

**TABLE 11: PHYSICAL QUALITY FACTORS OF YELLOW MAIZE ACCORDING TO GRADE (2011/2012)**

Number of samples	Region	Hectolitre mass (kg/hi)			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.			
<b>GRADE: YM1</b>																												
4	Region 10	77.5	76.3	78.9	36.7	33.9	40.0	7.2	3.9	11.8	71.8	69.1	75.2	21.0	16.2	27.0	1.2	1.0	1.4	1.0	0.7	1.3	12	6	17	83.5	80.9	88.0
19	Region 11	77.2	75.4	79.5	32.3	25.5	38.1	4.1	0.6	8.9	59.2	38.9	70.9	36.7	20.2	59.7	1.1	0.3	2.1	1.0	0.3	2.1	6	1	13	86.3	75.0	99.2
5	Region 12	77.1	74.8	80.0	31.1	25.3	36.1	9.3	2.6	15.7	66.0	58.2	71.2	24.7	17.4	39.2	1.7	0.8	2.8	1.4	0.7	2.4	6	0	10	95.3	82.4	103.6
11	Region 13	77.1	74.7	80.0	26.9	20.8	32.0	7.7	2.6	16.2	62.7	50.9	72.9	29.6	13.9	45.5	1.1	0.6	2.6	0.8	0.3	1.8	5	1	13	98.3	89.9	108.1
12	Region 14	77.1	75.4	79.1	28.0	25.2	32.5	7.2	2.6	16.8	62.8	55.0	69.0	30.0	17.8	42.4	1.4	0.2	2.6	1.0	0.0	2.3	6	1	16	97.7	86.5	109.9
3	Region 15	78.2	77.6	78.7	29.2	23.2	33.6	5.3	3.8	7.6	60.6	49.8	67.8	34.2	28.3	45.8	1.4	0.9	1.9	1.3	0.8	1.8	10	7	13	96.0	94.6	97.6
5	Region 16	76.8	75.3	78.9	28.5	25.7	33.1	10.1	3.9	20.3	64.6	56.7	70.2	25.3	11.8	39.4	1.7	0.7	2.4	1.3	0.5	2.0	5	2	8	93.5	85.0	103.2
10	Region 17	76.5	72.5	79.1	27.2	23.4	32.5	6.6	3.0	14.1	62.1	54.4	70.5	31.3	16.2	42.4	1.6	0.5	3.0	1.2	0.5	2.2	5	1	11	92.5	67.0	106.9
12	Region 18	77.0	75.9	77.6	29.2	25.8	37.4	10.1	5.1	18.8	64.8	57.0	73.9	25.1	15.3	35.4	1.3	0.8	2.0	0.9	0.6	1.4	4	0	7	92.6	86.7	101.8
10	Region 19	76.8	75.0	78.5	28.3	23.9	38.2	7.7	2.6	14.9	62.4	55.8	68.5	29.9	20.3	41.6	1.4	0.6	2.2	1.0	0.4	1.5	4	0	9	96.1	88.7	100.2
5	Region 20	76.8	75.5	78.0	28.9	26.5	34.4	9.6	6.3	11.4	67.3	61.8	73.3	23.1	15.6	31.9	1.8	0.2	4.6	1.2	0.1	2.9	7	2	17	93.5	82.1	101.0
8	Region 21	76.4	75.1	77.4	26.5	21.9	32.3	5.1	0.9	10.0	56.6	42.5	66.7	38.4	24.2	56.5	1.4	0.6	1.9	1.0	0.6	1.6	5	2	9	91.6	82.2	101.7
4	Region 22	76.3	73.1	78.7	29.7	27.2	34.4	6.6	3.6	8.9	67.1	63.4	69.4	26.3	22.2	33.0	0.9	0.2	1.5	0.6	0.1	1.2	5	0	11	92.8	82.2	102.2
9	Region 23	77.2	75.6	78.7	28.9	26.1	33.0	10.4	4.8	19.6	67.3	62.1	74.8	22.3	17.3	29.0	1.4	1.1	2.1	1.2	0.8	1.5	8	0	13	96.2	86.9	101.5
