

IMPORTED MAIZE QUALITY

Quality of maize imported from 25 April 2015 to date compared to RSA crop quality 2014/2015

Country of origin	Mexico		RSA Crop Average	
Class and grade yellow maize	WM2	Average	WM2	Average
RSA Grading				
Defective kernels above 6.35 mm sieve, %	10.2	10.2	5.3	3.1
Defective kernels below 6.35 mm sieve, %	1.8	1.8	3.5	2.2
Total defective kernels, %	12.0	12.0	8.7	5.3
Other colour maize kernels, %	0.0	0.0	0.7	0.4
Foreign matter, %	0.4	0.4	0.2	0.1
Combined deviations, %	12.4	12.4	9.6	5.8
Pinked maize kernels, %	0.0	0.0	0.4	0.5
Physical Factors				
100 Kernel mass, g	29.4	29.4	31.2	31.1
Stress cracks, %	2	2	7	6
Milling Index	89.3	89.3	103.0	100.4
Kernel Size				
% above 10 mm sieve	1.1	1.1	17.7	15.4
% above 8 mm sieve	61.8	61.8	65.0	66.1
% below 8 mm sieve	37.1	37.1	17.3	18.4
Breakage susceptibility				
% Below 6.35 mm sieve	0.1	0.1	1.3	1.1
% Below 4.75 mm sieve	0.3	0.3	1.0	0.8
Number of samples	1	1	59	485
Nutritional Factors				
Protein, % (db)	8.8	8.8	9.6	9.4
Fat, % (db)	4.5	4.5	4.2	4.2
Starch, % (db)	68.4	68.4	72.4	72.6
Roff Milling				
Break 1, %	13.5	13.5	12.5	12.9
Break 2, %	12.1	12.1	11.7	11.8
Break 3, %	25.3	25.3	24.6	24.9
Grits, %	28.1	28.1	29.7	29.0
Bran and Germ, %	21.0	21.0	21.5	21.3
Extraction (Total meal), %	79.0	79.0	78.5	78.7
Whiteness Index				
Whiteness Index, 87:13, sifted	14.2	14.2	13.4	14.9
Whiteness Index, unsifted	23.4	23.4	21.2	22.9
Number of samples	1	1	59	480
Mycotoxins				
Afla G ₁ (µg/kg) [max. value]	0 [0]		0 [0]	0
Afla B ₁ (µg/kg) [max. value]	0 [0]		0 [0]	0
Afla G ₂ (µg/kg) [max. value]	0 [0]		0 [0]	0
Afla B ₂ (µg/kg) [max. value]	0 [0]		0 [0]	0
Fum B ₁ (µg/kg) [max. value]	1604 [1604]		268 [1229]	164
Fum B ₂ (µg/kg) [max. value]	299 [299]		70 [283]	41
Fum B ₃ (µg/kg) [max. value]	223 [223]		18 [88]	9
Deoxynivalenol (µg/kg) [max. value]	0 [0]		416 [3167]	284
15-ADON [max. value]	0 [0]		64 [890]	47
Ochratoxin A (µg/kg) [max. value]	0 [0]		0 [0]	0
Zearalenone (µg/kg) [max. value]	0 [0]		23 [212]	10
HT2 [max. value]	0 [0]		0 [0]	0
T-2 Toxin (µg/kg) [max. value]	0 [0]		0 [0]	0
Number of samples	1		30	168
GMO				
Cry1Ab, % [max value]	<0.4 [<0.4]		>5.0 [>5.0]	4.52
Cry2Ab, % [max value]	<0.5 [<0.5]		4.07 [>5.0]	3.92
CP4 EPSPS, % [max value]	<0.25 [<0.25]		4.65 [>5.0]	4.47
Number of samples	1		15	46

IMPORTED MAIZE QUALITY

Quality of maize imported from 25 April 2015 to date compared to RSA crop quality 2014/2015

