

IMPORTED MAIZE QUALITY
Imported maize quality versus RSA crop quality
2005/2006

Country of origin	Argentina Average			RSA Crop Average		
Class and grade yellow maize	YM1	YM2	COM	YM1	YM2	COM
RSA Grading						
Defective kernels above 6.35 mm sieve, %	1.9	1.9	2.4	4.0	8.3	8.1
Defective kernels below 6.35 mm sieve, %	1.7	8.3	5.5	1.8	2.5	3.1
Total defective kernels, %	3.6	10.2	8.1	5.8	10.8	11.2
Other colour maize kernels, %	0.0	0.0	0.1	0.1	0.4	7.4
Foreign matter, %	0.2	0.1	0.2	0.2	0.2	0.2
Combined deviation, %	3.8	10.3	8.3	6.0	11.5	18.8
Pinked maize kernels, %	9.6	4.4	18.6	0.1	0.2	0.6
Noxious seeds	0	0	0	0	0	0
Physical Factors						
Hectolitre mass, kg/hl	77.5	75.4	76.1	76.2	74.0	74.1
100 Kernel mass, g	33.5	30.3	31.7	32.3	30.0	30.7
Stress cracks, %	6	10	14	5	5	10
Milling Index	99.7	104.1	93.4	93.1	87.0	87.8
Kernel Size						
% on top 10 mm	10.4	3.8	5.9	19.2	18.7	20.0
% on top 8 mm	73.8	70.1	55.2	65.5	65.3	63.4
% through 8 mm	15.8	26.1	38.6	15.3	16.1	16.6
Breakage susceptibility, g						
Below 6.35 mm sieve	0.0	1.8	1.4	2.0	3.7	3.4
Below 4.8 mm sieve	0.0	1.0	1.0	1.4	2.5	2.1
Nutritional Factors						
Protein, %	8.4	9.8	8.6	8.3	8.4	8.4
Fat, % (db)	3.9	4.3	4.5	3.9	3.9	4.0
Starch, % (db)	71.5	69.3	70.7	71.5	71.4	71.4
Number of samples	1	1	41	209	86	7
Mycotoxins						
Total Aflatoxin, ppb (ug/kg) [max. value]	0.38 [4.00]			0.00 [0.00]		
Fumonisin, ppm (mg/kg) [max. value]	1.39 [5.70]			1.29 [13.00]		
Deoxynivalenol, ppm (mg/kg) [max. value]	1.08 [2.60]			2.64 [5.90]		
Ochratoxin A, ppb (ug/kg) [max. value]	0.33 [2.90]			0.14 [2.90]		
Zearalenone, ppm (mg/kg) [max. value]	0.08 [0.37]			0.03 [0.39]		
Number of samples	21			39		
GMO						
MON 810, % Samples positive (> LOD of 0.15 %)	100			97		
NK 603 (Roundup Ready), % Samples positive (> LOD of 0.25 %)	76			28		
Number of samples	21			39		