

**TABLE 14: PHYSICAL QUALITY FACTORS OF MAIZE (2009/2010)**

| Number of samples | Region    | Hectolitre mass (kg/ht) |      |      | 100 kernel mass (g) |      |      | Kernel size (%)   |      |                  |      |                  |      | Breakage susceptibility (%) |      |                 |      |      |      | Stress cracks (%) |      |      | Milling index |      |      |       |      |       |
|-------------------|-----------|-------------------------|------|------|---------------------|------|------|-------------------|------|------------------|------|------------------|------|-----------------------------|------|-----------------|------|------|------|-------------------|------|------|---------------|------|------|-------|------|-------|
|                   |           | ave.                    | min. | max. | ave.                | min. | max. | Above 10 mm sieve |      | Above 8 mm sieve |      | Below 8 mm sieve |      | < 6.35 mm sieve             |      | < 4.75 mm sieve |      | ave. | min. | max.              | ave. | min. | max.          |      |      |       |      |       |
|                   |           |                         |      |      |                     |      |      | ave.              | min. | max.             | ave. | min.             | max. | ave.                        | min. | max.            | ave. |      |      |                   |      |      |               | min. | max. |       |      |       |
| <b>WHITE</b>      |           |                         |      |      |                     |      |      |                   |      |                  |      |                  |      |                             |      |                 |      |      |      |                   |      |      |               |      |      |       |      |       |
| 2                 | Region 11 | 79.1                    | 77.8 | 80.4 | 36.5                | 32.0 | 41.0 | 13.6              | 1.2  | 26.0             | 65.9 | 62.7             | 69.0 | 20.6                        | 5.0  | 36.1            | 2.3  | 1.7  | 2.9  | 1.7               | 1.4  | 2.0  | 6             | 5    | 7    | 109.0 | 98.8 | 119.1 |
| 11                | Region 12 | 78.4                    | 74.5 | 80.2 | 36.1                | 30.7 | 38.9 | 22.7              | 7.7  | 41.4             | 64.9 | 51.2             | 78.3 | 12.4                        | 4.0  | 22.7            | 1.3  | 0.5  | 2.1  | 1.1               | 0.2  | 1.8  | 3             | 0    | 7    | 88.0  | 80.4 | 99.2  |
| 9                 | Region 13 | 78.4                    | 73.4 | 80.4 | 34.8                | 33.1 | 37.0 | 30.0              | 14.5 | 44.0             | 61.8 | 50.9             | 72.0 | 8.2                         | 5.1  | 16.1            | 1.3  | 0.7  | 2.0  | 1.0               | 0.4  | 1.5  | 3             | 1    | 6    | 91.3  | 83.6 | 97.4  |
| 18                | Region 14 | 79.2                    | 76.9 | 81.7 | 36.2                | 33.2 | 39.7 | 25.2              | 4.0  | 36.1             | 64.3 | 56.1             | 70.2 | 10.6                        | 4.3  | 28.6            | 1.2  | 0.2  | 2.6  | 1.0               | 0.2  | 1.9  | 4             | 1    | 8    | 94.3  | 82.5 | 108.2 |
| 19                | Region 15 | 79.3                    | 77.0 | 84.4 | 36.4                | 34.2 | 39.7 | 33.8              | 24.6 | 40.3             | 58.2 | 50.0             | 69.3 | 8.0                         | 5.5  | 10.9            | 1.0  | 0.4  | 1.8  | 0.8               | 0.3  | 1.3  | 2             | 0    | 5    | 98.0  | 92.5 | 101.9 |
| 22                | Region 16 | 79.1                    | 78.0 | 80.5 | 36.6                | 34.1 | 39.1 | 31.4              | 24.8 | 44.3             | 60.8 | 51.4             | 69.0 | 7.8                         | 2.9  | 15.1            | 1.1  | 0.6  | 2.4  | 0.9               | 0.3  | 2.2  | 3             | 0    | 8    | 94.1  | 87.0 | 103.0 |
