

**IMPORTED MAIZE QUALITY**  
**Quality of maize imported from 27 April 2019 to**  
**1 May 2020 compared to RSA crop quality 2018/19**

Country of origin	Argentina				RSA Crop Average			
Class and grade yellow maize	YM1	YM2	COM	Average	YM1	YM2	COM	Average
<b>RSA Grading</b>								
Defective kernels above 6.35 mm sieve, %	3.6	3.0	2.9	3.3	2.7	6.8	7.1	3.7
Defective kernels below 6.35 mm sieve, %	2.3	4.8	3.5	3.0	1.4	2.9	2.8	1.7
Total defective kernels, %	5.8	7.9	6.4	6.4	4.1	9.7	10.0	5.4
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	0.0	0.1	0.0	0.1	0.7	0.1
Combined deviations, %	5.9	8.0	6.4	6.5	4.2	10.3	11.1	5.7
Pinked maize kernels, %	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>Physical Factors</b>								
100 Kernel mass, g	32.0	30.9	32.5	31.8	30.9	29.2	29.8	30.6
Stress cracks, %	15	15	7	14	12	16	16	13
Milling Index	75.9	74.7	60.8	73.6	79.4	80.8	78.5	79.5
Test weight, kg/hl	75.7	75.4	73.6	75.3	77.3	75.8	75.8	76.9
<b>Kernel Size</b>								
% above 10 mm sieve	3.5	3.2	2.4	3.3	8.4	7.5	8.1	8.3
% above 8 mm sieve	62.1	58.3	62.4	61.2	66.8	64.7	64.1	66.4
% below 8 mm sieve	34.4	38.4	35.2	35.5	24.8	27.8	27.7	25.3
<b>Breakage susceptibility</b>								
% Below 6.35 mm sieve	0.2	0.2	0.1	0.2	0.8	1.6	1.3	1.0
% Below 4.75 mm sieve	0.3	0.3	0.4	0.3	0.6	1.1	0.9	0.7
<b>Nutritional Factors</b>								
Protein, % (db)	8.2	8.3	8.3	8.2	9.2	9.4	9.1	9.2
Fat, % (db)	4.3	4.4	4.3	4.3	3.9	4.0	4.0	4.0
Starch, % (db)	72.1	72.9	73.9	72.5	72.8	72.6	72.6	72.7
Crude fibre, % (db)	2.1	2.1	2.0	2.1	1.9	2.0	2.0	2.0
<b>Number of samples</b>	<b>23</b>	<b>9</b>	<b>5</b>	<b>37</b>	<b>309</b>	<b>47</b>	<b>35</b>	<b>404</b>
<b>Mycotoxins</b>								
Afla G <sub>1</sub> (µg/kg) [max. value]	0 [0]				0 [0]	0 [0]	0 [0]	0
Afla B <sub>1</sub> (µg/kg) [max. value]	0 [0]				0 [0]	0 [0]	0 [0]	0
Afla G <sub>2</sub> (µg/kg) [max. value]	0 [0]				0 [0]	0 [0]	0 [0]	0
Afla B <sub>2</sub> (µg/kg) [max. value]	0 [0]				0 [0]	0 [0]	0 [0]	0
Fum B <sub>1</sub> (µg/kg) [max. value]	1 355 [3 150]				165 [3 340]	884 [20 820]	105 [359]	309
Fum B <sub>2</sub> (µg/kg) [max. value]	548 [1 460]				43 [814]	377 [9 369]	31 [129]	105
Fum B <sub>3</sub> (µg/kg) [max. value]	156 [361]				<20 [239]	169 [4 551]	<20 [32]	39
Deoxynivalenol (µg/kg) [max. value]	281 [1 017]				238 [1 735]	394 [1 723]	736 [3 256]	303
15-ADON [max. value]	0 [<100]				<100 [195]	<100 [227]	124 [593]	<100
Ochratoxin A (µg/kg) [max. value]	0 [0]				0 [0]	0 [0]	0 [0]	0
Zearalenone (µg/kg) [max. value]	39 [129]				<20 [148]	43 [957]	<20 [70]	<20
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
<b>Number of samples</b>	<b>9</b>				<b>124</b>	<b>29</b>	<b>13</b>	<b>175</b>
<b>GMO</b>								
Cry1Ab, % [max value]	>5.0 [>5.0]				4.5 [>5.0]	4.0 [>5.0]	>5.0 [>5.0]	3.9
Cry2Ab, % [max value]	>5.0 [>5.0]				3.7 [>5.0]	3.6 [>5.0]	4.8 [>5.0]	3.8
CP4 EPSPS, % [max value]	>5.0 [>5.0]				4.4 [>5.0]	4.2 [>5.0]	>5.0 [>5.0]	4.0
<b>Number of samples</b>	<b>9</b>				<b>18</b>	<b>10</b>	<b>3</b>	<b>35</b>

