

**TABLE 14: PHYSICAL QUALITY FACTORS OF MAIZE (2008/2009)**

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.	Above 10 mm sieve		Above 8 mm sieve		Below 8 mm sieve		< 6.3 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 11	80.9	80.9	80.9	32.8	32.8	32.8	1.8	1.8	1.8	50.1	50.1	50.1	48.1	48.1	48.1	1.1	1.1	1.1	0.8	0.8	0.8	1	1	1	100.7	100.7	100.7
15	Region 12	77.9	74.4	80.1	35.1	29.6	37.5	26.9	10.5	36.3	62.8	56.5	71.7	10.3	5.1	17.8	1.6	0.7	3.3	1.1	0.3	2.0	3	0	7	93.9	79.7	103.5
17	Region 13	77.5	76.0	79.1	34.2	32.1	36.8	28.6	19.0	35.2	61.7	55.0	67.1	9.7	4.8	14.8	1.1	0.4	2.1	0.8	0.3	1.6	3	1	5	90.4	82.7	98.2
36	Region 14	78.8	75.3	82.8	35.3	28.0	38.4	31.2	14.9	41.6	59.6	49.8	69.5	9.2	3.8	18.0	1.1	0.3	2.4	0.8	0.2	1.7	3	0	13	98.2	91.2	111.9
25	Region 15	79.3	76.2	80.5	34.5	29.8	36.6	31.0	16.2	43.4	60.7	52.5	71.1	8.4	2.9	15.3	1.0	0.4	2.8	0.8	0.2	2.3	4	0	19	99.0	92.2	106.0
41	Region 16	78.3	74.6	81.3	35.8	31.2	43.4	28.5	1.7	42.4	62.2	52.0	77.9	9.3	2.9	37.8	1.4	0.5	4.3	1.1	0.3	4.1	3	0	13	94.1	82.2	106.0
35	Region 17	75.9	70.1	79.0	34.1	30.3	39.8	25.9	6.4	42.5	63.8	49.9	79.2	10.3	2.1	23.2	1.9	0.9	3.4	1.4	0.5	2.8	4	0	10	93.2	79.1	115.4
10	Region 18	77.1	75.0	78.4	35.9	31.4	38.4	27.7	18.7	34.5	63.4	57.8	69.6	8.9	5.1	14.4	1.8	0.9	3.3	1.4	0.4	2.9	5	0	18	97.7	87.9	106.0
10	Region 19	77.3	75.4	78.4	36.0	33.2	39.6	29.9	21.9	43.3	62.8	49.2	69.0	7.4	4.0	9.4	1.4	0.9	1.7	1.0	0.7	1.4	4	0	6	96.2	89.7	106.7
17	Region 20	77.2	74.3	78.7	34.7	31.3	40.1	25.5	8.8	36.3	64.7	57.6	75.6	9.8	4.8	15.6	1.7	0.6	3.1	1.3	0.5	2.4	7	0	31	92.2	81.7	103.7
24	Region 21	77.9	76.4	79.8	35.1	31.0	42.8	24.9	12.8	33.3	64.9	59.1	76.4	10.1	5.3	15.7	1.6	0.6	2.8	1.3	0.6	2.4	3	0	10	94.3	87.2	106.3
19	Region 22	78.5	77.3	80.7	35.8	32.1	38.0	31.5	16.4	43.1	60.9	54.3	73.5	7.6	2.6	14.4	1.1	0.5	2.4	0.8	0.3	2.2	1	0	8	98.1	91.4	103.1
30	Region 23	78.4	74.2	80.3	35.3	31.0	44.0	28.2	15.1	39.2	63.2	55.1	75.9	8.6	5.4	14.0	1.4	0.7	3.0	1.1	0.4	2.1	3	0	16	96.0	74.0	105.9
16	Region 24	77.1	61.6	79.9	35.3	27.9	40.5	22.5	0.5	39.0	63.6	48.5	74.8	13.9	4.2	51.0	1.9	0.6	6.1	1.4	0.4	3.6	5	0	15	91.7	80.7	106.5
