RSA Wheat Crop Quality Summary RSA Crop Quality 2019/20 and 2020/21 Seasons

| Country of origin | RS | A Cr | op Av | verag | e 20 | 19/20 | RSA Crop Average 2020/21 | | | | | | |
|---|----------------|--|-----------|-----------|----------------|------------|--------------------------|---|-----------|-------|-----------|------------|--|
| Class and Grade bread wheat | | RSA Crop Average 2019/20 | | | | | | Super B1 B2 B3 COW Averag | | | | | |
| No. of samples | 132 | 56 | 25 | 15 | 105 | 333 | 70 | 34 | 31 | 30 | 85 | 250 | |
| <u> </u> | | • | • | • | | • | | | | • | • | | |
| WHEAT | | | | | | | | | | | | | |
| GRADING Protein (12% mb), % | 13.5 | 12.0 | 11.1 | 12.4 | 13.2 | 12.9 | 13.2 | 12.0 | 11.0 | 10.0 | 11.9 | 12.0 | |
| Moisture, % | 10.3 | 10.1 | 10.1 | 10.2 | 10.3 | 10.2 | 11.3 | 11.0 | 11.1 | 11.0 | 11.1 | 11.1 | |
| Falling number, sec | 382 | 387 | 355 | 370 | 295 | 353 | 367 | 389 | 403 | 399 | 348 | 372 | |
| 1000 Kernel mass (13% mb), q | 36.1 | 38.7 | 37.8 | 33.3 | 33.2 | 35.6 | 37.3 | 38.7 | 39.2 | 39.3 | 38.0 | 38.2 | |
| Hlm (dirty), kg/hl | 80.0 | 81.3 | 80.6 | 77.1 | 75.9 | 78.9 | 80.8 | 79.8 | 79.3 | 78.0 | 77.0 | 78.9 | |
| Screenings (<1.8 mm sieve), % | 1.31 | 1.27 | 1.21 | 1.56 | 3.26 | 1.92 | 1.07 | 1.04 | 1.54 | 1.55 | 2.38 | 1.63 | |
| Gravel, stones, turf and glass, % | 0.01 | 0.01 | 0.00 | 0.00 | 0.01 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| Foreign matter, % | 0.10 | 0.09 | 0.08 | 0.06 | 0.25 | 0.14 | 0.03 | 0.05 | 0.04 | 0.03 | 0.13 | 0.07 | |
| Other grain & unthreshed ears, % | 0.29 | 0.28 | 0.32 | 0.32 | 0.65 | 0.41 | 0.25 | 0.24 | 0.40 | 0.34 | 0.87 | 0.49 | |
| Heat damaged kernels, % | 0.00 | 0.00 | 0.01 | 0.01 | 0.08 | 0.03 | 0.01 | 0.02 | 0.01 | 0.02 | 0.20 | 0.08 | |
| Immature kernels, % | 0.07 | 0.05 | 0.05 | 0.01 | 0.09 | 0.07 | 0.09 | 0.04 | 0.01 | 0.01 | 0.06 | 0.05 | |
| Insect damaged kernels, % | 0.27 | 0.27 | 0.18 | 0.14 | 0.44 | 0.31 | 0.31 | 0.43 | 0.47 | 0.59 | 0.98 | 0.61 | |
| Sprouted kernels, % | 0.04 | 0.03 | 0.09 | 0.11 | 3.17 | 1.03 | 0.13 | 0.06 | 0.03 | 0.01 | 0.45 | 0.20 | |
| Total damaged kernels, % | 0.38 | 0.34 | 0.34 | 0.28 | 3.77 | 1.44 | 0.54 | 0.54 | 0.53 | 0.64 | 1.69 | 0.94 | |
| Combined deviations, % | 2.08 | 1.98 | 1.95 | 2.22 | 7.93 | 3.91 | 1.89 | 1.86 | 2.51 | 2.56 | 5.07 | 3.12 | |
| Heavily frost damaged kernels, % | 0.03 | 0.01 | 0.00 | 0.00 | 0.01 | 0.02 | 0.00 | 0.00 | 0.00 | 0.01 | 0.01 | 0.00 | |
| Field fungi, % | 0.11 | 0.15 | 0.14 | 0.07 | 0.60 | 0.27 | 0.57 | 0.45 | 0.27 | 0.25 | 1.04 | 0.64 | |
| Storage fungi, % | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 0.06 | 0.02 | |
| Ergot, % | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| Poisonous seeds (<i>Crotalaria spp., etc.</i>) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Poisonous seeds (Argemone mexicana, etc.) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Live insects | No | No | No | No | No | No | No | No | No | No | No | No | |
| Undesirable odour | No | No | No | No | No | No | No | No | No | No | No | No | |
| | | | | | | | | | l | l | | | |