| 14                | Region 17 | 77.7                    | 75.4 | 79.6 | 35.4                | 32.5 | 39.0 | 21.7              | 13.1 | 31.7             | 67.2 | 60.3             | 72.0 | 11.1                        | 6.6  | 19.8            | 1.4  | 0.6  | 2.7  | 1.1               | 0.6  | 1.9  | 3             | 1    | 7    | 89.9  | 84.3 | 94.3  |
| 14                | Region 18 | 77.9                    | 76.5 | 78.8 | 35.6                | 30.5 | 39.3 | 22.3              | 1.9  | 34.2             | 63.9 | 57.7             | 74.5 | 13.8                        | 7.4  | 37.6            | 1.5  | 0.5  | 2.5  | 1.2               | 0.5  | 2.0  | 3             | 1    | 6    | 88.6  | 75.5 | 98.7  |
| 10                | Region 19 | 78.0                    | 77.3 | 78.8 | 35.3                | 33.5 | 37.8 | 20.0              | 13.0 | 28.8             | 66.3 | 61.7             | 74.4 | 13.7                        | 7.6  | 21.5            | 1.3  | 0.6  | 1.7  | 1.0               | 0.3  | 1.4  | 3             | 0    | 10   | 90.9  | 84.7 | 96.9  |
| 10                | Region 20 | 76.2                    | 60.2 | 78.9 | 36.4                | 33.6 | 41.1 | 26.6              | 17.0 | 31.9             | 61.9 | 53.8             | 67.7 | 11.4                        | 7.1  | 19.3            | 1.6  | 0.6  | 2.6  | 1.2               | 0.6  | 1.9  | 2             | 0    | 4    | 87.2  | 79.3 | 94.2  |
| 29                | Region 21 | 77.7                    | 74.7 | 80.0 | 35.5                | 29.9 | 59.1 | 24.4              | 12.5 | 90.7             | 63.8 | 9.2              | 73.8 | 11.8                        | 0.1  | 22.3            | 1.5  | 0.3  | 3.1  | 1.1               | 0.3  | 2.4  | 3             | 0    | 11   | 91.1  | 78.7 | 99.4  |
| 10                | Region 22 | 78.4                    | 74.9 | 80.3 | 35.6                | 31.5 | 40.3 | 32.1              | 20.4 | 45.9             | 58.8 | 49.7             | 69.2 | 9.2                         | 4.4  | 14.0            | 1.6  | 0.8  | 4.2  | 1.1               | 0.3  | 2.3  | 3             | 0    | 12   | 92.7  | 80.8 | 101.2 |
| 34                | Region 23 | 78.5                    | 73.4 | 80.9 | 35.7                | 29.5 | 41.9 | 29.0              | 6.3  | 53.6             | 62.0 | 44.0             | 82.0 | 9.0                         | 2.4  | 39.0            | 1.5  | 0.4  | 4.1  | 1.1               | 0.2  | 3.2  | 3             | 0    | 16   | 93.1  | 65.4 | 103.8 |
| 32                | Region 24 | 78.7                    | 73.4 | 80.9 | 35.6                | 31.0 | 39.4 | 27.6              | 1.7  | 46.8             | 61.7 | 50.4             | 75.8 | 10.8                        | 2.8  | 42.7            | 1.7  | 0.4  | 3.7  | 1.3               | 0.4  | 3.1  | 3             | 0    | 14   | 94.2  | 70.1 | 107.1 |
| 23                | Region 25 | 76.6                    | 72.6 | 79.9 | 36.2                | 29.6 | 43.9 | 28.3              | 7.8  | 55.8             | 60.6 | 38.7             | 72.0 | 11.1                        | 4.4  | 53.5            | 1.8  | 0.6  | 3.7  | 1.3               | 0.4  | 2.9  | 5             | 0    | 14   | 86.3  | 72.7 | 96.1  |
| 19                | Region 26 | 76.7                    | 73.9 | 80.2 | 33.3                | 29.6 | 37.4 | 17.5              | 3.4  | 41.9             | 65.7 | 53.3             | 75.8 | 16.9                        | 4.8  | 32.7            | 3.1  | 0.8  | 24.3 | 2.6               | 0.5  | 23.1 | 4             | 0    | 10   | 88.3  | 73.7 | 112.8 |
| 6                 | Region 27 | 77.4                    | 75.9 | 78.6 | 35.6                | 32.1 | 42.5 | 20.3              | 9.2  | 40.0             | 67.5 | 54.2             | 75.1 | 12.3                        | 5.8  | 19.5            | 2.5  | 1.0  | 4.9  | 1.7               | 0.8  | 3.5  | 12            | 2    | 36   | 88.2  | 77.6 | 98.2  |
| 40                | Region 28 | 77.3                    | 73.2 | 79.9 | 36.6                | 29.6 | 42.5 | 28.5              | 1.3  | 59.2             | 60.6 | 36.1             | 75.9 | 10.9                        | 1.6  | 35.1            | 2.0  | 0.3  | 20.4 | 1.4               | 0.3  | 12.3 | 4             | 0    | 9    | 87.0  | 70.8 | 100.2 |