13	Region 25	76.3	73.8	78.8	33.0	29.1	36.5	19.6	12.2	33.3	67.2	56.9	72.2	13.3	6.1	21.5	1.9	0.2	10.8	1.4	0.1	8.1	4	0	29	84.3	70.0	98.4
19	Region 26	76.5	73.6	79.9	33.1	30.5	36.6	21.3	12.4	40.9	65.9	52.1	76.6	12.8	7.0	24.8	1.6	0.5	3.7	1.2	0.4	2.7	4	0	16	90.8	72.5	100.3
6	Region 27	77.2	76.0	78.5	35.2	34.2	36.3	25.8	17.3	31.0	64.5	58.0	70.8	9.8	6.6	11.9	4.2	1.1	7.3	2.6	0.7	4.3	24	1	50	89.9	83.5	96.9
26	Region 28	77.4	73.9	79.7	34.8	30.9	38.7	23.9	13.1	37.4	65.6	57.1	74.1	10.5	5.5	19.2	1.3	0.4	4.3	1.0	0.2	3.9	8	2	23	90.3	82.8	96.2
31	Region 29	77.3	72.8	80.7	35.0	27.1	39.8	26.3	10.6	46.4	62.2	43.1	74.0	11.4	4.6	30.5	1.3	0.4	4.2	1.0	0.2	3.9	3	0	15	93.4	72.1	106.3
22	Region 30	77.4	75.4	79.0	35.0	31.5	40.8	21.2	4.5	43.3	65.1	46.8	78.4	13.7	3.3	36.5	2.2	0.4	11.7	1.5	0.1	8.7	11	2	39	94.1	70.4	107.8
12	Region 31	77.7	74.1	79.2	37.5	31.4	40.9	15.3	4.5	30.0	71.3	63.3	84.0	13.4	5.9	24.0	1.1	0.4	2.2	1.0	0.4	2.0	5	0	11	93.6	85.1	102.3
19	Region 32	77.8	75.1	79.4	36.7	33.3	40.1	28.8	18.0	42.0	62.6	52.7	73.1	8.6	5.3	11.1	1.3	0.3	2.6	1.0	0.2	2.3	5	0	20	89.5	78.6	107.5
1	Region 33	77.2	77.2	77.2	34.1	34.1	34.1	34.9	34.9	34.9	59.0	59.0	59.0	6.1	6.1	6.1	0.6	0.6	0.6	0.5	0.5	0.5	2	2	2	83.7	83.7	83.7
12	Region 34	77.4	73.8	79.8	36.0	32.3	38.7	30.5	2.7	45.2	59.3	49.5	71.8	10.2	4.4	29.6	1.3	0.3	2.4	1.0	0.2	1.8	4	1	16	89.2	70.6	100.2
9	Region 35	77.0	74.5	80.6	35.3	32.6	39.7	26.2	11.6	33.5	63.5	57.8	69.1	10.4	5.8	25.3	0.9	0.2	1.7	0.6	0.2	1.1	4	2	10	97.3	89.1	105.3
17	Region 36	76.5	74.0	78.0	34.1	31.1	37.4	17.3	4.3	26.0	66.8	59.6	80.0	16.0	9.2	22.5	1.7	0.3	4.5	1.4	0.3	3.9	9	2	24	98.7	89.0	103.6
483	Ave white	77.6			35.1			26.2			63.3			10.5			1.5			1.1			5			93.9		
	Min white	61.6			27.1			0.5			43.1			2.1			0.2			0.1			0			70.0		
	Max white	82.8			44.0			46.4			84.0			51.0			11.7			8.7			50			115.4		

**TABLE 14: PHYSICAL QUALITY FACTORS OF MAIZE (2008/2009)**

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		< 6.3 mm sieve		< 4.75 mm sieve		ave.	min.	max.	ave.	min.	max.								
								ave.	min.	max.	ave.	min.	max.	ave.	min.							max.	ave.	min.	max.				
