

TABLE 14: PHYSICAL QUALITY FACTORS OF WHITE MAIZE (2010/2011)

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.					
1	Region 08	78.0	78.0	78.0	32.0	32.0	32.0	27.5	27.5	27.5	62.8	62.8	62.8	9.7	9.7	9.7	3.0	3.0	3.0	1.9	1.9	1.9	10	10	10	93.2	93.2	93.2
21	Region 12	78.7	77.2	80.4	35.1	32.5	40.3	26.7	19.5	43.8	63.6	52.8	68.3	9.7	3.4	14.1	1.4	0.4	3.4	1.1	0.4	3.0	4	1	9	91.1	83.4	99.0
29	Region 13	78.1	75.8	79.8	34.1	30.2	38.1	23.2	2.7	34.9	63.9	55.8	73.5	12.9	5.2	40.3	1.8	0.8	2.9	1.4	0.6	2.2	4	0	9	88.5	74.6	102.7
31	Region 14	78.0	72.6	80.7	34.4	29.5	40.3	26.9	8.6	46.2	62.3	37.4	74.5	10.8	1.7	31.4	1.6	0.1	4.7	1.2	0.0	3.6	4	0	18	90.7	73.3	103.5
10	Region 15	79.1	77.9	79.9	36.9	35.0	38.1	36.0	27.4	43.0	57.5	52.7	63.2	6.6	4.3	9.4	0.8	0.3	1.8	0.7	0.3	1.4	3	2	5	96.2	90.2	99.7
14	Region 16	78.9	77.7	80.5	35.7	33.2	38.3	32.9	22.7	43.0	60.2	53.4	66.4	6.9	3.6	10.9	0.9	0.3	1.3	0.8	0.3	1.2	3	0	7	91.8	83.9	102.3
30	Region 17	78.3	76.4	79.7	35.0	31.1	38.6	23.1	9.1	41.7	64.8	53.0	75.8	12.1	5.3	31.6	1.2	0.4	3.0	0.9	0.3	2.5	3	0	7	88.2	72.8	99.7
21	Region 18	77.8	75.6	80.6	34.4	31.3	37.3	26.1	12.9	41.0	62.2	51.7	69.3	11.7	4.7	20.4	1.6	0.9	3.4	1.2	0.7	3.3	6	1	13	90.0	77.1	101.4
26	Region 19	76.7	71.3	79.7	33.0	28.5	41.4	22.9	9.1	37.0	66.1	57.0	83.9	11.0	2.9	24.5	1.9	0.6	5.6	1.3	0.3	3.2	6	2	16	88.6	63.6	111.7
14	Region 20	77.7	75.1	79.9	34.8	30.4	42.4	26.7	19.9	36.3	63.2	55.5	70.8	10.1	6.0	15.4	2.1	0.5	4.6	1.7	0.1	3.3	7	1	14	85.1	59.1	100.3
9	Region 21	77.7	74.6	79.7	35.4	34.0	37.6	22.5	9.3	32.1	65.5	58.6	72.8	12.0	7.7	19.6	1.6	0.5	3.9	1.5	0.5	3.6	3	0	5	90.2	80.6	97.5
10	Region 22	77.9	77.2	79.0	34.5	31.2	37.1	27.8	21.7	32.8	62.3	56.0	68.0	9.9	6.2	15.5	1.3	0.3	1.9	1.0	0.3	1.5	3	0	5	90.5	86.2	94.9
27	Region 23	78.7	71.9	81.8	35.6	26.0	40.4	32.5	13.6	46.9	60.5	47.8	74.1	7.0	2.7	17.5	1.9	0.7	3.9	1.5	0.7	2.7	5	0	17	91.4	54.4	103.7
21	Region 24	78.1	74.0	80.0	36.1	33.7	44.0	31.7	12.5	55.8	59.2	41.4	70.7	9.1	2.8	20.6	1.9	0.0	5.1	1.4	0.0	2.6	7	0	21	92.6	82.3	100.7
19	Region 25	76.1	73.2	79.0	32.5	25.0	36.5	18.7	1.4	35.3	64.9	33.5	75.7	16.4	6.1	65.1	2.6	0.5	8.4	1.8	0.5	5.9	4	0	12	78.0	56.6	96.1
10	Region 26	76.7	73.4	79.5	33.1	26.2	38.7	19.1	10.1	33.2	67.3	55.2	76.7	13.7	6.5	30.1	1.5	0.3	3.1	1.2	0.2	2.5	4	0	9	84.3	73.3	93.9
2	Region 27	74.2	74.0	74.4	34.1	32.6	35.6	18.8	3.5	34.0	62.0	58.0	65.9	19.3	8.0	30.6	4.7	3.2	6.2	3.5	2.3	4.7	11	9	12	86.3	85.4	87.1
