

TABLE 11: PHYSICAL QUALITY FACTORS OF YELLOW MAIZE ACCORDING TO GRADE (2015/2016)

Number of samples	Region	Test weight (kg/ha)			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.					
GRADE: YM1																													
1	Region 3	78.8	-	-	33.8	-	-	6.9	-	-	73.8	-	-	19.3	-	-	2.4	-	-	1.8	-	-	5	-	-	94.0	-	-	
6	Region 8	77.5	76.6	79.6	35.2	32.1	37.5	14.2	4.2	21.2	63.8	57.2	69.3	22.0	11.0	31.2	0.6	0.2	1.0	0.1	0.1	0.3	11	3	24	93.6	88.3	98.9	
23	Region 10	79.5	76.4	81.7	36.7	32.8	43.1	4.8	1.4	14.2	71.5	64.8	82.9	23.7	8.0	32.5	0.6	0.1	1.4	0.3	0.0	1.2	4	1	9	93.8	74.8	110.3	
19	Region 11	79.5	75.7	81.4	36.0	32.5	39.4	7.2	1.8	15.7	71.9	64.4	88.6	20.9	9.6	32.8	0.8	0.4	1.5	0.5	0.2	1.1	7	0	17	100.0	74.8	110.5	
3	Region 12	77.3	76.7	78.1	29.4	26.7	32.3	6.1	2.7	9.0	63.1	54.5	70.0	30.7	21.0	42.8	0.9	0.9	0.9	0.3	0.2	0.4	5	2	9	99.7	96.6	101.2	
1	Region 13	79.9	-	-	28.6	-	-	6.4	-	-	66.7	-	-	26.9	-	-	0.5	-	-	0.1	-	-	2	-	-	109.6	-	-	
3	Region 14	77.9	77.6	78.3	30.8	29.5	31.6	12.2	8.3	15.8	72.2	68.3	75.2	15.6	14.5	16.5	1.0	0.5	1.8	0.3	0.0	0.8	3	1	7	99.4	97.5	100.7	
3	Region 17	78.6	76.7	79.6	32.0	29.1	35.3	9.2	6.5	12.9	67.7	61.2	71.6	23.1	16.7	30.6	0.6	0.4	0.8	0.2	0.0	0.4	3	2	4	100.8	93.5	108.6	
4	Region 18	77.0	73.7	79.1	32.4	28.9	34.6	13.0	10.5	18.3	68.2	58.4	73.4	18.8	15.5	23.3	1.0	0.7	1.3	0.6	0.3	0.8	6	2	13	98.3	91.0	101.2	
4	Region 19	78.5	77.8	78.9	30.6	25.0	35.9	10.2	5.9	14.5	73.8	63.0	93.6	16.0	0.5	28.0	0.9	0.7	1.0	0.3	0.1	0.6	5	2	10	99.5	93.4	107.9	
7	Region 20	76.2	68.0	78.2	31.7	30.6	32.4	11.3	0.4	23.1	66.1	59.8	69.4	22.6	9.6	39.8	1.0	0.2	1.2	0.2	0.0	0.4	5	2	12	89.0	78.1	97.1	
2	Region 21	77.9	77.7	78.1	30.8	29.9	31.7	8.4	5.9	10.9	60.8	55.9	65.7	30.8	23.4	38.2	1.6	1.0	2.1	1.1	0.8	1.4	9	5	13	94.2	88.8	99.5	
2	Region 22	76.3	75.6	76.9	27.9	26.9	28.9	7.5	3.7	11.2	76.4	72.0	80.8	16.2	8.0	24.3	1.3	0.8	1.7	0.4	0.3	0.5	9	7	10	99.1	98.3	99.8	
3	Region 23	78.5	77.1	79.6	33.5	28.0	41.9	12.5	2.5	24.8	73.2	61.6	86.0	14.3	3.1	35.9	0.4	0.3	0.6	0.1	0.0	0.2	3	3	4	95.4	89.8	98.8	
1	Region 24	79.1	-	-	32.7	-	-	4.1	-	-	64.9	-	-	31.0	-	-	0.6	-	-	0.0	-	-	4	-	-	92.5	-	-	
