

TABLE 19: PHYSICAL QUALITY FACTORS OF YELLOW MAIZE ACCORDING TO GRADE 2003/2004

Number of samples	Region	Hectolitre mass			100			Kernel size (%)									Breakability (g)						Stress cracks (%)				
		kg/hl			kernel mass (g)			Above 10 mm sieve			Above 8mm sieve			Below 8 mm sieve			< 6.3mm sieve			< 4.75mm sieve							
		ave.	min.	max.	ave.	min.	max.	ave.	min.	max.	ave.	min.	max.	ave.	min.	max.	ave.	min.	max.	ave.	min.	max.	ave.	min.	max.	ave.	min.
GRADE: YM 1																											
8	Region 10	78.6	75.8	79.7	34.5	32.1	36.0	9.4	5.5	15.7	67.9	62.1	72.4	22.7	18.0	29.1	1.7	0.6	2.9	1.3	0.6	2.3	6	1	14		
25	Region 11	78.2	77.0	79.7	34.4	28.0	38.4	9.5	3.8	19.7	70.8	62.3	79.4	19.7	12.0	26.5	1.5	0.4	2.8	1.1	0.3	1.8	6	2	15		
8	Region 12	77.8	76.6	79.7	33.0	28.6	37.8	22.1	10.4	32.1	65.6	56.1	71.4	12.4	7.1	19.4	1.7	1.0	2.8	1.3	0.6	1.9	5	0	7		
5	Region 13	77.0	76.2	77.5	33.5	31.2	37.0	18.7	13.7	26.5	67.4	62.6	71.3	13.9	7.3	21.4	1.3	0.9	1.5	0.9	0.7	1.2	6	3	8		
7	Region 14	77.5	76.1	79.0	31.6	29.9	36.0	17.8	13.1	24.1	68.9	62.8	76.6	13.3	10.0	18.1	4.3	0.4	22.0	3.9	0.3	21.5	5	3	9		
3	Region 15	78.2	77.4	78.8	31.4	30.9	32.1	17.0	6.6	24.7	64.7	60.8	68.5	18.3	14.5	24.9	1.7	0.7	3.2	1.3	0.6	2.3	10	4	21		
1	Region 16	77.9	77.9	77.9	37.5	37.5	37.5	30.2	30.2	30.2	63.6	63.6	63.6	6.2	6.2	6.2	1.5	1.5	1.5	0.9	0.9	0.9	6	6	6		
4	Region 17	76.7	75.0	78.3	36.0	32.5	43.1	20.1	6.3	39.8	67.6	57.2	75.6	12.3	3.0	18.1	1.4	0.8	1.9	1.0	0.5	1.3	7	4	14		
8	Region 18	76.4	75.3	77.4	33.4	31.1	35.8	21.6	12.7	30.8	67.3	62.9	72.8	11.1	6.1	19.3	1.7	0.9	4.6	1.2	0.3	2.9	6	3	10		
5	Region 19	76.6	73.9	78.1	33.7	29.3	35.5	22.6	17.6	27.0	64.0	60.8	66.3	13.4	9.6	21.6	2.0	1.0	3.5	1.5	0.9	3.3	7	5	9		
3	Region 20	77.1	76.3	78.4	34.7	33.0	37.1	32.2	27.4	39.2	62.9	56.6	68.0	4.9	4.2	5.9	0.9	0.5	1.4	0.7	0.3	1.1	4	2	6		
1	Region 21	79.4	79.4	79.4	35.9	35.9	35.9	7.6	7.6	7.6	77.9	77.9	77.9	14.5	14.5	14.5	0.8	0.8	0.8	0.6	0.6	0.6	6	6	6		
6	Region 22	77.9	74.3	79.4	35.7	32.5	38.7	20.1	5.5	28.4	66.8	62.9	74.8	13.1	8.0	19.7	1.2	0.4	1.6	0.8	0.4	1.1	9	3	23		
