

TABLE 18: PHYSICAL QUALITY FACTORS OF YELLOW MAIZE ACCORDING TO GRADE 2004/2005

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.
GRADE: YM 1																										
9	Region 10	77.9	75.6	80.3	35.6	30.2	38.2	11.3	3.5	30.6	69.7	53.7	78.4	19.0	10.0	42.8	4.1	0.6	24.4	2.6	0.3	12.9	5.1	2.0	8.0	
29	Region 11	78.9	75.8	80.7	34.1	29.2	44.4	7.4	1.5	17.8	72.6	63.8	79.5	20.0	9.3	32.5	1.6	0.8	4.0	1.2	0.4	2.9	5.0	2.0	9.0	
7	Region 12	76.8	76.1	77.8	31.8	28.9	35.2	22.5	11.7	33.4	63.3	56.8	68.9	14.3	1.4	19.8	1.6	0.8	2.8	1.3	0.7	2.5	4.0	1.0	7.0	
4	Region 13	76.9	76.2	77.4	34.8	32.2	36.6	23.7	13.8	32.2	61.7	57.4	65.9	14.6	1.9	24.4	2.5	0.6	3.9	2.1	0.5	3.4	5.3	4.0	7.0	
12	Region 14	76.9	74.8	79.2	31.5	29.1	37.2	14.8	3.8	38.0	67.5	53.8	77.7	17.7	3.0	29.7	1.4	0.4	2.7	1.1	0.3	2.0	4.3	0.0	11.0	
5	Region 15	76.4	75.0	78.1	30.0	27.8	34.0	10.4	4.5	17.3	69.4	65.2	73.4	20.2	14.8	26.3	1.7	1.1	2.0	1.2	0.9	1.4	4.8	3.0	8.0	
5	Region 16	77.0	75.4	78.5	32.7	31.9	34.4	22.9	18.4	26.9	66.0	62.7	69.2	11.1	6.0	15.2	2.2	0.7	3.9	1.5	0.6	2.4	5.8	4.0	8.0	
8	Region 17	76.2	73.9	77.8	31.3	27.6	33.4	15.6	4.8	23.6	66.6	61.8	73.8	17.8	10.1	27.4	1.8	1.0	2.9	1.4	0.7	2.7	4.6	2.0	9.0	
9	Region 18	76.5	73.2	79.0	33.0	31.3	36.1	24.3	16.2	32.5	65.4	57.9	72.0	10.2	4.8	13.4	1.6	1.0	2.7	1.2	0.8	2.1	4.9	0.0	9.0	
8	Region 19	76.7	75.7	77.8	32.1	31.2	32.5	26.2	15.5	34.2	62.9	60.1	68.9	10.9	5.7	17.8	1.2	0.6	1.8	0.9	0.0	1.6	6.5	4.0	10.0	
6	Region 20	76.7	75.4	77.4	32.7	31.8	34.2	19.4	12.2	34.1	63.7	58.3	70.4	17.0	5.7	23.0	1.1	0.2	1.8	1.0	0.1	1.6	4.8	4.0	6.0	
8	Region 21	76.8	76.1	77.8	33.2	31.4	37.2	19.6	9.4	26.2	63.8	57.2	74.9	16.6	13.0	26.0	1.4	1.0	1.9	1.0	0.7	1.3	4.0	2.0	6.0	
5	Region 22	77.4	75.9	79.7	32.8	29.9	36.0	23.2	20.1	30.3	65.6	60.1	73.1	11.2	6.6	17.1	1.4	1.0	1.7	1.1	0.9	1.2	3.8	0.0	8.0	
10	Region 23	77.4	74.4	79.0	31.9	29.0	37.3	15.1	4.9	37.0	67.1	59.3	81.1	17.8	3.7	25.6	2.1	0.8	4.3	1.6	0.7	3.3	2.7	0.0	5.0	
