

**IMPORTED MAIZE QUALITY**  
**Imported maize quality versus RSA crop quality**  
**2006/2007**

<b>Country of origin</b>	<b>Argentina Average</b>		<b>RSA Crop Average</b>	
<b>Class and grade yellow maize</b>	<b>YM2</b>	<b>COM</b>	<b>YM2</b>	<b>COM</b>
<b>RSA Grading</b>				
Defective kernels above 6.35 mm sieve, %	2.7	2.4	3.8	24.7
Defective kernels below 6.35 mm sieve, %	6.2	5.0	4.7	2.9
Total defective kernels, %	8.9	7.4	8.4	27.5
Other colour maize kernels, %	0.0	0.0	0.4	0.4
Foreign matter, %	0.1	0.2	0.2	0.8
Combined deviation, %	9.0	7.8	9.1	28.8
Pinked maize kernels, %	10.1	21.6	0.0	0.2
Noxious seeds	0	0	0	0
<b>Physical Factors</b>				
Hectolitre mass, kg/hl	77.1	76.1	74.4	73.3
100 Kernel mass, g	30.8	30.0	24.0	28.1
Stress cracks, %	16	9	4	8
Milling Index	107.7	97.1	91.6	97.4
<b>Kernel Size</b>				
% on top 10 mm	3.9	4.1	5.5	10.1
% on top 8 mm	51.4	57.4	55.9	65.6
% through 8 mm	44.7	38.4	38.6	24.3
<b>Breakage susceptibility, g</b>				
Below 6.35 mm sieve	1.0	0.9	2.9	3.3
Below 4.8 mm sieve	0.6	0.8	1.7	2.3
<b>Nutritional Factors</b>				
Protein, %	9.1	8.7	9.9	9.9
Fat, % (db)	5.2	4.8	3.5	3.8
Starch, % (db)	70.0	70.6	73.4	72.4
<b>Number of samples</b>	<b>3</b>	<b>83</b>	<b>60</b>	<b>8</b>
<b>Mycotoxins</b>				
Total Aflatoxin, ppb (ug/kg) [max. value]	0.41 [9.00]		0.00 [0.00]	
Fumonisin, ppm (mg/kg) [max. value]	1.71 [5.30]		1.05 [4.50]	
Deoxynivalenol, ppm (mg/kg) [max. value]	0.89 [2.80]		0.96 [2.10]	
Ochratoxin A, ppb (ug/kg) [max. value]	0.39 [3.50]		0.00 [<2]	
Zearalenone, ppm (mg/kg) [max. value]	0.00 [0.14]		0.00 [<0.01]	
<b>Number of samples</b>	<b>29</b>		<b>9</b>	
<b>GMO</b>				
MON 810, % Samples positive (> LOD of 0.15 %) [Max value]	100		100	
NK 603 (Roundup Ready), % Samples positive (> LOD of 0.25 %) [Max value]	90		78	
<b>Number of samples</b>	<b>29</b>		<b>9</b>	

**IMPORTED MAIZE QUALITY**  
**Imported maize quality versus RSA crop quality**  
**2006/2007 (continue)**

Country of origin	Switzerland Average		RSA Crop Average	
	YM2	COM	YM2	COM
<b>Class and grade yellow maize</b>				
<b>RSA Grading</b>				
Defective kernels above 6.35 mm sieve, %	2.5	2.6	3.8	24.7
Defective kernels below 6.35 mm sieve, %	7.1	6.1	4.7	2.9
Total defective kernels, %	9.6	8.7	8.4	27.5
Other colour maize kernels, %	0.0	0.0	0.4	0.4
Foreign matter, %	0.2	0.7	0.2	0.8
Combined deviation, %	9.8	9.4	9.1	28.8
Pinked maize kernels, %	10.2	25.5	0.0	0.2
Noxious seeds	0	1	0	0
<b>Physical Factors</b>				
Hectolitre mass, kg/hl	76.2	76.3	74.4	73.3
100 Kernel mass, g	26.8	27.6	24.0	28.1
Stress cracks, %	10	9	4	8
Milling Index	96.4	85.5	91.6	97.4
<b>Kernel Size</b>				
% on top 10 mm	6.5	2.5	5.5	10.1
% on top 8 mm	57.1	49.4	55.9	65.6
% through 8 mm	36.4	48.1	38.6	24.3
<b>Breakage susceptibility, g</b>				
Below 6.35 mm sieve	1.0	0.9	2.9	3.3
Below 4.8 mm sieve	0.6	0.5	1.7	2.3
<b>Nutritional Factors</b>				
Protein, %	9.1	8.9	9.9	9.9
Fat, % (db)	5.3	5.0	3.5	3.8
Starch, % (db)	68.2	70.3	73.4	72.4
<b>Number of samples</b>	<b>1</b>	<b>7</b>	<b>60</b>	<b>8</b>
<b>Mycotoxins</b>				
Total Aflatoxin, ppb (ug/kg) [max. value]	1.33 [4.00]		0.00 [0.00]	
Fumonisin, ppm (mg/kg) [max. value]	1.82 [3.00]		1.05 [4.50]	
Deoxynivalenol, ppm (mg/kg) [max. value]	1.12 [2.10]		0.96 [2.10]	
Ochratoxin A, ppb (ug/kg) [max. value]	<2 [<2]		0.00 [<2]	
Zearalenone, ppm (mg/kg) [max. value]	0.04 [0.11]		0.00 [<0.1]	
<b>Number of samples</b>	<b>3</b>		<b>9</b>	
<b>GMO</b>				
MON 810, % Samples positive (> LOD of 0.15 %) [Max value]	100		100	
NK 603 (Roundup Ready), % Samples positive (> LOD of 0.25 %) [Max value]	67		78	
<b>Number of samples</b>	<b>3</b>		<b>9</b>	