

TABLE 10: PHYSICAL QUALITY FACTORS OF YELLOW MAIZE ACCORDING TO GRADE (2012/2013)

Number of samples	Region	Hectolitre mass (kg/htl)			100 kernel mass (g)			Above 10 mm sieve			Above 8 mm sieve			Below 8 mm sieve			Breakage susceptibility (%)						Stress cracks (%)			Milling index										
		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.	max.	ave.	min.	max.					
GRADE: YM1																																				
13	Region 10	79.6	76.8	80.9	31.8	28.7	37.3	2.4	0.8	4.9	65.6	57.8	71.5	32.0	24.9	41.0	1.1	0.2	2.6	0.9	0.1	2.2	5	1	13	92.3	78.0	103.4								
19	Region 11	78.1	75.9	79.9	31.6	28.5	34.9	3.8	1.0	8.1	62.6	45.9	71.2	33.6	24.2	53.1	1.5	0.6	2.2	1.2	0.6	1.7	5	0	10	91.6	70.9	104.4								
6	Region 12	76.8	74.2	78.9	25.1	21.4	27.4	5.0	0.8	8.3	52.6	37.4	61.1	42.4	30.6	61.7	1.5	1.0	2.0	0.9	0.6	1.2	4	1	6	97.6	86.6	105.2								
3	Region 13	78.4	77.1	79.9	23.9	22.1	26.5	6.7	1.7	11.2	59.3	52.3	66.4	34.0	26.5	46.0	1.3	0.8	2.2	0.9	0.5	1.7	3	1	4	103.8	96.9	113.5								
6	Region 14	77.3	73.7	79.9	24.3	19.3	29.4	5.4	1.4	12.0	54.9	46.1	65.9	39.8	22.1	52.5	1.2	0.6	1.5	0.8	0.5	1.1	3	1	5	105.0	91.6	117.4								
1	Region 15	79.2	-	-	34.7	-	-	8.7	-	-	66.3	-	-	25.0	-	-	0.7	-	-	0.6	-	-	0	-	-	101.0	-	-								
1	Region 16	77.8	-	-	25.4	-	-	4.4	-	-	61.3	-	-	34.3	-	-	1.6	-	-	1.0	-	-	3	-	-	102.7	-	-								
5	Region 17	76.2	74.7	79.2	23.2	20.4	27.5	5.6	0.5	9.8	56.4	43.4	66.2	38.0	24.0	56.1	2.0	1.5	3.6	1.1	0.8	1.4	3	1	8	97.9	86.5	113.2								
9	Region 18	77.3	69.6	79.9	27.3	17.0	34.6	8.0	0.6	14.3	63.7	33.4	80.9	28.3	9.0	66.0	2.0	1.2	3.3	1.3	0.8	2.9	8	1	16	96.5	64.2	113.6								
6	Region 19	76.0	75.5	76.5	25.3	18.3	32.0	5.3	0.4	14.5	56.7	30.0	74.9	38.0	18.4	69.6	1.2	0.2	1.9	0.8	0.1	1.3	4	1	7	93.8	88.8	97.2								
4	Region 20	77.3	76.9	77.7	26.2	22.4	30.4	6.5	2.8	12.2	63.6	58.2	66.1	29.9	23.5	36.8	2.5	1.7	4.3	1.7	0.8	3.1	7	1	20	99.1	94.3	107.0								
8	Region 21	76.3	73.0	78.7	26.6	23.4	32.3	6.4	1.5	17.5	63.2	58.6	77.9	30.5	14.9	36.9	2.0	1.2	2.7	1.3	0.8	1.6	4	2	9	101.1	96.9	105.7								
4	Region 22	76.7	74.5	77.9	24.6	22.7	27.9	3.7	2.4	5.7	59.0	53.9	62.9	37.4	31.4	43.3	1.5	1.0	2.1	1.1	0.3	1.7	5	2	8	94.9	88.0	100.9								
20	Region 23	77.5	72.0	80.6	27.2	17.4	33.1	10.9	0.7	18.9	59.7	27.4	73.3	29.5	12.7	71.9	2.0	0.7	3.9	1.4	0.7	2.8	4	0	13	98.5	79.0	114.7								
