

**TABLE 2d: QUALITY OF WHITE MAIZE IMPORTED FROM THE USA FOR THE PERIOD
1 MAY 2024 TO 30 APRIL 2025**

Country of origin	USA				RSA Crop Quality Average 2023/2024				
	WM1	WM2	COM	Average	WM1	WM2	WM3	COM	Average
RSA Grading									
Defective kernels above 6.35mm screen, %	1.6	1.6	1.9	1.7	1.0	1.6	2.7	1.2	1.1
Defective kernels below 6.35mm screen, %	3.3	5.7	4.2	4.1	1.8	4.4	4.5	4.1	2.3
Total defective kernels, %	4.9	7.3	6.1	5.7	2.8	6.0	7.2	5.3	3.5
Other colour maize kernels %	0.5	0.4	0.2	0.4	0.1	0.3	0.2	0.6	0.2
Foreign matter, % (all matter other than maize, glass, stone, coal, dung or metal)	0.1	0.3	1.1	0.3	0.0	0.2	0.5	1.0	0.2
Combined deviation, %	5.4	7.9	7.4	6.4	3.0	6.6	7.9	7.0	3.8
<i>No. of samples</i>	<i>8</i>	<i>4</i>	<i>2</i>	<i>14</i>	<i>409</i>	<i>43</i>	<i>18</i>	<i>48</i>	<i>518</i>
USA Grading factors according to RSA grades									
Heat damaged kernels, %	0.1	0.3	0.0	0.1	0.0	0.0	0.8	0.0	0.0
Total damaged kernels, %	1.8	1.3	2.1	1.7	2.5	3.9	4.4	3.0	2.7
Broken corn and foreign material, %	1.4	3.0	2.8	2.1	0.6	1.5	2.4	2.5	0.9
<i>No. of samples</i>	<i>8</i>	<i>4</i>	<i>2</i>	<i>14</i>	<i>409</i>	<i>43</i>	<i>18</i>	<i>48</i>	<i>518</i>
Physical Quality Characteristics									
100 Kernel mass, g (as is)	34.1	33.7	33.8	33.9	31.7	28.0	31.0	31.6	31.4
Stress cracks, %	16	17	28	18	4	4	6	5	4
Milling Index	84	87	85	85	73	76	76	73	73
Grit Yield	66	66	66	66	63	64	64	63	63
Test weight, kg/hl	78.4	78.4	78.3	78.4	76.4	75.5	76.0	75.5	76.2
<i>No. of samples</i>	<i>8</i>	<i>4</i>	<i>2</i>	<i>14</i>	<i>409</i>	<i>43</i>	<i>18</i>	<i>48</i>	<i>518</i>
Kernel size									
% above 10 mm	3.1	4.2	2.5	3.3	18.9	13.5	18.2	22.6	18.8
% above 8 mm	62.2	64.6	60.0	62.5	63.4	58.2	59.1	58.1	62.3
% below 8 mm	34.8	31.3	37.6	34.2	17.7	28.3	22.7	19.3	18.9
<i>No. of samples</i>	<i>8</i>	<i>4</i>	<i>2</i>	<i>14</i>	<i>409</i>	<i>43</i>	<i>18</i>	<i>48</i>	<i>518</i>
Breakage susceptibility									
% below 6.35 mm	0.3	0.3	1.2	0.4	0.9	1.1	1.4	1.3	0.9
% below 4.75 mm	1.3	0.9	2.5	1.4	0.7	0.7	0.9	0.9	0.7
<i>No. of samples</i>	<i>8</i>	<i>4</i>	<i>2</i>	<i>14</i>	<i>409</i>	<i>43</i>	<i>18</i>	<i>48</i>	<i>518</i>
Nutritional Factors									
Protein, %(db)	8.9	8.9	8.8	8.9	8.9	9.3	9.0	9.0	8.9
Fat, %(db)	3.8	3.7	3.9	3.7	3.9	4.0	4.0	3.9	3.9
Starch, %(db)	73.5	74.6	73.3	73.8	74.3	73.7	73.9	74.1	74.3
Crude fibre, % (db)	2.3	2.8	2.2	2.4	2.2	2.2	2.2	2.2	2.2
<i>No. of samples</i>	<i>8</i>	<i>4</i>	<i>2</i>	<i>14</i>	<i>409</i>	<i>43</i>	<i>18</i>	<i>48</i>	<i>518</i>
Roff Milling									
Break 1, %	12.8	13.0	13.0	12.9	14.1	13.2	14.2	13.8	14.0
Break 2, %	6.5	6.8	6.7	6.6	7.5	7.4	7.7	7.5	7.5
Break 3, %	10.7	11	10.8	10.8	9.8	9.7	9.8	9.5	9.8
Grits, %	44.9	44.3	44.1	44.6	44.4	44.5	43.5	44.3	44.3
Bran and Germ, %	25.1	25.0	25.6	25.1	24.3	25.2	24.8	24.9	24.5
Extraction (Total meal), %	74.9	75.1	74.5	74.9	75.7	74.8	75.2	75.1	75.5
<i>No. of samples</i>	<i>8</i>	<i>4</i>	<i>2</i>	<i>14</i>	<i>196</i>	<i>25</i>	<i>9</i>	<i>30</i>	<i>260</i>
Whiteness Index									
Whiteness Index, 87:13, sifted	35.5	34.2	34.3	34.9	38.4	37.6	38.6	38.4	38.4
Whiteness Index, unsifted	36.8	35.5	36.3	36.3	40.5	39.7	40.2	40.2	40.4
<i>No. of samples</i>	<i>8</i>	<i>4</i>	<i>2</i>	<i>14</i>	<i>196</i>	<i>25</i>	<i>9</i>	<i>30</i>	<i>260</i>

