

TABLE 13: PHYSICAL QUALITY FACTORS OF YELLOW MAIZE ACCORDING TO GRADE (2009/2010)

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: YM 1																												
27	Region 10	77.5	74.2	79.6	35.5	31.9	40.4	4.8	2.3	7.3	71.6	56.6	78.9	23.5	15.4	36.1	2.1	0.7	9.2	1.7	0.5	8.4	7	1	20	84.2	68.1	96.7
4	Region 11	77.2	75.7	78.9	34.3	30.3	39.1	6.2	1.6	17.4	65.9	55.2	72.6	27.9	11.2	43.2	2.1	1.3	3.3	1.5	1.0	2.2	3	0	6	83.4	75.8	88.4
4	Region 12	77.0	74.8	78.2	31.0	26.1	34.6	8.8	4.1	10.9	70.2	67.8	72.0	21.1	18.3	28.1	1.6	0.9	2.3	1.3	0.9	1.9	3	2	5	87.9	77.3	93.0
4	Region 13	77.5	76.9	78.1	32.7	29.9	34.6	16.7	10.2	22.9	69.0	67.3	73.4	14.4	9.3	16.8	1.7	1.2	2.1	1.2	1.1	1.5	3	2	3	93.8	91.9	95.4
6	Region 14	77.0	74.8	78.7	33.1	31.2	34.3	15.7	12.5	22.8	70.8	65.5	75.1	13.6	11.7	16.2	1.8	1.2	3.5	1.5	1.0	2.8	3	0	4	92.8	86.0	104.3
3	Region 15	77.0	76.7	77.3	34.7	33.6	35.9	7.5	3.6	14.2	72.2	71.4	73.4	20.2	13.9	23.8	2.5	2.3	2.8	2.2	1.8	2.5	8	4	11	88.5	81.5	97.3
3	Region 16	76.2	75.6	77.1	33.6	32.4	35.1	16.2	14.2	19.0	70.4	68.7	72.1	13.3	12.3	15.3	2.0	1.8	2.1	1.5	1.3	1.6	4	3	6	94.6	93.5	95.2
6	Region 17	76.4	75.4	77.2	32.1	30.4	33.5	17.6	12.3	26.0	69.5	66.9	73.5	12.9	6.4	20.8	1.9	1.1	2.6	1.4	0.9	2.1	3	1	7	90.6	83.1	102.5
6	Region 18	76.2	75.0	77.3	32.3	30.3	34.2	17.5	16.0	19.9	68.8	65.7	70.7	13.7	11.1	15.8	2.0	0.6	3.3	1.6	0.5	2.8	5	1	8	91.0	83.6	97.2
2	Region 19	76.7	75.6	77.8	31.6	31.6	31.6	12.9	8.3	17.4	71.2	68.7	73.7	16.0	13.9	18.0	1.4	1.2	1.6	1.3	1.0	1.5	3	2	3	87.1	80.5	93.6
5	Region 20	77.2	76.3	78.7	33.6	31.6	36.0	20.2	13.8	28.5	67.4	63.0	71.1	12.4	8.5	18.0	1.8	1.6	2.0	1.3	1.2	1.4	3	0	8	90.3	85.9	92.5
8	Region 21	76.6	74.6	77.5	32.3	28.7	36.0	13.3	7.8	16.6	69.5	65.7	71.7	17.2	13.4	22.3	2.1	1.1	3.5	1.6	0.6	2.6	3	0	6	93.9	88.7	104.7
2	Region 22	76.7	76.4	76.9	30.6	30.3	30.8	13.0	12.2	13.8	71.6	71.0	72.1	15.5	14.1	16.8	1.3	1.2	1.3	0.9	0.7	1.1	3	2	4	92.5	88.7	96.3
9	Region 23	77.9	75.6	80.6	35.1	32.4	39.3	18.5	7.3	35.6	68.8	56.3	74.2	12.7	4.0	26.0	1.7	0.8	2.8	1.5	0.7	2.4	4	0	8	102.0	82.2	117.3
6	Region 24	76.5	73.9	79.1	31.2	23.3	33.9	14.9	8.6	22.4	69.7	65.1	73.8	15.4	11.8	22.9	2.3	0.6	5.3	1.6	0.6	3.2	9	0	13	91.3	81.3	98.0
23	Region 25	77.3	75.1	79.1	34.4	28.7	37.4	14.6	2.7	31.4	68.6	59.0	73.5	16.8	6.6	28.6	1.7	0.5	2.8	1.3	0.4	2.0	4	0	11	88.2	76.2	97.3