18	Region 23	76.8	70.8	78.9	34.1	30.1	37.9	25.0	4.8	46.8	63.2	46.2	71.9	11.8	2.8	30.8	1.4	0.5	5.4	1.1	0.2	4.1	7	3	12		
13	Region 24	77.4	74.8	79.9	33.6	27.5	37.5	17.3	2.3	30.6	64.5	48.0	73.7	18.2	5.4	49.7	1.6	0.6	5.2	1.1	0.6	2.1	9	0	23		
15	Region 25	76.6	74.3	77.9	33.9	28.3	45.8	18.3	5.3	36.2	63.0	55.5	70.8	18.7	8.1	30.2	1.4	0.5	7.5	0.9	0.1	4.3	11	0	60		
18	Region 26	77.8	73.8	79.2	34.7	28.1	38.3	21.4	4.5	33.5	65.8	57.3	71.3	12.8	6.0	29.7	1.6	0.5	8.6	1.0	0.4	4.9	11	2	30		
10	Region 27	77.6	76.3	78.8	34.2	32.0	37.3	20.6	12.1	28.1	66.9	57.2	73.1	12.6	8.8	22.1	1.5	0.4	2.5	0.9	0.3	1.7	11	1	34		
19	Region 28	77.4	75.0	79.4	34.3	30.6	37.8	20.9	7.3	32.1	64.1	57.6	75.4	14.9	8.4	24.8	1.7	0.3	4.2	1.2	0.3	2.4	13	4	34		
12	Region 29	77.7	75.9	80.1	35.5	32.5	38.4	26.4	8.6	40.3	62.0	51.9	69.5	11.6	4.0	24.6	1.2	0.4	2.0	0.8	0.3	1.2	8	3	14		
3	Region 30	77.0	75.7	78.9	38.8	35.5	42.9	49.3	43.5	59.8	43.1	35.8	52.9	7.6	3.6	14.9	0.5	0.4	0.7	0.4	0.3	0.5	4	1	7		
7	Region 32	77.6	75.4	79.4	37.2	34.9	38.9	33.2	26.6	36.9	59.8	55.0	64.1	7.0	3.5	9.3	0.8	0.2	1.7	0.6	0.1	1.6	5	2	6		
18	Region 34	77.3	74.7	78.9	35.1	30.3	48.9	22.7	10.3	34.4	63.3	54.9	69.7	14.0	5.7	29.2	1.0	0.3	3.0	0.7	0.2	2.8	5	2	10		
7	Region 35	75.0	69.1	78.9	32.5	28.4	38.1	16.6	7.7	23.3	67.5	60.4	72.6	15.9	7.7	22.9	2.6	0.7	6.8	2.3	0.5	6.8	4	1	12		
1	Region 36	77.9	77.9	77.9	31.0	31.0	31.0	6.7	6.7	6.7	68.8	68.8	68.8	24.5	24.5	24.5	1.0	1.0	1.0	0.7	0.7	0.7	9	9	9		
225	Ave YM 1	77.4			34.3			20.2			65.2			14.6			1.5			1.1			8				
	Min YM 1	69.1			27.5			2.3			35.8			2.8			0.2			0.1			0				
	Max YM 1	80.1			48.9			59.8			79.4			49.7			22.0			21.5			60				

**TABLE 19: PHYSICAL QUALITY FACTORS OF YELLOW MAIZE ACCORDING TO GRADE 2003/2004
(continue)**

Number of samples	Region	Hectolitre mass kg/hl			100 kernel mass (g)			Kernel size (%)									Breakability (g)						Stress cracks (%)			
		ave.	min.	max.	ave.	min.	max.	Above 10 mm sieve			Above 8mm sieve			Below 8 mm sieve			< 6.3mm sieve			< 4.75mm sieve			ave.	min.	max.	
								ave.	min.	max.	ave.	min.	max.	ave.	min.	max.	ave.	min.	max.	ave.	min.	max.				ave.