15	Region 24	77.0	74.0	78.5	33.6	27.9	39.9	18.0	2.0	32.1	64.7	57.8	80.0	17.4	8.9	34.1	1.6	0.7	3.8	1.3	0.5	3.3	4.5	0.0	11.0	
9	Region 25	76.7	75.0	79.8	33.2	29.6	36.9	19.0	3.4	34.4	63.6	58.6	71.3	17.4	2.8	37.9	1.9	0.8	2.9	1.3	0.2	2.1	6.7	5.0	10.0	
13	Region 26	77.4	76.6	78.1	33.1	31.7	35.0	22.6	12.6	32.4	64.1	57.4	72.3	13.3	6.3	21.5	1.7	1.0	3.5	1.1	0.7	1.9	5.0	1.0	11.0	
9	Region 27	76.9	75.7	77.5	33.3	31.7	35.2	19.4	8.6	30.3	63.9	57.9	72.1	16.7	10.6	27.7	1.3	0.9	2.3	1.0	0.7	1.4	4.8	3.0	10.0	
21	Region 28	76.2	68.4	78.2	32.5	27.8	35.7	20.1	3.2	41.0	62.2	50.5	71.9	17.7	3.1	46.3	2.1	0.8	5.0	1.4	0.3	3.1	6.5	0.0	21.0	
26	Region 29	77.9	73.6	80.5	34.6	25.2	44.1	24.2	4.9	36.4	62.5	53.1	71.3	13.2	3.5	33.1	1.4	0.3	2.8	1.1	0.2	2.2	4.8	1.0	14.0	
15	Region 30	77.2	72.9	78.9	34.0	31.5	35.8	24.1	12.5	35.2	63.8	55.6	72.5	12.1	7.0	23.8	1.8	0.9	3.3	1.1	0.4	2.2	4.8	1.0	14.0	
23	Region 31	77.1	72.5	78.8	33.7	30.2	36.6	27.8	15.3	33.4	62.8	57.4	71.5	9.4	5.4	22.9	1.3	0.6	2.8	1.0	0.5	1.9	5.6	1.0	18.0	
28	Region 32	75.9	69.0	78.5	33.7	28.3	38.0	26.3	8.8	39.7	61.2	34.0	71.3	12.4	3.4	37.2	1.4	0.7	2.9	1.0	0.5	1.7	2.5	0.0	7.0	
9	Region 33	77.5	77.1	78.5	33.8	31.4	36.3	22.9	6.6	35.4	65.7	52.4	75.0	11.4	5.9	20.9	1.4	0.4	5.3	1.1	0.4	3.8	4.7	0.0	15.0	
16	Region 34	77.3	75.4	81.0	32.8	30.8	35.8	24.3	2.9	33.1	61.4	56.7	65.9	14.3	5.7	40.4	1.2	0.8	2.4	0.9	0.6	1.6	6.6	3.0	11.0	
9	Region 35	76.7	74.3	79.9	32.4	26.2	39.6	14.8	2.9	33.4	65.5	59.3	71.3	19.7	4.8	34.3	2.1	0.7	5.4	1.5	0.4	4.1	4.4	1.0	13.0	
6	Region 36	76.2	74.1	77.4	33.2	25.5	40.2	30.2	14.3	46.9	54.9	44.9	73.9	15.0	8.2	26.6	1.4	0.8	1.7	1.0	0.6	1.2	4.5	1.0	7.0	
324	Ave YM 1	77.1			33.2			20.4			64.6			15.0			1.6			1.2			4.8			
	Min YM 1		68.4			25.2			1.5			34.0		1.4				0.2			0.0			0.0		
	Max YM 1			81.0			44.4			46.9			81.1			46.3			24.4				12.9			21.0

**TABLE 18: PHYSICAL QUALITY FACTORS OF YELLOW MAIZE ACCORDING TO GRADE 2004/2005
(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.			
