

IMPORTED MAIZE QUALITY
Imported maize quality versus RSA crop quality
2004/2005

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, %	3.2	3.0	6.8	27.2
Defective kernels below 6.35 mm sieve, %	7.6	5.8	3.6	2.9
Total defective kernels, %	10.8	8.8	10.4	30.1
Other colour maize kernels, %	0.0	0.0	0.4	1.0
Foreign matter, %	0.1	0.1	0.2	0.4
Combined deviation, %	10.9	8.9	11.0	31.5
Pinked maize kernels, %	11.3	20.3	0.2	0.0
Noxious seeds	0	0	0	0
Physical Factors				
Hectolitre mass, kg/hl	66.6	75.7	75.7	75.9
100 Kernel mass, g	30.7	31.0	31.7	33.4
Stress cracks, %	11	11	6	2
Milling Index	89.7	90.7	93.3	96.6
Kernel Size				
% on top 10 mm	3.7	5.4	17.1	16.6
% on top 8 mm	60.6	57.0	62.6	70.6
% through 8 mm	35.8	36.3	20.3	12.8
Breakage susceptibility, g				
Below 6.35 mm sieve	0.7	1.1	2.0	1.2
Below 4.8 mm sieve	0.8	0.7	1.4	1.0
Nutritional Factors				
Protein, %	8.0	8.4	8.7	9.0
Fat, % (db)	4.8	4.6	3.8	4.1
Starch, % (db)	71.1	70.7	71.7	70.8
Number of samples	2	33	70	1
Mycotoxins				
Total Aflatoxin, ppb (ug/kg) [max. value]	1.21 [11.00]		0.00 [0.00]	
Fumonisin, ppm (mg/kg) [max. value]	1.55 [3.20]		1.3 [3.50]	
Deoxynivalenol, ppm (mg/kg) [max. value]	< 0.5 [2.40]		1.0 [3.26]	
Ochratoxin, ppb (ug/kg) [max. value]	<2 [2.90]		< 2 [<2]	
Zearalenone, ppm (mg/kg) [max. value]	< 0.1 [0.29]		< 0.1 [0.31]	
Number of samples	14		7	
GMO				
MON810, % Samples positive (> LOD of 0.15 %)	100		100	
NK603 (Roundup Ready), % Samples positive (> LOD of 0.25 %)	86		57	
Number of samples	14		7	