25	Region 28	77.0	73.9	80.0	33.6	28.0	37.8	20.6	7.4	42.6	66.0	52.7	78.9	13.4	4.7	22.1	1.7	0.2	6.0	1.1	0.2	3.2	8	0	31	85.2	68.1	98.1
7	Region 30	77.6	74.9	79.1	35.0	30.6	38.9	26.9	14.5	35.5	62.5	54.8	71.2	10.6	6.2	15.2	2.1	0.4	4.1	1.7	0.4	3.1	6	1	18	88.9	76.3	96.7
2	Region 31	77.9	77.6	78.1	37.0	35.9	38.1	11.4	10.6	12.1	71.7	70.2	73.1	17.0	14.8	19.2	1.3	1.1	1.4	0.8	0.6	0.9	4	4	4	88.0	87.3	88.7
16	Region 32	77.2	75.2	79.4	34.4	31.2	40.1	17.9	4.5	32.2	65.3	58.5	72.1	16.9	8.0	33.0	1.1	0.6	2.5	0.9	0.4	1.6	5	2	7	84.7	75.7	98.6
17	Region 33	75.9	74.1	77.3	33.9	30.4	37.6	21.4	12.6	30.6	63.5	59.0	69.4	15.1	8.5	23.3	0.6	0.2	1.6	0.5	0.2	1.1	6	1	12	86.5	72.8	96.4
31	Region 34	78.2	73.0	80.2	34.8	25.2	39.8	25.1	6.2	47.3	62.5	48.4	70.9	12.4	4.3	28.4	0.9	0.0	2.4	0.7	0.0	1.9	4	0	13	86.9	64.2	99.7
5	Region 35	78.1	76.3	80.8	34.0	27.2	37.4	28.7	2.6	42.3	59.5	52.2	64.4	11.8	5.5	35.4	1.7	0.7	2.3	1.3	0.7	1.8	3	1	6	87.6	81.8	94.8
15	Region 36	77.6	75.7	80.3	34.4	29.9	38.2	15.7	3.9	32.8	70.8	62.0	79.8	13.5	3.5	22.3	1.5	1.2	2.0	1.2	0.5	1.6	5	1	18	95.8	91.0	102.4
413	Ave white	77.7			34.5	25.0	44.0	24.9	1.4	55.8	63.5	33.5	83.9	11.6	1.7	65.1	1.6	0.0	8.4	1.2	0.0	5.9	5	0	31	88.6	54.4	111.7
	Min white		71.3																									
	Max white		81.8																									

TABLE 14: PHYSICAL QUALITY FACTORS OF YELLOW MAIZE (2010/2011)

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.
1	Region 8	69.0	69.0	69.0	25.3	25.3	25.3	1.2	1.2	1.2	68.3	68.3	68.3	3.2	3.2	3.2	2.5	2.5	2.5	3	3	3	40.2	40.2	40.2
29	Region 10	77.3	75.2	81.5	33.1	28.2	40.4	5.0	1.1	11.9	70.1	59.6	79.1	2.2	0.8	4.3	1.8	0.7	3.6	2	0	13	75.8	58.9	101.1
1	Region 11	75.7	75.7	75.7	31.0	31.0	31.0	2.9	2.9	2.9	66.5	66.5	66.5	0.8	0.8	0.8	0.5	0.5	0.5	4	4	4	74.8	74.8	74.8
9	Region 12	76.2	74.6	77.4	31.8	27.8	35.3	15.8	6.7	31.4	68.6	57.9	73.1	2.5	1.1	3.9	2.0	1.0	3.3	4	0	9	87.7	74.1	97.8
9	Region 13	76.7	75.2	77.5	30.6	27.9	34.4	15.8	11.1	21.5	68.5	64.7	73.6	1.7	0.5	2.4	1.2	0.0	1.7	3	0	9	89.5	84.2	100.5
15	Region 14	76.3	74.5	78.1	32.7	29.1	37.5	16.5	10.2	25.1	68.6	59.2	75.3	1.8	0.9	2.6	1.4	0.6	2.1	4	0	8	92.1	83.0	100.1
1	Region 15	75.8	75.8	75.8	35.5	35.5	35.5	8.9	8.9	8.9	70.3	70.3	70.3	1.1	1.1	1.1	1.0	1.0	1.0	8	8	8	77.3	77.3	77.3
5	Region 16	76.0	74.8	76.9	33.6	32.8	35.2	20.5	16.1	22.9	65.4	62.0	71.3	2.1	0.9	3.9	1.5	0.8	2.5	10	2	23	91.4	86.2	97.1
9	Region 17	76.4	74.3	78.0	33.4	31.4	37.0	17.8	11.5	23.9	69.4	63.5	75.2	2.1	0.7	3.4	1.5	0.7	2.2	6	1	21	89.1	83.9	93.0
