

**TABLE 2: SOUTH AFRICAN MAIZE CROP QUALITY 2019/20 (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, %	3.2	6.7	13.0	22.3	2.6	5.6	4.4	12.5	6.5
Defective kernels below 6.35 mm sieve, %	1.3	2.1	2.7	2.9	1.7	3.4	4.4	2.8	2.1
Total defective kernels, %	4.5	8.8	15.7	25.2	4.3	9	8.8	15.3	8.6
Other colour maize kernels, %	0.2	0.3	0.7	0.7	0.1	0.4	0.1	0.9	0.3
Foreign matter, %	0.0	0.2	0.3	0.9	0.0	0.1	0.5	0.7	0.2
Combined deviation, %	4.8	9.2	16.7	26.8	4.4	9.6	9.5	17.0	9.1
Pinked maize kernels, %	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.1
<b>Physical Factors</b>									
Test weight, kg/hl	76.5	75.7	74.2	73.7	77.0	75.4	74.6	74.7	75.9
100 Kernel mass, g	34.7	35.6	34.5	34.3	31.0	28.9	27.6	30.4	33.0
Stress cracks, %	12	17	21	21	12	17	13	18	15
Milling Index	76.1	72.9	67.2	68.7	78.0	76.5	72.4	72.5	75
Grit Yield	63.8	63.1	61.6	62.0	64.3	63.9	62.9	62.9	63
<b>Kernel Size</b>									
% on top 10 mm	24.3	29.9	31.8	30.4	8.9	7.4	6.2	8.2	19.7
% on top 8 mm	64.1	60.8	59.5	60.3	66.2	61.8	61.2	66.6	63.3
% through 8 mm	11.7	9.3	8.7	9.4	25.0	30.7	32.6	25.2	17.1
<b>Breakage susceptibility</b>									
% Below 6.35 mm sieve	0.8	1.1	1.6	1.6	0.8	1.4	1.0	1.6	1.1
% Below 4.75 mm sieve	0.5	0.8	1.2	1.2	0.6	0.9	0.7	1.1	0.8
<b>Nutritional Values</b>									
Fat, % (db)	4.1	4.0	4.0	4.0	3.9	3.9	4.0	3.9	4.0
Protein, %	8.4	8.3	8.3	8.5	9.0	9.1	9.0	8.9	8.7
Starch, % (db)	73.3	73.4	73.2	72.9	72.4	72.1	72.0	72.2	72.8
Crude fibre, % (db)	1.9	1.9	2.0	2.0	1.9	2.0	2.0	2.0	1.9
<b>Number of samples</b>	<b>221</b>	<b>155</b>	<b>71</b>	<b>69</b>	<b>244</b>	<b>79</b>	<b>13</b>	<b>38</b>	<b>890</b>
<b>Mycotoxins</b>									
Total Aflatoxin, µg/kg (ppb) [max. value]	0 [0]	0 [0]	0 [0]	0 [0]	0 [10]	0 [0]	0 [0]	0 [0]	0 [10]
Total Fumonisin, µg/kg (ppb) [max. value]	54 [638]	58 [612]	191 [3 911]	76 [1 314]	184 [2 702]	338 [5 928]	97 [466]	201 [2 375]	143 [5 928]
Deoxynivalenol, µg/kg (ppb) [max. value]	333 [2 096]	659 [3 302]	1804 [7 700]	758 [3 975]	470 [2 002]	817 [5 060]	368 [993]	523 [3 748]	656 [7 700]
15-ADON, µg/kg (ppb) [max. value]	25 [433]	84 [501]	270 [1 173]	89 [592]	55 [301]	105 [768]	38 [121]	67 [514]	82 [1 173]
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]	3 [78]	6 [60]	42 [539]	5 [124]	4 [79]	8 [85]	7 [40]	17 [243]	9 [539]
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>81</b>	<b>61</b>	<b>31</b>	<b>28</b>	<b>79</b>	<b>43</b>	<b>6</b>	<b>21</b>	<b>350</b>
<b>GMO</b>									
<b>Cry1Ab, % Samples positive (&gt;LOQ of 0.4%)</b>	76	93	100	100	79	86	100	100	86
<b>Cry2Ab, % Samples positive (&gt;LOQ of 0.5%)</b>	94	100	100	100	95	100	100	100	97
<b>CP4 EPSPS, % Samples positive (&gt;LOQ of 0.25%)</b>	88	93	100	100	89	86	100	100	91
<b>Number of samples</b>	<b>17</b>	<b>14</b>	<b>8</b>	<b>1</b>	<b>19</b>	<b>7</b>	<b>1</b>	<b>3</b>	<b>70</b>

Note: Not detected mycotoxin results are reported as 0, see LOQ in Table 24 page 89.