16	Region 10	77.1	74.8	78.3	37.4	33.2	45.4	6.7	2.9	10.4	72.1	64.4	79.9	21.2	13.9	31.2	1.7	0.6	10.3	1.5	0.2	9.9	3	0	6	85.4	72.7	95.7	
12	Region 11	77.0	76.0	77.9	33.7	31.6	36.3	7.0	1.3	22.1	67.0	60.5	72.0	26.0	9.9	34.9	2.1	1.3	3.0	1.5	1.0	1.9	3	0	7	86.3	77.3	94.3	
6	Region 12	76.7	74.7	79.0	31.5	30.2	32.8	12.8	5.4	17.0	71.7	67.9	74.0	15.5	11.5	21.1	1.7	1.0	2.6	1.3	0.9	2.3	4	1	6	92.3	87.1	97.7	
6	Region 13	76.7	75.3	78.0	32.3	28.9	35.0	15.8	7.9	29.5	69.0	62.0	75.3	15.2	8.5	22.8	1.7	1.0	2.1	1.4	0.6	1.8	6	1	9	89.6	76.7	99.1	
12	Region 14	77.7	72.9	81.2	33.4	26.6	37.8	20.8	6.2	33.3	66.6	52.8	75.5	12.6	6.6	24.2	2.1	1.2	3.2	1.6	0.9	3.1	4	1	8	99.4	86.4	105.3	
7	Region 15	77.3	76.7	77.8	33.1	29.3	35.4	8.4	5.3	17.3	72.2	66.5	75.7	19.4	13.8	26.1	1.5	1.1	2.2	1.0	0.7	1.6	5	3	12	91.1	82.7	101.4	
9	Region 16	76.1	74.0	78.0	32.2	30.8	33.8	14.8	8.0	22.5	68.7	59.9	75.6	16.6	11.8	22.0	2.4	0.8	5.4	1.5	0.5	3.5	8	3	14	93.6	79.3	103.2	
13	Region 17	75.6	71.9	77.4	30.6	25.8	33.6	14.4	3.8	21.3	68.8	64.8	73.6	16.8	9.9	31.0	2.4	1.3	5.4	1.8	1.1	4.3	6	1	14	94.2	82.2	103.3	
5	Region 18	75.8	75.3	76.8	33.9	31.9	37.0	24.6	18.2	37.8	63.5	59.1	69.5	11.9	3.1	18.8	3.3	1.8	6.4	2.5	1.7	4.6	6	1	22	93.1	83.6	103.1	
6	Region 19	76.6	74.9	79.6	31.6	27.3	35.6	10.9	6.0	14.2	68.3	61.3	71.5	20.8	15.3	32.7	1.8	1.2	2.4	1.4	0.9	1.8	6	1	16	96.0	90.8	101.1	
6	Region 20	76.8	76.3	77.4	33.3	31.2	38.2	17.5	12.0	24.4	65.6	54.9	72.5	16.9	10.6	29.7	2.7	1.8	3.4	2.1	1.5	2.5	6	1	11	94.6	89.6	98.0	
7	Region 21	76.1	73.5	77.3	31.8	27.6	36.2	13.1	7.5	21.9	70.2	63.1	76.3	16.7	8.7	26.7	2.0	0.6	3.3	1.6	0.5	2.5	4	1	8	93.2	78.8	101.5	
4	Region 22	75.8	74.6	77.1	32.4	30.0	35.0	16.7	11.6	22.8	70.2	66.4	73.4	13.1	8.6	16.2	2.0	1.5	2.6	1.4	1.0	1.6	2	0	5	96.9	91.6	105.2	
8	Region 23	77.0	75.9	77.9	33.2	31.0	35.5	17.0	12.8	20.2	69.3	66.4	72.8	13.7	8.1	19.4	2.5	1.5	4.5	2.0	0.9	4.1	5	2	11	101.1	90.6	108.0	
4	Region 24	76.0	74.3	77.0	30.9	26.9	33.1	15.5	10.1	20.5	67.3	63.8	69.8	17.2	12.3	26.1	1.7	0.8	2.9	1.1	0.2	2.1	4	0	8	96.1	83.8	103.3	
24	Region 25	76.2	74.0	77.7	31.2	27.4	35.0	12.2	2.1	25.1	66.2	58.8	73.0	21.5	8.5	39.1	1.6	0.3	2.9	1.1	0.2	2.0	6	1	18	84.2	74.5	95.4	