8	Region 18	76.6	74.6	78.8	30.0	22.0	32.3	15.1	7.3	22.6	67.9	60.6	72.8	2.3	1.0	3.8	1.8	1.0	2.7	4	0	9	93.0	83.1	101.2
15	Region 19	75.8	73.1	79.2	31.9	25.0	36.1	12.7	6.3	21.1	70.4	57.8	79.1	1.6	0.5	4.2	1.3	0.4	2.6	7	1	24	90.3	81.1	100.1
14	Region 20	75.7	73.7	76.9	33.5	30.2	38.1	18.8	10.8	28.1	68.1	61.9	73.7	2.5	1.0	5.3	1.9	0.8	4.8	7	2	12	86.1	68.9	99.7
1	Region 21	74.9	74.9	74.9	30.1	30.1	30.1	15.6	15.6	15.6	68.8	68.8	68.8	3.2	3.2	3.2	2.4	2.4	2.4	7	7	7	84.9	84.9	84.9
3	Region 22	75.4	74.3	76.7	31.3	28.9	33.7	18.5	14.4	22.7	68.0	63.7	71.6	2.1	1.7	2.7	1.5	1.3	1.7	5	2	10	89.3	74.3	103.6
18	Region 23	76.4	74.1	79.0	32.5	27.7	37.1	14.9	5.1	23.0	70.4	66.3	76.9	2.4	1.1	5.1	1.8	0.8	3.4	5	1	17	91.6	68.8	107.5
1	Region 24	77.4	77.4	77.4	34.2	34.2	34.2	18.6	18.6	18.6	69.3	69.3	69.3	1.6	1.6	1.6	1.3	1.3	1.3	8	8	8	87.0	87.0	87.0
28	Region 25	76.6	73.6	78.7	31.9	27.0	35.1	19.0	5.5	36.6	67.4	58.4	78.5	2.4	0.9	6.7	1.7	0.4	4.7	5	0	14	85.0	68.7	100.8
12	Region 26	75.8	72.2	78.5	31.9	27.9	34.8	15.6	8.0	27.9	68.0	62.8	74.6	1.9	0.9	4.1	1.4	0.6	3.1	7	2	18	83.4	72.8	94.2
7	Region 27	75.0	70.7	76.0	31.2	28.8	33.6	15.7	9.6	19.6	69.8	66.5	73.2	2.0	1.3	2.5	1.6	1.3	1.9	6	2	18	86.5	81.6	88.8
33	Region 28	74.8	69.1	78.3	29.9	23.2	34.0	12.8	2.8	23.4	67.9	57.6	75.5	2.5	0.5	4.6	1.7	0.4	3.4	7	1	23	84.1	74.0	90.0
7	Region 30	77.4	75.6	78.8	31.8	27.8	35.3	10.8	7.6	13.4	74.5	71.0	79.6	2.8	0.8	8.1	2.2	0.8	5.0	4	1	10	81.5	71.4	95.3
1	Region 31	78.7	78.7	78.7	30.3	30.3	30.3	21.9	21.9	21.9	65.4	65.4	65.4	1.0	1.0	1.0	0.5	0.5	0.5	4	4	4	93.8	93.8	93.8
8	Region 32	77.1	74.6	79.2	33.4	29.2	38.2	20.9	10.2	40.2	64.6	49.1	73.4	1.7	0.9	2.7	1.3	0.7	2.2	6	1	17	90.6	77.8	97.4
7	Region 33	73.9	70.2	75.8	30.6	27.9	32.6	12.0	6.7	20.6	68.4	58.8	74.1	1.0	0.5	2.5	0.8	0.3	2.1	5	2	9	81.1	73.7	89.9
19	Region 34	76.6	72.1	80.0	32.0	24.1	39.2	17.4	5.2	43.7	67.9	52.6	75.7	1.4	0.6	2.6	1.1	0.6	2.0	6	0	13	86.2	70.3	102.7
3	Region 35	77.1	76.8	77.7	33.4	29.4	35.5	5.5	2.8	9.9	65.1	62.7	67.4	2.0	1.8	2.4	1.7	1.3	2.1	3	2	6	78.3	71.2	85.4
16	Region 36	76.8	72.6	78.9	32.5	22.6	36.1	13.3	1.8	24.4	68.8	39.5	76.2	2.1	1.3	3.1	1.6	1.0	2.4	5	1	16	87.7	58.8	100.0
280	Ave yellow	76.2	69.0	81.5	31.9	22.0	40.4	14.4	1.1	43.7	68.6	39.5	79.6	2.1	0.5	8.1	1.6	0.0	5.0	5	0	24	85.8	40.2	107.5
	Min yellow																								
	Max yellow																								

TABLE 14: PHYSICAL QUALITY FACTORS OF WHITE AND YELLOW MAIZE FOR (2010/2011)

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.			
