

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	YM2	COM	YM2	COM
RSA Grading				
Defective kernels above 6.35 mm sieve, %	1.9	2.5	8.3	8.1
Defective kernels below 6.35 mm sieve, %	8.3	5.4	2.5	3.1
Total defective kernels, %	10.2	8.2	10.8	11.2
Other colour maize kernels, %	0.0	0.3	0.4	7.4
Foreign matter, %	0.1	0.1	0.2	0.2
Combined deviation, %	10.3	8.3	11.5	18.8
Pinked maize kernels, %	4.4	18.1	0.2	0.6
Noxious seeds	0	0	0	0
Physical Factors				
Hectolitre mass, kg/hl	75.4	76.3	74.0	74.1
100 Kernel mass, g	30.3	32.7	30.0	30.7
Stress cracks, %	10	8	5	10
Milling Index	104.1	93.9	87.0	87.8
Kernel Size				
% on top 10 mm	3.8	7.6	18.7	20.0
% on top 8 mm	70.1	47.3	65.3	63.4
% through 8 mm	26.1	44.6	16.1	16.6
Breakage susceptibility, g				
Below 6.35 mm sieve	1.8	1.0	3.7	3.4
Below 4.8 mm sieve	1.0	0.7	2.5	2.1
Nutritional Factors				
Protein, %	9.8	8.8	8.4	8.4
Fat, % (db)	4.3	4.7	3.9	4.0
Starch, % (db)	69.3	69.6	71.4	71.4
Number of samples	1	21	86	7
Mycotoxins				
Total Aflatoxin, ppb (ug/kg) [max. value]	< 1 [1.00]		0.00 [0.00]	
Fumonisin, ppm (mg/kg) [max. value]	1.61 [5.70]		0.54 [2.70]	
Deoxynivalenol, ppm (mg/kg) [max. value]	0.55 [2.10]		2.97 [4.90]	
Ochratoxin, ppb (ug/kg) [max. value]	< 2 [2.90]		< 2 [2.90]	
Zearalenone, ppm (mg/kg) [max. value]	0.13 [0.37]		< 0.1 [0.30]	
Number of samples	13		18	
GMO				
MON810, % Samples positive (> LOD of 0.15 %)	100		100	
NK603 (Roundup Ready), % Samples positive (> LOD of 0.25 %)	69		44	
Number of samples	13		18	