GRADE: YM 2																										
1	Region 11	77.4	77.4	77.4	35.7	35.7	35.7	5.7	5.7	5.7	69.7	69.7	69.7	24.6	24.6	24.6	2.8	2.8	2.8	1.9	1.9	1.9	5	5	5	
3	Region 12	75.3	72.8	78.1	33.6	32.9	34.6	21.9	20.0	24.7	65.2	63.7	66.3	12.8	9.6	16.3	2.3	1.4	4.1	1.7	0.9	3.1	8	5	14	
3	Region 14	76.7	75.4	78.1	30.9	29.7	32.4	15.0	9.1	20.4	70.0	65.6	74.3	15.0	9.4	25.3	2.0	1.5	2.2	1.5	1.4	1.7	4	3	4	
3	Region 15	77.1	76.3	78.7	31.8	30.8	33.6	23.6	19.7	30.8	64.0	59.3	69.6	12.5	9.9	17.3	1.2	0.4	2.0	0.6	0.3	1.3	8	5	13	
2	Region 16	76.0	74.5	77.5	30.7	28.7	32.7	17.6	8.9	26.3	66.4	62.6	70.1	16.1	11.1	21.0	1.6	1.1	2.0	1.1	0.9	1.3	5	3	6	
9	Region 17	76.8	73.9	78.7	33.1	30.3	36.3	22.6	12.8	38.1	65.8	61.1	71.0	11.6	0.8	16.2	1.7	0.6	4.5	1.1	0.3	2.7	7	3	21	
6	Region 18	74.8	73.2	75.9	34.5	32.1	37.6	22.8	17.0	33.1	66.1	58.3	69.8	11.2	7.1	14.8	1.9	1.1	3.5	1.4	0.9	2.6	10	6	16	
4	Region 19	76.0	73.9	78.0	32.6	31.6	33.8	24.9	20.6	31.3	66.3	57.8	72.6	8.8	6.8	10.9	1.0	0.7	1.4	0.8	0.6	1.1	5	3	9	
4	Region 20	76.1	75.4	77.5	34.1	33.1	35.0	30.4	20.4	38.9	62.9	55.6	72.8	6.7	5.5	7.8	1.4	0.7	2.4	0.9	0.6	1.4	5	2	8	
2	Region 22	76.7	75.4	77.9	37.0	35.8	38.2	24.5	22.7	26.2	64.9	64.1	65.6	10.7	8.2	13.2	1.6	1.5	1.6	1.2	1.1	1.3	9	4	13	
4	Region 23	76.7	74.3	79.0	29.8	27.3	31.5	11.4	2.6	19.0	61.1	43.5	72.8	27.5	13.6	53.9	2.0	0.8	5.2	1.4	0.6	3.5	8	1	24	
4	Region 24	76.5	75.0	77.2	38.6	26.7	62.9	11.7	0.9	19.6	63.7	52.2	68.4	24.7	14.6	46.9	2.9	2.3	3.6	1.9	1.7	2.3	9	2	26	
6	Region 26	78.2	76.5	80.1	34.4	31.1	35.9	15.3	5.1	38.5	70.1	52.2	77.6	14.6	9.3	21.3	1.7	0.9	2.7	1.1	0.6	1.8	10	5	17	
3	Region 27	74.0	70.8	76.3	33.0	30.7	34.2	19.1	13.6	22.4	68.6	65.2	73.3	12.3	11.5	13.1	3.3	3.2	3.3	1.9	1.8	2.0	10	5	16	
8	Region 28	76.1	73.5	77.9	32.7	30.4	36.0	22.6	8.1	44.5	64.9	51.0	73.2	12.5	4.5	18.7	3.0	2.1	4.9	1.9	1.3	3.0	9	4	13	
1	Region 29	75.4	75.4	75.4	32.8	32.8	32.8	14.5	14.5	14.5	71.0	71.0	71.0	14.5	14.5	14.5	2.5	2.5	2.5	1.7	1.7	1.7	7	7	7	
4	Region 34	76.1	75.4	76.6	34.0	31.1	35.7	27.6	23.5	30.4	62.2	59.2	65.2	10.2	7.2	12.8	1.3	0.8	1.8	1.0	0.5	1.6	5	1	9	