WHITE AND YELLOW																												
2	Region 08	73.5	69.0	78.0	28.7	25.3	32.0	14.4	1.2	27.5	65.6	62.8	68.3	20.1	9.7	30.5	3.1	3.0	3.2	2.2	1.9	2.5	7	3	10	66.7	40.2	93.2
29	Region 10	77.3	75.2	81.5	33.1	28.2	40.4	5.0	1.1	11.9	70.1	59.6	79.1	24.9	13.5	36.3	2.2	0.8	4.3	1.8	0.7	3.6	2	0	13	75.8	58.9	101.1
1	Region 11	75.7	75.7	75.7	31.0	31.0	31.0	2.9	2.6	2.9	66.5	66.5	66.5	30.6	30.6	30.6	0.8	0.8	0.8	0.5	0.5	0.5	4	4	4	74.8	74.8	74.8
30	Region 12	77.9	74.6	80.4	34.1	27.8	40.3	23.5	6.7	43.8	65.1	52.8	73.1	11.4	3.4	21.9	1.7	0.4	3.9	1.3	0.4	3.3	4	0	9	90.1	74.1	99.0
38	Region 13	77.8	75.2	79.8	33.3	27.9	38.1	21.4	2.7	34.9	65.0	55.8	73.6	13.6	5.2	40.3	1.8	0.5	2.9	1.3	0.0	2.2	4	0	9	88.8	74.6	102.7
46	Region 14	77.4	72.6	80.7	33.9	29.1	40.3	23.5	8.6	46.2	64.4	37.4	75.3	12.1	1.7	31.4	1.6	0.1	4.7	1.3	0.0	3.6	4	0	18	91.1	73.3	103.5
11	Region 15	78.8	75.8	79.9	36.8	35.0	38.1	33.5	8.9	43.0	58.6	52.7	70.3	7.8	4.3	20.8	0.9	0.3	1.8	0.8	0.3	1.4	4	2	8	94.5	77.3	99.7
19	Region 16	78.1	74.8	80.5	35.1	32.8	38.3	29.6	16.1	43.0	61.6	53.4	71.3	8.8	3.6	16.3	1.2	0.3	3.9	1.0	0.3	2.5	5	0	23	91.7	83.9	102.3
39	Region 17	77.9	74.3	79.7	34.6	31.1	38.6	21.9	9.1	41.7	65.9	53.0	75.8	12.2	5.3	31.6	1.4	0.4	3.4	1.1	0.3	2.5	4	0	21	88.4	72.8	99.7
29	Region 18	77.5	74.6	80.6	33.1	22.0	37.3	23.1	7.3	41.0	63.8	51.7	72.8	13.2	4.7	24.9	1.8	0.9	3.8	1.4	0.7	3.3	5	0	13	90.8	77.1	101.4
41	Region 19	76.4	71.3	79.7	32.6	25.0	41.4	19.2	6.3	37.0	67.7	57.0	83.9	13.2	2.9	34.6	1.9	0.5	5.6	1.3	0.3	3.2	7	1	24	89.2	63.6	111.7
28	Region 20	76.7	73.7	79.9	34.1	30.2	42.4	22.7	10.8	36.3	65.7	55.5	73.7	11.6	1.9	19.2	2.3	0.5	5.3	1.8	0.1	4.8	7	1	14	85.6	59.1	100.3
10	Region 21	77.5	74.6	79.7	34.9	30.1	37.6	21.9	9.3	32.1	65.8	58.6	72.8	12.4	7.7	19.6	1.8	0.5	3.9	1.6	0.5	3.6	3	0	7	89.7	80.6	97.5
13	Region 22	77.3	74.3	79.0	33.8	28.9	37.1	25.7	14.4	32.8	63.6	56.0	71.6	10.7	6.2	16.8	1.5	0.3	2.7	1.1	0.3	1.7	4	0	10	90.2	74.3	103.6