10	Region 25	77.3	74.9	79.0	33.2	29.8	36.6	15.7	6.5	26.8	61.8	15.6	74.3	22.5	10.5	77.9	0.7	0.2	1.6	0.2	0.1	0.5	4	2	8	91.8	79.8	104.0	
11	Region 26	77.2	73.3	80.9	34.1	31.2	37.5	19.4	4.5	31.7	69.5	58.9	76.8	11.1	1.9	25.8	1.0	0.4	2.0	0.3	0.0	0.8	3	0	5	96.4	83.1	119.5	
2	Region 27	78.0	77.3	78.7	35.5	32.8	38.1	21.7	18.7	24.6	68.7	63.6	73.7	9.7	7.6	11.8	1.6	1.3	1.8	1.0	0.9	1.1	5	5	5	99.1	89.8	108.3	
27	Region 28	75.5	68.5	78.6	31.9	25.9	36.5	16.7	2.2	28.9	67.5	60.8	73.4	15.7	7.6	33.9	1.0	0.2	2.0	0.4	0.1	0.9	6	1	18	90.3	75.4	112.3	
42	Region 29	77.3	71.2	81.2	32.3	25.7	36.3	17.6	6.0	28.3	68.6	61.5	82.5	13.9	6.9	22.6	1.0	0.2	3.0	0.7	0.1	1.3	5	0	31	97.5	80.0	107.4	
53	Region 30	76.0	72.7	78.9	32.0	23.5	38.9	15.4	5.1	31.1	68.9	50.3	75.6	15.7	4.6	43.5	0.8	0.1	2.7	0.5	0.0	1.9	4	0	19	91.8	68.5	106.9	
31	Region 31	76.2	72.0	79.8	32.3	27.9	36.9	15.2	6.5	31.5	68.1	59.7	74.4	16.7	7.2	28.3	1.1	0.2	2.9	0.6	0.0	2.3	3	0	12	93.0	80.6	107.0	
37	Region 32	75.4	71.6	79.2	31.4	22.1	37.2	15.4	3.7	34.1	68.0	53.2	77.7	16.7	0.2	43.1	1.2	0.2	4.5	0.7	0.0	4.1	3	0	21	85.8	72.5	98.9	
28	Region 33	76.5	74.0	80.6	28.7	24.1	34.0	8.3	1.7	14.7	64.3	50.9	72.6	27.4	15.1	42.5	0.9	0.1	1.9	0.6	0.0	1.2	4	1	10	91.1	79.8	102.1	
29	Region 34	76.8	73.1	79.9	31.5	27.7	38.9	12.0	1.3	26.6	66.9	45.3	72.6	21.2	11.2	53.4	0.8	0.1	1.9	0.4	0.0	1.2	4	0	9	93.6	83.1	106.9	
13	Region 35	75.8	72.9	78.3	31.1	24.6	36.1	6.0	0.4	14.4	65.7	60.1	74.4	28.3	12.7	38.9	1.7	0.8	3.9	0.9	0.0	2.4	6	1	27	79.1	52.7	96.6	
30	Region 36	77.9	74.4	81.2	32.0	26.6	38.1	8.1	0.4	29.4	62.9	46.4	78.6	29.0	4.8	52.1	0.7	0.0	1.7	0.3	0.0	0.8	6	0	18	95.8	78.8	110.7	
395	Ave. YM1	76.9			32.3			12.7	0.4		67.6	15.6		19.6	0.2		0.9	0.0		0.5	0.0		5	0		92.9	52.7		
	Min. YM1	68.0			22.1					34.1	15.6			77.9			0.0												119.5
	Max. YM1	81.7			43.1						93.6			4.5															

TABLE 11: PHYSICAL QUALITY FACTORS OF YELLOW MAIZE ACCORDING TO GRADE (2015/2016)
(continue)

Number of samples	Region	Test weight (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.				