| 33                | Region 29 | 77.7                    | 73.8 | 80.5 | 35.6                | 24.1 | 42.5 | 26.0              | 7.5  | 49.2             | 63.1 | 48.6             | 79.3 | 10.9                        | 2.2  | 27.6            | 1.3  | 0.2  | 4.9  | 1.0               | 0.1  | 3.8  | 4             | 0    | 16   | 90.7  | 72.5 | 107.6 |
| 18                | Region 30 | 76.9                    | 71.1 | 79.9 | 36.8                | 29.2 | 41.5 | 24.8              | 5.6  | 47.1             | 64.1 | 49.0             | 74.7 | 11.2                        | 3.1  | 23.3            | 1.6  | 0.4  | 3.2  | 1.2               | 0.4  | 3.1  | 6             | 0    | 21   | 94.6  | 79.9 | 107.2 |
| 14                | Region 31 | 78.5                    | 77.1 | 80.8 | 36.0                | 33.6 | 39.9 | 17.1              | 7.2  | 25.9             | 71.0 | 61.5             | 79.3 | 11.9                        | 3.9  | 18.2            | 0.9  | 0.4  | 1.3  | 0.8               | 0.2  | 1.2  | 3             | 0    | 8    | 93.3  | 77.6 | 103.4 |
| 26                | Region 32 | 78.4                    | 76.3 | 80.3 | 38.3                | 32.3 | 43.3 | 33.0              | 9.7  | 65.9             | 57.5 | 29.9             | 72.1 | 9.5                         | 3.8  | 22.7            | 1.5  | 0.5  | 2.6  | 1.1               | 0.4  | 2.2  | 3             | 0    | 8    | 89.8  | 82.8 | 97.8  |
| 5                 | Region 33 | 77.0                    | 75.6 | 78.2 | 39.6                | 36.8 | 42.0 | 35.7              | 23.2 | 48.7             | 56.6 | 47.4             | 69.0 | 7.7                         | 3.5  | 13.8            | 1.4  | 0.2  | 2.7  | 1.1               | 0.1  | 2.0  | 3             | 1    | 5    | 88.5  | 84.3 | 96.0  |
| 16                | Region 34 | 78.6                    | 77.6 | 80.7 | 38.0                | 33.9 | 41.3 | 28.8              | 7.1  | 45.3             | 61.2 | 48.4             | 72.9 | 10.0                        | 5.7  | 23.1            | 1.1  | 0.3  | 2.0  | 0.9               | 0.1  | 1.7  | 2             | 0    | 5    | 89.1  | 81.9 | 97.6  |
| 8                 | Region 35 | 78.2                    | 74.7 | 80.6 | 32.4                | 26.0 | 40.5 | 23.5              | 3.8  | 54.9             | 59.2 | 40.7             | 65.2 | 17.4                        | 4.4  | 38.3            | 1.6  | 0.8  | 2.9  | 1.2               | 0.5  | 2.3  | 3             | 1    | 7    | 95.8  | 84.4 | 105.0 |
| 16                | Region 36 | 77.2                    | 74.7 | 80.0 | 35.9                | 29.4 | 39.1 | 15.3              | 1.9  | 29.6             | 68.4 | 53.0             | 74.5 | 16.4                        | 8.8  | 35.3            | 1.4  | 0.5  | 4.3  | 1.1               | 0.5  | 3.0  | 7             | 0    | 28   | 98.3  | 90.3 | 111.0 |
| 458               | Ave white | 77.9                    |      |      | 36.0                |      |      | 26.3              |      |                  | 62.6 |                  |      | 11.2                        |      |                 | 1.5  |      |      | 1.2               |      |      | 4             |      |      | 91.4  |      |       |
|                   | Min white | 60.2                    |      |      | 24.1                |      |      | 1.2               |      |                  | 9.2  |                  |      | 0.1                         |      |                 | 0.2  |      |      | 0.1               |      |      | 0             |      |      | 65.4  |      |       |
|                   | Max white | 84.4                    |      |      | 59.1                |      |      | 90.7              |      |                  | 82.0 |                  |      | 53.5                        |      |                 | 24.3 |      |      | 23.1              |      |      | 36            |      |      | 119.1 |      |       |

