

IMPORTED MAIZE QUALITY
Quality of maize imported from 26 April 2014 to 24 April 2015
compared to RSA crop quality 2013/2014

Country of origin	Argentina				RSA Crop Average			
Class and grade yellow maize	YM1	YM2	COM	Average	YM1	YM2	COM	Average
RSA Grading								
Defective kernels above 6.35 mm sieve, %	3.4	3.3	4.3	4.1	3.0	7.0	9.2	4.0
Defective kernels below 6.35 mm sieve, %	3.8	4.2	3.4	3.5	1.7	3.7	2.3	2.1
Total defective kernels, %	7.2	7.5	7.7	7.6	4.7	10.7	11.5	6.1
Other colour maize kernels, %	0.0	0.0	0.0	0.0	0.1	0.4	2.1	0.2
Foreign matter, %	0.2	0.2	0.1	0.1	0.1	0.1	0.5	0.1
Combined deviations, %	7.4	7.7	7.1	7.2	4.9	11.2	14.1	6.4
Pinked maize kernels, %	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Physical Factors								
100 Kernel mass, g	30.2	27.9	29.8	29.7	32.3	30.0	31.9	31.8
Stress cracks, %	7	9	12	11	7	8	19	7
Milling Index	79.7	78.6	80.4	80.1	90.4	84.8	75.5	89.0
Kernel Size								
% above 10 mm sieve	1.5	3.5	3.8	3.4	15.8	12.1	11.9	14.9
% above 8 mm sieve	55.9	51.6	63.5	61.2	67.6	64.6	70.7	67.1
% below 8 mm sieve	42.7	44.9	32.7	35.4	16.7	23.3	17.4	18.0
Breakage susceptibility								
% Below 6.35 mm sieve	0.2	0.0	0.3	0.3	1.8	2.2	4.4	1.9
% Below 4.75 mm sieve	0.6	0.6	0.6	0.6	1.3	1.5	3.1	1.4
Nutritional Factors								
Protein, % (db)	7.9	7.8	8.5	8.4	8.6	8.5	8.4	8.6
Fat, % (db)	4.7	4.6	4.4	4.5	3.9	3.7	3.6	3.8
Starch, % (db)	70.7	68.7	70.5	70.4	73.1	73.4	73.3	73.1
Number of samples	2	1	9	12	367	95	9	479
Mycotoxins								
Afla G ₁ (µg/kg) [max. value]	0 [0]				0 [0]	0 [0]	0 [0]	0
Afla B ₁ (µg/kg) [max. value]	0 [0]				0 [0]	0 [0]	0 [0]	0
Afla G ₂ (µg/kg) [max. value]	0 [0]				0 [0]	0 [0]	0 [0]	0
Afla B ₂ (µg/kg) [max. value]	0 [0]				0 [0]	0 [0]	0 [0]	0
Fum B ₁ (µg/kg) [max. value]	1532 [1716]				130 [3893]	140 [1223]	8 [25]	129
Fum B ₂ (µg/kg) [max. value]	607 [702]				56 [1163]	62 [519]	0 [<20]	55
Fum B ₃ (µg/kg) [max. value]	127 [148]				7 [301]	9 [93]	0 [0]	7
Deoxynivalenol (µg/kg) [max. value]	279 [313]				198 [1504]	335 [2601]	37 [112]	227
15-ADON [max. value]	0 [<100]				21 [300]	38 [292]	0 [0]	26
Ochratoxin A (µg/kg) [max. value]	0 [0]				0 [0]	0 [0]	0 [0]	0
Zearalenone (µg/kg) [max. value]	126 [216]				4 [127]	24 [354]	4 [13]	9
HT2 [max. value]	0 [0]				0 [0]	0 [0]	0 [0]	0
T-2 Toxin (µg/kg) [max. value]	0 [0]				0 [0]	0 [0]	0 [0]	0
Number of samples	3				138	42	3	185
GMO								
Cry1Ab, % [max value]	>5.0% [>5.0%]				4.49 [>5.0]	3.49 [>5.0]	>5.0 [>5.0]	4.14
Cry2Ab, % [max value]	>5.0% [>5.0%]				3.90 [>5.0]	2.27 [>5.0]	>5.0 [>5.0]	3.39
CP4 EPSPS, % [max value]	>5.0% [>5.0%]				4.28 [>5.0]	4.13 [>5.0]	>5.0 [>5.0]	4.16
Number of samples	3				38	14	1	53