

TABLE2: SOUTH AFRICAN MAIZE CROP QUALITY 2014/2015 (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, %	2.3	5.3	11.1	11.6	2.5	4.5	10.5	6.0	3.1
Defective kernels below 6.35 mm sieve, %	1.7	3.5	5.3	9.8	2.0	4.7	8.9	4.7	2.5
Total defective kernels, %	4.0	8.7	16.4	21.3	4.5	9.2	19.5	10.6	5.6
Other colour maize kernels, %	0.3	0.7	1.2	1.9	0.1	0.4	0.0	5.7	0.3
Foreign matter, %	0.1	0.2	0.2	0.6	0.1	0.2	0.3	0.4	0.1
Combined deviation, %	4.4	9.6	17.8	23.9	4.7	9.7	19.7	16.7	6.0
Pinked maize kernels, %	0.1	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0
Physical Factors									
Test weight, kg/hl	78.5	78.2	74.7	75.6	76.6	75.5	74.3	73.5	77.3
100 Kernel mass, g	30.9	31.2	32.7	32.6	29.4	28.9	22.9	28.7	29.8
Stress cracks, %	6	7	10	20	5	5	5	10	6
Milling Index	100.6	103.0	90.5	93.8	95.4	93.9	89.4	96.6	97.6
Kernel Size									
% on top 10 mm	14.6	17.7	25.2	22.5	9.5	6.3	2.7	12.5	12.0
% on top 8 mm	66.6	65.0	59.8	64.3	65.5	57.4	43.6	61.5	64.7
% through 8 mm	18.8	17.3	15.0	13.2	25.0	36.2	53.6	26.0	23.2
Breakage susceptibility									
% Below 6.35 mm sieve	0.9	1.3	2.6	4.0	1.2	1.5	1.9	2.4	1.2
% Below 4.75 mm sieve	0.7	1.0	1.7	2.2	0.9	1.0	1.1	1.3	0.8
Nutritional Values									
Protein, % (db)	9.4	9.6	9.2	9.1	9.4	9.6	10.1	9.7	9.4
Fat, % (db)	4.2	4.2	4	4.1	4	3.9	3.8	3.9	4.1
Starch, % (db)	72.6	72.4	72.7	72.4	72.9	73.1	73.2	72.9	72.8
Number of samples	402	59	19	5	392	103	9	11	1 000
Mycotoxins									
Total Aflatoxin, µg/kg (ppb) [max. value]	0 [48]	0 [0]	4 [39]	0 [0]	0 [0]	0 [0]	0 [0]	0 [0]	0 [48]
Total Fumonisin, µg/kg (ppb) [max. value]	183 [1810]	356 [1600]	221 [1157]	78 [255]	257 [3382]	196 [1997]	224 [662]	61 [179]	224 [3382]
Deoxynivalenol, µg/kg (ppb) [max. value]	137 [1285]	416 [3167]	1443 [9736]	277 [748]	80 [851]	117 [593]	23 [164]	65 [253]	183 [9736]
15-ADON, µg/kg (ppb) [max. value]	21 [307]	64 [890]	268 [1768]	57 [227]	9 [228]	5 [238]	0 [<100]	0 [0]	27 [1768]
Ochratoxin A, µg/kg (ppb) [max. value]	0 [0]	0 [0]	0 [0]	0 [0]	0 [5]	0 [0]	0 [0]	0 [0]	0 [0]
Zearalenone, µg/kg (ppb) [max. value]	3 [71]	23 [212]	51 [337]	0 [0]	2 [71]	7 [124]	4 [25]	0 [0]	6 [337]
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	122	30	12	4	121	48	7	6	350
GMO									
Cry1Ab, % Samples positive (>LOQ of 0.4%)	92	100	100	100	95	78	100	100	94
Cry2Ab, % Samples positive (>LOQ of 0.5%)	84	87	80	100	85	56	0	67	81
CP4 EPSPS, % Samples positive (>LOQ of 0.25%)	92	100	100	100	100	100	100	100	98
Number of samples	25	15	5	1	41	9	1	3	100

Note: Not detected mycotoxin results are reported as 0, see LOQ in Table 22 page 74.