Country of origin	Argentina*					RSA Crop Average				
Class and grade yellow maize	YM1	YM2	YM3	COM	Average	YM1	YM2	YM3	COM	Average
RSA Grading										
Defective kernels above 6.35 mm sieve, %	4.1	5.0	3.7	9.6	6.1	2.5	4.5	10.5	6.0	3.1
Defective kernels below 6.35 mm sieve, %	2.7	4.2	6.1	3.6	3.4	2.0	4.7	8.9	4.7	2.7
Total defective kernels, %	6.8	9.2	9.7	13.2	9.5	4.5	9.2	19.5	10.6	5.9
Other colour maize kernels, %	0.0	0.0	0.0	0.0	0.0	0.1	0.4	0.0	5.7	0.3
Foreign matter, %	0.1	0.2	0.3	0.2	0.2	0.1	0.2	0.3	0.4	0.1
Combined deviations, %	6.9	9.4	10.0	13.4	9.7	4.7	9.7	19.7	16.7	6.2
Pinked maize kernels, %	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Physical Factors										
100 Kernel mass, g	30.4	29.8	33.7	30.2	30.3	29.4	25.9	22.9	28.7	28.6
Stress cracks, %	5	5	2	7	5	5	5	5	10	5
Milling Index	88.5	85.4	82.4	85.4	86.3	95.4	93.9	89.4	96.6	95.0
Kernel Size										
% above 10 mm sieve	3.1	3.4	10.0	3.3	3.4	9.5	6.3	2.7	12.5	8.8
% above 8 mm sieve	62.8	60.8	65.2	59.8	61.4	65.5	57.4	43.6	61.5	63.4
% below 8 mm sieve	34.1	35.8	24.9	36.9	35.1	25.0	36.2	53.6	26.0	27.8
Breakage susceptibility										
% Below 6.35 mm sieve	0.2	0.3	0.4	0.3	0.3	1.2	1.5	1.9	2.4	1.3
% Below 4.75 mm sieve	0.4	0.5	0.3	0.4	0.4	0.9	1.0	1.1	1.3	0.9
Number of samples	29	17	2	22	70	392	103	9	11	515
Nutritional Factors										
Protein, % (db)	8.5	8.5	8.6	8.4	8.5	9.4	9.6	10.1	9.7	9.5
Fat, % (db)	4.4	4.5	4.3	4.6	4.5	4.0	3.9	3.8	3.9	4.0
Starch, % (db)	70.4	69.5	72.6	68.7	69.6	72.9	73.1	73.2	72.9	72.9
Number of samples	19	13	1	17	50	392	103	9	11	515
Mycotoxins										
Afla G ₁ (µg/kg) [max. value]	0 [0]					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 [0]	0
Afla G ₂ (µg/kg) [max. value]	0 [0]					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 [0]	0
Fum B ₁ (µg/kg) [max. value]	2690 [6407]					198 [2714]	149 [1440]	176 [504]	50 [136]	179
Fum B ₂ (µg/kg) [max. value]	616 [1143]					50 [505]	38 [377]	41 [133]	11 [43]	45
Fum B ₃ (µg/kg) [max. value]	196 [440]					9 [163]	9 [180]	7 [25]	0 [0]	8
Deoxynivalenol (µg/kg) [max. value]	138 [404]					80 [851]	117 [593]	23 [164]	65 [253]	87
15-ADON [max. value]	0 [0]					9 [228]	5 [238]	0 [<100]	0 [0]	8
Ochratoxin A (µg/kg) [max. value]	0 [0]					0 [<5]	0 [0]	0 [0]	0 [0]	0
Zearalenone (µg/kg) [max. value]	35 [168]					2 [71]	7 [124]	4 [25]	0 [0]	3
HT2 [max. value]	0 [0]					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 [0]	0
Number of samples	18					121	48	7	6	182
GMO										
Cry1Ab, % [max value]	>5.0 [>5.0]					4.46 [>5.0]	3.67 [>5.0]	3.80 [3.80]	>5.0 [>5.0]	4.05
Cry2Ab, % [max value]	>5.0 [>5.0]					3.68 [>5.0]	2.92 [>5.0]	<0.5 [<0.5]	3.33 [>5.0]	3.45
CP4 EPSPS, % [max value]	>5.0 [>5.0]					4.35 [>5.0]	4.11 [>5.0]	>5.0 [>5.0]	>5.0 [>5.0]	4.08
Number of samples	14					40	10	1	3	54

*Includes analysis results up to 15 April 2016.