**TABLE 2d: QUALITY OF WHITE MAIZE IMPORTED FROM THE USA FOR THE PERIOD
1 MAY 2024 TO 30 APRIL 2025 (continue)**

Country of origin	USA				RSA Crop Quality Average 2023/2024				
Class and Grade White maize	WM1	WM2	COM	Average	WM1	WM2	WM3	COM	Average
*Bühler MCKA Milling									
*Fraction B1 - B3, %	21.9	23.2	24.2	22.6	24.1	24.5	24.1	24.2	24.1
*Fraction C1 - C3, %	42.6	42.5	40.6	42.3	40.1	40.9	40.1	40.4	40.2
*Grits (Fraction G3), %	14.0	13.6	14.9	14.0	14.0	14.7	14.2	13.9	14.1
*Germ/Bran (Degermer overs + Fractions G1 & G2)	21.6	20.7	20.3	21.2	21.8	20.0	21.7	21.5	21.7
*Extraction (Total meal), %	78.4	79.3	79.7	78.8	78.2	80.0	78.3	78.5	78.3
<i>No. of samples</i>	8	4	2	14	408	43	18	48	517
Whiteness Index									
Whiteness Index, 87:13, sifted	11.4	11.3	11.5	11.4	17.9	14.7	15.7	16.7	17.5
Whiteness Index, unsifted	13.1	12.7	15.8	13.4	19.7	16.5	16.9	18.3	19.2
<i>No. of samples</i>	8	4	2	14	408	43	18	48	517
Mycotoxins (µg/kg)									
	Average of positive results		Number of positive results		Average of positive results		Number of positive results		
Aflatoxin B ₁ [max. value]	0 [0]		0		41 [41]		1		
Aflatoxin B ₂ [max. value]	0 [0]		0		0 [0]		0		
Aflatoxin G ₁ [max. value]	0 [0]		0		0 [0]		0		
Aflatoxin G ₂ [max. value]	0 [0]		0		0 [0]		0		
Fumonisin B ₁ [max. value]	577 [1852]		14		204 [1354]		44		
Fumonisin B ₂ [max. value]	182 [538]		4		108 [434]		28		
Fumonisin B ₃ [max. value]	73 [157]		9		45 [124]		12		
Deoxynivalenol [max. value]	118 [184]		4		316 [908]		33		
15-ADON [max. value]	0 [0]		0		138 [154]		2		
Ochratoxin A [max. value]	0 [0]		0		0 [0]		0		
Zearalenone [max. value]	118 [118]		1		43 [107]		7		
HT2 [max. value]	0 [0]		0		0 [0]		0		
T2 [max. value]	0 [0]		0		0 [0]		0		
<i>No. of samples</i>	14				168				