GRADE: YM 2																									
1	Region 10	77.0	77.0	77.0	30.8	30.8	30.8	2.3	2.3	2.3	47.8	47.8	47.8	49.9	49.9	49.9	1.4	1.4	1.4	1.0	1.0	1.0	3.0	3.0	3.0
1	Region 11	77.1	77.1	77.1	29.9	29.9	29.9	4.1	4.1	4.1	82.3	82.3	82.3	13.6	13.6	13.6	2.3	2.3	2.3	1.4	1.4	1.4	15.0	15.0	15.0
2	Region 12	76.6	75.7	77.4	33.5	33.1	33.8	12.3	4.8	19.8	71.9	69.9	73.8	15.9	10.3	21.4	2.3	1.5	3.1	1.3	0.7	1.8	4.5	4.0	5.0
4	Region 13	76.0	75.4	76.8	32.9	32.5	33.8	19.5	11.2	22.6	60.7	57.9	65.8	19.8	17.9	23.0	2.1	0.9	3.5	1.9	0.7	3.3	5.3	4.0	6.0
3	Region 14	76.7	76.1	77.2	33.2	32.4	34.3	20.7	7.3	36.0	61.3	51.6	67.0	18.1	12.4	27.5	0.9	0.5	1.3	0.7	0.4	0.9	4.0	0.0	6.0
2	Region 15	75.4	75.0	75.7	29.2	26.7	31.6	21.7	20.8	22.5	62.1	60.4	63.7	16.3	13.8	18.8	1.8	1.0	2.6	1.1	0.8	1.4	6.0	5.0	7.0
2	Region 16	76.0	75.6	76.4	30.9	28.9	32.9	11.7	3.6	19.8	62.0	60.3	63.7	26.3	19.9	32.7	2.0	1.8	2.2	1.6	1.5	1.6	3.5	3.0	4.0
4	Region 17	75.4	73.2	76.5	30.2	25.8	32.5	17.4	8.9	26.8	64.4	60.7	68.6	18.3	9.8	26.4	2.9	1.7	4.4	2.0	1.2	2.8	5.8	3.0	7.0
2	Region 18	74.0	71.1	76.9	31.5	31.3	31.6	24.7	24.3	25.1	60.8	59.2	62.4	14.5	13.3	15.7	3.3	1.6	5.0	2.3	1.3	3.2	8.0	3.0	13.0
2	Region 19	76.9	76.2	77.5	34.0	31.3	36.7	11.4	4.5	18.2	66.1	54.9	77.3	22.6	18.2	26.9	2.2	0.9	3.5	1.9	0.8	3.0	5.5	5.0	6.0
1	Region 20	77.5	77.5	77.5	34.8	34.8	34.8	13.8	13.8	13.8	63.2	63.2	63.2	23.0	23.0	23.0	1.0	1.0	1.0	0.9	0.9	0.9	4.0	4.0	4.0
1	Region 21	76.3	76.3	76.3	29.7	29.7	29.7	16.7	16.7	16.7	67.3	67.3	67.3	16.0	16.0	16.0	1.0	1.0	1.0	0.8	0.8	0.8	4.0	4.0	4.0
3	Region 22	76.2	75.9	76.4	33.4	31.9	34.5	20.1	16.4	24.2	65.0	61.6	68.7	14.9	7.1	22.0	1.2	1.0	1.6	1.1	0.8	1.4	8.7	8.0	9.0
4	Region 23	75.6	74.9	76.6	30.2	23.1	34.8	11.6	3.4	20.1	62.3	51.1	68.3	26.2	15.6	45.5	1.9	1.5	2.3	1.4	1.1	1.6	4.8	3.0	6.0
3	Region 24	75.8	74.2	76.7	31.1	27.3	34.2	20.9	12.7	29.4	60.5	56.9	62.8	18.6	13.7	25.5	0.9	0.8	1.0	0.7	0.6	0.9	6.0	3.0	11.0
2	Region 25	74.4	72.0	76.8	34.1	33.2	35.0	18.6	10.1	27.0	66.7	63.5	69.8	14.8	9.5	20.1	2.0	0.5	3.5	1.4	0.4	2.3	6.5	6.0	7.0
4	Region 26	76.2	75.2	77.5	33.8	30.2	38.5	23.5	14.5	34.4	59.9	56.6	63.7	16.6	6.2	28.9	3.3	0.9	4.8	2.3	0.7	3.8	8.3	5.0	12.0
1	Region 27	75.7	75.7	75.7	36.1	36.1	36.1	18.9	18.9	18.9	63.2	63.2	63.2	17.9	17.9	17.9	2.6	2.6	2.6	1.4	1.4	1.4	14.0	14.0	14.0
8	Region 28	74.9	70.9	77.9	31.0	26.3	34.8	18.3	2.3	41.7	61.8	49.0	69.5	20.0	9.3	38.3	2.0	1.5	2.9	1.4	0.7	2.0	4.1	0.0	9.0
8	Region 29	76.3	74.8	78.4	30.7	22.5	34.3	13.8	1.9	33.1	61.9	50.5	71.1	24.4	6.1	47.6	1.7	0.9	3.0	1.2	0.7	1.6	6.3	2.0	19.0
5	Region 30	75.8	73.2	77.8	33.1	32.3	34.4	19.9	12.9	33.1	63.3	55.5	78.1	16.8	8.7	31.6	1.7	1.0	3.5	1.2	0.9	2.4	7.8	2.0	20.0
4	Region 31	75.4	71.7	77.3	29.3	21.5	32.0	17.6	1.0	32.6	55.4	32.9	70.1	27.0	5.1	66.1	2.0	0.9	4.2	1.4	0.8	2.5	4.0	1.0	9.0
3	Region 36	73.9	73.4	74.5	31.8	30.5	33.2	13.4	10.5	18.4	68.1	63.3	72.2	18.6	17.3	20.1	2.7	1.9	3.6	2.0	1.3	2.7	4.7	1.0	9.0
70	Ave YM 2	75.7			31.7			17.1			62.6			20.3			2.0			1.4			5.9		
	Min YM 2	70.9			21.5			1.0			32.9			5.1			0.5			0.4			0.0		
	Max YM 2	78.4			38.5			41.7			82.3			66.1			5.0			3.8			20.0		

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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.
