IMPORTED MAIZE QUALITY

Quality of maize imported from 30 April 2016 to 28 April 2017 compared to RSA crop quality 2015/2016

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, %	3.9	4.9	4.2	4.5	2.5	5.0	10.3	3.1
Defective kernels below 6.35 mm sieve, %	3.3	5.4	5.7	4.7	1.9	4.5	7.9	2.6
Total defective kernels, %	7.2	10.3	9.9	9.2	4.4	9.5	18.2	5.7
Other colour maize kernels, %	0.0	0.0	0.0	0.0	0.1	0.4	0.4	0.2
Foreign matter, %	0.2	0.2	0.3	0.2	0.1	0.2	1.1	0.2
Combined deviations, %	7.3	10.5	10.2	9.4	4.6	10.1	19.7	6.0
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	30.5	30.2	29.8	30.3	32.3	30.7	27.0	31.8
Stress cracks, %	10	13	21	13	5	6	5	5
Milling Index	87.7	81.2	85.2	83.7	92.9	92.4	65.0	92.6
Kernel Size								
% above 10 mm sieve	3.2	3.3	2.6	3.2	12.7	8.8	5.5	11.8
% above 8 mm sieve	60.9	60.2	60.8	60.5	67.6	64.4	56.7	66.6
% belowe 8 mm sieve	36.6	37.3	36.7	37.0	19.6	26.8	37.8	21.6
Breakage susceptibility								
% Below 6.35 mm sieve	0.3	0.7	0.3	0.5	0.9	1.2	1.5	1.0
% Below 4.75 mm sieve	0.5	0.6	0.7	0.6	0.5	0.5	0.5	0.5
Nutritional Factors								
Protein, % (db)	8.5	8.5	8.4	8.5	9.7	9.9	9.4	9.7
Fat, % (db)	4.4	4.9	4.5	4.7	4.0	3.9	3.8	4.0
Starch, % (db)	72.2	71.8	73.0	72.1	72.3	72.1	73.1	72.3
Number of samples	***40***	***71***	***14***	***125***	***395***	***97***	***3***	***505***
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 [11]				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]	3 806 [15 965]				182 [2 610]	434 [7 406]	13 [38]	251
Fum B_2 (µg/kg) [max. value]	1 456 [7 460]				67 [1 062]	170 [3 340]	7 [22]	95
Fum B_3 (µg/kg) [max. value]	323 [1 552]				11 [186]	32 [601]	0 [0]	17
Deoxynivalenol (µg/kg) [max. value]	243 [948]				33 [554]	55 [640]	0 [0]	36
15-ADON [max. value]	0 [<100]				1 [122]	4 [184]	0 [0]	2
Ochratoxin A (µg/kg) [max. value]	0 [<100]				0 [0]	0 [0]	0 [0]	0
Zearalenone (µg/kg) [max. value]	53 [219]				1 [44]	2 [36]	0 [0]	1
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	***45***				***139***	***46***	***3***	***194***
GMO								
Cry1Ab, % [max value]	4.9 [>5.0]				4.2 [>5.0]	4.4 [>5.0]	-	4.3
Cry2Ab, % [max value]	4.9 [>5.0]				3.2 [>5.0]	3.6 [>5.0]	-	3.3
CP4 EPSPS, % [max value]	4.9 [>5.0]				4.4 [>5.0]	4.7 [>5.0]	-	4.5
Number of samples	***45***				***40***	***15***	***-***	***56***

IMPORTED MAIZE QUALITY

Quality of maize imported from 30 April 2016 to 28 April 2017 compared to RSA crop quality 2015/2016