15	Region 26	76.6	72.7	80.4	31.1	28.7	33.7	13.5	5.6	22.5	66.0	55.6	74.1	20.5	11.0	33.7	2.2	0.9	6.6	1.4	0.4	4.1	6	1	29	98.7	92.0	108.1	
10	Region 27	77.0	75.9	79.2	33.8	31.2	41.1	16.5	11.0	24.1	68.1	61.1	77.2	15.5	8.0	20.9	1.9	0.3	2.9	1.3	0.0	2.2	12	4	31	97.1	92.8	103.2	
47	Region 28	76.4	72.1	79.3	31.9	25.4	36.6	15.3	3.0	32.6	65.1	49.2	75.9	19.6	8.5	39.3	1.6	0.2	4.2	1.0	0.1	2.9	9	1	32	91.8	68.6	102.8	
5	Region 29	77.3	75.4	78.7	32.7	29.5	35.3	19.0	12.8	25.1	64.9	62.9	67.7	16.1	8.6	24.3	1.1	0.6	1.5	0.8	0.5	1.0	5	2	8	96.9	89.5	100.6	
27	Region 30	77.0	73.1	78.7	32.9	28.2	38.8	13.8	4.8	28.5	67.7	57.8	75.4	18.5	10.3	25.5	1.3	0.1	2.6	0.8	0.1	1.5	5	0	12	89.8	74.4	106.4	
25	Region 31	77.8	75.3	80.1	34.7	27.6	44.4	17.8	5.6	39.5	65.5	52.8	73.0	16.7	7.1	36.7	1.5	0.6	2.8	1.0	0.3	2.1	8	3	18	99.4	86.0	106.9	
16	Region 32	77.4	75.7	79.3	32.7	26.4	40.3	18.8	4.3	33.9	64.8	58.7	76.8	16.4	4.9	32.3	1.7	0.9	2.8	1.3	0.8	2.0	7	2	14	93.4	76.0	109.0	
5	Region 33	76.4	73.0	78.2	32.6	28.4	34.4	18.3	4.0	33.5	66.5	55.8	76.9	15.2	10.7	19.1	1.6	0.6	2.1	1.1	0.5	1.5	3	2	4	86.4	75.7	92.6	
9	Region 34	78.1	76.3	80.0	33.3	30.9	35.1	21.6	11.4	37.8	66.4	55.9	74.6	11.9	6.3	18.2	1.3	0.6	1.9	1.0	0.4	1.6	4	1	6	97.8	88.3	104.4	
13	Region 35	72.1	69.9	77.8	35.5	24.2	42.8	36.6	2.8	52.8	52.5	44.3	72.2	10.9	1.6	44.6	1.2	0.2	5.0	0.7	0.2	3.5	8	1	17	103.4	77.9	112.7	
10	Region 36	76.2	71.8	78.2	32.4	28.6	36.1	12.8	6.4	19.1	65.6	60.4	68.9	21.7	14.4	28.1	2.7	1.4	4.6	1.9	1.0	3.1	7	1	14	91.6	72.2	100.8	
327	Ave yellow	76.6	69.9	81.2	32.9	24.2	45.4	15.7	1.3	52.8	66.5	44.3	79.9	17.8	1.6	44.6	1.8	0.1	10.3	1.3	0.0	9.9	6	0	32	93.2	68.6	112.7	
	Min yellow																												
	Max yellow																												

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Number of samples	Region	Hectolitre mass (kg/htl)		100 kernel mass (g)		Kernel size (%)		Breakage susceptibility (%)						Stress cracks (%)			Milling index												
		ave.	min.	max.	Above 10 mm sieve		Above 8 mm sieve		< 6.3 mm sieve		< 4.75 mm sieve		ave.	min.	max.	ave.	min.	max.											
					ave.	min.	max.	ave.	min.	max.	ave.	min.							max.										
