

IMPORTED MAIZE QUALITY

Quality of maize imported from 1 May 2013 to 30 April 2014 versus RSA crop quality 2013/2014

Country of origin	Ukraine		RSA Crop Average	
Class and grade yellow maize	YM2	YM3	YM2	YM3
RSA Grading				
Foreign matter, %	0.1	0.1	0.1	0.5
Defective kernels above 6.35 mm sieve, %	2.5	3.7	7.0	5.9
Defective kernels below 6.35 mm sieve, %	7.1	11.0	3.7	3.6
Total defective kernels, %	9.6	14.6	10.7	9.5
Other colour maize kernels, %	0.0	0.0	0.4	0.4
Total deviation, %	9.7	14.7	11.2	10.4
Pinked maize kernels, %	0.0	0.0	0.0	0.0
Physical Factors				
100 Kernel mass, g	26.6	25.8	30.0	30.5
Stress cracks, %	74	75	8	7
Milling Index	59.9	56.1	84.8	87.5
Kernel Size				
% above 10 mm sieve	1.2	5.2	12.1	12.6
% above 8 mm sieve	69.0	60.7	64.6	69.1
% below 8 mm sieve	29.8	34.1	23.3	18.4
Breakage susceptibility				
% Below 6.35 mm sieve	5.2	4.7	2.2	2.6
% Below 4.75 mm sieve	13.8	15.1	1.5	1.9
Nutritional Factors				
Protein, %	8.7	8.5	8.5	8.6
Fat, % (db)	4.2	4.3	3.7	4.0
Starch, % (db)	74.7	77.6	73.4	72.6
Number of samples	1	4	95	8
Mycotoxins				
Afla G ₁ (µg/kg) [max. value]	0 [0]		0 [0]	0 [0]
Afla B ₁ (µg/kg) [max. value]	0 [0]		0 [0]	0 [0]
Afla G ₂ (µg/kg) [max. value]	0 [0]		0 [0]	0 [0]
Afla B ₂ (µg/kg) [max. value]	0 [0]		0 [0]	0 [0]
Fum B ₁ (µg/kg) [max. value]	11 [21]		140 [1223]	0 [0]
Fum B ₂ (µg/kg) [max. value]	0 [0]		62 [519]	0 [0]
Fum B ₃ (µg/kg) [max. value]	0 [0]		9 [93]	0 [0]
Deoxynivalenol (µg/kg) [max. value]	162 [212]		335 [2601]	280 [305]
15-ADON [max. value]	0 [0]		38 [292]	100 [199]
Ochratoxin A (µg/kg) [max. value]	0 [0]		0 [0]	0 [0]
Zearalenone (µg/kg) [max. value]	0 [0]		24 [354]	25 [49]
HT2 [max. value]	43 [47]		0 [0]	0 [0]
T-2 Toxin (µg/kg) [max. value]	0 [0]		0 [0]	0 [0]
Number of samples	2		42	2
GMO				
Cry1Ab, % [max value]	<0.4 [<0.4]		3.5 [>5.0]	-
Cry2Ab, % [max value]	<0.5 [<0.5]		2.3 [>5.0]	-
CP4 EPSPS, % [max value]	<0.25 [<0.25]		4.1 [>5.0]	-
Number of samples	2		14	0