8	Region 24	76.9	72.9	80.2	30.2	26.2	32.8	7.5	1.9	22.9	64.5	56.5	71.9	28.1	12.9	41.6	1.7	0.5	2.9	1.3	0.5	2.3	6	0	16	90.5	64.6	109.0
13	Region 25	76.2	73.8	80.7	29.1	22.8	36.7	9.5	1.8	22.6	66.1	56.2	78.0	24.4	9.2	39.3	1.1	0.4	2.7	0.9	0.2	1.7	8	3	19	86.1	79.1	95.5
9	Region 26	76.2	74.6	77.7	26.8	23.0	29.9	6.3	1.4	14.4	61.2	50.2	68.4	32.6	22.6	48.4	0.9	0.6	1.4	0.6	0.1	1.0	4	2	7	92.9	86.3	102.1
3	Region 27	77.0	75.8	79.3	28.2	24.9	33.5	6.3	4.4	8.8	62.4	54.4	67.7	31.3	26.1	41.2	2.4	1.0	3.3	1.7	0.6	2.2	9	2	16	94.4	85.9	103.5
23	Region 28	75.3	72.7	77.9	30.7	22.9	37.8	15.3	3.8	28.7	66.1	57.8	75.4	18.6	7.4	38.4	1.0	0.2	5.3	0.7	0.2	3.3	6	0	27	85.0	74.8	98.7
41	Region 29	75.6	70.0	78.9	28.3	22.1	34.3	12.3	0.0	32.4	63.6	26.4	74.6	24.2	8.6	73.6	1.2	0.2	4.9	0.8	0.0	3.5	5	0	17	87.5	77.1	97.7
56	Region 30	75.8	69.8	79.2	29.5	19.5	36.6	13.1	2.4	24.3	65.6	47.8	72.7	21.3	7.9	47.8	1.2	0.2	8.5	0.9	0.0	8.2	6	0	18	86.5	61.0	100.8
23	Region 31	76.0	73.5	78.5	29.5	23.5	35.1	15.6	6.1	24.2	66.5	59.3	73.1	17.9	11.1	27.9	0.9	0.4	1.9	0.7	0.3	1.3	4	1	9	86.3	78.2	95.4
33	Region 32	76.7	74.5	78.6	31.7	24.1	35.5	20.4	6.9	38.3	64.0	54.0	73.4	15.7	6.5	32.2	0.9	0.3	2.1	0.7	0.3	1.4	5	0	14	79.9	63.2	93.5
19	Region 33	75.3	72.7	78.2	30.2	23.7	38.1	15.0	5.1	31.8	63.4	53.3	70.3	21.6	8.4	41.6	1.2	0.4	3.0	0.9	0.2	2.9	6	1	13	81.9	68.9	95.7
16	Region 34	76.8	75.7	78.1	30.2	27.3	33.0	15.1	7.7	30.7	66.9	60.1	71.9	18.0	7.5	25.2	0.9	0.4	2.1	0.7	0.3	1.6	6	1	12	89.4	80.2	96.8
9	Region 35	77.2	75.4	79.4	34.0	28.1	37.7	5.6	2.2	9.4	71.0	51.4	79.0	23.4	14.4	46.4	1.6	0.4	4.5	1.4	0.2	4.1	8	0	22	82.6	70.5	95.6
13	Region 36	76.5	69.7	81.0	32.6	24.8	40.9	13.8	4.6	26.6	67.3	39.4	79.4	18.9	7.9	56.0	1.2	0.5	2.5	0.8	0.2	1.6	11	1	27	85.8	53.0	101.0
383	Ave. YM1	76.3			29.8			11.7	0.0		64.5			23.7	6.5		1.2	0.2		0.9			6			88.0		
	Min. YM1				19.5			0.0			26.4			6.5			0.2			0.0			0			53.0		
	Max. YM1				40.9			38.3			79.4			73.6			8.5			8.2			27			109.9		

**TABLE 11: PHYSICAL QUALITY FACTORS OF YELLOW MAIZE ACCORDING TO GRADE (2011/2012)**  
(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.			