| No of complete | B1 | B2 | B3 | B4 | cow | Average | B1 | B2 | B3 | B4 | cow | Averaç | |
| No. of samples Bühler Extraction, % | 25 74.9 | 75.7 | 9 75.8 | 74.1 | 18 73.7 | 69 74.8 | 21 74.3 | 9 74.2 | 74.3 | 73.9 | 7 73.6 | 49 74.1 | |
| FLOUR Colour, KJ (wet) Colour, Konica Minolta CM5 (dry) | -4.7 | -4.9 | -4.9 | -4.9 | -4.3 | -4.7 | -4.7 | -4.8 | -5.0 | -5.0 | -4.7 | -4.8 | |
| L* | 93.54 | 93.81 | 93.83 | 93.99 | 93.48 | 93.64 | 93.72 | 93.91 | 94.16 | 94.44 | 94.03 | 93.93 | |
| a* | 0.50 | 0.46 | 0.46 | 0.40 | 0.44 | 0.47 | 0.48 | 0.46 | 0.40 | 0.35 | 0.39 | 0.44 | |
| b* | 10.35 | 10.22 | 10.53 | 10.32 | 10.26 | 10.32 | 9.74 | 9.89 | 9.79 | 9.47 | 9.87 | 9.77 | |
| Ash (db), % | 0.65 | 0.65 | 0.63 | 0.61 | 0.63 | 0.64 | 0.60 | 0.60 | 0.60 | 0.59 | 0.60 | 0.60 | |
| Protein (12% mb), % | 12.7 | 11.2 | 10.3 | 11.2 | 12.1 | 11.9 | 12.3 | 11.0 | 10.0 | 9.6 | 10.6 | 11.2 | |
| Wet Gluten (14% mb), % | 33.6 | 29.5 | 26.6 | 29.2 | 31.7 | 31.1 | 32.8 | 29.8 | 26.8 | 24.1 | 28.5 | 29.9 | |
| Dry Gluten (14% mb), % | 11.5 | 9.9 | 8.8 | 9.9 | 10.7 | 10.6 | 11.4 | 10.0 | 8.8 | 7.9 | 9.6 | 10.1 | |
| Gluten Index | 95 | 95 | 96 | 96 | 96 | 95 | 96 | 95 | 95 | 95 | 94 | 95 | |
| | 1 | | | | | | | | | | | | |
| 100 g BAKING TEST | | | | | | | | | | | | | |
| Baking water absorption, % | 63.2 | 61.1 | 60.1 | 61.3 | 62.3 | 62.1 | 62.5 | 60.9 | 59.9 | 59.2 | 60.5 | 61.2 | |
| Loaf volume, cm³ | 1185 | 1083 | 1036 | 1106 | 1140 | 1130 | 1189 | 1095 | 1023 | 958 | 1043 | 1104 | |
| Evaluation (see page 74) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | | | | | | | | | | | | |
| FARINOGRAM | 1 | | | F0 2 | F0 : | 00.5 | 60.7 | F0 - | l 50 - | l | l 50 5 | F0 - | |
| Water absorption (14% mb), % | 61.5 | 60.2 | 59.0 | 58.6 | 59.4 | 60.2 | 60.2 | 59.2 | 58.7 | 57.5 | 59.0 | 59.3 | |
| Development time, min | 6.0 | 5.3 | 5.4 | 4.9 | 4.9 | 5.4 | 6.4 | 5.2 | 5.0 | 4.0 | 5.0 | 5.6 | |
| Stability, mm Mixing tolerance index, BU | 8.7 38 | 7.5 41 | 7.8 41 | 8.7 33 | 7.7 48 | 8.1 41 | 9.2 36 | 8.1 37 | 7.7 39 | 7.8 | 7.9 36 | 8.5 36 | |
| | | 100 Farangem 100 100 100 100 100 100 100 100 100 100 | | | | | | Ferringsis. 90 90 90 90 90 90 90 90 90 90 90 | | | | | |
| | 300 | | | 10 12 | 14 1 | 16 18 20 | 300 | | | 89 E | | 10 | |

RSA Crop Quality 2019/20 and 2020/21 Seasons

| Country of origin | | RSA Crop Average 2019/20 | | | | | | | RSA Crop Averag | | | | | | |
|-------------------------------------|------------|--|------|-------------|--|---------|-------|-------------|--|----------|----------|----------|--|--|--|
| Class and Grade bread wheat | _ | B1 | B2 | В3 | cow | Average | Super | В1 | B2 | В3 | cow | Avera | | | |
| No. of samples | 25 | 13 | 9 | 4 | 15 | 69 | 21 | 9 | 7 | 5 | 7 | 49 | | | |
| ALVEOGRAM | | | | | | | | | | | | | | | |
| Strength (S), cm² | 47.3 | 39.8 | 36.8 | 40.2 | 41.3 | 42.6 | 43.2 | 37.1 | 33.4 | 30.9 | 35.2 | 38.3 | | | |
| Stability (P), mm | 83 | 82 | 80 | 74 | 72 | 79 | 75 | 74 | 77 | 77 | 76 | 75 | | | |
| Distensibility (L), mm | 146 | 127 | 117 | 148 | 163 | 143 | 147 | 126 | 111 | 97 | 119 | 129 | | | |