11	Region 26	76.9	76.1	78.0	31.7	26.7	36.5	13.9	9.5	22.2	68.5	62.0	76.4	17.6	12.0	24.4	2.2	0.9	3.9	1.5	0.6	2.3	6	2	12	89.9	83.2	101.5
4	Region 27	76.2	75.5	77.1	36.4	34.8	38.4	23.0	15.1	33.9	67.5	59.3	75.0	9.5	6.8	13.5	3.3	1.6	5.4	2.4	1.1	3.7	8	1	15	94.0	88.3	101.0
35	Region 28	76.1	71.2	78.4	32.3	28.7	36.2	14.1	6.1	23.4	69.5	57.2	77.0	16.5	8.9	28.7	2.4	0.7	5.4	1.8	0.6	3.7	6	1	17	88.2	71.3	100.5
27	Region 29	76.9	70.8	79.3	32.0	25.3	37.8	14.7	3.2	30.8	68.0	61.3	75.4	17.3	5.6	26.5	1.9	0.5	5.2	1.4	0.4	3.7	5	0	20	92.1	78.6	103.2
8	Region 30	76.6	75.7	78.0	33.3	31.0	36.1	14.7	10.0	24.6	69.0	57.6	76.9	16.3	5.8	23.4	1.7	0.9	2.4	1.3	0.6	1.8	5	2	8	91.2	80.4	95.7
7	Region 31	77.9	75.4	81.6	34.7	30.9	39.4	19.9	10.5	38.7	67.2	55.0	73.0	12.8	6.3	20.0	1.6	1.1	2.2	1.2	0.7	1.7	3	1	6	94.0	82.7	105.0
8	Region 32	77.3	76.0	79.4	35.2	32.1	42.5	22.9	10.0	34.9	65.0	59.8	73.3	12.1	5.3	19.2	2.0	1.0	3.3	1.6	1.0	2.4	3	1	5	88.2	80.0	93.8
7	Region 34	77.6	76.3	78.7	35.5	32.3	38.5	23.8	14.7	32.3	65.5	60.0	69.2	10.7	4.9	17.7	1.2	0.4	2.3	1.0	0.3	1.7	3	0	5	93.4	88.3	101.1
5	Region 35	76.2	74.1	78.7	31.8	30.4	35.3	11.9	5.9	15.1	66.5	56.2	74.3	21.6	14.4	28.7	2.5	2.0	3.3	2.0	1.8	2.4	4	1	6	87.9	75.4	96.8
8	Region 36	76.7	75.6	77.9	35.1	31.6	37.9	20.6	11.9	41.7	66.7	50.9	73.7	12.7	7.4	19.2	1.7	0.7	2.9	1.2	0.7	2.0	5	2	11	89.3	80.9	103.4
238	Ave YM 1	76.9			33.4			14.5			68.9			16.7			2.0			1.5			5			90.0		
	Min YM 1			70.8			23.3		1.6		50.9			4.0			0.4			0.3			0			68.1		
	Max YM 1			81.6			42.5		41.7		78.9			43.2			9.2			8.4			20			117.3		

TABLE 13: PHYSICAL QUALITY FACTORS OF YELLOW MAIZE ACCORDING TO GRADE (2009/2010)
(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: YM 2																												
3	Region 12	76.6	75.7	77.2	32.2	30.5	33.3	17.4	11.1	22.7	65.6	62.8	67.2	17.0	14.4	22.1	1.7	1.0	2.2	1.3	0.7	1.7	2	0	4	83.1	79.1	86.6
1	Region 13	76.4	76.4	76.4	31.6	31.6	31.6	13.9	13.9	13.9	70.5	70.5	70.5	15.6	15.6	15.6	2.0	2.0	2.0	1.7	1.7	1.7	3	3	3	90.2	90.2	90.2
4	Region 14	74.7	69.0	76.8	31.8	29.6	34.4	13.1	11.6	14.9	68.1	63.1	70.2	18.8	15.2	25.3	2.4	1.5	3.7	2.0	1.2	3.0	4	1	7	82.1	75.3	91.3
