

TABLE 14: PHYSICAL QUALITY FACTORS OF MAIZE (2009/2010)

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																												
2	Region 11	79.1	77.8	80.4	36.5	32.0	41.0	13.6	1.2	26.0	65.9	62.7	69.0	20.6	5.0	36.1	2.3	1.7	2.9	1.7	1.4	2.0	6	5	7	109.0	98.8	119.1
11	Region 12	78.4	74.5	80.2	36.1	30.7	38.9	22.7	7.7	41.4	64.9	51.2	78.3	12.4	4.0	22.7	1.3	0.5	2.1	1.1	0.2	1.8	3	0	7	88.0	80.4	99.2
9	Region 13	78.4	73.4	80.4	34.8	33.1	37.0	30.0	14.5	44.0	61.8	50.9	72.0	8.2	5.1	16.1	1.3	0.7	2.0	1.0	0.4	1.5	3	1	6	91.3	83.6	97.4
18	Region 14	79.2	76.9	81.7	36.2	33.2	39.7	25.2	4.0	36.1	64.3	56.1	70.2	10.6	4.3	28.6	1.2	0.2	2.6	1.0	0.2	1.9	4	1	8	94.3	82.5	108.2
19	Region 15	79.3	77.0	84.4	36.4	34.2	39.7	33.8	24.6	40.3	58.2	50.0	69.3	8.0	5.5	10.9	1.0	0.4	1.8	0.8	0.3	1.3	2	0	5	98.0	92.5	101.9
22	Region 16	79.1	78.0	80.5	36.6	34.1	39.1	31.4	24.8	44.3	60.8	51.4	69.0	7.8	2.9	15.1	1.1	0.6	2.4	0.9	0.3	2.2	3	0	8	94.1	87.0	103.0
14	Region 17	77.7	75.4	79.6	35.4	32.5	39.0	21.7	13.1	31.7	67.2	60.3	72.0	11.1	6.6	19.8	1.4	0.6	2.7	1.1	0.6	1.9	3	1	7	89.9	84.3	94.3
14	Region 18	77.9	76.5	78.8	35.6	30.5	39.3	22.3	1.9	34.2	63.9	57.7	74.5	13.8	7.4	37.6	1.5	0.5	2.5	1.2	0.5	2.0	3	1	6	88.6	75.5	98.7
10	Region 19	78.0	77.3	78.8	35.3	33.5	37.8	20.0	13.0	28.8	66.3	61.7	74.4	13.7	7.6	21.5	1.3	0.6	1.7	1.0	0.3	1.4	3	0	10	90.9	84.7	96.9
10	Region 20	76.2	60.2	78.9	36.4	33.6	41.1	26.6	17.0	31.9	61.9	53.8	67.7	11.4	7.1	19.3	1.6	0.6	2.6	1.2	0.6	1.9	2	0	4	87.2	79.3	94.2
29	Region 21	77.7	74.7	80.0	35.5	29.9	59.1	24.4	12.5	90.7	63.8	9.2	73.8	11.8	0.1	22.3	1.5	0.3	3.1	1.1	0.3	2.4	3	0	11	91.1	78.7	99.4
10	Region 22	78.4	74.9	80.3	35.6	31.5	40.3	32.1	20.4	45.9	58.8	49.7	69.2	9.2	4.4	14.0	1.6	0.8	4.2	1.1	0.3	2.3	3	0	12	92.7	80.8	101.2
34	Region 23	78.5	73.4	80.9	35.7	29.5	41.9	29.0	6.3	53.6	62.0	44.0	82.0	9.0	2.4	39.0	1.5	0.4	4.1	1.1	0.2	3.2	3	0	16	93.1	65.4	103.8
32	Region 24	78.7	73.4	80.9	35.6	31.0	39.4	27.6	1.7	46.8	61.7	50.4	75.8	10.8	2.8	42.7	1.7	0.4	3.7	1.3	0.4	3.1	3	0	14	94.2	70.1	107.1