1	Region 36	78.5	78.5	78.5	34.9	34.9	34.9	6.7	6.7	6.7	76.4	76.4	76.4	16.9	16.9	16.9	2.3	2.3	2.3	1.7	1.7	1.7	5	5	5	
68	Ave YM 2	76.3			33.5			20.4			65.8			13.8			2.0			1.3			8.0			
	Min YM 2		70.8			26.7			0.9			43.5			0.8			0.4			0.3			1.0		
	Max YM 2			80.1			62.9			44.5			77.6			53.9			5.2			3.5			26.0	

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(continue)**

Number of samples	Region	Hectolitre mass kg/hl			100 kernel mass (g)			Kernel size (%)									Breakability (g)						Stress cracks (%)			
								Above 10 mm sieve			Above 8mm sieve			Below 8 mm sieve			< 6.3mm sieve			< 4.75mm sieve						
		ave.	min.	max.	ave.	min.	max.	ave.	min.	max.	ave.	min.	max.	ave.	min.	max.	ave.	min.	max.	ave.	min.	max.	ave.	min.	max.	ave.
GRADE: YM 3																										
1	Region 12	74.9	74.9	74.9	34.5	34.5	34.5	22.4	22.4	22.4	69.7	69.7	69.7	7.9	7.9	7.9	5.4	5.4	5.4	3.8	3.8	3.8	3	3	3	
1	Region 14	74.8	74.8	74.8	25.6	25.6	25.6	14.6	14.6	14.6	65.3	65.3	65.3	20.1	20.1	20.1	5.1	5.1	5.1	3.1	3.1	3.1	8	8	8	
1	Region 18	75.2	75.2	75.2	30.9	30.9	30.9	21.5	21.5	21.5	68.3	68.3	68.3	10.2	10.2	10.2	3.2	3.2	3.2	2.0	2.0	2.0	4	4	4	
2	Region 20	71.7	68.0	75.4	33.5	32.9	34.1	26.3	26.1	26.4	65.2	65.0	65.3	8.6	8.6	8.6	1.6	0.8	2.4	1.0	0.7	1.3	4	2	6	
1	Region 28	76.2	76.2	76.2	29.1	29.1	29.1	21.0	21.0	21.0	64.2	64.2	64.2	14.8	14.8	14.8	2.0	2.0	2.0	1.4	1.4	1.4	11	11	11	
6	Ave YM 3	74.1			31.2			22.0			66.3			11.7			3.2			2.1			6			
	Min YM 3		68.0			25.6			14.6			64.2		7.9				0.8			0.7			2		
	Max YM 3			76.2			34.5			26.4			69.7			20.1			5.4			3.8			11	
GRADE: COM																										
1	Region 19	74.1	74.1	74.1	30.6	30.6	30.6	21.8	21.8	21.8	69.6	69.6	69.6	8.6	8.6	8.6	2.0	2.0	2.0	1.5	1.5	1.5	6	6	6	
1	Region 20	70.4	70.4	70.4	25.5	25.5	25.5	8.2	8.2	8.2	66.3	66.3	66.3	25.5	25.5	25.5	1.8	1.8	1.8	1.4	1.4	1.4	9	9	9	
2	Ave COM	72.3			28.1			15.0			68.0			17.1			1.9			1.5			8			
	Min COM		70.4			25.5			8.2			66.3		8.6				1.8			1.4			6		
	Max COM			74.1			30.3			21.8			69.6			25.5			2.0			1.5			9	