**TABLE 14: PHYSICAL QUALITY FACTORS OF MAIZE (2009/2010)**

| Number of samples | Region     | Hectolitre mass (kg/ht) |      |      | 100 kernel mass (g) |      |      | Kernel size (%)   |                  |                  | Breakage susceptibility (%) |      |                 |      |      |      | Stress cracks (%) |      |      | Milling index |      |      |   |   |    |       |      |       |  |
|-------------------|------------|-------------------------|------|------|---------------------|------|------|-------------------|------------------|------------------|-----------------------------|------|-----------------|------|------|------|-------------------|------|------|---------------|------|------|---|---|----|-------|------|-------|--|
|                   |            | ave.                    | min. | max. | ave.                | min. | max. | Above 10 mm sieve | Above 8 mm sieve | Below 8 mm sieve | < 6.35 mm sieve             |      | < 4.75 mm sieve |      | ave. | min. | max.              | ave. | min. | max.          |      |      |   |   |    |       |      |       |  |
|                   |            |                         |      |      |                     |      |      |                   |                  |                  | ave.                        | min. | max.            | ave. |      |      |                   |      |      |               | min. | max. |   |   |    |       |      |       |  |
| 27                | Region 10  | 77.5                    | 74.2 | 79.6 | 35.5                | 31.9 | 40.4 | 4.8               | 2.3              | 7.3              | 71.6                        | 56.6 | 78.9            | 23.5 | 15.4 | 36.1 | 2.1               | 0.7  | 9.2  | 1.7           | 0.5  | 8.4  | 7 | 1 | 20 | 84.2  | 68.1 | 96.7  |  |
| 4                 | Region 11  | 77.2                    | 75.7 | 78.9 | 34.3                | 30.3 | 39.1 | 6.2               | 1.6              | 17.4             | 65.9                        | 55.2 | 72.6            | 27.9 | 11.2 | 43.2 | 2.1               | 1.3  | 3.3  | 1.5           | 1.0  | 2.2  | 3 | 0 | 6  | 83.4  | 75.8 | 88.4  |  |
| 8                 | Region 12  | 76.7                    | 74.8 | 78.2 | 31.3                | 26.1 | 34.6 | 11.9              | 4.1              | 22.7             | 69.2                        | 62.8 | 75.8            | 19.0 | 14.4 | 28.1 | 1.8               | 0.9  | 2.4  | 1.3           | 0.7  | 1.9  | 3 | 0 | 5  | 85.1  | 77.3 | 93.0  |  |
| 6                 | Region 13  | 77.2                    | 76.4 | 78.1 | 32.3                | 29.9 | 34.6 | 14.5              | 6.4              | 22.9             | 70.1                        | 67.3 | 74.3            | 15.4 | 9.3  | 19.3 | 1.9               | 1.2  | 2.7  | 1.5           | 1.1  | 2.3  | 3 | 2 | 3  | 91.1  | 81.0 | 95.4  |  |
| 10                | Region 14  | 76.1                    | 69.0 | 78.7 | 32.5                | 29.6 | 34.4 | 14.7              | 11.6             | 22.8             | 69.7                        | 63.1 | 75.1            | 15.6 | 11.7 | 25.3 | 2.1               | 1.2  | 3.7  | 1.7           | 1.0  | 3.0  | 3 | 0 | 7  | 88.6  | 75.3 | 104.3 |  |
| 4                 | Region 15  | 77.2                    | 76.7 | 77.6 | 34.2                | 32.7 | 35.9 | 11.1              | 3.6              | 21.9             | 69.3                        | 60.3 | 73.4            | 19.6 | 13.9 | 23.8 | 2.4               | 1.8  | 2.8  | 2.0           | 1.4  | 2.5  | 7 | 1 | 11 | 91.5  | 81.5 | 100.2 |  |
| 5                 | Region 16  | 75.6                    | 73.7 | 77.1 | 33.5                | 32.4 | 35.1 | 17.1              | 14.2             | 22.0             | 70.4                        | 68.7 | 72.1            | 12.5 | 7.2  | 15.4 | 2.3               | 1.8  | 3.5  | 1.8           | 1.3  | 2.8  | 4 | 3 | 6  | 91.0  | 83.2 | 95.2  |  |