Country of origin	Brazil		RSA Crop Average	
Class and grade yellow maize	**YM2**	**Average**	**YM2**	**Average**
RSA Grading				
Defective kernels above 6.35 mm sieve, %	3.1	3.1	5.0	3.1
Defective kernels below 6.35 mm sieve, %	6.6	6.6	4.5	2.6
Total defective kernels, %	9.7	9.7	9.5	5.7
Other colour maize kernels, %	0.0	0.0	0.4	0.2
Foreign matter, %	0.1	0.1	0.2	0.2
Combined deviations, %	9.8	9.8	10.1	6.0
Pinked maize kernels, %	0.0	0.0	0.0	0.0
Physical Factors				
100 Kernel mass, g	28.9	28.9	30.7	31.8
Stress cracks, %	19	19	6	5
Milling Index	96.9	96.9	92.4	92.6
Kernel Size				
% above 10 mm sieve	5.3	5.3	8.8	11.8
% above 8 mm sieve	56.6	56.6	64.4	66.6
% belowe 8 mm sieve	38.0	38.0	26.8	21.6
Breakage susceptibility				
% Below 6.35 mm sieve	1.6	1.6	1.2	1.0
% Below 4.75 mm sieve	1.9	1.9	0.5	0.5
Nutritional Factors				
Protein, % (db)	9.1	9.1	9.9	9.7
Fat, % (db)	4.3	4.3	3.9	4.0
Starch, % (db)	71.6	71.6	72.1	72.3
Number of samples	***5***	***5***	***97***	***505***
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]	2 786 [3 223]		434 [7 406]	251
Fum B_2 (µg/kg) [max. value]	1 175 [1 253]		170 [3 340]	95
Fum B_3 (µg/kg) [max. value]	193 [213]		32 [601]	17
Deoxynivalenol (µg/kg) [max. value]	0 [0]		55 [640]	36
15-ADON [max. value]	0 [0]		4 [184]	2
Ochratoxin A (µg/kg) [max. value]	0 [0]		0 [0]	0
Zearalenone (µg/kg) [max. value]	0 [0]		2 [36]	1
HT2 [max. value]	0 [0]		0 [0]	0
T-2 Toxin (µg/kg) [max. value]	0 [0]		0 [0]	0
Number of samples	***2***		***46***	***194***
GMO				
Cry1Ab, % [max value]	>5.0 [>5.0]		4.4 [>5.0]	4.3
Cry2Ab, % [max value]	>5.0 [>5.0]		3.6 [>5.0]	3.3
CP4 EPSPS, % [max value]	>5.0 [>5.0]		4.7 [>5.0]	4.5
Number of samples	***2***		***15***	***56***

IMPORTED MAIZE QUALITY

Quality of maize imported from 30 April 2016 to 28 April 2017 compared to RSA crop quality 2015/2016