301	Ave yellow maize	77.0			34.0			20.2			65.4			14.4			1.7			1.2			8			
	Min yellow maize		68.0			25.5			0.9			35.8		0.8				0.2			0.1			0		
	Max yellow maize			80.1			62.9			59.8			79.4			53.9			22.0			21.5			60	
900	Ave maize	77.8			35.5			26.6			61.3			12.1			1.5			1.1			7			
	Min maize		63.8			23.7			0.4			31.0		0.8				0.0			0.0			0		
	Max maize			83.2			62.9			65.5			79.4			64.9			22.0			21.5			60	

**TABLE 19: PHYSICAL QUALITY FACTORS OF YELLOW MAIZE 2003/2004
(continue)**

Number of samples	Region	Hectolitre mass			100			Kernel size (%)									Breakability (g)						Stress cracks (%)			
		kg/hl			kernel mass (g)			Above 10 mm sieve			Above 8mm sieve			Below 8 mm sieve			< 6.3mm sieve			< 4.75mm sieve						
		ave.	min.	max.	ave.	min.	max.	ave.	min.	max.	ave.	min.	max.	ave.	min.	max.	ave.	min.	max.	ave.	min.	max.	ave.	min.	max.	
YELLOW																										
8	Region 10	78.6	75.8	79.7	34.5	32.1	36.0	9.4	5.5	15.7	67.9	62.1	72.4	22.7	18.0	29.1	1.7	0.6	2.9	1.3	0.6	2.3	6	1	14	
26	Region 11	78.2	77.0	79.7	34.5	28.0	38.4	9.3	3.8	19.7	70.8	62.3	79.4	19.9	12.0	26.5	1.5	0.4	2.8	1.1	0.3	1.9	6	2	15	
12	Region 12	77.0	72.8	79.7	33.3	28.6	37.8	22.1	10.4	32.1	65.8	56.1	71.4	12.1	7.1	19.4	2.2	1.0	5.4	1.6	0.6	3.8	5	0	14	
5	Region 13	77.0	76.2	77.5	33.5	31.2	37.0	18.7	13.7	26.5	67.4	62.6	71.3	13.9	7.3	21.4	1.3	0.9	1.5	0.9	0.7	1.2	6	3	8	
11	Region 14	77.0	74.8	79.0	30.9	25.6	36.0	16.7	9.1	24.1	68.9	62.8	76.6	14.4	9.4	25.3	3.8	0.4	22.0	3.2	0.3	21.5	5	3	9	
6	Region 15	77.7	76.3	78.8	31.6	30.8	33.6	20.3	6.6	30.8	64.3	59.3	69.6	15.4	9.9	24.9	1.5	0.4	3.2	1.0	0.3	2.3	9	4	21	
3	Region 16	76.6	74.5	77.9	33.0	28.7	37.5	21.8	8.9	30.2	65.4	62.6	70.1	12.8	6.2	21.0	1.5	1.1	2.0	1.0	0.9	1.3	5	3	6	
13	Region 17	76.8	73.9	78.7	34.0	30.3	43.1	21.8	6.3	39.8	66.4	57.2	75.6	11.8	0.8	18.1	1.6	0.6	4.5	1.0	0.3	2.7	7	3	21	
15	Region 18	75.7	73.2	77.4	33.6	30.9	37.6	22.1	12.7	33.1	66.9	58.3	72.8	11.1	6.1	19.3	1.9	0.9	4.6	1.3	0.3	2.9	7	3	16	
10	Region 19	76.1	73.9	78.1	32.9	29.3	35.5	23.4	17.6	31.3	65.5	57.8	72.6	11.1	6.8	21.6	1.6	0.7	3.5	1.3	0.6	3.3	6	3	9	