23	Region 25	76.6	72.6	79.9	36.2	29.6	43.9	28.3	7.8	55.8	60.6	38.7	72.0	11.1	4.4	53.5	1.8	0.6	3.7	1.3	0.4	2.9	5	0	14	86.3	72.7	96.1
19	Region 26	76.7	73.9	80.2	33.3	29.6	37.4	17.5	3.4	41.9	65.7	53.3	75.8	16.9	4.8	32.7	3.1	0.8	24.3	2.6	0.5	23.1	4	0	10	88.3	73.7	112.8
6	Region 27	77.4	75.9	78.6	35.6	32.1	42.5	20.3	9.2	40.0	67.5	54.2	75.1	12.3	5.8	19.5	2.5	1.0	4.9	1.7	0.8	3.5	12	2	36	88.2	77.6	98.2
40	Region 28	77.3	73.2	79.9	36.6	29.6	42.5	28.5	1.3	59.2	60.6	36.1	75.9	10.9	1.6	35.1	2.0	0.3	20.4	1.4	0.3	12.3	4	0	9	87.0	70.8	100.2
33	Region 29	77.7	73.8	80.5	35.6	24.1	42.5	26.0	7.5	49.2	63.1	48.6	79.3	10.9	2.2	27.6	1.3	0.2	4.9	1.0	0.1	3.8	4	0	16	90.7	72.5	107.6
18	Region 30	76.9	71.1	79.9	36.8	29.2	41.5	24.8	5.6	47.1	64.1	49.0	74.7	11.2	3.1	23.3	1.6	0.4	3.2	1.2	0.4	3.1	6	0	21	94.6	79.9	107.2
14	Region 31	78.5	77.1	80.8	36.0	33.6	39.9	17.1	7.2	25.9	71.0	61.5	79.3	11.9	3.9	18.2	0.9	0.4	1.3	0.8	0.2	1.2	3	0	8	93.3	77.6	103.4
26	Region 32	78.4	76.3	80.3	38.3	32.3	43.3	33.0	9.7	65.9	57.5	29.9	72.1	9.5	3.8	22.7	1.5	0.5	2.6	1.1	0.4	2.2	3	0	8	89.8	82.8	97.8
5	Region 33	77.0	75.6	78.2	39.6	36.8	42.0	35.7	23.2	48.7	56.6	47.4	69.0	7.7	3.5	13.8	1.4	0.2	2.7	1.1	0.1	2.0	3	1	5	88.5	84.3	96.0
16	Region 34	78.6	77.6	80.7	38.0	33.9	41.3	28.8	7.1	45.3	61.2	48.4	72.9	10.0	5.7	23.1	1.1	0.3	2.0	0.9	0.1	1.7	2	0	5	89.1	81.9	97.6
8	Region 35	78.2	74.7	80.6	32.4	26.0	40.5	23.5	3.8	54.9	59.2	40.7	65.2	17.4	4.4	38.3	1.6	0.8	2.9	1.2	0.5	2.3	3	1	7	95.8	84.4	105.0
16	Region 36	77.2	74.7	80.0	35.9	29.4	39.1	15.3	1.9	29.6	68.4	53.0	74.5	16.4	8.8	35.3	1.4	0.5	4.3	1.1	0.5	3.0	7	0	28	98.3	90.3	111.0
458	Ave white	77.9			36.0			26.3			62.6			11.2			1.5			1.2			4			91.4		
	Min white	60.2			24.1			1.2			9.2			0.1			0.2			0.1			0			65.4		
	Max white	84.4			59.1			90.7			82.0			53.5			24.3			23.1			36			119.1		

TABLE 14: PHYSICAL QUALITY FACTORS OF MAIZE (2009/2010)

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.							