YELLOW																										
10	Region 10	77.9	75.6	80.3	35.1	30.2	38.2	10.4	2.3	30.6	67.5	47.8	78.4	22.1	10.0	49.9	3.9	0.6	24.4	2.4	0.3	12.9	4.9	2.0	8.0	
30	Region 11	78.9	75.8	80.7	33.9	29.2	44.4	7.3	1.5	17.8	72.9	63.8	82.3	19.8	9.3	32.5	1.7	0.8	4.0	1.3	0.4	2.9	5.3	2.0	15.0	
9	Region 12	76.8	75.7	77.8	32.1	28.9	35.2	20.2	4.8	33.4	65.2	56.8	73.8	14.6	1.4	21.4	1.7	0.8	3.1	1.3	0.7	2.5	4.1	1.0	7.0	
8	Region 13	76.5	75.4	77.5	33.9	32.2	36.6	21.6	11.2	32.2	61.2	57.4	65.9	17.2	1.9	24.4	2.3	0.6	3.9	2.0	0.5	3.4	5.3	4.0	7.0	
18	Region 14	76.6	72.6	79.2	32.2	29.1	37.2	16.8	3.8	38.0	66.3	51.6	77.7	16.9	3.0	29.7	1.3	0.4	2.7	1.0	0.3	2.0	4.4	0.0	11.0	
7	Region 15	76.1	75.0	78.1	29.8	26.7	34.0	13.6	4.5	22.5	67.3	60.4	73.4	19.1	13.8	26.3	1.7	1.0	2.6	1.2	0.8	1.4	5.1	3.0	8.0	
7	Region 16	76.7	75.4	78.5	32.2	28.9	34.4	19.7	3.6	26.9	64.8	60.3	69.2	15.5	6.0	32.7	2.1	0.7	3.9	1.5	0.6	2.4	5.1	3.0	8.0	
12	Region 17	75.9	73.2	77.8	30.9	25.8	33.4	16.2	4.8	26.8	65.9	60.7	73.8	18.0	9.8	27.4	2.1	1.0	4.4	1.6	0.7	2.8	5.0	2.0	9.0	
11	Region 18	76.1	71.1	79.0	32.7	31.3	36.1	24.4	16.2	32.5	64.6	57.9	72.0	11.0	4.8	15.7	1.9	1.0	5.0	1.4	0.8	3.2	5.5	0.0	13.0	
10	Region 19	76.8	75.7	77.8	32.5	31.2	36.7	23.2	4.5	34.2	63.5	54.9	77.3	13.3	5.7	26.9	1.4	0.6	3.5	1.1	0.0	3.0	6.3	4.0	10.0	
7	Region 20	76.8	75.4	77.5	33.0	31.8	34.8	18.6	12.2	34.1	63.6	58.3	70.4	17.8	5.7	23.0	1.1	0.2	1.8	1.0	0.1	1.6	4.7	4.0	6.0	
9	Region 21	76.8	76.1	77.8	32.8	29.7	37.2	19.3	9.4	26.2	64.2	57.2	74.9	16.6	13.0	26.0	1.3	1.0	1.9	1.0	0.7	1.3	4.0	2.0	6.0	
8	Region 22	77.0	75.9	79.7	33.0	29.9	36.0	22.1	16.4	30.3	65.4	60.1	73.1	12.6	6.6	22.0	1.3	1.0	1.7	1.1	0.8	1.4	5.6	0.0	9.0	
14	Region 23	76.9	74.4	79.0	31.4	23.1	37.3	14.1	3.4	37.0	65.7	51.1	81.1	20.2	3.7	45.5	2.1	0.8	4.3	1.5	0.7	3.3	3.3	0.0	6.0	