<b>GRADE: YM2</b>																												
2	Region 12	75.7	73.9	77.4	26.9	26.2	27.5	4.9	2.9	6.9	59.4	59.1	59.7	35.7	33.4	38.0	3.4	3.2	3.5	2.0	1.8	2.1	6	6	6	91.6	88.4	94.8
1	Region 13	74.2	-	-	22.0	-	-	2.2	-	-	52.5	-	-	45.3	-	-	1.1	-	-	0.9	-	-	6	-	-	90.0	-	-
1	Region 14	75.9	-	-	26.2	-	-	6.7	-	-	64.9	-	-	28.4	-	-	1.3	-	-	0.8	-	-	6	-	-	94.0	-	-
3	Region 21	74.8	73.4	75.8	25.1	24.0	25.8	3.6	2.4	5.2	58.6	53.2	64.3	37.8	33.3	43.7	2.4	2.0	2.8	1.6	1.3	1.9	7	6	8	88.2	78.7	93.0
2	Region 22	75.8	74.6	76.9	25.3	24.8	25.7	11.2	10.0	12.4	70.7	69.2	72.2	18.1	17.8	18.4	9.3	2.9	15.6	5.4	2.5	8.3	2	2	2	90.4	89.9	90.8
1	Region 23	70.9	-	-	20.4	-	-	0.9	-	-	47.7	-	-	51.4	-	-	3.6	-	-	2.6	-	-	25	-	-	73.6	-	-
1	Region 24	75.3	-	-	30.5	-	-	5.7	-	-	70.2	-	-	24.1	-	-	4.4	-	-	3.5	-	-	24	-	-	87.2	-	-
2	Region 25	74.6	74.2	75.0	26.5	25.1	27.9	7.8	3.6	12.0	66.1	63.1	69.0	26.2	19.0	33.3	1.8	1.7	1.9	1.2	0.9	1.4	9	4	14	87.2	79.1	95.2
5	Region 26	75.6	73.9	77.4	23.4	19.9	25.9	3.4	1.2	9.1	51.0	43.0	58.6	45.6	32.3	55.8	2.1	1.6	2.6	1.2	0.8	1.6	5	1	11	94.2	86.1	100.5
4	Region 28	73.9	70.9	76.9	29.0	26.0	32.5	13.7	9.2	19.3	64.2	54.8	69.5	22.1	16.9	25.9	1.8	0.2	2.8	1.1	0.1	1.8	9	2	17	87.1	82.0	90.3
6	Region 29	73.0	68.8	75.7	23.8	17.7	29.6	5.6	0.0	14.0	49.0	13.7	62.9	45.4	23.1	86.3	2.1	0.3	4.1	0.9	0.3	2.2	6	0	17	86.7	75.6	95.0
3	Region 30	75.8	75.3	76.6	27.6	21.7	33.4	8.4	0.7	16.7	52.2	23.4	67.7	39.5	15.6	75.9	1.6	1.1	2.5	1.0	0.5	1.9	10	3	20	90.0	82.8	97.3
2	Region 32	73.9	73.4	74.4	27.3	22.3	32.2	11.2	2.3	20.0	67.9	65.5	70.3	21.0	9.7	32.2	1.7	1.3	2.1	1.2	1.1	1.3	5	4	5	83.6	79.7	87.4
1	Region 33	74.5	-	-	28.0	-	-	13.1	-	-	66.9	-	-	20.0	-	-	1.3	-	-	0.6	-	-	6	-	-	71.8	-	-
1	Region 34	73.9	-	-	25.1	-	-	2.2	-	-	61.5	-	-	36.3	-	-	2.5	-	-	1.4	-	-	10	-	-	78.1	-	-
<b>35</b>	<b>Ave. YM2</b>	<b>74.5</b>			<b>25.7</b>			<b>6.9</b>	<b>0.0</b>	<b>20.0</b>	<b>58.0</b>	<b>13.7</b>	<b>72.2</b>	<b>35.1</b>	<b>9.7</b>	<b>86.3</b>	<b>2.5</b>	<b>0.2</b>	<b>15.6</b>	<b>1.5</b>	<b>0.1</b>	<b>8.3</b>	<b>8</b>	<b>0</b>	<b>25</b>	<b>87.8</b>	<b>71.8</b>	<b>100.5</b>
	<b>Min. YM2</b>	<b>68.8</b>			<b>17.7</b>						<b>13.7</b>		<b>72.2</b>	<b>9.7</b>		<b>86.3</b>				<b>0.1</b>		<b>8.3</b>		<b>0</b>				
	<b>Max. YM2</b>	<b>77.4</b>			<b>33.4</b>				<b>20.0</b>		<b>72.2</b>																	

**TABLE 11: PHYSICAL QUALITY FACTORS OF YELLOW MAIZE ACCORDING TO GRADE (2011/2012)**  
(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.			