6	Region 24	78.5	75.0	79.9	29.9	26.4	38.4	6.5	3.3	9.2	61.9	51.2	72.4	31.6	20.8	40.3	2.6	1.6	4.4	1.9	1.3	3.0	8	2	12	105.7	96.5	116.4								
15	Region 25	76.3	72.8	79.1	27.2	23.0	34.3	9.0	1.3	24.1	65.5	56.3	75.1	25.5	9.3	42.4	1.2	0.6	2.6	0.8	0.4	2.0	5	2	11	89.0	81.5	100.0								
23	Region 26	76.1	73.7	77.8	24.8	18.9	31.3	7.9	0.7	21.1	58.3	38.0	68.7	33.8	16.0	61.3	1.4	0.3	2.6	0.8	0.1	1.4	5	0	24	93.6	85.1	105.1								
6	Region 27	76.7	71.7	79.1	28.7	23.4	36.4	7.4	1.8	12.4	65.6	57.0	75.9	27.0	12.8	41.2	2.7	1.0	4.5	1.9	0.8	3.7	7	1	15	103.0	84.6	115.2								
17	Region 28	76.2	74.3	78.0	30.7	24.9	36.3	15.5	6.1	25.1	65.2	60.7	71.5	19.2	7.4	31.4	1.4	0.6	2.2	0.9	0.3	1.4	6	0	14	91.0	75.7	100.3								
35	Region 29	77.3	74.7	81.6	30.7	23.7	37.6	12.9	0.0	33.3	67.0	33.0	76.1	20.1	3.4	67.0	1.6	0.6	2.8	1.2	0.5	2.0	7	0	13	99.0	89.9	116.0								
41	Region 30	77.3	73.3	80.1	31.9	23.5	40.2	15.3	0.8	42.6	66.1	45.9	76.2	18.6	3.7	48.8	1.3	0.1	3.6	0.9	0.1	2.6	4	0	16	91.3	77.5	103.8								
42	Region 31	76.5	71.8	79.8	32.0	22.6	41.3	14.7	0.0	35.0	65.2	28.7	76.7	20.2	5.6	71.3	2.3	0.3	8.2	1.5	0.3	5.4	6	0	15	92.2	75.1	107.2								
33	Region 32	77.0	73.4	79.9	29.4	21.4	35.9	13.9	0.0	31.1	63.9	41.3	76.7	22.2	6.0	58.7	1.1	0.2	3.3	0.8	0.2	2.0	5	0	16	86.6	72.4	114.5								
13	Region 33	75.8	72.7	77.1	28.3	23.0	33.0	11.7	1.7	34.5	61.3	48.6	69.8	27.0	13.6	46.8	1.4	0.3	3.6	1.0	0.3	2.8	5	1	10	82.2	62.4	91.4								
24	Region 34	77.6	75.2	80.0	29.9	24.8	36.1	11.5	1.9	30.9	66.9	58.6	72.7	21.6	8.1	37.2	1.8	0.1	3.2	1.4	0.4	2.1	6	0	20	100.9	85.1	113.5								
11	Region 35	76.2	74.1	79.7	32.4	27.0	37.9	9.6	1.4	21.0	65.6	47.4	73.9	24.8	9.6	51.2	2.2	0.6	5.0	1.8	0.5	4.1	7	2	16	84.9	61.8	98.3								
16	Region 36	76.1	71.8	78.4	31.2	25.6	35.6	14.0	2.4	22.1	66.9	53.5	75.0	19.1	7.3	36.0	1.4	0.4	3.5	1.0	0.3	2.9	9	1	19	87.2	70.1	100.9								
387	Ave. YM1	77.0			29.5	17.0	41.3	10.9	0.0	42.6	63.7	27.4	80.9	25.4	3.4	71.9	1.6	0.1	8.2	1.1	0.1	5.4	5	0	24	93.5	61.8	117.4								
	Min. YM1				69.6																															
	Max. YM1				81.6																															

TABLE 10: PHYSICAL QUALITY FACTORS OF YELLOW MAIZE ACCORDING TO GRADE (2012/2013)
(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.
