

IMPORTED MAIZE QUALITY
Quality of maize imported from 1 May 2011 to date
versus RSA crop quality 2010/2011

Country of origin	ARGENTINA		RSA Crop Average	
Class and grade yellow maize	YM2	YM3	YM2	YM3
RSA Grading				
Defective kernels above 6.35 mm sieve, %	4.1	11.0	7.9	18.8
Defective kernels below 6.35 mm sieve, %	9.2	14.7	3.1	2.7
Total defective kernels, %	13.3	25.7	11.0	21.5
Other colour maize kernels, %	0.0	0.0	0.4	1.4
Foreign matter, %	0.0	0.0	0.2	0.3
Combined deviation, %	13.3	25.7	11.5	23.2
Pinked maize kernels, %	0.0	0.0	0.0	0.0
Noxious seeds	1	0	0	0
Physical Factors				
Hectolitre mass, kg/hl	73.2	71.7	75.4	74.7
100 Kernel mass, g	28.7	29.4	31.3	31.7
Stress cracks, %	51	79	7	5
Milling Index	73.7	75.0	85.5	79.4
Kernel Size				
% on top 10 mm	5.7	6.4	15.1	18.3
% on top 8 mm	62.7	62.1	68.3	68.1
% through 8 mm	31.6	31.5	16.6	13.6
Breakage susceptibility				
% Below 6.35 mm sieve	16.9	32.3	2.5	3.3
% Below 4.75 mm sieve	12.0	25.5	1.9	2.5
Nutritional Factors				
Protein, %	8.2	7.9	7.9	8.1
Fat, % (db)	4.1	4.5	3.6	3.8
Starch, % (db)	72.6	76.0	74.3	73.7
Number of samples	2	1	63	3
Mycotoxins				
Afla G ₁ (µg/kg) [max. value]	0 [0]		0 [0]	-
Afla B ₁ (µg/kg) [max. value]	0 [0]		0 [0]	-
Afla G ₂ (µg/kg) [max. value]	0 [0]		0 [0]	-
Afla B ₂ (µg/kg) [max. value]	0 [0]		0 [0]	-
Fum B ₁ (µg/kg) [max. value]	0 [0]		0 [0]	-
Fum B ₂ (µg/kg) [max. value]	0 [0]		0 [0]	-
Deoxynivalenol (µg/kg) [max. value]	307 [307]		47 [222]	-
Ochratoxin A (µg/kg) [max. value]	0 [0]		0 [0]	-
Zearalenone (µg/kg) [max. value]	0 [0]		0 [<20]	-
T-2 Toxin (µg/kg) [max. value]	35 [35]		0 [0]	-
Number of samples	1		7	-
GMO				
Cry1Ab (MON810) (LOQ: 0.4%), %	<0.4		>5.0	-
CP4 EPSPS (Roundup Ready) (LOQ: 0.25%), %	<0.25		4.29	-
Number of samples	1		7	-

IMPORTED MAIZE QUALITY
Quality of maize imported from 1 May 2011 to date
versus RSA crop quality 2010/2011

Country of origin	UKRAINE		RSA Crop Average	
Class and grade yellow maize	YM2	YM3	YM2	YM3
RSA Grading				
Defective kernels above 6.35 mm sieve, %	7.4	6.6	7.9	18.8
Defective kernels below 6.35 mm sieve, %	8.5	10.4	3.1	2.7
Total defective kernels, %	15.9	17.0	11.0	21.5
Other colour maize kernels, %	0.0	0.0	0.4	1.4
Foreign matter, %	0.0	0.2	0.2	0.3
Combined deviation, %	15.9	17.2	11.5	23.2
Pinked maize kernels, %	0.0	0.0	0.0	0.0
Noxious seeds	0	0	0	0
Physical Factors				
Hectolitre mass, kg/hl	72.9	69.3	75.4	74.7
100 Kernel mass, g	29.6	27.8	31.3	31.7
Stress cracks, %	71	68	7	5
Milling Index	77.1	77.6	85.5	79.4
Kernel Size				
% on top 10 mm	5.4	6.6	15.1	18.3
% on top 8 mm	66.5	73.4	68.3	68.1
% through 8 mm	28.1	20.0	16.6	13.6
Breakage susceptibility				
% Below 6.35 mm sieve	17.1	29.1	2.5	3.3
% Below 4.75 mm sieve	13.4	22.4	1.9	2.5
Nutritional Factors				
Protein, %	8.3	8.1	7.9	8.1
Fat, % (db)	4.1	4.3	3.6	3.8
Starch, % (db)	75.1	74.5	74.3	73.7
Number of samples	1	1	63	3
Mycotoxins				
Afla G ₁ (µg/kg) [max. value]	0 [0]		0 [0]	-
Afla B ₁ (µg/kg) [max. value]	0 [0]		0 [0]	-
Afla G ₂ (µg/kg) [max. value]	0 [0]		0 [0]	-
Afla B ₂ (µg/kg) [max. value]	0 [0]		0 [0]	-
Fum B ₁ (µg/kg) [max. value]	0 [0]		0 [0]	-
Fum B ₂ (µg/kg) [max. value]	0 [0]		0 [0]	-
Deoxynivalenol (µg/kg) [max. value]	0 [0]		47 [222]	-
Ochratoxin A (µg/kg) [max. value]	0 [0]		0 [0]	-
Zearalenone (µg/kg) [max. value]	0 [0]		0 [<20]	-
T-2 Toxin (µg/kg) [max. value]	0 [0]		0 [0]	-
Number of samples	1		7	-
GMO				
Cry1Ab (MON810) (LOQ: 0.4%), %	0.80		>5.0	-
CP4 EPSPS (Roundup Ready) (LOQ: 0.25%), %	<0.25		4.29	-
Number of samples	1		7	-