<b>GRADE: YM3</b>																												
1	Region 19	72.9	-	-	30.3	-	-	3.8	-	-	57.5	-	-	38.7	-	-	8.8	-	-	6.8	-	-	9	-	-	72.1	-	-
2	Region 23	71.6	68.1	75.1	20.2	14.5	25.8	4.3	0.4	8.1	50.7	39.4	62.0	45.1	29.9	60.2	2.1	0.5	3.6	1.0	0.3	1.7	6	2	9	85.1	80.7	89.4
1	Region 31	74.8	-	-	27.3	-	-	18.8	-	-	65.0	-	-	16.2	-	-	1.1	-	-	0.8	-	-	4	-	-	92.0	-	-
4	Ave. YM3	72.7	-	-	24.5	-	-	7.8	-	-	56.0	-	-	36.3	-	-	3.5	-	-	2.4	-	-	6	-	-	83.6	-	-
	Min. YM3	68.1	-	-	14.5	-	-	0.4	-	-	39.4	-	-	16.2	-	-	0.5	-	-	0.3	-	-	2	-	-	72.1	-	-
	Max. YM3	75.1	-	-	30.3	-	-	18.8	-	-	65.0	-	-	60.2	-	-	8.8	-	-	6.8	-	-	9	-	-	92.0	-	-
<b>CLASS: COM</b>																												
1	Region 19	69.9	-	-	25.6	-	-	7.2	-	-	54.0	-	-	38.8	-	-	9.3	-	-	4.3	-	-	16	-	-	76.6	-	-
1	Ave. COM	69.9	-	-	25.6	-	-	7.2	-	-	54.0	-	-	38.8	-	-	9.3	-	-	4.3	-	-	16	-	-	76.6	-	-
	Min. COM	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Max. COM	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>423 Ave. yellow maize</b>																												
	Ave. yellow maize	76.1	-	-	29.4	-	-	11.3	-	-	63.9	-	-	24.8	-	-	1.3	-	-	1.0	-	-	6	-	-	87.9	-	-
	Min. yellow maize	68.1	-	-	14.5	-	-	0.0	-	-	13.7	-	-	6.5	-	-	0.2	-	-	0.0	-	-	0	-	-	53.0	-	-
	Max. yellow maize	81.0	-	-	40.9	-	-	38.3	-	-	79.4	-	-	86.3	-	-	15.6	-	-	8.3	-	-	27	-	-	109.9	-	-
<b>1000 Ave. maize</b>																												
	Ave. maize	77.3	-	-	30.4	-	-	15.6	-	-	64.5	-	-	19.9	-	-	1.0	-	-	0.7	-	-	6	-	-	91.0	-	-
	Min. maize	68.1	-	-	14.5	-	-	0.0	-	-	13.7	-	-	2.8	-	-	0.0	-	-	0.0	-	-	0	-	-	53.0	-	-
	Max. maize	82.0	-	-	44.4	-	-	63.3	-	-	79.7	-	-	86.3	-	-	15.6	-	-	8.3	-	-	27	-	-	117.0	-	-