

**TABLE 18: PHYSICAL QUALITY FACTORS OF MAIZE IN TOTAL FOR 2007/2008**

| Number of samples       | Region                        | Hectolitre mass |             |                 | 100 kernel mass (g) |             |                   | Kernel size (%) |                  |             |                  |             |                | Breakage susceptibility (%) |                 |             |            |            |             | Stress cracks (%) |            |            | Milling index |          |           |             |             |              |  |
|-------------------------|-------------------------------|-----------------|-------------|-----------------|---------------------|-------------|-------------------|-----------------|------------------|-------------|------------------|-------------|----------------|-----------------------------|-----------------|-------------|------------|------------|-------------|-------------------|------------|------------|---------------|----------|-----------|-------------|-------------|--------------|--|
|                         |                               | kg/hl           |             | kernel mass (g) | kernel mass (g)     |             | Above 10 mm sieve |                 | Above 8 mm sieve |             | Below 8 mm sieve |             | < 6.3 mm sieve |                             | < 4.75 mm sieve |             | ave.       |            | min.        |                   | max.       |            | ave.          |          | min.      |             | max.        |              |  |
|                         |                               | ave.            | min.        | max.            | ave.                | min.        | max.              | ave.            | min.             | max.        | ave.             | min.        | max.           | ave.                        | min.            | max.        | ave.       | min.       | max.        | ave.              | min.       | max.       | ave.          | min.     | max.      | ave.        | min.        | max.         |  |
| <b>WHITE AND YELLOW</b> |                               |                 |             |                 |                     |             |                   |                 |                  |             |                  |             |                |                             |                 |             |            |            |             |                   |            |            |               |          |           |             |             |              |  |
| 25                      | Region 10                     | 76.8            | 74.4        | 78.3            | 34.6                | 29.1        | 37.0              | 5.0             | 2.4              | 7.5         | 70.3             | 56.3        | 77.6           | 24.7                        | 18.5            | 41.3        | 1.4        | 0.4        | 2.5         | 1.0               | 0.3        | 1.7        | 4             | 0        | 12        | 91.5        | 76.6        | 103.7        |  |
| 15                      | Region 11                     | 77.5            | 75.5        | 79.3            | 32.7                | 29.2        | 36.6              | 4.6             | 1.2              | 9.1         | 68.0             | 56.5        | 75.3           | 27.4                        | 15.6            | 38.5        | 1.9        | 1.2        | 2.7         | 1.4               | 0.6        | 2.3        | 5             | 0        | 11        | 84.5        | 76.6        | 100.9        |  |
| 11                      | Region 12                     | 77.3            | 70.8        | 79.0            | 35.3                | 30.0        | 42.9              | 17.5            | 5.9              | 30.5        | 69.0             | 61.8        | 76.7           | 13.5                        | 6.9             | 24.1        | 1.7        | 0.4        | 2.8         | 1.2               | 0.4        | 1.8        | 6             | 1        | 23        | 102.3       | 90.5        | 109.0        |  |
| 12                      | Region 13                     | 76.7            | 72.6        | 79.6            | 32.4                | 30.2        | 37.9              | 21.8            | 8.4              | 36.5        | 64.9             | 54.0        | 71.6           | 13.3                        | 6.9             | 20.1        | 2.4        | 0.5        | 9.7         | 1.5               | 0.2        | 7.3        | 3             | 0        | 8         | 102.0       | 85.3        | 111.1        |  |
| 30                      | Region 14                     | 78.2            | 65.3        | 81.6            | 32.9                | 17.0        | 38.3              | 23.8            | 1.0              | 46.7        | 63.8             | 34.8        | 71.7           | 12.4                        | 2.1             | 64.2        | 1.3        | 0.2        | 4.8         | 0.9               | 0.1        | 3.3        | 3             | 0        | 8         | 101.3       | 63.5        | 113.4        |  |
| 2                       | Region 15                     | 80.0            | 79.8        | 80.1            | 32.9                | 32.8        | 32.9              | 27.0            | 25.4             | 28.6        | 62.7             | 60.3        | 65.1           | 10.3                        | 9.5             | 11.1        | 0.8        | 0.8        | 0.8         | 0.6               | 0.6        | 0.6        | 1             | 0        | 2         | 101.0       | 99.0        | 102.9        |  |
| 26                      | Region 16                     | 78.0            | 74.8        | 79.9            | 34.0                | 25.4        | 39.3              | 25.1            | 14.9             | 40.0        | 65.1             | 55.2        | 76.2           | 9.9                         | 4.7             | 15.1        | 1.1        | 0.1        | 2.1         | 0.8               | 0.1        | 1.8        | 4             | 0        | 13        | 99.2        | 87.5        | 108.0        |  |