1	Region 15	77.6	77.6	77.6	32.7	32.7	32.7	21.9	21.9	21.9	60.3	60.3	60.3	17.8	17.8	17.8	1.8	1.8	1.8	1.4	1.4	1.4	1	1	1	100.2	100.2	100.2
2	Region 16	74.8	73.7	75.9	33.4	33.2	33.6	18.5	14.9	22.0	70.3	69.7	70.8	11.3	7.2	15.4	2.8	2.1	3.5	2.2	1.6	2.8	5	5	5	85.7	83.2	88.2
2	Region 18	77.2	74.3	80.1	35.0	31.8	38.2	10.4	1.9	18.8	73.8	71.6	75.9	15.9	5.3	26.5	1.7	1.4	1.9	1.4	1.1	1.6	4	2	5	78.2	70.4	86.0
2	Region 19	76.7	76.3	77.1	32.4	32.1	32.6	14.0	12.2	15.7	73.4	71.6	75.1	12.7	9.2	16.2	2.5	2.0	2.9	1.9	1.2	2.5	3	1	4	97.1	94.2	99.9
3	Region 20	76.3	75.8	77.3	31.0	29.6	32.4	10.1	6.7	14.0	68.2	62.9	70.9	21.7	15.2	27.5	1.9	1.7	2.0	1.4	1.2	1.5	2	0	4	83.8	80.6	86.6
1	Region 21	72.3	72.3	72.3	27.1	27.1	27.1	1.2	1.2	1.2	66.1	66.1	66.1	32.7	32.7	32.7	1.7	1.7	1.7	1.5	1.5	1.5	1	1	1	52.7	52.7	52.7
1	Region 22	74.2	74.2	74.2	35.0	35.0	35.0	8.9	8.9	8.9	69.2	69.2	69.2	21.9	21.9	21.9	1.7	1.7	1.7	1.6	1.6	1.6	4	4	4	55.5	55.5	55.2
1	Region 23	75.9	75.9	75.9	32.1	32.1	32.1	14.7	14.7	14.7	68.5	68.5	68.5	16.8	16.8	16.8	3.0	3.0	3.0	2.2	2.2	2.2	9	9	9	92.3	92.3	92.3
1	Region 24	74.4	74.4	74.4	35.3	35.3	35.3	10.7	10.7	10.7	78.7	78.7	78.7	10.6	10.6	10.6	1.9	1.9	1.9	1.7	1.7	1.7	0	0	0	72.5	72.5	72.5
8	Region 25	75.1	70.0	77.9	33.9	30.4	36.6	17.5	3.2	25.4	65.9	54.3	70.5	16.6	7.1	42.5	3.1	1.8	5.1	2.2	1.4	3.2	7	1	11	89.5	80.8	96.5
6	Region 26	75.6	74.9	76.0	28.4	26.1	30.0	7.9	6.2	11.8	65.0	56.2	70.0	27.2	22.8	32.6	2.3	1.6	4.5	1.7	1.0	3.0	5	2	9	80.3	75.8	85.6
6	Region 27	76.6	75.5	77.6	32.3	28.7	34.8	13.5	5.9	18.4	70.0	66.6	73.5	16.5	11.4	24.4	2.5	1.9	3.7	1.9	1.5	2.3	5	0	10	87.4	75.3	97.0
28	Region 28	75.7	72.8	77.8	31.9	26.2	35.8	15.8	0.0	37.5	66.2	52.3	74.9	17.9	6.6	47.7	2.8	1.1	10.3	2.0	0.9	7.1	7	2	27	85.3	70.7	101.7
13	Region 29	75.9	70.8	78.2	31.8	27.1	37.7	10.6	6.3	16.5	68.0	56.1	73.4	21.4	14.0	36.1	2.4	1.4	4.0	1.7	0.9	2.5	6	2	15	88.1	78.6	100.1
4	Region 30	75.8	73.3	77.8	31.0	29.7	32.2	11.5	7.8	16.8	68.3	64.2	73.4	20.3	16.5	28.0	1.8	1.3	2.8	1.3	0.9	2.2	6	1	14	88.3	74.0	98.1
6	Region 31	78.1	76.5	80.5	33.8	32.0	35.0	17.2	10.6	31.0	65.8	58.1	72.6	17.1	9.8	25.4	1.9	1.4	2.8	1.5	0.9	2.4	4	0	8	93.9	85.8	102.3
1	Region 32	77.6	77.6	77.6	34.3	34.3	34.3	18.1	18.1	18.1	69.5	69.5	69.5	12.4	12.4	12.4	2.8	2.8	2.8	2.0	2.0	2.0	8	8	8	93.7	93.7	93.7