<b>WHITE AND YELLOW</b>																													
16	Region 10	77.1	74.8	78.3	37.4	33.2	45.4	6.7	2.9	10.4	72.1	64.4	79.9	21.2	13.9	31.2	1.7	0.6	10.3	1.5	0.2	9.9	3	0	6	85.4	72.7	95.7	
13	Region 11	77.3	76.0	80.9	33.6	31.6	36.3	6.6	1.3	22.1	65.7	50.1	72.0	27.7	9.9	48.1	2.0	1.1	3.0	1.5	0.8	1.9	3	0	7	87.4	77.3	100.7	
21	Region 12	77.5	74.4	80.1	34.1	29.6	37.5	22.9	5.4	36.3	65.3	56.5	74.0	11.8	5.1	21.1	1.6	0.7	3.3	1.2	0.3	2.3	4	0	7	93.4	79.7	103.5	
23	Region 13	77.3	75.3	79.1	33.7	28.9	36.8	25.3	7.9	35.2	63.6	55.0	75.3	11.1	4.8	22.8	1.2	0.4	2.1	0.9	0.3	1.8	4	1	9	90.2	76.7	99.1	
48	Region 14	78.5	72.9	82.8	34.8	26.6	38.4	28.6	6.2	41.6	61.4	49.8	75.5	10.1	3.8	24.2	1.3	0.3	3.2	1.0	0.2	3.1	4	0	13	98.5	86.4	111.9	
32	Region 15	78.9	76.2	80.5	34.2	29.3	36.6	26.0	5.3	43.4	63.2	52.5	75.7	10.8	2.9	26.1	1.1	0.4	2.8	0.8	0.2	2.3	4	0	19	97.2	82.7	106.0	
50	Region 16	77.9	74.0	81.3	35.2	30.8	43.4	26.0	1.7	42.4	63.4	52.0	77.9	10.6	2.9	37.8	1.6	0.5	5.4	1.2	0.3	4.1	4	0	14	94.1	79.3	106.0	
48	Region 17	75.8	70.1	79.0	33.2	25.8	39.8	22.8	3.8	42.5	65.1	49.9	79.2	12.1	2.1	31.0	2.0	0.9	5.4	1.5	0.5	4.3	5	0	14	93.5	79.1	115.4	
15	Region 18	76.7	75.0	78.4	35.3	31.4	38.4	26.7	18.2	37.8	63.4	57.8	69.6	9.9	3.1	18.8	2.3	0.9	6.4	1.8	0.4	4.6	5	0	22	96.2	83.6	106.0	
16	Region 19	77.0	74.9	79.6	34.4	27.3	39.6	22.8	6.0	43.3	64.8	49.2	71.5	12.4	4.0	32.7	1.6	0.9	2.4	1.2	0.7	1.8	4	0	16	96.1	89.7	106.7	
23	Region 20	77.1	74.3	78.7	34.3	31.2	40.1	23.4	8.8	36.3	64.9	54.9	75.6	11.6	4.8	29.7	1.9	0.6	3.4	1.5	0.5	2.5	6	0	31	92.8	81.7	103.7	
31	Region 21	77.5	73.5	79.8	34.4	27.6	42.8	22.3	7.5	33.3	66.1	59.1	76.4	11.6	5.3	26.7	1.7	0.6	3.3	1.3	0.5	2.5	3	0	10	94.1	78.8	106.3	
23	Region 22	78.0	74.6	80.7	35.2	30.0	38.0	28.9	11.6	43.1	62.5	54.3	73.5	8.6	2.6	16.2	1.3	0.5	2.6	0.9	0.3	2.2	1	0	8	97.9	91.4	105.2	
38	Region 23	78.1	74.2	80.3	34.9	31.0	44.0	25.8	12.8	39.2	64.5	55.1	75.9	9.7	5.4	19.4	1.7	0.7	4.5	1.3	0.4	4.1	3	0	16	97.1	74.0	108.0	
20	Region 24	76.9	61.6	79.9	34.4	26.9	40.5	21.1	0.5	39.0	64.4	48.5	74.8	14.6	4.2	51.0	1.9	0.6	6.1	1.3	0.2	3.6	4	0	15	92.6	80.7	106.5	