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	
8	Region 12	76.7	74.8	78.2	31.3	26.1	34.6	11.9	4.1	22.7	69.2	62.8	75.8	19.0	14.4	28.1	1.8	0.9	2.4	1.3	0.7	1.9	3	0	5	85.1	77.3	93.0	
6	Region 13	77.2	76.4	78.1	32.3	29.9	34.6	14.5	6.4	22.9	70.1	67.3	74.3	15.4	9.3	19.3	1.9	1.2	2.7	1.5	1.1	2.3	3	2	3	91.1	81.0	95.4	
10	Region 14	76.1	69.0	78.7	32.5	29.6	34.4	14.7	11.6	22.8	69.7	63.1	75.1	15.6	11.7	25.3	2.1	1.2	3.7	1.7	1.0	3.0	3	0	7	88.6	75.3	104.3	
4	Region 15	77.2	76.7	77.6	34.2	32.7	35.9	11.1	3.6	21.9	69.3	60.3	73.4	19.6	13.9	23.8	2.4	1.8	2.8	2.0	1.4	2.5	7	1	11	91.5	81.5	100.2	
5	Region 16	75.6	73.7	77.1	33.5	32.4	35.1	17.1	14.2	22.0	70.4	68.7	72.1	12.5	7.2	15.4	2.3	1.8	3.5	1.8	1.3	2.8	4	3	6	91.0	83.2	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	
8	Region 18	76.5	74.3	80.1	33.0	30.3	38.2	15.7	1.9	19.9	70.0	65.7	75.9	14.3	5.3	26.5	1.9	0.6	3.3	1.5	0.5	2.8	4	1	8	87.8	70.4	97.2	
4	Region 19	76.7	75.6	77.8	32.0	31.6	32.6	13.4	8.3	17.4	72.3	68.7	75.1	14.3	9.2	18.0	1.9	1.2	2.9	1.6	1.0	2.5	3	1	4	92.1	80.5	99.9	
9	Region 20	76.8	75.8	78.7	33.3	29.6	38.9	17.0	6.7	28.5	68.3	62.9	72.6	14.7	5.5	27.5	2.0	1.6	3.8	1.4	1.2	2.4	3	0	8	88.1	80.6	92.5	
9	Region 21	76.1	72.3	77.5	31.8	27.1	36.0	12.0	1.2	16.6	69.1	65.7	71.7	18.9	13.4	32.7	2.0	1.1	3.5	1.6	0.6	2.6	2	0	6	89.3	52.7	104.7	
3	Region 22	75.8	74.2	76.9	32.0	30.3	35.0	11.6	8.9	13.8	70.8	69.2	72.1	17.6	14.1	21.9	1.4	1.2	1.7	1.1	0.7	1.6	3	2	4	80.2	55.5	96.3	
10	Region 23	77.7	75.6	80.6	34.8	32.1	39.3	18.1	7.3	35.6	68.8	56.3	74.2	13.1	4.0	26.0	1.8	0.8	3.0	1.5	0.7	2.4	4	0	9	101.0	82.2	117.3	
7	Region 24	76.2	73.9	79.1	31.8	23.3	35.3	14.3	8.6	22.4	71.0	65.1	78.7	14.7	10.6	22.9	2.2	0.6	5.3	1.6	0.6	3.2	7	0	13	88.6	72.5	98.0	
31	Region 25	76.8	70.0	79.1	34.3	28.7	37.4	15.3	2.7	31.4	67.9	54.3	73.5	16.7	6.6	42.5	2.1	0.5	5.1	1.5	0.4	3.2	5	0	11	88.5	76.2	97.3	
18	Region 26	76.5	74.9	78.0	30.5	26.1	36.5	11.7	6.2	22.2	67.3	56.2	76.4	21.0	12.0	32.6	2.2	0.9	4.5	1.6	0.6	3.0	6	2	12	87.3	75.8	101.5	
10	Region 27	76.4	75.5	77.6	34.0	28.7	38.4	17.3	5.9	33.9	69.0	59.3	75.0	13.7	6.8	24.4	2.8	1.6	5.4	2.1	1.1	3.7	7	0	15	90.0	75.3	101.0	
64	Region 28	75.9	71.2	78.4	32.1	26.2	36.2	14.7	0.0	37.5	68.1	52.3	77.0	17.2	6.6	47.7	2.6	0.7	10.3	1.9	0.6	7.1	7	1	27	86.7	70.7	101.7	
40	Region 29	76.6	70.8	79.3	31.9	25.3	37.8	13.4	3.2	30.8	68.0	56.1	75.4	18.7	5.6	36.1	2.0	0.5	5.2	1.5	0.4	3.7	5	0	20	90.8	78.6	103.2	
13	Region 30	76.1	72.9	78.0	32.6	29.7	36.1	13.4	7.8	24.6	69.6	57.6	79.9	17.0	5.8	28.0	1.8	0.9	3.0	1.3	0.6	2.2	6	1	18	91.1	74.0	101.2	
13	Region 31	78.0	75.4	81.6	34.3	30.9	39.4	18.7	10.5	38.7	66.6	55.0	73.0	14.8	6.3	25.4	1.7	1.1	2.8	1.3	0.7	2.4	4	0	8	93.9	82.7	105.0	
9	Region 32	77.3	76.0	79.4	35.1	32.1	42.5	22.4	10.0	34.9	65.5	59.8	73.3	12.1	5.3	19.2	2.1	1.0	3.3	1.7	1.0	2.4	4	1	8	88.8	80.0	93.8	
10	Region 34	77.7	76.3	78.9	35.4	32.3	38.5	21.9	11.6	32.3	66.6	60.0	76.9	11.5	4.9	17.7	1.3	0.4	2.3	1.0	0.3	1.7	3	0	5	91.9	87.8	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	
9	Region 36	76.3	73.7	77.9	34.7	31.6	37.9	19.0	6.4	41.7	66.4	50.9	73.7	14.6	7.4	29.5	1.7	0.7	2.9	1.2	0.7	2.0	5	1	11	86.8	67.1	103.4	
342	Ave yellow	76.6	69.0	81.6	33.0	23.3	42.5	14.3	0.0	41.7	68.5	50.9	79.9	17.2	4.0	47.7	2.1	0.4	10.3	1.6	0.3	8.4	5	0	27	88.8	52.7	117.3	
	Min yellow																												
	Max yellow																												

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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.				