Country of origin	Mexico					RSA Crop Average				
Class and grade white maize	WM1	WM2	WM3	COM	Average	WM1	WM2	WM3	COM	Average
RSA Grading										
Defective kernels above 6.35 mm sieve, %	2.9	5.6	10.4	21.2	6.2	2.5	5.3	9.1	26.4	3.8
Defective kernels below 6.35 mm sieve, %	3.0	4.1	3.4	3.6	3.5	1.8	3.3	5.8	9.2	2.4
Total defective kernels, %	5.9	9.8	13.8	24.8	9.7	4.3	8.6	15.1	35.6	6.2
Other colour maize kernels, %	0.2	0.1	0.0	0.2	0.1	0.2	0.5	1.3	0.5	0.4
Foreign matter, %	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.9	0.2
Combined deviations, %	6.3	10.1	14.0	25.2	10.1	4.7	9.3	16.6	37.0	6.7
Pinked maize kernels, %	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.0	0.1
Physical Factors										
100 Kernel mass, g	38.2	36.0	35.6	38.0	37.4	32.7	31.7	31.7	32.0	32.4
Stress cracks, %	12	10	16	10	11	4	6	7	3	5
Milling Index	95.8	88.9	78.5	61.9	88.9	98.9	99.3	100.4	91.8	99.0
Kernel Size										
% above 10 mm sieve	19.9	16.4	18.3	21.9	18.9	15.3	15.2	15.1	7.6	15.2
% above 8 mm sieve	71.4	70.3	70.9	70.4	70.9	67.3	64.7	66.0	62.7	66.7
% belowe 8 mm sieve	8.7	13.3	10.8	7.7	10.2	17.4	20.1	18.9	29.7	18.2
Breakage susceptibility										
% Below 6.35 mm sieve	0.4	0.8	0.0	0.1	0.5	0.8	1.2	1.7	2.0	0.9
% Below 4.75 mm sieve	0.6	0.5	0.3	0.5	0.6	0.4	0.5	0.7	0.8	0.4
Nutritional Factors										
Protein, % (db)	8.8	8.7	8.5	8.6	8.7	9.7	9.9	9.9	9.5	9.7
Fat, % (db)	4.6	4.4	4.7	4.6	4.5	4.1	4.2	4.2	3.9	4.1
Starch, % (db)	73.7	73.2	73.3	73.7	73.5	72.7	72.4	72.4	72.9	72.6
Number of samples	***38***	***25***	***2***	***9***	***74***	***300***	***84***	***27***	***4***	***415***
Roff Milling										
Break 1, %	12.7	13.6	13.5	12.7	13.1	12.2	12.0	11.6	12.4	12.1
Break 2, %	10.9	11.4	11.2	11.4	11.1	10.8	10.8	10.8	11.2	10.8
Break 3, %	21.6	21.1	21.4	21.1	21.4	21.8	21.4	21.2	21.4	21.7
Grits, %	32.5	31.0	30.5	31.2	31.8	33.7	34.1	34.6	32.8	33.9
Bran and Germ, %	22.2	22.9	23.5	23.5	22.6	21.5	21.7	21.8	22.3	21.6
Extraction (Total meal), %	77.8	77.1	76.6	76.5	77.4	78.5	78.3	78.2	77.7	78.4
Whiteness Index										
Whiteness Index, 87:13, sifted	19.0	17.7	18.7	21.0	18.8	18.3	16.8	11.6	13.8	17.5
Whiteness Index, unsifted	28.0	27.5	27.9	30.7	28.1	27.0	24.8	20.8	22.9	26.1
Number of samples	***38***	***25***	***2***	***9***	***74***	***300***	***84***	***27***	***4***	***415***
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]	11 [189]					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]	1 [25]					0 [0]	0 [0]	0 [0]	0 [0]	0
Fum B_1 (µg/kg) [max. value]	1 195 [3 640]					166 [4 391]	272 [1 789]	154 [542]	94 [283]	186
Fum B_2 (µg/kg) [max. value]	344 [1 054]					68 [1 975]	124 [803]	66 [278]	38 [115]	79
Fum B_3 (µg/kg) [max. value]	134 [392]					12 [499]	18 [154]	9 [44]	10 [30]	13
Deoxynivalenol (µg/kg) [max. value]	58 [891]					54 [598]	143 [1 585]	137 [728]	0 [0]	79
15-ADON [max. value]	0 [0]					1 [110]	13 [310]	20 [184]	0 [0]	5
Ochratoxin A (µg/kg) [max. value]	0 [0]					0 [0]	0 [0]	0 [0]	0 [0]	0
Zearalenone (µg/kg) [max. value]	1 [32]					4 [127]	5 [125]	6 [28]	0 [0]	4
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	***25***					***106***	***33***	***14***	***3***	***156***
GMO										
Cry1Ab, % [max value]	<0.4 [0.72]					4.4 [>5.0]	4.1 [>5.0]	>5.0 [>5.0]	>5.0 [>5.0]	4.5
Cry2Ab, % [max value]	<0.5 [<0.5]					3.4 [>5.0]	2.7 [>5.0]	4.0 [>5.0]	<0.5 [<0.5]	3.2
CP4 EPSPS, % [max value]	<0.25 [0.40]					3.9 [>5.0]	4.4 [>5.0]	>5.0 [>5.0]	>5.0 [>5.0]	4.2
Number of samples	***25***					***30***	***8***	***5***	***1***	***44***

IMPORTED MAIZE QUALITY

Quality of maize imported from 30 April 2016 to 28 April 2017 compared to RSA crop quality 2015/2016