IMPORTED MAIZE QUALITY

Quality of maize imported from 25 April 2015 to date compared to RSA crop quality 2014/2015

Country of origin	Brazil*				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, %	4.3	6.1	4.5	5.5	2.5	4.5	6.0	3.1
Defective kernels below 6.35 mm sieve, %	3.1	4.9	7.1	4.5	2.0	4.7	4.7	2.7
Total defective kernels, %	7.4	11.0	11.7	10.0	4.5	9.2	10.6	5.9
Other colour maize kernels, %	0.0	0.0	0.0	0.0	0.1	0.4	5.7	0.3
Foreign matter, %	0.1	0.1	0.8	0.2	0.1	0.2	0.4	0.1
Combined deviations, %	7.5	11.2	12.4	10.1	4.7	9.7	16.7	6.2
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	31.1	31.1	31.7	31.1	29.4	25.9	28.7	28.6
Stress cracks, %	14	30	25	25	5	5	10	5
Milling Index	95.8	94.0	86.6	94.2	95.4	93.9	96.6	95.0
Kernel Size								
% above 10 mm sieve	4.8	5.8	5.0	5.4	9.5	6.3	12.5	8.8
% above 8 mm sieve	66.1	66.6	67.3	66.4	65.5	57.4	61.5	63.4
% below 8 mm sieve	29.2	27.7	27.8	28.1	25.0	36.2	26.0	27.8
Breakage susceptibility								
% Below 6.35 mm sieve	0.5	1.2	1.1	1.0	1.2	1.5	2.4	1.3
% Below 4.75 mm sieve	1.0	2.0	2.0	1.7	0.9	1.0	1.3	0.9
Number of samples	20	45	3	68	392	103	11	515
Nutritional Factors								
Protein, % (db)	8.2	8.5	8.5	8.4	9.4	9.6	9.7	9.5
Fat, % (db)	4.4	4.1	4.1	4.2	4.0	3.9	3.9	4.0
Starch, % (db)	72.5	72.8	72.9	72.7	72.9	73.1	72.9	72.9
Number of samples	17	41	3	61	392	103	11	515
Mycotoxins								
Afla G ₁ (µg/kg) [max. value]	0 [8]				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]	1149 [2050]				198 [2714]	149 [1440]	50 [136]	179
Fum B ₂ (µg/kg) [max. value]	233 [385]				50 [505]	38 [377]	11 [43]	45
Fum B ₃ (µg/kg) [max. value]	89 [164]				9 [163]	9 [180]	0 [0]	8
Deoxynivalenol (µg/kg) [max. value]	17 [295]				80 [851]	117 [593]	65 [253]	87
15-ADON [max. value]	0 [0]				9 [228]	5 [238]	0 [0]	8
Ochratoxin A (µg/kg) [max. value]	0 [0]				0 [<5]	0 [0]	0 [0]	0
Zearalenone (µg/kg) [max. value]	10 [87]				2 [71]	7 [124]	0 [0]	3
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	17				121	48	6	182
GMO								
Cry1Ab, % [max value]	>5.0 [>5.0]				4.46 [>5.0]	3.67 [>5.0]	>5.0 [>5.0]	4.05
Cry2Ab, % [max value]	>5.0 [>5.0]				3.68 [>5.0]	2.92 [>5.0]	3.33 [>5.0]	3.45
CP4 EPSPS, % [max value]	>5.0 [>5.0]				4.35 [>5.0]	4.11 [>5.0]	>5.0 [>5.0]	4.08
Number of samples	15				40	10	3	54

*Includes analysis results up to 15 April 2016.