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	
6	Region 11	77.8	75.7	80.4	35.0	30.3	41.0	8.7	1.2	26.0	65.9	55.2	72.6	25.5	5.0	43.2	2.2	1.3	3.3	1.6	1.0	2.2	4	0	7	91.9	75.8	119.1	
19	Region 12	77.7	74.5	80.2	34.0	26.1	38.9	18.1	4.1	41.4	66.7	51.2	78.3	15.2	4.0	28.1	1.5	0.5	2.4	1.2	0.2	1.9	3	0	7	86.8	77.3	99.2	
15	Region 13	77.9	73.4	80.4	33.8	29.9	37.0	23.8	6.4	44.0	65.1	50.9	74.3	11.1	5.1	19.3	1.5	0.7	2.7	1.2	0.4	2.3	3	1	6	91.2	81.0	97.4	
28	Region 14	78.1	69.0	81.7	34.9	29.6	39.7	21.4	4.0	36.1	66.2	56.1	75.1	12.4	4.3	28.6	1.5	0.2	3.7	1.3	0.2	3.0	4	0	8	92.3	75.3	108.2	
23	Region 15	78.9	76.7	84.4	36.0	32.7	39.7	29.8	3.6	40.3	60.1	50.0	73.4	10.0	5.5	23.8	1.2	0.4	2.8	1.0	0.3	2.5	3	0	11	96.8	81.5	101.9	
27	Region 16	78.4	73.7	80.5	36.0	32.4	39.1	28.7	14.2	44.3	62.6	51.4	72.1	8.7	2.9	15.4	1.4	0.6	3.5	1.1	0.3	2.8	3	0	8	93.5	83.2	103.0	
20	Region 17	77.3	75.4	79.6	34.4	30.4	39.0	20.5	12.3	31.7	67.9	60.3	73.5	11.6	6.4	20.8	1.6	0.6	2.7	1.2	0.6	2.1	3	1	7	90.1	83.1	102.5	
22	Region 18	77.3	74.3	80.1	34.6	30.3	39.3	19.9	1.9	34.2	66.1	57.7	75.9	14.0	5.3	37.6	1.7	0.5	3.3	1.3	0.5	2.8	3	1	8	88.3	70.4	98.7	
14	Region 19	77.6	75.6	78.8	34.3	31.6	37.8	18.1	8.3	28.8	68.0	61.7	75.1	13.9	7.6	21.5	1.5	0.6	2.9	1.1	0.3	2.5	3	0	10	91.2	80.5	99.9	
19	Region 20	76.4	60.2	78.9	35.0	29.6	41.1	22.1	6.7	31.9	64.9	53.8	72.6	13.0	5.5	27.5	1.8	0.6	3.8	1.3	0.6	2.4	2	0	8	87.7	79.3	94.2	
38	Region 21	77.4	72.3	80.0	34.6	27.1	59.1	21.5	1.2	90.7	65.0	9.2	73.8	13.5	0.1	32.7	1.6	0.3	3.5	1.2	0.3	2.6	3	0	11	90.7	52.7	104.7	
13	Region 22	77.8	74.2	80.3	34.8	30.3	40.3	27.3	8.9	45.9	61.6	49.7	72.1	11.1	4.4	21.9	1.6	0.8	4.2	1.1	0.3	2.3	3	0	12	89.8	55.5	101.2	
44	Region 23	78.3	73.4	80.9	35.5	29.5	41.9	26.5	6.3	53.6	63.6	44.0	82.0	9.9	2.4	39.0	1.6	0.4	4.1	1.2	0.2	3.2	3	0	16	94.9	65.4	117.3	
39	Region 24	78.2	73.4	80.9	34.9	23.3	39.4	25.2	1.7	46.8	63.3	50.4	78.7	11.5	2.8	42.7	1.8	0.4	5.3	1.3	0.4	3.2	4	0	14	93.2	70.1	107.1	