Country of origin	Romania			RSA Crop Average		
Class and grade yellow maize	**YM2**	**YM3**	**Average**	**YM2**	**YM3**	**Average**
RSA Grading						
Defective kernels above 6.35 mm sieve, %	2.3	5.3	2.9	5.0	5.0	3.1
Defective kernels below 6.35 mm sieve, %	7.3	10.1	7.9	4.5	11.5	2.6
Total defective kernels, %	9.6	15.4	10.7	9.5	16.4	5.7
Other colour maize kernels, %	0.0	0.0	0.0	0.4	0.0	0.2
Foreign matter, %	0.1	0.1	0.1	0.2	0.3	0.2
Combined deviations, %	9.7	15.5	10.9	10.1	16.8	6.0
Pinked maize kernels, %	0.0	0.0	0.0	0.0	0.0	0.0
Physical Factors						
100 Kernel mass, g	32.0	33.4	32.2	30.7	28.7	31.8
Stress cracks, %	38	12	33	6	6	5
Milling Index	55.9	64.8	57.7	92.4	89.5	92.6
Kernel Size						
% above 10 mm sieve	7.4	6.4	7.2	8.8	3.3	11.8
% above 8 mm sieve	68.5	60.8	67.0	64.4	51.7	66.6
% belowe 8 mm sieve	24.1	32.8	25.8	26.8	45.0	21.6
Breakage susceptibility						
% Below 6.35 mm sieve	2.4	4.3	2.8	1.2	1.6	1.0
% Below 4.75 mm sieve	6.3	13.1	7.7	0.5	0.6	0.5
Nutritional Factors						
Protein, % (db)	8.3	8.2	8.3	9.9	10.2	9.7
Fat, % (db)	3.8	3.7	3.8	3.9	3.8	4.0
Starch, % (db)	74.9	74.6	74.8	72.1	72.7	72.3
Number of samples	***4***	***1***	***5***	***97***	***10***	***505***
Mycotoxins						
Afla G_1 (µg/kg) [max. value]	0 [0]			0 [0]	0 [0]	0
Afla B_1 (µg/kg) [max. value]	0 [0]			0 [0]	0 [0]	0
Afla G_2 (µg/kg) [max. value]	0 [0]			0 [0]	0 [0]	0
Afla B_2 (µg/kg) [max. value]	0 [0]			0 [0]	0 [0]	0
Fum B_1 (µg/kg) [max. value]	568 [603]			434 [7 406]	558 [1 308]	251
Fum B_2 (µg/kg) [max. value]	187 [208]			170 [3 340]	223 [528]	95
Fum B_3 (µg/kg) [max. value]	50 [61]			32 [601]	36 [157]	17
Deoxynivalenol (µg/kg) [max. value]	127 [254]			55 [640]	0 [<100]	36
15-ADON [max. value]	0 [0]			4 [184]	0 [0]	2
Ochratoxin A (µg/kg) [max. value]	0 [0]			0 [0]	0 [0]	0
Zearalenone (µg/kg) [max. value]	0 [0]			2 [36]	0 [0]	1
HT2 [max. value]	0 [0]			0 [0]	0 [0]	0
T-2 Toxin (µg/kg) [max. value]	0 [0]			0 [0]	0 [0]	0
Number of samples	***2***			***46***	***6***	***194***
GMO						
Cry1Ab, % [max value]	<0.4 [<0.4]			4.4 [>5.0]	>5.0 [>5.0]	4.3
Cry2Ab, % [max value]	<0.5 [<0.5]			3.6 [>5.0]	<0.5 [<0.5]	3.3
CP4 EPSPS, % [max value]	<0.25 [<0.25]			4.7 [>5.0]	>5.0 [>5.0]	4.5
Number of samples	***2***			***15***	***1***	***56***

IMPORTED MAIZE QUALITY

Quality of maize imported from 30 April 2016 to 28 April 2017 compared to RSA crop quality 2015/2016