GRADE: YM2																												
4	Region 8	76.1	75.4	76.9	34.9	33.7	36.4	20.1	17.5	22.4	64.5	60.3	67.5	15.5	13.5	18.2	1.2	0.7	2.6	0.5	0.1	1.2	17	11	21	88.8	84.8	94.7
3	Region 10	79.3	77.9	80.2	34.3	29.4	38.6	2.4	1.8	2.7	69.5	67.8	70.8	28.1	27.4	29.5	0.7	0.4	1.3	0.1	0.0	0.3	7	2	13	90.4	79.8	96.0
4	Region 11	78.6	77.3	79.6	35.1	33.5	36.5	6.1	5.2	7.8	73.5	71.6	76.0	20.4	16.2	22.8	1.3	0.9	1.9	0.4	0.1	0.7	14	9	19	102.1	95.4	109.2
2	Region 12	77.4	75.9	78.8	27.7	26.4	28.9	3.9	2.2	5.5	59.5	58.6	60.3	36.7	35.9	37.5	0.9	0.3	1.5	0.6	0.0	1.2	3	3	3	104.7	103.2	106.2
7	Region 13	76.3	74.7	79.1	30.4	26.2	33.3	6.7	2.8	11.9	62.7	51.0	73.5	30.6	14.9	46.2	1.4	0.7	1.9	0.6	0.3	0.8	2	0	4	102.0	90.3	108.9
2	Region 17	76.1	73.9	78.2	28.3	27.2	29.4	4.0	3.5	4.5	65.8	61.9	69.7	30.2	26.8	33.6	1.5	1.1	1.9	0.4	0.3	0.4	3	2	3	104.0	103.0	105.0
3	Region 18	77.9	77.8	78.2	29.6	27.4	32.7	9.8	6.7	14.5	66.3	64.8	67.6	23.9	17.9	27.0	1.4	1.2	1.7	0.6	0.2	0.8	5	2	8	102.1	98.1	104.4
7	Region 19	75.7	70.9	79.0	30.9	26.1	36.7	9.2	4.5	18.5	67.1	58.1	73.5	23.7	18.0	36.0	1.2	0.1	2.7	0.3	0.0	0.8	2	1	4	97.5	91.2	104.8
12	Region 20	75.3	65.4	78.7	31.7	25.8	35.7	10.5	2.3	16.2	65.0	47.7	74.8	24.6	9.1	50.0	1.4	0.5	2.6	0.5	0.2	1.2	5	2	9	89.2	71.7	101.7
3	Region 21	76.3	75.2	77.9	29.7	27.9	31.7	10.2	8.1	12.7	64.8	59.5	75.2	25.0	12.1	32.4	1.3	0.7	1.7	1.0	0.6	1.3	11	2	27	102.1	97.7	107.2
2	Region 22	77.2	76.9	77.4	28.4	24.8	31.9	7.2	3.2	11.2	61.7	55.6	67.8	31.1	21.0	41.2	1.1	1.0	1.2	0.6	0.5	0.6	7	1	12	103.4	102.9	103.9
1	Region 23	76.3	-	-	30.1	-	-	14.5	-	-	70.7	-	-	14.8	-	-	0.5	-	-	0.1	-	-	9	-	-	99.4	-	-
4	Region 24	77.5	75.4	80.1	32.4	30.2	35.6	6.5	2.5	10.8	66.9	62.9	74.2	24.7	19.0	31.3	1.2	0.6	2.0	0.3	0.0	0.6	4	2	6	94.8	79.1	110.8
3	Region 25	78.2	76.5	79.3	33.1	28.9	35.9	11.1	8.0	14.2	71.4	70.9	72.4	17.5	14.8	21.1	0.6	0.1	1.3	0.3	0.0	0.6	8	3	11	93.9	86.1	101.3
3	Region 26	75.6	72.5	78.9	29.7	27.0	31.7	4.6	3.4	5.2	66.2	62.7	72.8	29.2	22.0	33.5	1.5	1.2	1.8	0.3	0.0	0.6	3	1	5	84.3	63.0	96.4
2	Region 27	77.5	77.0	77.9	27.9	27.3	28.5	6.4	5.9	6.9	65.3	61.6	68.9	28.4	24.2	32.5	0.5	0.2	0.7	0.2	0.1	0.2	3	2	3	98.2	87.9	108.4
5	Region 28	74.2	70.1	76.3	27.6	26.5	28.8	9.7	4.2	18.0	64.2	59.5	68.6	26.1	22.1	36.3	1.4	0.9	1.8	0.7	0.2	1.2	4	2	7	88.7	75.0	97.6
1	Region 29	76.9	-	-	33.2	-	-	27.4	-	-	58.1	-	-	14.5	-	-	1.2	-	-	1.0	-	-	8	-	-	90.8	-	-
5	Region 30	75.1	72.5	76.7	30.7	23.6	36.6	8.5	1.1	15.7	63.5	47.1	71.7	28.0	14.3	51.8	0.9	0.4	1.4	0.4	0.0	1.1	5	3	7	91.6	88.7	94.8
5	Region 31	73.4	72.1	75.4	27.8	25.5	30.5	7.6	4.2	11.2	62.6	57.6	68.4	29.8	20.4	35.2	1.0	0.5	1.6	0.4	0.1	0.9	3	0	7	78.3	70.2	86.4
6	Region 32	74.2	71.3	75.6	28.6	24.8	31.3	7.6	1.9	13.3	59.6	46.2	71.7	32.8	16.6	50.1	1.5	0.7	2.2	0.5	0.2	1.1	4	2	6	82.5	74.6	95.7
