IMPORTED MAIZE QUALITY

Imported maize quality versus RSA crop quality 2008/2009

Country of origin	ARGENTINA	RSA Crop Average
Class and grade yellow maize	**YM2**	**YM2**
RSA Grading		
Defective kernels above 6.35 mm sieve, %	2.8	4.9
Defective kernels below 6.35 mm sieve, %	7.0	3.7
Total defective kernels, %	9.8	8.6
Other colour maize kernels, %	0.0	0.5
Foreign matter, %	0.1	0.2
Combined deviation, %	9.9	9.4
Pinked maize kernels, %	0.0	0.0
Noxious seeds	0	0
Physical Factors		
Hectolitre mass, kg/hl	76.2	75.4
100 Kernel mass, g	28.2	30.7
Stress cracks, %	49	6
Milling Index	105.5	87.8
Kernel Size		
% on top 10 mm	4.2	12.2
% on top 8 mm	61.2	67.3
% through 8 mm	34.6	20.6
Breakage susceptibility, g		
Below 6.35 mm sieve	6.5	2.2
Below 4.8 mm sieve	4.3	1.6
Nutritional Factors		
Protein, %	8.6	8.0
Fat, % (db)	4.2	3.6
Starch, % (db)	73.3	73.4
Number of samples	***4***	***25***
Mycotoxins		
Total Aflatoxin, ppb (ug/kg) [max. value]	0.00 [0.00]	0.00 [<2]
Fumonisin, ppm (mg/kg) [max. value]	0.80 [0.80]	1.48 [3.00]
Deoxynivalenol, ppm (mg/kg) [max. value]	<0.25 [<0.25]	0.28 [0.50]
Ochratoxin A, ppb (ug/kg) [max. value]	0.00 [0.00]	0.00 [0.00]
Zearalenone, ppm (mg/kg) [max. value]	0.00 [0.00]	0.00 [0.00]
Number of samples	***1***	***3***
GMO		
MON810, % Samples positive (> LOD of 0.15 %)	<0.15 [<0.15]	>2 [>2]
NK603 (Roundup Ready), % Samples positive (> LOD of 0.25 %)	0.30 [0.30]	>1.8 [>1.8]
Number of samples	***1***	***3***

IMPORTED MAIZE QUALITY

Imported maize quality versus RSA crop quality

2008/2009

Country of origin	BRAZIL		RSA Crop Average	
Class and grade yellow maize	**YM1**	**YM2**	**YM1**	**YM2**
RSA Grading				
Defective kernels above 6.35 mm sieve, %	2.8	2.1	2.0	4.9
Defective kernels below 6.35 mm sieve, %	3.6	5.2	1.8	3.7
Total defective kernels, %	6.3	7.3	3.9	8.6
Other colour maize kernels, %	0.0	0.0	0.1	0.5
Foreign matter, %	0.1	0.1	0.1	0.2
Combined deviation, %	6.4	7.4	4.1	9.4
Pinked maize kernels, %	0.0	0.0	0.0	0.0
Noxious seeds	0	0	0	0
Physical Factors				
Hectolitre mass, kg/hl	77.1	77.1	76.7	75.4
100 Kernel mass, g	31.0	31.1	33.1	30.7
Stress cracks, %	15	15	6	6
Milling Index	104.8	103.3	93.7	87.8
Kernel Size				
% on top 10 mm	5.8	5.7	16.0	12.2
% on top 8 mm	72.4	71.8	66.5	67.3
% through 8 mm	21.5	22.5	17.5	20.6
Breakage susceptibility, g				
Below 6.35 mm sieve	2.1	1.5	1.8	2.2
Below 4.8 mm sieve	1.4	1.0	1.2	1.6
Nutritional Factors				
Protein, %	8.1	8.1	8.2	8.0
Fat, % (db)	4.7	4.6	3.6	3.6
Starch, % (db)	74.0	72.1	73.1	73.4
Number of samples	***2***	***1***	***297***	***25***
Mycotoxins				
Total Aflatoxin, ppb (ug/kg) [max. value]	0.00 [0.00]		0.00 [<2]	0.00 [<2]
Fumonisin, ppm (mg/kg) [max. value]	1.90 [1.90]		0.25 [1.90]	1.48 [3.00]
Deoxynivalenol, ppm (mg/kg) [max. value]	0.00 [0.00]		0.36 [2.40]	0.28 [0.50]
Ochratoxin A, ppb (ug/kg) [max. value]	0.00 [0.00]		0.09 [1.00]	0.00 [0.00]
Zearalenone, ppm (mg/kg) [max. value]	0.00 [0.00]		0.01 [0.16]	0.00 [0.00]
Number of samples	***1***		***33***	***3***
GMO				
MON810, % Samples positive (> LOD of 0.15 %)	>2 [>2]		1.77 [>2]	>2 [>2]
NK603 (Roundup Ready), % Samples positive (> LOD of 0.25 %)	<0.25 [<0.25]		1.31 [>1.8]	>1.8 [>1.8]
Number of samples	***1***		***33***	***3***