Country of origin	Ukraine				RSA Crop Average			
Class and grade yellow maize	**YM2**	**YM3**	**COM**	**Average**	**YM2**	**YM3**	**COM**	**Average**
RSA Grading								
Defective kernels above 6.35 mm sieve, %	5.6	5.6	6.2	5.6	5.0	5.0	10.3	3.1
Defective kernels below 6.35 mm sieve, %	10.1	16.0	25.4	14.3	4.5	11.5	7.9	2.6
Total defective kernels, %	15.6	21.6	31.6	19.9	9.5	16.4	18.2	5.7
Other colour maize kernels, %	0.0	0.0	0.0	0.0	0.4	0.0	0.4	0.2
Foreign matter, %	0.1	0.1	0.1	0.1	0.2	0.3	1.1	0.2
Combined deviations, %	15.7	21.7	31.7	20.0	10.1	16.8	19.7	6.0
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	30.1	29.1	29.7	29.6	30.7	28.7	27.0	31.8
Stress cracks, %	37	38	35	38	6	6	5	5
Milling Index	65.6	67.3	69.6	66.8	92.4	89.5	65.0	92.6
Kernel Size								
% above 10 mm sieve	6.0	4.6	5.0	5.2	8.8	3.3	5.5	11.8
% above 8 mm sieve	55.7	59.1	54.9	57.4	64.4	51.7	56.7	66.6
% belowe 8 mm sieve	38.3	36.3	40.1	37.4	26.8	45.0	37.8	21.6
Breakage susceptibility								
% Below 6.35 mm sieve	3.0	4.6	3.5	3.8	1.2	1.6	1.5	1.0
% Below 4.75 mm sieve	10.8	10.1	11.7	10.5	0.5	0.6	0.5	0.5
Nutritional Factors								
Protein, % (db)	8.4	8.5	8.3	8.4	9.9	10.2	9.4	9.7
Fat, % (db)	4.0	4.0	4.0	4.0	3.9	3.8	3.8	4.0
Starch, % (db)	73.0	73.3	73.8	73.2	72.1	72.7	73.1	72.3
Number of samples	***5***	***6***	***1***	***12***	***97***	***10***	***3***	***505***
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]	204 [675]				434 [7 406]	558 [1 308]	13 [38]	251
Fum B_2 (µg/kg) [max. value]	52 [186]				170 [3 340]	223 [528]	7 [22]	95
Fum B_3 (µg/kg) [max. value]	14 [57]				32 [601]	36 [157]	0 [0]	17
Deoxynivalenol (µg/kg) [max. value]	400 [762]				55 [640]	0 [<100]	0 [0]	36
15-ADON [max. value]	0 [<100]				4 [184]	0 [0]	0 [0]	2
Ochratoxin A (µg/kg) [max. value]	0 [0]				0 [0]	0 [0]	0 [0]	0
Zearalenone (µg/kg) [max. value]	0 [<200]				2 [36]	0 [0]	0 [0]	1
HT2 [max. value]	17 [47]				0 [0]	0 [0]	0 [0]	0
T-2 Toxin (µg/kg) [max. value]	8 [33]				0 [0]	0 [0]	0 [0]	0
Number of samples	***4***				***46***	***6***	***3***	***194***
GMO								
Cry1Ab, % [max value]	<0.4 [<0.4]				4.4 [>5.0]	>5.0 [>5.0]	-	4.3
Cry2Ab, % [max value]	<0.5 [<0.5]				3.6 [>5.0]	<0.5 [<0.5]	-	3.3
CP4 EPSPS, % [max value]	<0.25 [0.32]				4.7 [>5.0]	>5.0 [>5.0]	-	4.5
Number of samples	***4***				***15***	***1***	***-***	***56***

IMPORTED MAIZE QUALITY

Quality of maize imported from 30 April 2016 to 28 April 2017 compared to RSA crop quality 2015/2016