3	Region 33	76.7	74.7	78.9	25.5	22.1	27.5	4.0	0.6	7.5	46.7	28.2	60.7	49.3	31.8	71.2	1.7	1.5	1.8	1.0	0.8	1.2	8	5	11	93.5	87.7	99.3
2	Region 34	74.8	72.7	76.9	29.3	28.4	30.2	9.0	7.7	10.3	61.7	53.0	70.3	29.4	19.4	39.3	1.6	1.5	1.6	1.3	1.1	1.4	14	6	21	94.2	91.5	96.8
2	Region 35	76.3	76.1	76.4	30.4	30.3	30.4	3.6	2.2	5.0	56.4	55.2	57.6	40.0	37.4	42.6	1.5	1.2	1.7	0.3	0.3	0.3	10	6	14	78.9	75.4	82.3
6	Region 36	75.5	68.9	78.5	33.2	27.3	40.2	12.5	4.0	26.7	67.0	54.9	78.5	20.5	6.5	41.1	1.1	0.5	2.0	0.3	0.1	0.7	5	0	20	85.0	52.4	96.3
97	Ave. YM2	76.0			30.7			8.8			64.4			26.8			1.2			0.5			6			92.4		
	Min. YM2	65.4			22.1			0.6			28.2			6.5			0.1			0.0			0			52.4		
	Max. YM2	80.2			40.2			27.4			78.5			71.2			2.7			1.4			27			110.8		

TABLE 11: PHYSICAL QUALITY FACTORS OF YELLOW MAIZE ACCORDING TO GRADE (2015/2016)
(continue)

Number of samples	Region	Test weight (kg/h)			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 11	77.0	-	-	32.5	-	-	2.1	-	-	69.5	-	-	28.3	-	-	2.2	-	-	0.7	-	-	23	-	-	98.2	-	-
1	Region 17	76.8	-	-	24.5	-	-	2.5	-	-	37.8	-	-	59.7	-	-	0.9	-	-	0.4	-	-	1	-	-	101.0	-	-
2	Region 18	73.1	71.8	74.4	29.3	29.1	29.5	3.7	1.8	5.6	47.9	35.2	60.6	48.4	33.8	63.0	1.6	1.5	1.6	0.5	0.4	0.6	3	2	4	85.1	82.0	88.1
1	Region 19	71.4	-	-	17.1	-	-	0.9	-	-	24.2	-	-	74.9	-	-	1.1	-	-	0.6	-	-	3	-	-	88.8	-	-
1	Region 31	69.4	-	-	28.9	-	-	4.3	-	-	55.6	-	-	40.1	-	-	2.1	-	-	1.8	-	-	6	-	-	83.2	-	-
1	Region 32	77.9	-	-	29.4	-	-	1.5	-	-	50.7	-	-	47.8	-	-	1.5	-	-	1.2	-	-	3	-	-	79.5	-	-
1	Region 35	75.9	-	-	35.6	-	-	0.3	-	-	66.6	-	-	33.1	-	-	4.4	-	-	0.6	-	-	6	-	-	88.2	-	-
2	Region 36	76.7	75.9	77.5	30.0	29.7	30.3	7.1	5.0	9.1	58.4	55.9	60.9	34.6	34.1	35.0	0.3	0.1	0.5	0.1	0.0	0.1	5	2	7	92.8	91.1	94.4
10	Ave. YM3	74.8			28.7			3.3	0.3	9.1	51.7			45.0			1.6	0.1	4.4	0.6			6	1	23	89.5		
	Min. YM3	69.4			17.1						24.2			28.3						0.0						79.5		
	Max. YM3	77.9			35.6						69.6			74.9						1.8						101.0		
CLASS: COM																												
1	Region 20	59.8	-	-	21.7	-	-	1.3	-	-	34.4	-	-	64.3	-	-	3.3	-	-	0.9	-	-	0	-	-	21.7	-	-
1	Region 30	75.3	-	-	24.7	-	-	10.4	-	-	60.4	-	-	29.2	-	-	1.0	-	-	0.4	-	-	5	-	-	76.6	-	-
1	Region 36	78.8	-	-	34.5	-	-	4.7	-	-	75.4	-	-	19.9	-	-	0.2	-	-	0.1	-	-	10	-	-	96.7	-	-
3	Ave. COM	71.3			27.0			5.5			56.7			37.8			1.5			0.5			5			65.0		
	Min. COM	59.8			21.7			1.3			34.4			19.9			0.2			0.0						21.7		
	Max. COM	78.8			34.5			10.4			75.4			64.3						0.9						96.7		
505 Ave. yellow maize																												
	Min. yellow maize	76.7			31.8			11.8			66.6			21.6			1.0			0.5			5			92.6		
	Max. yellow maize	81.7			43.1			0.3			15.6			0.2			0.0			0.0						21.7		
920 Ave. maize																												
	Min. maize	77.3			32.1			13.3			66.7			20.0			1.0			0.5			5			95.5		
	Max. maize	83.9			43.1			0.3			0.1			0.0			0.0			0.0						21.7		
								99.4			93.6			77.9			7.2			4.3			31			120.1		