IMPORTED MAIZE QUALITY

Quality of maize imported from 25 April 2015 to date compared to RSA crop quality 2014/2015

Country of origin	Paraguay*					RSA Crop Average				
Class and grade yellow maize	YM1	YM2	YM3	COM	Average	YM1	YM2	YM3	COM	Average
RSA Grading										
Defective kernels above 6.35 mm sieve, %	5.5	8.3	7.2	15.5	8.5	2.5	4.5	10.5	6.0	3.1
Defective kernels below 6.35 mm sieve, %	1.3	2.6	12.0	5.2	3.0	2.0	4.7	8.9	4.7	2.7
Total defective kernels, %	6.8	10.9	19.2	20.7	11.4	4.5	9.2	19.5	10.6	5.9
Other colour maize kernels, %	0.0	0.0	0.0	0.0	0.0	0.1	0.4	0.0	5.7	0.3
Foreign matter, %	0.1	0.2	0.4	0.1	0.2	0.1	0.2	0.3	0.4	0.1
Combined deviations, %	6.9	11.1	19.6	20.8	11.6	4.7	9.7	19.7	16.7	6.2
Pinked maize kernels, %	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Physical Factors										
100 Kernel mass, g	32.8	34.3	32.8	33.2	33.3	29.4	25.9	22.9	28.7	28.6
Stress cracks, %	39	32	19	59	41	5	5	5	10	5
Milling Index	105.1	103.0	97.2	99.4	103.0	95.4	93.9	89.4	96.6	95.0
Kernel Size										
% above 10 mm sieve	13.5	13.8	14.3	16.3	14.2	9.5	6.3	2.7	12.5	8.8
% above 8 mm sieve	71.5	72.2	69.2	70.0	71.3	65.5	57.4	43.6	61.5	63.4
% below 8 mm sieve	14.9	14.0	16.5	13.8	14.5	25.0	36.2	53.6	26.0	27.8
Breakage susceptibility										
% Below 6.35 mm sieve	1.3	1.2	2.1	1.1	1.3	1.2	1.5	1.9	2.4	1.3
% Below 4.75 mm sieve	1.6	1.3	3.2	1.7	1.6	0.9	1.0	1.1	1.3	0.9
Number of samples	11	6	1	5	23	392	103	9	11	515
Nutritional Factors										
Protein, % (db)	9.2	9.2	-	9.4	9.2	9.4	9.6	10.1	9.7	9.5
Fat, % (db)	4.4	4.4	-	4.6	4.4	4.0	3.9	3.8	3.9	4.0
Starch, % (db)	73.5	72.0	-	70.5	72.3	72.9	73.1	73.2	72.9	72.9
Number of samples	8	5	-	5	18	392	103	9	11	515
Mycotoxins										
Afla G ₁ (µg/kg) [max. value]	0 [0]					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 [0]	0
Afla G ₂ (µg/kg) [max. value]	0 [0]					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 [0]	0
Fum B ₁ (µg/kg) [max. value]	1385 [2111]					198 [2714]	149 [1440]	176 [504]	50 [136]	179
Fum B ₂ (µg/kg) [max. value]	348 [539]					50 [505]	38 [377]	41 [133]	11 [43]	45
Fum B ₃ (µg/kg) [max. value]	93 [145]					9 [163]	9 [180]	7 [25]	0 [0]	8
Deoxynivalenol (µg/kg) [max. value]	0 [0]					80 [851]	117 [593]	23 [164]	65 [253]	87
15-ADON [max. value]	0 [0]					9 [228]	5 [238]	0 [<100]	0 [0]	8
Ochratoxin A (µg/kg) [max. value]	0 [0]					0 [<5]	0 [0]	0 [0]	0 [0]	0
Zearalenone (µg/kg) [max. value]	19 [61]					2 [71]	7 [124]	4 [25]	0 [0]	3
HT2 [max. value]	0 [0]					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 [0]	0
Number of samples	5					121	48	7	6	182
GMO										
Cry1Ab, % [max value]	>5.0 [>5.0]					4.46 [>5.0]	3.67 [>5.0]	3.80 [3.80]	>5.0 [>5.0]	4.05
Cry2Ab, % [max value]	>5.0 [>5.0]					3.68 [>5.0]	2.92 [>5.0]	<0.5 [<0.5]	3.33 [>5.0]	3.45
CP4 EPSPS, % [max value]	>5.0 [>5.0]					4.35 [>5.0]	4.11 [>5.0]	>5.0 [>5.0]	>5.0 [>5.0]	4.08
Number of samples	2					40	10	1	3	54

*Includes analysis results up to 15 April 2016.