10	Region 20	75.0	68.0	78.4	33.3	25.5	37.1	27.9	8.2	39.2	63.7	55.6	72.8	8.4	4.2	25.5	1.3	0.5	2.4	0.9	0.3	1.4	5	2	9	
1	Region 21	79.4	79.4	79.4	35.9	35.9	35.9	7.6	7.6	7.6	77.9	77.9	77.9	14.5	14.5	14.5	0.8	0.8	0.8	0.6	0.6	0.6	6	6	6	
8	Region 22	77.6	74.3	79.4	36.0	32.5	38.7	21.2	5.5	28.4	66.3	62.9	74.8	12.5	8.0	19.7	1.3	0.4	1.6	0.9	0.4	1.3	9	3	23	
22	Region 23	76.8	70.8	79.0	33.3	27.3	37.9	22.5	2.6	46.8	62.8	43.5	72.8	14.7	2.8	53.9	1.5	0.5	5.4	1.1	0.2	4.1	7	1	24	
17	Region 24	77.2	74.8	79.9	34.8	26.7	62.9	16.0	0.9	30.6	64.3	48.0	73.7	19.7	5.4	49.7	1.9	0.6	5.2	1.3	0.6	2.3	9	0	26	
15	Region 25	76.6	74.3	77.9	33.9	28.3	45.8	18.3	5.3	36.2	63.0	55.5	70.8	18.7	8.1	30.2	1.4	0.5	7.5	0.9	0.1	4.3	11	0	60	
24	Region 26	77.9	73.8	80.1	34.6	28.1	38.3	19.8	4.5	38.5	66.9	52.2	77.6	13.3	6.0	29.7	1.6	0.5	8.6	1.0	0.4	4.9	11	2	30	
13	Region 27	76.8	70.8	78.8	33.9	30.7	37.3	20.2	12.1	28.1	67.3	57.2	73.3	12.5	8.8	22.1	1.9	0.4	3.3	1.1	0.3	2.0	11	1	34	
28	Region 28	77.0	73.5	79.4	33.6	29.1	37.8	21.4	7.3	44.5	64.4	51.0	75.4	14.2	4.5	24.8	2.1	0.3	4.9	1.4	0.3	3.0	12	4	34	
13	Region 29	77.5	75.4	80.1	35.3	32.5	38.4	25.5	8.6	40.3	62.7	51.9	71.0	11.8	4.0	24.6	1.3	0.4	2.5	0.9	0.3	1.7	8	3	14	
3	Region 30	77.0	75.7	78.9	38.8	35.5	42.9	49.3	43.5	59.8	43.1	35.8	52.9	7.6	3.6	14.9	0.5	0.4	0.7	0.4	0.3	0.5	4	1	7	
7	Region 32	77.6	75.4	79.4	37.2	34.9	38.9	33.2	26.6	36.9	59.8	55.0	64.1	7.0	3.5	9.3	0.8	0.2	1.7	0.6	0.1	1.6	5	2	6	
22	Region 34	77.0	74.7	78.9	34.9	30.3	48.9	23.6	10.3	34.4	63.1	54.9	69.7	13.3	5.7	29.2	1.1	0.3	3.0	0.7	0.2	2.8	5	1	10	
7	Region 35	75.0	69.1	78.9	32.5	28.4	38.1	16.6	7.7	23.3	67.5	60.4	72.6	15.9	7.7	22.9	2.6	0.7	6.8	2.3	0.5	6.8	4	1	12	
2	Region 36	78.2	77.9	78.5	33.0	31.0	34.9	6.7	6.7	6.7	72.6	68.8	76.4	20.7	16.9	24.5	1.7	1.0	2.3	1.2	0.7	1.7	7	5	9	
301	Ave yellow	77.0			34.0			20.2			65.4			14.4			1.7			1.2			8			
	Min yellow		68.0			25.5			0.9			35.8			0.8			0.2			0.1			0		
	Max yellow			80.1			62.9			59.8			79.4			53.9			22.0			21.5			60	