1.8	2.4	1.7	1.3	2.1	3	2	6	78.3	71.2	85.4	
14	Region 36	77.0	75.6	78.9	33.0	28.2	35.0	13.4	5.7	23.3	71.0	62.4	76.2	15.6	6.9	31.9	2.1	1.3	3.1	1.6	1.0	2.4	5	1	12	88.8	83.0	97.4	
212	Ave YM 1	76.5	69.0	81.5	32.1	22.0	40.4	14.1	1.1	43.7	68.7	49.1	79.6	17.1	1.9	40.4	2.0	0.5	8.1	1.5	0.0	5.0	5	0	23	86.0	40.2	107.5	
	Min YM 1																												
	Max YM 1																												

TABLE 13: PHYSICAL QUALITY FACTORS OF YELLOW MAIZE ACCORDING TO GRADE (2010/2011)
(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.	ave.	min.	max.	ave.							min.	max.				
GRADE: YM 2																													
3	Region 12	75.9	74.6	77.2	31.5	28.9	35.3	13.9	10.4	20.6	69.7	67.4	70.9	16.4	8.5	21.9	2.9	2.1	3.4	2.1	1.7	2.8	3	1	6	87.8	81.1	97.8	
3	Region 13	75.9	75.2	76.3	31.0	30.3	32.1	18.0	15.8	21.5	69.7	65.3	73.6	12.3	9.7	13.9	1.9	1.6	2.1	1.3	1.2	1.6	3	0	9	85.3	84.2	86.6	
4	Region 14	76.4	75.3	77.8	32.9	29.1	37.5	17.2	14.1	18.7	69.0	67.1	73.0	13.9	9.0	17.7	1.7	1.2	2.3	1.4	0.9	1.8	5	2	8	90.5	83.0	98.3	
3	Region 16	75.5	74.8	75.9	33.7	32.8	35.2	21.1	19.7	22.2	63.1	62.0	64.0	15.7	15.1	16.3	2.7	1.8	3.9	1.9	1.3	2.5	13	7	23	89.0	86.2	92.1	
1	Region 17	76.5	76.5	76.5	32.7	32.7	32.7	18.2	18.2	18.2	63.5	63.5	63.5	18.3	18.3	18.3	2.0	2.0	2.0	1.9	1.9	1.9	5	5	5	83.9	83.9	83.9	
3	Region 18	76.0	74.6	76.8	30.7	28.6	32.1	16.0	14.2	17.4	66.7	64.9	67.7	17.3	15.0	20.9	3.0	2.4	3.8	2.2	1.7	2.7	3	0	7	89.2	83.1	94.8	
5	Region 19	74.5	73.8	75.5	30.4	28.2	34.4	8.7	6.3	12.5	72.0	68.5	79.1	19.3	14.6	23.7	2.0	0.9	4.2	1.4	0.5	2.6	9	2	24	84.2	81.1	86.3	
4	Region 20	75.8	74.8	76.9	32.4	30.2	34.9	17.4	13.4	20.5	68.3	66.3	71.7	14.4	10.6	16.0	3.6	1.9	5.3	2.7	1.4	4.8	8	5	12	88.5	80.2	99.1	
1	Region 22	74.3	74.3	74.3	33.7	33.7	33.7	14.4	14.4	14.4	68.8	68.8	68.8	16.8	16.8	16.8	1.7	1.7	1.7	1.3	1.3	1.3	10	10	10	74.3	74.3	74.3	
10	Region 23	76.1	74.3	77.8	32.6	28.5	36.6	15.3	9.6	23.0	70.5	67.5	76.9	14.2	8.7	22.9	2.3	1.2	4.1	1.9	0.9	3.4	5	1	8	90.6	81.4	96.6	
9	Region 25	75.6	73.6	78.5	30.5	27.0	33.4	16.3	6.3	36.6	69.4	58.4	78.5	14.3	5.0	27.6	3.0	0.9	6.7	2.1	0.4	4.7	6	0	14	82.0	71.0	96.4	
4	Region 26	74.0	72.2	75.2	29.6	27.9	33.1	12.0	8.0	15.5	66.7	62.8	70.4	21.3	18.1	24.4	2.7	1.5	4.1	1.9	1.0	3.1	10	5	18	75.4	72.8	82.0	
3	Region 27	74.1	70.7	75.9	29.5	28.8	30.1	13.7	9.6	17.8	70.2	66.5	73.2	16.2	15.6	17.2	2.0	1.7	2.5	1.5	1.3	1.9	9	4	18	87.4	86.2	88.1	