GRADE: YM2																									
1	Region 10	76.6	-	-	30.2	-	-	2.3	-	-	50.4	-	-	1.3	-	-	1.0	-	-	3	-	-	86.1	-	-
4	Region 11	75.3	69.1	78.6	31.6	27.0	36.9	3.6	0.0	7.4	39.2	16.7	72.6	2.7	1.6	5.2	1.8	0.9	4.0	12	4	22	104.6	95.2	113.0
4	Region 12	75.5	73.3	77.1	20.3	16.7	24.4	3.2	0.9	6.5	52.4	39.0	70.8	3.0	1.9	4.0	1.2	0.7	1.8	5	1	7	96.9	83.9	108.4
3	Region 13	74.6	72.6	76.3	20.9	18.8	22.6	2.3	1.5	3.7	53.4	42.9	66.0	2.1	1.2	3.0	0.9	0.8	0.9	2	1	4	96.8	92.6	99.9
6	Region 14	76.0	72.8	78.6	23.0	17.2	27.4	3.0	1.0	7.6	43.9	28.8	67.2	2.1	1.4	3.3	1.0	0.5	1.5	6	1	14	101.1	83.8	107.8
1	Region 15	76.9	-	-	27.7	-	-	16.6	-	-	19.5	-	-	1.0	-	-	0.7	-	-	1	-	-	99.9	-	-
2	Region 16	77.8	76.3	79.3	26.9	26.5	27.3	4.1	3.9	4.3	68.9	68.8	68.9	1.5	1.1	1.9	1.0	0.5	1.5	6	5	7	105.0	100.8	109.1
6	Region 17	75.1	73.8	76.6	21.4	17.3	26.5	3.4	0.7	7.5	51.2	40.1	64.0	2.4	1.3	2.9	1.4	0.9	1.8	3	0	5	96.6	90.3	103.3
2	Region 18	76.8	76.4	77.1	24.7	24.6	24.7	4.7	3.5	5.8	62.2	59.6	64.7	2.0	1.4	2.6	1.3	0.8	1.8	5	5	5	95.5	94.4	96.6
4	Region 19	76.5	75.3	77.8	22.3	20.2	24.9	2.2	1.2	2.9	49.8	42.0	57.3	1.7	0.9	2.4	1.1	0.6	1.6	3	2	4	100.5	86.7	114.6
4	Region 20	75.3	72.2	76.9	23.7	21.8	26.0	4.2	2.6	7.1	58.4	50.8	70.3	2.0	1.3	3.0	1.0	0.6	1.4	4	2	7	95.7	90.1	104.1
3	Region 21	75.0	74.2	75.9	21.9	18.2	23.9	4.0	0.3	5.9	52.6	33.7	65.9	2.1	1.2	2.7	1.3	0.9	1.8	7	5	10	96.0	93.8	99.7
4	Region 23	74.0	73.6	74.2	22.0	18.4	25.9	2.4	1.2	4.2	47.6	38.8	55.2	2.2	2.0	2.5	1.2	0.9	1.9	4	1	9	94.1	91.0	98.4
2	Region 24	77.4	76.6	78.1	24.0	20.5	27.4	2.7	0.3	5.1	45.8	26.9	64.7	3.3	1.6	5.1	1.4	1.0	1.8	4	4	4	99.9	99.0	100.8
5	Region 25	74.5	72.9	76.3	23.4	21.1	25.7	4.9	2.0	6.9	60.0	47.1	66.6	1.6	1.0	2.5	1.0	0.5	1.4	7	4	11	84.2	79.8	91.5