Country of origin	USA					RSA Crop Average				
Class and grade white maize	WM1	WM2	WM3	COM	Average	WM1	WM2	WM3	COM	Average
RSA Grading										
Defective kernels above 6.35 mm sieve, %	2.2	5.0	13.8	5.5	5.1	2.5	5.3	9.1	26.4	3.8
Defective kernels below 6.35 mm sieve, %	3.7	4.0	3.5	2.8	3.8	1.8	3.3	5.8	9.2	2.4
Total defective kernels, %	5.9	8.9	17.3	8.3	8.8	4.3	8.6	15.1	35.6	6.2
Other colour maize kernels, %	0.2	0.0	0.0	0.0	0.1	0.2	0.5	1.3	0.5	0.4
Foreign matter, %	0.1	0.2	0.1	0.1	0.1	0.1	0.2	0.2	0.9	0.2
Combined deviations, %	6.2	9.2	17.4	8.4	9.1	4.7	9.3	16.6	37.0	6.7
Pinked maize kernels, %	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.0	0.1
Physical Factors										
100 Kernel mass, g	41.9	34.4	32.8	35.9	36.3	32.7	31.7	31.7	32.0	32.4
Stress cracks, %	4	16	0	2	10	4	6	7	3	5
Milling Index	103.9	88.9	88.5	92.2	92.9	98.9	99.3	100.4	91.8	99.0
Kernel Size										
% above 10 mm sieve	8.5	5.5	7.1	5.8	6.4	15.3	15.2	15.1	7.6	15.2
% above 8 mm sieve	78.2	69.9	75.1	72.0	72.6	67.3	64.7	66.0	62.7	66.7
% belowe 8 mm sieve	13.3	24.6	17.8	22.2	21.0	17.4	20.1	18.9	29.7	18.2
Breakage susceptibility										
% Below 6.35 mm sieve	0.2	0.3	0.4	0.0	0.2	0.8	1.2	1.7	2.0	0.9
% Below 4.75 mm sieve	0.2	1.0	1.1	0.8	0.8	0.4	0.5	0.7	0.8	0.4
Nutritional Factors										
Protein, % (db)	8.9	8.3	8.6	8.3	8.5	9.7	9.9	9.9	9.5	9.7
Fat, % (db)	3.6	3.8	3.6	3.9	3.7	4.1	4.2	4.2	3.9	4.1
Starch, % (db)	72.1	74.5	75.4	73.9	74.0	72.7	72.4	72.4	72.9	72.6
Number of samples	***3***	***7***	***1***	***1***	***12***	***300***	***84***	***27***	***4***	***415***
Roff Milling										
Break 1, %	12.1	14.9	14.6	14.3	14.2	12.2	12.0	11.6	12.4	12.1
Break 2, %	11.9	12.3	12.2	11.4	12.1	10.8	10.8	10.8	11.2	10.8
Break 3, %	21.0	22.4	20.6	21.2	21.8	21.8	21.4	21.2	21.4	21.7
Grits, %	33.8	27.9	28.9	29.9	29.6	33.7	34.1	34.6	32.8	33.9
Bran and Germ, %	21.1	22.4	23.8	23.2	22.3	21.5	21.7	21.8	22.3	21.6
Extraction (Total meal), %	78.9	77.6	76.2	76.7	77.7	78.5	78.3	78.2	77.7	78.4
Whiteness Index										
Whiteness Index, 87:13, sifted	18.3	21.9	16.2	26.3	20.9	18.3	16.8	11.6	13.8	17.5
Whiteness Index, unsifted	28.1	29.7	27.5	31.7	29.3	27.0	24.8	20.8	22.9	26.1
Number of samples	***3***	***7***	***1***	***1***	***12***	***300***	***84***	***27***	***4***	***415***
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]	1 604 [2 664]					166 [4 391]	272 [1 789]	154 [542]	94 [283]	186
Fum B_2 (µg/kg) [max. value]	508 [936]					68 [1 975]	124 [803]	66 [278]	38 [115]	79
Fum B_3 (µg/kg) [max. value]	154 [311]					12 [499]	18 [154]	9 [44]	10 [30]	13
Deoxynivalenol (µg/kg) [max. value]	564 [1 052]					54 [598]	143 [1 585]	137 [728]	0 [0]	79
15-ADON [max. value]	0 [0]					1 [110]	13 [310]	20 [184]	0 [0]	5
Ochratoxin A (µg/kg) [max. value]	0 [0]					0 [0]	0 [0]	0 [0]	0 [0]	0
Zearalenone (µg/kg) [max. value]	44 [177]					4 [127]	5 [125]	6 [28]	0 [0]	4
HT2 [max. value]	6 [23]					0 [0]	0 [0]	0 [0]	0 [0]	0
T-2 Toxin (µg/kg) [max. value]	0 [<20]					0 [0]	0 [0]	0 [0]	0 [0]	0
Number of samples	***4***					***106***	***33***	***14***	***3***	***156***
GMO										
Cry1Ab, % [max value]	1.5 [>5.0]					4.4 [>5.0]	4.1 [>5.0]	>5.0 [>5.0]	>5.0 [>5.0]	4.5
Cry2Ab, % [max value]	<0.5 [0.59]					3.4 [>5.0]	2.7 [>5.0]	4.0 [>5.0]	<0.5 [<0.5]	3.2
CP4 EPSPS, % [max value]	1.8 [>5.0]					3.9 [>5.0]	4.4 [>5.0]	>5.0 [>5.0]	>5.0 [>5.0]	4.2
Number of samples	***4***					***30***	***8***	***5***	***1***	***44***