| 27                      | Region 17                     | 77.8            | 75.0        | 79.4            | 33.9                | 29.9        | 38.3              | 23.0            | 8.0              | 35.4        | 65.1             | 55.0        | 73.6           | 11.9                        | 5.2             | 20.2        | 1.2        | 0.3        | 2.8         | 0.9               | 0.3        | 2.0        | 3             | 0        | 9         | 100.4       | 89.2        | 111.9        |  |
| 26                      | Region 18                     | 78.3            | 77.0        | 79.3            | 34.6                | 26.9        | 38.6              | 22.4            | 5.0              | 40.3        | 63.8             | 53.4        | 72.1           | 13.7                        | 6.3             | 38.6        | 1.1        | 0.5        | 2.3         | 0.8               | 0.4        | 1.4        | 3             | 0        | 8         | 97.0        | 91.1        | 106.5        |  |
| 17                      | Region 19                     | 77.2            | 70.9        | 79.6            | 33.2                | 28.3        | 39.9              | 21.5            | 10.9             | 37.7        | 66.3             | 58.1        | 73.6           | 12.2                        | 3.9             | 24.0        | 1.6        | 0.5        | 4.1         | 1.2               | 0.4        | 2.9        | 4             | 1        | 9         | 101.9       | 93.1        | 111.1        |  |
| 21                      | Region 20                     | 77.3            | 74.4        | 79.8            | 34.0                | 30.1        | 37.7              | 21.3            | 5.6              | 43.1        | 64.5             | 53.0        | 72.9           | 14.1                        | 3.9             | 29.0        | 1.7        | 0.3        | 3.4         | 1.2               | 0.3        | 2.8        | 3             | 0        | 13        | 94.1        | 69.7        | 105.5        |  |
| 21                      | Region 21                     | 78.3            | 75.7        | 79.8            | 33.2                | 24.7        | 36.9              | 22.3            | 5.6              | 32.2        | 64.3             | 59.2        | 73.7           | 13.4                        | 7.5             | 28.8        | 1.1        | 0.5        | 2.1         | 0.8               | 0.3        | 1.7        | 3             | 0        | 10        | 96.4        | 82.5        | 109.5        |  |
| 18                      | Region 22                     | 78.1            | 74.4        | 79.6            | 33.7                | 28.6        | 36.7              | 26.5            | 11.9             | 37.3        | 62.9             | 55.5        | 70.2           | 10.7                        | 6.9             | 19.4        | 1.3        | 0.6        | 3.0         | 1.0               | 0.4        | 2.6        | 2             | 0        | 6         | 93.0        | 82.9        | 102.5        |  |
| 55                      | Region 23                     | 78.7            | 75.7        | 81.2            | 34.0                | 29.2        | 36.6              | 24.9            | 7.8              | 40.3        | 64.2             | 52.7        | 76.0           | 10.9                        | 3.9             | 23.3        | 1.0        | 0.1        | 3.1         | 0.8               | 0.1        | 2.3        | 3             | 0        | 16        | 97.6        | 80.2        | 109.3        |  |
| 52                      | Region 24                     | 78.8            | 76.5        | 80.6            | 34.1                | 28.2        | 38.1              | 26.0            | 4.8              | 48.3        | 64.0             | 48.1        | 74.0           | 10.0                        | 3.6             | 22.9        | 1.2        | 0.5        | 5.7         | 0.9               | 0.3        | 4.4        | 4             | 0        | 29        | 96.0        | 80.9        | 111.3        |  |
| 64                      | Region 25                     | 75.8            | 69.3        | 80.2            | 31.2                | 26.0        | 37.3              | 12.6            | 0.3              | 40.6        | 64.6             | 39.6        | 75.9           | 22.7                        | 6.9             | 60.1        | 2.9        | 0.4        | 11.1        | 2.0               | 0.4        | 7.9        | 10            | 0        | 44        | 89.8        | 68.7        | 114.6        |  |
| 38                      | Region 26                     | 77.3            | 70.2        | 80.1            | 31.8                | 24.7        | 35.2              | 15.5            | 0.5              | 26.6        | 65.5             | 23.3        | 84.2           | 19.0                        | 6.1             | 76.2        | 1.4        | 0.3        | 3.0         | 1.0               | 0.2        | 2.2        | 3             | 0        | 13        | 99.1        | 86.0        | 110.3        |  |
| 3                       | Region 27                     | 76.5            | 75.0        | 77.4            | 33.9                | 31.8        | 37.3              | 14.1            | 5.6              | 21.4        | 70.2             | 64.6        | 74.6           | 15.7                        | 10.2            | 23.0        | 5.0        | 0.4        | 8.0         | 2.8               | 0.2        | 4.5        | 30            | 13       | 43        | 95.5        | 86.9        | 100.1        |  |