| P/L | 0.59 | 0.68 | 0.73 | 0.56 | 0.50 | 0.60 | 0.54 | 0.62 | 0.72 | 0.83 | 0.67 | 0.63 | | | |
| 172 | ж | H(mm) 1.00 0.00 0.00 | | | | | | | H (new) | | | | | | |
| | 150 | 3 III | | | | | | | 100- | | | | | | |
| | | <u> </u> | | | | | | | | | | | | | |
| | | 30 | | | | | | | 50 | | | | | | |
| | | | | | | | | | | | | | | | |
| | 0 | 0 50 100 130 / (hml) | | | | | | | 200 100 150 L(mm) | | | | | | |
| EXTENSOGRAM | 1 | | | | | | | | | | | | | | |
| Strength, cm² | 121 | 106 | 98 | 105 | 114 | 112 | 115 | 97 | 82 | 74 | 91 | 99 | | | |
| Max. height, BU | 387 | 382 | 375 | 381 | 383 | 383 | 390 | 366 | 324 | 315 | 342 | 362 | | | |
| Extensibility, mm | 223 | 201 | 190 | 197 | 216 | 211 | 217 | 195 | 182 | 170 | 192 | 200 | | | |
| | | | | Extensignen | <u> </u> | | 1950 | | | Edmogram | <u> </u> | <u> </u> | | | |
| | 900 | 1000 | | | | | | | 1000 | | | | | | |
| | 800 700 | | | | | | | | 100 | | | | | | |
| | 800 | | | | | | | | 600 | | | | | | |
| | 500 | | | | | | | | 506 | | | | | | |
| | 300 | | | | | | | | | | | | | | |
| | 200 | | | | | | | | 100 | | | | | | |
| | 0 9 | 100 0 15 10 15 20 25 30 | | | | | | | 0 t 10 25 | | | | | | |
| MIXOGRAM | 1000 | 11301 | 206 | | The state of the s | 2 3 | 0.000 | 1128 | - 126 | *2 | Vic . | SOLD II | | | |
| Peak time, min | 2.5 | 2.7 | 2.8 | 2.7 | 2.7 | 2.6 | 3.0 | 2.8 | 2.8 | 3.2 | 2.9 | 2.9 | | | |
| Water absorption (14% mb), % | 63.2 | 61.1 | 60.1 | 61.3 | 62.4 | 62.1 | 62.5 | 60.9 | 59.9 | 59.2 | 60.5 | 61.2 | | | |
| | | | | | | | | | +++++++++++++++++++++++++++++++++++++++ | | | | | | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | A PART OF THE PART | | | | | | |
| | | MANAGERS CO. 12 HATE PASS SECTION OF THE PASS | | | | | | | MINOCIDAN DE LATE DE SES 20 LATES SERVICE DE ANALYTICADO MANACIDE PERETE DE COMPANIONE DE LATE DE SES 20 MANACIDES PERETE DE DE COMPANIONE DE LATE DE SES 20 MINOCIDAN DE LATE DE COMPANIONE DE LATE DE SES 20 MINOCIDAN DE LATE DE COMPANIONE DE LATE DE SES 20 MINOCIDAN DE LATE DE COMPANIONE DE LATE DE COMPANIONE DE LATE DE COMPANIONE DE LATE DE | | | | | | |
| | | PLAN THAT PRATTY DOE PLAN THAT PRATTY DOE PLAN THAT PLAN THAT PLAN T | | | | | | | PROCEIN/PROCEIN (12% nb/s) | | | | | | |
| MYCOTOXINS | | | | | | | | | | | | | | | |
| Aflatoxin B ₁ (μg/kg) | | ND | | | | | | ND | | | | | | | |
| Aflatoxin B ₂ (μg/kg) | | ND | | | | | | ND | | | | | | | |
| Aflatoxin G ₁ (μg/kg) | | ND | | | | | | ND | | | | | | | |
| Aflatoxin G ₂ (μg/kg) | | ND | | | | | | ND | | | | | | | |
| Fumonisin B ₁ (μg/kg) | | ND | | | | | | ND | | | | | | | |
| Fumonisin B ₂ (μg/kg) | | ND | | | | | | ND | | | | | | | |
| Fumonisin B ₃ (µg/kg) | \top | ND | | | | | | ND | | | | | | | |
| Deoxynivalenol (µg/kg) [max. value] | 1 | <100 [1 017] | | | | | | 386 [3 088] | | | | | | | |
| Ochratoxin A (μg/kg) | | ND ND | | | | | | ND | | | | | | | |
| Zearalenone (µg/kg) | | <20 [29] | | | | | | ND | | | | | | | |
| HT-2 (μg/kg) | 1 | ND | | | | | | ND | | | | | | | |
| T-2 Toxin (μg/kg) | + | ND | | | | | | ND | | | | | | | |
| No. of samples | _ | 40 | | | | | | 30 | | | | | | | |