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**Quality of maize imported from 27 April 2019 to**  
**1 May 2020 compared to RSA crop quality 2018/19**

Country of origin	Brazil			RSA Crop Average		
Class and grade yellow maize	YM1	YM2	Average	YM1	YM2	Average
<b>RSA Grading</b>						
Defective kernels above 6.35 mm sieve, %	3.0	2.2	2.8	2.7	6.8	3.7
Defective kernels below 6.35 mm sieve, %	2.9	4.1	3.1	1.4	2.9	1.7
Total defective kernels, %	5.9	6.3	5.9	4.1	9.7	5.4
Other colour maize kernels, %	0.1	0.0	0.0	0.1	0.4	0.2
Foreign matter, %	0.1	0.1	0.1	0.0	0.1	0.1
Combined deviations, %	6.0	6.4	6.0	4.2	10.3	5.7
Pinked maize kernels, %	0.0	0.0	0.0	0.0	0.0	0.0
<b>Physical Factors</b>						
100 Kernel mass, g	33.0	31.2	32.6	30.9	29.2	30.6
Stress cracks, %	15	12	14	12	16	13
Milling Index	83.3	76.2	81.9	79.4	80.8	79.5
Test weight, kg/hl	76.0	75.4	75.9	77.3	75.8	76.9
<b>Kernel Size</b>						
% above 10 mm sieve	5.4	4.2	5.2	8.4	7.5	8.3
% above 8 mm sieve	68.1	64.9	67.5	66.8	64.7	66.4
% below 8 mm sieve	26.5	30.9	27.4	24.8	27.8	25.3
<b>Breakage susceptibility</b>						
% Below 6.35 mm sieve	0.4	0.0	0.3	0.8	1.6	1.0
% Below 4.75 mm sieve	0.6	0.2	0.5	0.6	1.1	0.7
<b>Nutritional Factors</b>						
Protein, % (db)	8.4	8.2	8.4	9.2	9.4	9.2
Fat, % (db)	4.3	4.4	4.3	3.9	4.0	4.0
Starch, % (db)	73.3	73.1	73.3	72.8	72.6	72.7
Crude fibre, % (db)	2.0	1.9	2.0	1.9	2.0	2.0
<b>Number of samples</b>	<b>4</b>	<b>1</b>	<b>5</b>	<b>309</b>	<b>47</b>	<b>404</b>
<b>Mycotoxins</b>						
Afla G <sub>1</sub> (µg/kg) [max. value]	0 [0]			0 [0]	0 [0]	0
Afla B <sub>1</sub> (µg/kg) [max. value]	0 [0]			0 [0]	0 [0]	0
Afla G <sub>2</sub> (µg/kg) [max. value]	0 [0]			0 [0]	0 [0]	0
Afla B <sub>2</sub> (µg/kg) [max. value]	0 [0]			0 [0]	0 [0]	0
Fum B <sub>1</sub> (µg/kg) [max. value]	170 [170]			165 [3 340]	884 [20 820]	309
Fum B <sub>2</sub> (µg/kg) [max. value]	77 [77]			43 [814]	377 [9 369]	105
Fum B <sub>3</sub> (µg/kg) [max. value]	24 [24]			<20 [239]	169 [4 551]	39
Deoxynivalenol (µg/kg) [max. value]	0 [0]			238 [1 735]	394 [1 723]	303
15-ADON [max. value]	0 [0]			<100 [195]	<100 [227]	<100
Ochratoxin A (µg/kg) [max. value]	0 [0]			0 [0]	0 [0]	0
Zearalenone (µg/kg) [max. value]	0 [0]			<20 [148]	43 [957]	<20
HT2 [max. value]	0 [0]			0 [0]	0 [0]	0
T-2 Toxin (µg/kg) [max. value]	0 [0]			0 [0]	0 [0]	0
<b>Number of samples</b>	<b>1</b>			<b>124</b>	<b>29</b>	<b>175</b>
<b>GMO</b>						
Cry1Ab, % [max value]	>5.0 [>5.0]			4.5 [>5.0]	4.0 [>5.0]	3.9
Cry2Ab, % [max value]	>5.0 [>5.0]			3.7 [>5.0]	3.6 [>5.0]	3.8
CP4 EPSPS, % [max value]	>5.0 [>5.0]			4.4 [>5.0]	4.2 [>5.0]	4.0
<b>Number of samples</b>	<b>1</b>			<b>18</b>	<b>10</b>	<b>35</b>