18	Region 24	76.8	74.0	78.5	33.1	27.3	39.9	18.5	2.0	32.1	64.0	56.9	80.0	17.6	8.9	34.1	1.5	0.7	3.8	1.2	0.5	3.3	4.8	0.0	11.0	
11	Region 25	76.3	72.0	78.8	33.4	29.6	36.9	18.9	3.4	34.4	64.1	58.6	71.3	17.0	2.8	37.9	1.9	0.5	3.5	1.3	0.2	2.3	6.6	5.0	10.0	
18	Region 26	76.8	71.2	78.1	32.8	25.0	38.5	21.6	2.1	34.4	63.5	56.6	72.3	14.9	6.2	28.9	2.2	0.9	4.8	1.4	0.7	3.8	5.6	1.0	12.0	
10	Region 27	76.8	75.7	77.5	33.6	31.7	36.1	19.4	8.6	30.3	63.8	57.9	72.1	16.8	10.6	27.7	1.5	0.9	2.6	1.0	0.7	1.4	5.7	3.0	14.0	
29	Region 28	75.9	68.4	78.2	32.1	26.3	35.7	19.6	2.3	41.7	62.1	49.0	71.9	18.3	3.1	46.3	2.0	0.8	5.0	1.4	0.3	3.1	5.8	0.0	21.0	
34	Region 29	77.5	73.6	80.5	33.7	22.5	44.1	21.8	1.9	36.4	62.4	50.5	71.3	15.9	3.5	47.6	1.5	0.3	3.0	1.1	0.2	2.2	5.1	1.0	19.0	
21	Region 30	76.6	72.3	78.9	33.9	31.5	36.9	23.2	12.5	35.2	63.8	55.5	78.1	13.0	7.0	31.6	1.9	0.9	3.8	1.2	0.4	2.7	5.8	1.0	20.0	
27	Region 31	76.8	71.7	78.8	33.0	21.5	36.6	26.3	1.0	33.4	61.7	32.9	71.5	12.0	5.1	66.1	1.4	0.6	4.2	1.1	0.5	2.5	5.4	1.0	18.0	
28	Region 32	75.9	69.0	78.5	33.7	28.3	38.0	26.3	8.8	39.7	61.2	34.0	71.3	12.4	3.4	37.2	1.4	0.7	2.9	1.0	0.5	1.7	2.5	0.0	7.0	
9	Region 33	77.5	77.1	78.5	33.8	31.4	36.3	22.9	6.6	35.4	65.7	52.4	75.0	11.4	5.9	20.9	1.4	0.4	5.3	1.1	0.4	3.8	4.7	0.0	15.0	
16	Region 34	77.3	75.4	81.0	32.8	30.8	35.8	24.3	2.9	33.1	61.4	56.7	65.9	14.3	5.7	40.4	1.2	0.8	2.4	0.9	0.6	1.6	6.6	3.0	11.0	
9	Region 35	76.7	74.3	79.9	32.4	26.2	39.6	14.8	2.9	33.4	65.5	59.3	71.3	19.7	4.8	34.3	2.1	0.7	5.4	1.5	0.4	4.1	4.4	1.0	13.0	
9	Region 36	75.5	73.4	77.4	32.8	25.5	40.2	24.6	10.5	46.9	59.3	44.9	73.9	16.2	8.2	26.6	1.8	0.8	3.9	1.3	0.6	2.7	4.6	1.0	9.0	
399	Ave yellow	76.8			33.0			19.8			64.3			15.9			1.7			1.2			5.0			
	Min yellow		68.4			21.5			1.0			32.9		1.4			0.2			0.0			0.0			
	Max yellow			81.0			44.4			46.9			82.3			66.1			24.4				12.9			21.0