

TABLE2: SOUTH AFRICAN MAIZE CROP QUALITY 2015/2016 (Weighted Averages)

Class and grade of maize	WM1	WM2	WM3	WCOM	YM1	YM2	YM3	YCOM	Weighted Ave.
RSA Grading									
Defective kernels above 6.35 mm sieve, %	2.5	5.3	9.1	26.4	2.5	5.0	5.0	10.3	3.4
Defective kernels below 6.35 mm sieve, %	1.8	3.3	5.8	9.2	1.9	4.5	11.5	7.9	2.5
Total defective kernels, %	4.3	8.6	15.1	35.6	4.4	9.5	16.4	18.2	5.9
Other colour maize kernels, %	0.2	0.5	1.3	0.5	0.1	0.4	0.0	0.4	0.2
Foreign matter, %	0.1	0.2	0.2	0.9	0.1	0.2	0.3	1.1	0.1
Combined deviation, %	4.7	9.3	16.6	37.0	4.6	10.1	16.8	19.7	6.3
Pinked maize kernels, %	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0
Physical Factors									
Test weight, kg/hl	78.4	77.4	77.3	74.2	76.9	76.0	74.8	71.3	77.3
100 Kernel mass, g	32.7	31.7	31.7	32.0	32.3	30.7	28.7	27.0	32.1
Stress cracks, %	4	6	7	3	5	6	6	5	5
Milling Index	98.9	99.3	100.4	91.8	92.9	92.4	89.5	65.0	95.5
Kernel Size									
% on top 10 mm	15.3	15.2	15.1	7.6	12.7	8.8	3.3	5.5	13.3
% on top 8 mm	67.3	64.7	66.0	62.7	67.6	64.4	51.7	56.7	66.6
% through 8 mm	17.4	20.1	18.9	29.7	19.6	26.8	45.0	37.8	20.0
Breakage susceptibility									
% Below 6.35 mm sieve	0.8	1.2	1.7	2.0	0.9	1.2	1.6	1.5	1.0
% Below 4.75 mm sieve	0.4	0.5	0.7	0.8	0.5	0.5	0.6	0.5	0.5
Nutritional Values									
Protein, % (db)	9.7	9.9	9.9	9.5	9.7	9.9	10.2	9.4	9.7
Fat, % (db)	4.1	4.2	4.2	3.9	4.0	3.9	3.8	3.8	4.1
Starch, % (db)	72.7	72.4	72.4	72.9	72.3	72.1	72.7	73.1	72.4
Number of samples	300	84	27	4	395	97	10	3	920
Mycotoxins									
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]	246 [6 865]	414 [2 746]	229 [864]	142 [428]	260 [3 858]	636 [11 347]	817 [1 993]	20 [60]	325 [11 347]
Deoxynivalenol, µg/kg (ppb) [max. value]	54 [598]	143 [1 585]	137 [728]	0 [0]	33 [354]	55 [640]	0 [<100]	0 [0]	56 [1 585]
15-ADON, µg/kg (ppb) [max. value]	1[110]	13[310]	20 [184]	0 [0]	1 [122]	4 [184]	0 [0]	0 [0]	15 [310]
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]	4[127]	5 [125]	6 [28]	0 [0]	1 [44]	2 [36]	0 [0]	0 [0]	3 [127]
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]
Number of samples	106	33	14	3	139	46	6	3	350
GMO									
Cry1Ab, % Samples positive (>LOQ of 0.4%)	97	88	100	100	93	93	100	-	94
Cry2Ab, % Samples positive (>LOQ of 0.5%)	70	75	100	0	83	87	0	-	78
CP4 EPSPS, % Samples positive (>LOQ of 0.25%)	100	88	100	100	100	100	100	-	99
Number of samples	30	8	5	1	40	15	1	-	100

Note: Not detected mycotoxin results are reported as 0, see LOQ in Table 22 page 76.