3	Region 34	77.9	76.6	78.9	35.1	33.9	35.8	17.3	11.6	20.5	69.2	64.2	76.9	13.5	11.5	16.0	1.3	1.3	1.4	1.0	0.9	1.2	2	0	5	88.3	87.8	89.0
97	Ave YM 2	76.0			32.2			14.0			67.4			18.5			2.4			1.8			5			86.1		
	Min YM 2	69.0			26.1			0.0			52.3			5.3			1.0			0.7			0			52.7		
	Max YM 2	80.5			38.2			37.5			78.7			47.7			10.3			7.1			27			102.3		

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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 12	75.8	75.8	75.8	29.6	29.6	29.6	7.6	7.6	7.6	75.8	75.8	75.8	16.6	16.6	16.6	2.4	2.4	2.4	1.5	1.5	1.5	2	2	2	80.3	80.3	80.3
1	Region 13	77.1	77.1	77.1	31.7	31.7	31.7	6.4	6.4	6.4	74.3	74.3	74.3	19.3	19.3	19.3	2.7	2.7	2.7	2.3	2.3	2.3	2	2	2	81.0	81.0	81.0
1	Region 20	75.8	75.8	75.8	38.9	38.9	38.9	21.9	21.9	21.9	72.6	72.6	72.6	5.5	5.5	5.5	3.8	3.8	3.8	2.4	2.4	2.4	2	2	2	90.1	90.1	90.1
1	Region 26	76.5	76.5	76.5	30.2	30.2	30.2	9.6	9.6	9.6	68.1	68.1	68.1	22.3	22.3	22.3	1.8	1.8	1.8	1.1	1.1	1.1	5	5	5	100.6	100.6	100.6
1	Region 28	74.9	74.9	74.9	27.4	27.4	27.4	4.0	4.0	4.0	69.9	69.9	69.9	26.1	26.1	26.1	3.8	3.8	3.8	2.7	2.7	2.7	2	2	2	72.8	72.8	72.8
1	Region 36	73.7	73.7	73.7	31.6	31.6	31.6	6.4	6.4	6.4	64.1	64.1	64.1	29.5	29.5	29.5	1.9	1.9	1.9	1.5	1.5	1.5	1	1	1	67.1	67.1	67.1
6	Ave YM 3	75.6			31.6			9.3			70.8			19.9			2.7			1.9			2			82.0		
	Min YM 3		73.7		27.4			4.0			64.1			5.5			1.8			1.1			1			67.1		
	Max YM 3		77.1		38.9			21.9			75.8			29.5			3.8			2.7			5			100.6		
GRADE: COM																												
1	Region 30	72.9	72.9	72.9	34.2	34.2	34.2	11.0	11.0	11.0	79.9	79.9	79.9	9.1	9.1	9.1	3.0	3.0	3.0	1.8	1.8	1.8	18	18	18	101.2	101.2	101.2
1	Ave COM	72.9			34.2			11.0			79.9			9.1			3.0			1.8			18			101.2		
	Min COM		72.9		34.2			11.0			79.9			9.1			3.0			1.8			18			101.2		
	Max COM		72.9		34.2			11.0			79.9			9.1			3.0			1.8			18			101.2		
342	Ave yellow maize	76.6			33.0			14.3			68.5			17.2			2.1			1.6			5			88.8		
	Min yellow maize		69.0		23.3			0.0			50.9			4.0			0.4			0.3			0			52.7		
	Max yellow maize		81.6		42.5			41.7			79.9			47.7			10.3			8.4			27			117.3		
800	Ave maize	77.4			34.7			21.1			65.1			13.7			1.8			1.4			4			90.3		
	Min maize		60.2		23.3			0.0			9.2			0.1			0.2			0.1			0			52.7		
	Max maize		84.4		59.1			90.7			82.0			53.5			24.3			23.1			36			119.1		