IMPORTED MAIZE QUALITY

Quality of maize imported from 30 April 2016 to 28 April 2017 compared to RSA crop quality 2015/2016

Country of origin	USA				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, %	4.8	7.0	4.8	6.2	2.5	5.0	10.3	3.1
Defective kernels below 6.35 mm sieve, %	3.3	6.3	2.3	5.2	1.9	4.5	7.9	2.6
Total defective kernels, %	8.1	13.3	7.1	11.3	4.4	9.5	18.2	5.7
Other colour maize kernels, %	0.0	0.0	0.0	0.0	0.1	0.4	0.4	0.2
Foreign matter, %	0.1	0.2	0.2	0.2	0.1	0.2	1.1	0.2
Combined deviations, %	8.3	13.5	7.3	11.5	4.6	10.1	19.7	6.0
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	30.5	31.7	31.2	31.3	32.3	30.7	27.0	31.8
Stress cracks, %	4	5	4	4	5	6	5	5
Milling Index	95.6	75.5	99.0	83.1	92.9	92.4	65.0	92.6
Kernel Size								
% above 10 mm sieve	1.9	3.4	2.6	3.0	12.7	8.8	5.5	11.8
% above 8 mm sieve	58.5	59.0	60.7	59.0	67.6	64.4	56.7	66.6
% belowe 8 mm sieve	39.6	37.6	36.7	38.0	19.6	26.8	37.8	21.6
Breakage susceptibility								
% Below 6.35 mm sieve	0.9	1.0	1.8	1.0	0.9	1.2	1.5	1.0
% Below 4.75 mm sieve	0.2	0.9	0.6	0.7	0.5	0.5	0.5	0.5
Nutritional Factors								
Protein, % (db)	9.1	8.5	9.1	8.7	9.7	9.9	9.4	9.7
Fat, % (db)	4.1	4.2	4.3	4.2	4.0	3.9	3.8	4.0
Starch, % (db)	70.6	73.5	71.9	72.6	72.3	72.1	73.1	72.3
Number of samples	***3***	***7***	***1***	***11***	***395***	***97***	***3***	***505***
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]	1 948 [3 319]				182 [2 610]	434 [7 406]	13 [38]	251
Fum B_2 (µg/kg) [max. value]	855 [1 672]				67 [1 062]	170 [3 340]	7 [22]	95
Fum B_3 (µg/kg) [max. value]	164 [216]				11 [186]	32 [601]	0 [0]	17
Deoxynivalenol (µg/kg) [max. value]	927 [1 489]				33 [554]	55 [640]	0 [0]	36
15-ADON [max. value]	57 [170]				1 [122]	4 [184]	0 [0]	2
Ochratoxin A (µg/kg) [max. value]	0 [0]				0 [0]	0 [0]	0 [0]	0
Zearalenone (µg/kg) [max. value]	93 [130]				1 [44]	2 [36]	0 [0]	1
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***				***139***	***46***	***3***	***194***
GMO								
Cry1Ab, % [max value]	>5.0 [>5.0]				4.2 [>5.0]	4.4 [>5.0]	-	4.3
Cry2Ab, % [max value]	>5.0 [>5.0]				3.2 [>5.0]	3.6 [>5.0]	-	3.3
CP4 EPSPS, % [max value]	>5.0 [>5.0]				4.4 [>5.0]	4.7 [>5.0]	-	4.5
Number of samples	***3***				***40***	***15***	***-***	***56***