45	Region 23	77.8	71.9	81.8	34.4	26.0	40.4	25.5	5.1	46.9	64.4	47.8	76.9	10.1	2.7	24.9	2.1	0.7	5.1	1.6	0.7	3.4	5	0	17	91.5	54.4	107.5
22	Region 24	78.1	74.0	80.0	36.0	33.7	44.0	31.1	12.5	55.8	59.7	41.4	70.7	9.2	2.8	20.6	1.9	0.0	5.1	1.4	0.0	2.6	7	0	21	92.4	82.3	100.7
47	Region 25	76.4	73.2	79.0	32.1	25.0	36.5	18.9	1.4	36.6	66.4	33.5	78.5	14.7	5.0	65.1	2.5	0.5	8.4	1.8	0.4	5.9	4	0	14	82.2	56.6	100.8
22	Region 26	76.2	72.2	79.5	32.5	26.2	38.7	17.2	8.0	33.2	67.7	55.2	76.7	15.2	6.5	30.1	1.7	0.3	4.1	1.3	0.2	3.1	6	0	18	83.8	72.8	94.2
9	Region 27	74.8	70.7	76.0	31.9	28.8	35.6	16.4	3.5	34.0	68.1	58.0	73.2	15.6	8.0	30.6	2.6	1.3	6.2	2.0	1.3	4.7	7	2	18	86.5	81.5	88.8
58	Region 28	75.8	69.1	80.0	31.5	23.2	37.8	16.2	2.8	42.6	67.1	52.7	78.9	16.8	4.7	33.0	2.1	0.2	6.0	1.5	0.2	3.4	8	0	31	84.6	68.1	98.1
14	Region 30	77.5	74.9	79.1	33.4	27.8	38.9	18.9	7.6	35.5	68.5	54.8	79.6	12.6	6.2	20.2	2.5	0.4	8.1	1.9	0.4	5.0	5	1	18	85.2	71.4	96.7
3	Region 31	78.1	77.6	78.7	34.8	30.3	38.1	14.9	10.6	21.9	69.6	65.4	73.1	15.6	12.7	19.2	1.2	1.0	1.4	0.7	0.5	0.9	4	4	4	89.9	87.3	93.8
24	Region 32	77.2	74.6	79.4	34.1	29.2	40.1	18.9	4.5	40.2	65.0	49.1	73.4	16.1	7.5	33.0	1.3	0.6	2.7	1.0	0.4	2.2	5	1	17	86.7	75.7	98.6
24	Region 33	75.3	70.2	77.3	32.9	27.9	37.6	18.7	6.7	30.6	64.9	58.8	74.1	16.4	8.5	27.8	0.7	0.2	2.5	0.6	0.2	2.1	5	1	12	84.9	72.8	96.4
50	Region 34	77.6	72.1	80.2	33.8	24.1	39.8	22.2	5.2	47.3	64.5	48.4	75.7	13.3	3.7	40.4	1.1	0.0	2.6	0.9	0.0	2.0	5	0	13	86.6	64.2	102.7
8	Region 35	77.7	76.3	80.8	33.8	27.2	37.4	20.0	2.6	42.3	61.6	52.2	67.4	18.4	5.5	35.4	1.8	0.7	2.4	1.5	0.7	2.1	3	1	6	84.1	71.2	94.8
31	Region 36	77.2	72.6	80.3	33.4	22.6	38.2	14.5	1.8	32.8	69.8	39.5	79.8	15.7	3.5	58.7	1.8	1.2	3.1	1.4	0.5	2.4	5	1	18	91.6	58.8	102.4
693	Ave w & y	77.1			33.5			20.7	1.1		65.6			13.8			1.8			1.3			5			87.5		
	Min white & yellow				22.0						33.5			1.7			0.0			0.0			0			40.2		
	Max white & yellow				44.0			55.8			83.9			65.1			8.4			8.4			31			111.7		