6	Region 28	74.8	74.0	76.8	29.7	26.9	31.9	13.9	11.3	15.3	66.4	57.6	71.5	19.8	14.7	29.0	3.3	2.3	4.2	2.4	1.8	3.2	8	6	11	83.5	80.5	87.3	
1	Region 30	78.8	78.8	78.8	33.4	33.4	33.4	10.9	10.9	10.9	75.6	75.6	75.6	13.5	13.5	13.5	1.8	1.8	1.8	1.7	1.7	1.7	8	8	8	95.3	95.3	95.3	
1	Region 33	70.2	70.2	70.2	30.4	30.4	30.4	20.6	20.6	20.6	67.7	67.7	67.7	11.7	11.7	11.7	1.1	1.1	1.1	1.0	1.0	1.0	9	9	9	73.7	73.7	73.7	
2	Region 36	75.6	72.6	78.5	29.4	22.6	36.1	13.1	1.8	24.4	53.2	39.5	66.8	33.8	8.8	58.7	2.1	1.9	2.3	1.7	1.6	1.7	9	1	16	79.4	58.8	100.0	
63	Ave YM 2	75.4			31.3	22.6	37.5	15.1	1.8	36.6	68.3	39.5	79.1	16.6	5.0	58.7	2.5	0.9	6.7	1.9	0.4	4.8	7	0	24	85.5	58.8	100.0	
	Min YM 2																												
	Max YM 2																												

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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		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: YM3																												
1	Region 20	73.7	73.7	73.7	30.4	30.4	30.4	19.3	19.3	19.3	65.8	65.8	65.8	14.9	14.9	14.9	3.5	3.5	3.5	2.7	2.7	2.7	9	9	9	68.9	68.9	68.9
2	Region 23	75.2	74.1	76.3	32.4	27.7	37.1	17.8	13.5	22.0	69.3	67.1	71.5	13.0	6.5	19.4	3.2	2.6	3.7	2.4	1.9	2.9	4	2	5	84.7	82.3	87.1
3	Ave YM 3	74.7			31.7			18.3			68.1			13.6			3.3			2.5			5			79.4		
	Min YM 3	73.7			27.7			13.5			65.8			6.5			2.6			1.9			2			68.9		
	Max YM 3	76.3			37.1			22.0			71.5			19.4			3.7			2.9			9			87.1		
GRADE: COM																												
1	Region 12	74.8	74.8	74.8	33.2	33.2	33.2	19.9	19.9	19.9	67.3	67.3	67.3	12.8	12.8	12.8	3.9	3.9	3.9	3.3	3.3	3.3	4	4	4	74.1	74.1	74.1
1	Region 20	74.3	74.3	74.3	38.1	38.1	38.1	21.9	21.9	21.9	70.5	70.5	70.5	7.6	7.6	7.6	1.8	1.8	1.8	1.6	1.6	1.6	6	6	6	74.9	74.9	74.9
2	Ave COM	74.6			35.7			20.9			68.9			10.2			2.9			2.5			5			74.5		
	Min COM	74.3			33.2			19.9			67.3			7.6			1.8			1.6			4			74.1		
	Max COM	74.8			38.1			21.9			70.5			12.8			3.9			3.3			6			74.9		
280 Ave yellow maize																												
	Min yellow maize	76.2			31.9			14.4			68.6			16.9			2.1			1.6			5			85.8		
	Max yellow maize	69.0			22.0			1.1			39.5			1.9			0.5			0.0			0			40.2		
	Max yellow maize	81.5			40.4			43.7			79.6			58.7			8.1			5.0			24			107.5		
693 Ave maize																												
	Min maize	77.1			33.5			20.7			65.6			13.8			1.8			1.3			5			87.5		
	Max maize	69.0			22.0			1.1			33.5			1.7			0.0			0.0			0			40.2		
	Max maize	81.8			44.0			55.8			83.9			65.1			8.4			5.9			31			111.7		