| 21                      | Region 28                     | 77.0            | 74.5        | 79.0            | 32.4                | 27.7        | 37.1              | 19.3            | 3.7              | 31.9        | 65.4             | 56.9        | 76.5           | 15.3                        | 7.2             | 36.3        | 1.4        | 0.3        | 2.7         | 1.0               | 0.0        | 2.2        | 3             | 0        | 12        | 95.3        | 78.4        | 103.7        |  |
| 89                      | Region 29                     | 77.7            | 71.1        | 80.8            | 33.3                | 24.4        | 44.7              | 21.5            | 3.7              | 69.7        | 64.3             | 28.9        | 75.8           | 14.2                        | 1.4             | 32.6        | 1.4        | 0.1        | 10.2        | 1.0               | 0.0        | 6.6        | 4             | 0        | 38        | 97.9        | 67.0        | 115.4        |  |
| 112                     | Region 30                     | 77.4            | 74.0        | 80.6            | 32.8                | 25.7        | 39.2              | 16.8            | 2.4              | 35.2        | 65.9             | 44.8        | 79.3           | 17.3                        | 5.7             | 47.6        | 1.4        | 0.3        | 3.5         | 0.9               | 0.2        | 2.0        | 3             | 0        | 13        | 96.0        | 81.1        | 111.7        |  |
| 20                      | Region 31                     | 76.5            | 71.7        | 78.8            | 32.6                | 25.6        | 38.6              | 18.8            | 4.7              | 40.4        | 64.4             | 54.8        | 72.2           | 16.9                        | 4.8             | 35.0        | 2.2        | 0.6        | 4.5         | 1.4               | 0.5        | 2.5        | 5             | 1        | 19        | 97.4        | 80.3        | 110.8        |  |
| 43                      | Region 32                     | 77.8            | 74.8        | 80.7            | 35.8                | 30.6        | 41.2              | 26.6            | 9.4              | 47.9        | 63.4             | 49.0        | 74.3           | 10.0                        | 2.9             | 26.0        | 1.7        | 0.2        | 3.7         | 1.4               | 0.2        | 3.0        | 5             | 0        | 13        | 103.5       | 88.6        | 118.5        |  |
| 58                      | Region 33                     | 76.1            | 70.9        | 78.9            | 34.1                | 26.0        | 41.2              | 21.4            | 5.1              | 50.9        | 64.7             | 45.6        | 75.0           | 14.0                        | 2.8             | 33.2        | 2.4        | 0.6        | 15.2        | 1.6               | 0.3        | 8.3        | 6             | 0        | 58        | 97.3        | 78.0        | 113.6        |  |
| 43                      | Region 34                     | 78.0            | 74.4        | 80.3            | 36.1                | 26.7        | 45.6              | 26.4            | 6.2              | 57.1        | 63.2             | 41.3        | 76.9           | 10.4                        | 1.6             | 29.4        | 1.5        | 0.2        | 3.4         | 1.1               | 0.1        | 2.5        | 5             | 0        | 13        | 100.7       | 83.2        | 118.3        |  |
| 27                      | Region 35                     | 77.8            | 72.6        | 81.6            | 33.7                | 26.1        | 43.7              | 15.3            | 0.4              | 55.6        | 63.8             | 43.4        | 78.6           | 20.9                        | 1.0             | 46.2        | 1.2        | 0.2        | 4.2         | 0.9               | 0.0        | 3.6        | 3             | 0        | 10        | 93.3        | 63.6        | 117.4        |  |
| 24                      | Region 36                     | 77.3            | 75.4        | 79.9            | 34.6                | 28.8        | 40.2              | 19.2            | 0.5              | 44.2        | 64.0             | 48.1        | 71.0           | 16.8                        | 1.5             | 51.4        | 0.9        | 0.3        | 1.7         | 0.6               | 0.2        | 1.5        | 6             | 0        | 20        | 95.0        | 79.3        | 106.1        |  |
| <b>900</b>              | <b>Ave w &amp; y</b>          | <b>77.5</b>     | <b>65.3</b> | <b>81.6</b>     | <b>33.5</b>         | <b>17.0</b> | <b>45.6</b>       | <b>20.2</b>     | <b>0.3</b>       | <b>69.7</b> | <b>64.8</b>      | <b>23.3</b> | <b>84.2</b>    | <b>15.0</b>                 | <b>1.0</b>      | <b>76.2</b> | <b>1.5</b> | <b>0.1</b> | <b>15.2</b> | <b>1.1</b>        | <b>0.0</b> | <b>8.3</b> | <b>4</b>      | <b>0</b> | <b>58</b> | <b>96.9</b> | <b>63.5</b> | <b>118.5</b> |  |
|                         | <b>Min white &amp; yellow</b> |                 |             |                 |                     |             |                   |                 |                  |             |                  |             |                |                             |                 |             |            |            |             |                   |            |            |               |          |           |             |             |              |  |
|                         | <b>Max white &amp; yellow</b> |                 |             |                 |                     |             |                   |                 |                  |             |                  |             |                |                             |                 |             |            |            |             |                   |            |            |               |          |           |             |             |              |  |