

**TABLE 2: SOUTH AFRICAN MAIZE CROP QUALITY 2016/2017 (Weighted Averages)**

Class and grade of maize	WM1	WM2	WM3	WCOM	YM1	YM2	YM3	YCOM	Weighted Ave.
<b>RSA Grading</b>									
Defective kernels above 6.35 mm sieve, %	2.4	4.9	10.4	7.5	2.1	4.6	13.5	6.8	2.6
Defective kernels below 6.35 mm sieve, %	1.6	2.9	4.4	3.9	1.8	4.1	1.9	10.7	1.9
Total defective kernels, %	3.9	7.8	14.8	11.4	3.9	8.7	15.3	17.5	4.5
Other colour maize kernels, %	0.2	0.5	0.5	1.0	0.1	0.7	1.7	1.9	0.2
Foreign matter, %	0.1	0.2	0.3	2.3	0.1	0.2	0.4	1.2	0.1
Combined deviation, %	4.3	8.6	15.6	14.7	4.1	9.6	17.4	20.6	4.9
Pinked maize kernels, %	0.2	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.1
<b>Physical Factors</b>									
Test weight, kg/hi	77.9	76.7	76.9	75.6	77.0	75.1	74.4	73.3	77.3
100 Kernel mass, g	35.1	34.4	36.7	34.7	33.8	30.7	30.7	26.4	34.3
Stress cracks, %	7	11	23	12	7	10	14	15	8
Milling Index	80.5	78.1	79.8	83.8	77.0	75.5	66.8	66.1	78.7
<b>Kernel Size</b>									
% on top 10 mm	22.0	23.1	21.0	25.0	11.7	6.9	16.2	6.9	17.3
% on top 8 mm	64.3	62.3	66.0	63.1	65.6	63.5	64.0	73.9	64.8
% through 8 mm	13.7	14.6	13.0	11.9	22.6	29.7	19.8	19.2	17.9
<b>Breakage susceptibility</b>									
% Below 6.35 mm sieve	1.1	1.6	1.3	2.1	1.0	1.9	2.3	3.8	1.2
% Below 4.75 mm sieve	0.8	1.1	1.0	1.5	0.7	1.3	1.6	2.2	0.8
<b>Nutritional Values</b>									
Protein, % (db)	8.7	8.6	8.7	9.3	8.9	8.8	9.1	8.6	8.8
Fat, % (db)	4.2	4.2	4.2	4.4	4.1	4.0	4.0	4.2	4.1
Starch, % (db)	74.1	74.1	73.7	73.3	73.7	73.6	73.4	73.5	73.9
<b>Number of samples</b>	<b>469</b>	<b>62</b>	<b>9</b>	<b>9</b>	<b>417</b>	<b>28</b>	<b>2</b>	<b>4</b>	<b>1 000</b>
<b>Mycotoxins</b>									
Total Aflatoxin, µg/kg (ppb) [max. value]	0 [0]	0 [0]	0 [0]	0 [0]	0 [0]	0 [0]	0 [0]	0 [0]	0 [0]
Total Fumonisin, µg/kg (ppb) [max. value]	114 [3 913]	275 [2 135]	68 [247]	111 [406]	189 [4 025]	722 [6 059]	275 [547]	375 [1 125]	191 [6 059]
Deoxynivalenol, µg/kg (ppb) [max. value]	316 [4 758]	1 620 [7 698]	1 981 [7 671]	436 [1 742]	93 [1 552]	19 [189]	114 [228]	0 [<100]	339 [7 698]
15-ADON, µg/kg (ppb) [max. value]	36 [657]	193 [964]	201 [802]	53 [210]	14 [381]	7 [113]	0 [<100]	0 [0]	41 [964]
Ochratoxin A, µg/kg (ppb) [max. value]	0 [0]	0 [0]	0 [0]	0 [0]	0 [0]	0 [0]	0 [0]	0 [0]	0 [0]
Zearalenone, µg/kg (ppb) [max. value]	5 [181]	39 [399]	73 [292]	6 [23]	1 [113]	0 [<20]	0 [0]	0 [0]	7 [399]
HT-2 Toxin, µg/kg (ppb) [max. value]	0 [0]	0 [0]	0 [0]	0 [0]	0 [0]	0 [0]	0 [0]	0 [0]	0 [0]
T - 2 Toxin, µg/kg (ppb) [max. value]	0 [0]	0 [0]	0 [0]	0 [0]	0 [0]	0 [0]	0 [0]	0 [0]	0 [0]
<b>Number of samples</b>	<b>140</b>	<b>31</b>	<b>4</b>	<b>4</b>	<b>150</b>	<b>16</b>	<b>2</b>	<b>3</b>	<b>350</b>
<b>GMO</b>									
Cry1Ab, % Samples positive (>LOQ of 0.4%)	100	100	100	100	95	100	100	100	98
Cry2Ab, % Samples positive (>LOQ of 0.5%)	89	73	100	100	83	60	100	100	84
CP4-EPSPS, % Samples positive (>LOQ of 0.25%)	100	100	100	100	100	100	100	100	100
<b>Number of samples</b>	<b>37</b>	<b>11</b>	<b>2</b>	<b>2</b>	<b>41</b>	<b>5</b>	<b>1</b>	<b>1</b>	<b>100</b>

Note: Not detected mycotoxin results are reported as 0; see LOQ in Table 24 page 79.