54	Region 25	76.7	70.0	79.9	35.1	28.7	43.9	20.8	2.7	55.8	64.8	38.7	73.5	14.3	4.4	53.5	2.0	0.5	5.1	1.4	0.4	3.2	5	0	14	87.6	72.7	97.3	
37	Region 26	76.6	73.9	80.2	31.9	26.1	37.4	14.6	3.4	41.9	66.5	53.3	76.4	18.9	4.8	32.7	2.6	0.8	24.3	2.1	0.5	23.1	5	0	12	87.8	73.7	112.8	
16	Region 27	76.8	75.5	78.6	34.6	28.7	42.5	18.4	5.9	40.0	68.4	54.2	75.1	13.2	5.8	24.4	2.7	1.0	5.4	1.9	0.8	3.7	9	0	36	89.4	75.3	101.0	
104	Region 28	76.5	71.2	79.9	33.8	26.2	42.5	20.0	0.0	59.2	65.2	36.1	77.0	14.8	1.6	47.7	2.4	0.3	20.4	1.7	0.3	12.3	5	0	27	86.8	70.7	101.7	
73	Region 29	77.1	70.8	80.5	33.6	24.1	42.5	19.1	3.2	49.2	65.8	48.6	79.3	15.1	2.2	36.1	1.7	0.2	5.2	1.3	0.1	3.8	5	0	20	90.8	72.5	107.6	
31	Region 30	76.6	71.1	79.9	35.1	29.2	41.5	20.0	5.6	47.1	66.4	49.0	79.9	13.6	3.1	28.0	1.7	0.4	3.2	1.2	0.4	3.1	6	0	21	93.1	74.0	107.2	
27	Region 31	78.2	75.4	81.6	35.2	30.9	39.9	17.9	7.2	38.7	68.8	55.0	79.3	13.3	3.9	25.4	1.3	0.4	2.8	1.1	0.2	2.4	3	0	8	93.6	77.6	105.0	
35	Region 32	78.1	76.0	80.3	37.5	32.1	43.3	30.3	9.7	65.9	59.6	29.9	73.3	10.2	3.8	22.7	1.6	0.5	3.3	1.2	0.4	2.4	3	0	8	89.6	80.0	97.8	
5	Region 33	77.0	75.6	78.2	39.6	36.8	42.0	35.7	23.2	48.7	56.6	47.4	69.0	7.7	3.5	13.8	1.4	0.2	2.7	1.1	0.1	2.0	3	1	5	88.5	84.3	96.0	
26	Region 34	78.2	76.3	80.7	37.0	32.3	41.3	26.1	7.1	45.3	63.3	48.4	76.9	10.6	4.9	23.1	1.1	0.3	2.3	1.0	0.1	1.7	2	0	5	90.2	81.9	101.1	
13	Region 35	77.4	74.1	80.6	32.2	26.0	40.5	19.0	3.8	54.9	62.0	40.7	74.3	19.0	4.4	38.3	2.0	0.8	3.3	1.5	0.5	2.4	3	1	7	92.8	75.4	105.0	
25	Region 36	76.9	73.7	80.0	35.5	29.4	39.1	16.6	1.9	41.7	67.7	50.9	74.5	15.7	7.4	35.3	1.5	0.5	4.3	1.1	0.5	3.0	6	0	28	94.2	67.1	111.0	
800	Ave w & y	77.4			34.7			21.1			65.1			13.7			1.8			1.4			4			90.3			119.1
	Min white & yellow	60.2			23.3			0.0			9.2			0.1			53.5			0.2			0.1			0			36
	Max white & yellow	84.4			59.1			90.7			82.0			24.3			23.1			24.3			23.1			52.7			119.1