4	Region 26	75.7	73.9	76.5	23.3	21.6	25.9	5.8	1.6	15.5	54.1	44.1	64.6	1.7	1.3	2.3	1.0	0.6	1.7	11	1	31	90.9	88.3	92.5
1	Region 27	76.3	-	-	22.1	-	-	1.7	-	-	41.2	-	-	4.3	-	-	1.9	-	-	0	-	-	92.6	-	-
2	Region 29	79.3	78.6	79.9	30.0	29.1	30.9	4.9	2.7	7.0	69.2	66.2	72.1	2.0	1.4	2.5	1.4	1.2	1.6	4	1	6	104.6	100.8	108.4
3	Region 30	77.1	76.6	77.7	32.7	30.2	35.6	18.3	5.0	41.3	60.7	53.3	64.6	1.8	0.2	3.1	1.0	0.0	1.6	2	2	3	94.4	93.3	95.4
5	Region 31	76.0	73.8	78.0	28.4	26.9	32.2	10.6	4.5	18.9	64.5	46.5	74.3	1.6	0.4	5.3	1.2	0.4	3.8	2	0	4	83.9	68.4	94.4
5	Region 32	76.1	74.0	78.3	26.4	22.0	30.1	7.2	4.5	14.3	58.3	46.3	64.2	2.0	0.9	2.8	1.1	0.4	1.5	5	0	11	92.6	72.7	100.5
1	Region 33	76.1	-	-	29.1	-	-	9.0	-	-	33.2	-	-	0.7	-	-	0.4	-	-	3	-	-	89.0	-	-
4	Region 34	74.2	73.4	74.8	29.6	27.5	31.5	9.6	6.9	12.0	70.3	65.8	73.9	2.5	1.5	3.9	1.8	1.2	2.9	7	4	9	83.7	80.8	85.1
1	Region 35	69.9	-	-	19.3	-	-	0.4	-	-	62.5	-	-	5.0	-	-	2.6	-	-	2	-	-	46.9	-	-
3	Region 36	75.5	74.0	76.4	28.4	23.4	34.7	13.6	1.5	23.7	55.9	42.6	65.8	2.5	2.3	2.6	1.7	1.6	1.8	13	9	19	92.0	84.7	99.4
80	Ave. YM2	75.6	69.1	79.9	25.0	16.7	36.9	5.7	0.0	41.3	55.8	26.9	75.9	2.1	0.2	5.3	1.2	0.0	4.0	5	0	31	94.0	46.9	114.6

TABLE 10: PHYSICAL QUALITY FACTORS OF YELLOW MAIZE ACCORDING TO GRADE (2012/2013)
(continue)

Number of samples	Region	Hectolitre mass (kg/hi)			100 kernel mass (g)			Kernel size (%)						Breakage susceptibility (%)						Stress cracks (%)			Milling index					
		ave.		max.	ave.		max.	Above 10 mm sieve		Above 8 mm sieve		Below 8 mm sieve		ave.		min.	max.	ave.		min.	max.	ave.		min.	max.			
		min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.			