37	Region 25	76.3	73.8	78.8	31.8	27.4	36.5	14.8	2.1	33.3	66.6	56.9	73.0	18.6	6.1	39.1	1.7	0.2	10.8	1.2	0.1	8.1	5	0	29	84.2	70.0	98.4	
34	Region 26	76.5	72.7	80.4	32.2	28.7	36.6	17.9	5.6	40.9	65.9	52.1	76.6	16.2	7.0	33.7	1.8	0.5	6.6	1.3	0.4	4.1	5	0	29	94.3	72.5	108.1	
16	Region 27	77.1	75.9	79.2	34.3	31.2	41.1	19.9	11.0	31.0	66.7	58.0	77.2	13.3	6.6	20.9	2.7	0.3	7.3	1.8	0.0	4.3	16	1	50	94.4	83.5	103.2	
73	Region 28	76.8	72.1	79.7	32.9	25.4	38.7	18.4	3.0	37.4	65.3	49.2	75.9	16.3	5.5	39.3	1.5	0.2	4.3	1.0	0.1	3.9	8	1	32	91.3	68.6	102.8	
36	Region 29	77.3	72.8	80.7	34.7	27.1	39.8	25.3	10.6	46.4	62.6	43.1	74.0	12.1	4.6	30.5	1.3	0.4	4.2	0.9	0.2	3.9	4	0	15	93.9	72.1	106.3	
49	Region 30	77.2	73.1	79.0	33.8	28.2	40.8	17.1	4.5	43.3	66.5	46.8	78.4	16.4	3.3	36.5	1.7	0.1	11.7	1.1	0.1	8.7	8	0	39	91.8	70.4	107.8	
37	Region 31	77.8	74.1	80.1	35.6	27.6	44.4	17.0	4.5	39.5	67.4	52.8	84.0	15.6	5.9	36.7	1.4	0.4	2.8	1.0	0.3	2.1	7	0	18	97.5	85.1	106.9	
35	Region 32	77.6	75.1	79.4	34.9	26.4	40.3	24.2	4.3	42.0	63.6	52.7	76.8	12.2	4.9	32.3	1.5	0.3	2.8	1.1	0.2	2.3	6	0	20	91.2	76.0	109.0	
6	Region 33	76.5	73.0	78.2	32.8	28.4	34.4	21.1	4.0	34.9	65.3	55.8	76.9	13.7	6.1	19.1	1.5	0.6	2.1	1.0	0.5	1.5	3	2	4	85.9	75.7	92.6	
21	Region 34	77.7	73.8	80.0	34.8	30.9	38.7	26.7	2.7	45.2	62.4	49.5	74.6	10.9	4.4	29.6	1.3	0.3	2.4	1.0	0.2	1.8	4	1	16	92.9	70.6	104.4	
22	Region 35	74.2	69.9	80.6	35.4	24.2	42.8	32.3	2.8	52.8	57.0	44.3	72.2	10.7	1.6	44.6	1.1	0.2	5.0	0.7	0.2	3.5	6	1	17	100.9	77.9	112.7	
27	Region 36	76.4	71.8	78.2	33.5	28.6	37.4	15.6	4.3	26.0	66.3	59.6	80.0	18.1	9.2	28.1	2.1	0.3	4.6	1.6	0.3	3.9	8	1	24	96.0	72.2	103.6	
<b>810</b>	<b>Ave w &amp; y</b>	<b>77.2</b>	<b>61.6</b>	<b>82.8</b>	<b>34.2</b>	<b>24.2</b>	<b>45.4</b>	<b>21.9</b>	<b>0.5</b>	<b>52.8</b>	<b>64.6</b>	<b>43.1</b>	<b>84.0</b>	<b>13.4</b>	<b>1.6</b>	<b>51.0</b>	<b>1.6</b>	<b>0.1</b>	<b>11.7</b>	<b>1.2</b>	<b>0.0</b>	<b>9.9</b>	<b>5</b>	<b>0</b>	<b>50</b>	<b>93.6</b>	<b>68.6</b>	<b>115.4</b>	
	<b>Min white &amp; yellow</b>																												
	<b>Max white &amp; yellow</b>																												