GRADE: YM3																												
1	Region 13	69.0	-	-	15.2	-	-	0.0	-	-	81.5	-	-	4.1	-	-	0.9	-	-	2	-	-	70.4	-	-	-	-	-
1	Region 17	72.8	-	-	17.1	-	-	0.2	-	-	73.0	-	-	4.4	-	-	1.3	-	-	3	-	-	94.9	-	-	-	-	-
2	Region 19	74.1	72.3	75.9	21.2	19.3	23.1	4.8	0.2	9.3	48.1	36.4	59.8	2.1	1.9	2.2	1.1	0.9	1.2	2	1	3	92.4	85.5	99.2	-	-	
3	Region 26	70.6	67.8	72.1	16.6	15.3	17.5	0.5	0.0	0.8	24.3	18.9	31.7	1.8	1.4	2.5	0.7	0.4	1.0	1	0	1	72.3	70.7	73.3	-	-	
1	Region 27	73.0	-	-	25.5	-	-	1.5	-	-	42.7	-	-	4.0	-	-	2.3	-	-	8	-	-	86.4	-	-	-	-	
1	Region 29	72.6	-	-	27.2	-	-	3.2	-	-	32.2	-	-	2.5	-	-	2.0	-	-	14	-	-	63.8	-	-	-	-	
2	Region 33	70.6	70.4	70.7	25.1	20.9	29.3	7.7	0.0	15.3	53.2	16.4	89.9	2.9	2.1	3.7	1.6	1.2	2.0	9	3	14	72.1	70.3	73.8	-	-	
1	Region 36	76.9	-	-	31.0	-	-	11.8	-	-	23.4	-	-	1.7	-	-	1.3	-	-	10	-	-	95.1	-	-	-	-	
12	Ave. YM3	72.1			21.5			3.6			56.6			2.7			1.3			5			79.7					
	Min. YM3				15.2			0.0			16.4			1.4			0.4			0			63.8					
	Max. YM3				31.0			15.3			89.9			4.4			2.3			14			99.2					
CLASS: COM																												
1	Region 11	80.0	-	-	32.2	-	-	4.4	-	-	31.1	-	-	1.3	-	-	0.9	-	-	6	-	-	102.7	-	-	-	-	-
1	Region 16	79.1	-	-	27.4	-	-	7.6	-	-	33.7	-	-	1.9	-	-	1.3	-	-	8	-	-	106.5	-	-	-	-	-
1	Region 17	72.4	-	-	17.4	-	-	0.6	-	-	70.7	-	-	2.0	-	-	0.8	-	-	1	-	-	86.0	-	-	-	-	-
1	Region 21	73.3	-	-	20.5	-	-	1.4	-	-	57.6	-	-	1.5	-	-	0.9	-	-	7	-	-	91.6	-	-	-	-	-
1	Region 23	73.6	-	-	19.8	-	-	1.8	-	-	51.9	-	-	1.9	-	-	0.9	-	-	3	-	-	90.4	-	-	-	-	-
1	Region 24	74.0	-	-	23.9	-	-	8.0	-	-	30.9	-	-	1.7	-	-	0.9	-	-	6	-	-	105.0	-	-	-	-	-
3	Region 25	76.5	74.2	77.8	28.6	26.8	29.8	8.3	7.4	8.9	22.6	20.7	25.6	1.2	0.9	1.4	0.8	0.7	0.8	7	7	8	90.1	89.1	91.4	-	-	
1	Region 26	68.0	-	-	18.0	-	-	1.0	-	-	56.2	-	-	1.6	-	-	0.9	-	-	2	-	-	72.8	-	-	-	-	-
1	Region 30	78.5	-	-	34.2	-	-	24.3	-	-	12.2	-	-	1.3	-	-	1.2	-	-	6	-	-	103.5	-	-	-	-	-
1	Region 31	68.9	-	-	22.9	-	-	13.6	-	-	30.4	-	-	2.1	-	-	1.5	-	-	10	-	-	90.9	-	-	-	-	-
1	Region 32	76.8	-	-	29.8	-	-	18.2	-	-	12.9	-	-	1.3	-	-	0.8	-	-	1	-	-	90.9	-	-	-	-	-
13	Ave. COM	74.9			25.5			8.1			35.0			1.6			1.0			6			93.1					
	Min. COM				17.4			0.6			12.2			0.9			0.7			1			72.8					
	Max. COM				34.2			24.3			70.7			2.1			1.5			10			106.5					
492	Ave. yellow maize	76.6			28.4			9.8			28.5			1.7			1.1			5			93.2					
	Min. yellow maize				15.2			0.0			3.4			0.1			0.0			0			46.9					
	Max. yellow maize				41.3			42.6			89.9			8.2			5.4			31			117.4					
1000	Ave. maize	77.4			29.0			12.5			24.2			1.4			0.9			5			95.1					
	Min. maize				15.2			0.0			3.1			0.0			0.0			0			46.9					
	Max. maize				46.0			59.9			89.9			8.2			5.4			37			119.5					