| 6                 | Region 17  | 76.4                    | 75.4 | 77.2 | 32.1                | 30.4 | 33.5 | 17.6              | 12.3             | 26.0             | 69.5                        | 66.9 | 73.5            | 12.9 | 6.4  | 20.8 | 1.9               | 1.1  | 2.6  | 1.4           | 0.9  | 2.1  | 3 | 1 | 7  | 90.6  | 83.1 | 102.5 |  |
| 8                 | Region 18  | 76.5                    | 74.3 | 80.1 | 33.0                | 30.3 | 38.2 | 15.7              | 1.9              | 19.9             | 70.0                        | 65.7 | 75.9            | 14.3 | 5.3  | 26.5 | 1.9               | 0.6  | 3.3  | 1.5           | 0.5  | 2.8  | 4 | 1 | 8  | 87.8  | 70.4 | 97.2  |  |
| 4                 | Region 19  | 76.7                    | 75.6 | 77.8 | 32.0                | 31.6 | 32.6 | 13.4              | 8.3              | 17.4             | 72.3                        | 68.7 | 75.1            | 14.3 | 9.2  | 18.0 | 1.9               | 1.2  | 2.9  | 1.6           | 1.0  | 2.5  | 3 | 1 | 4  | 92.1  | 80.5 | 99.9  |  |
| 9                 | Region 20  | 76.8                    | 75.8 | 78.7 | 33.3                | 29.6 | 38.9 | 17.0              | 6.7              | 28.5             | 68.3                        | 62.9 | 72.6            | 14.7 | 5.5  | 27.5 | 2.0               | 1.6  | 3.8  | 1.4           | 1.2  | 2.4  | 3 | 0 | 8  | 88.1  | 80.6 | 92.5  |  |
| 9                 | Region 21  | 76.1                    | 72.3 | 77.5 | 31.8                | 27.1 | 36.0 | 12.0              | 1.2              | 16.6             | 69.1                        | 65.7 | 71.7            | 18.9 | 13.4 | 32.7 | 2.0               | 1.1  | 3.5  | 1.6           | 0.6  | 2.6  | 2 | 0 | 6  | 89.3  | 52.7 | 104.7 |  |
| 3                 | Region 22  | 75.8                    | 74.2 | 76.9 | 32.0                | 30.3 | 35.0 | 11.6              | 8.9              | 13.8             | 70.8                        | 69.2 | 72.1            | 17.6 | 14.1 | 21.9 | 1.4               | 1.2  | 1.7  | 1.1           | 0.7  | 1.6  | 3 | 2 | 4  | 80.2  | 55.5 | 96.3  |  |
| 10                | Region 23  | 77.7                    | 75.6 | 80.6 | 34.8                | 32.1 | 39.3 | 18.1              | 7.3              | 35.6             | 68.8                        | 56.3 | 74.2            | 13.1 | 4.0  | 26.0 | 1.8               | 0.8  | 3.0  | 1.5           | 0.7  | 2.4  | 4 | 0 | 9  | 101.0 | 82.2 | 117.3 |  |
| 7                 | Region 24  | 76.2                    | 73.9 | 79.1 | 31.8                | 23.3 | 35.3 | 14.3              | 8.6              | 22.4             | 71.0                        | 65.1 | 78.7            | 14.7 | 10.6 | 22.9 | 2.2               | 0.6  | 5.3  | 1.6           | 0.6  | 3.2  | 7 | 0 | 13 | 88.6  | 72.5 | 98.0  |  |
| 31                | Region 25  | 76.8                    | 70.0 | 79.1 | 34.3                | 28.7 | 37.4 | 15.3              | 2.7              | 31.4             | 67.9                        | 54.3 | 73.5            | 16.7 | 6.6  | 42.5 | 2.1               | 0.5  | 5.1  | 1.5           | 0.4  | 3.2  | 5 | 0 | 11 | 88.5  | 76.2 | 97.3  |  |
| 18                | Region 26  | 76.5                    | 74.9 | 78.0 | 30.5                | 26.1 | 36.5 | 11.7              | 6.2              | 22.2             | 67.3                        | 56.2 | 76.4            | 21.0 | 12.0 | 32.6 | 2.2               | 0.9  | 4.5  | 1.6           | 0.6  | 3.0  | 6 | 2 | 12 | 87.3  | 75.8 | 101.5 |  |
| 10                | Region 27  | 76.4                    | 75.5 | 77.6 | 34.0                | 28.7 | 38.4 | 17.3              | 5.9              | 33.9             | 69.0                        | 59.3 | 75.0            | 13.7 | 6.8  | 24.4 | 2.8               | 1.6  | 5.4  | 2.1           | 1.1  | 3.7  | 7 | 0 | 15 | 90.0  | 75.3 | 101.0 |  |
| 64                | Region 28  | 75.9                    | 71.2 | 78.4 | 32.1                | 26.2 | 36.2 | 14.7              | 0.0              | 37.5             | 68.1                        | 52.3 | 77.0            | 17.2 | 6.6  | 47.7 | 2.6               | 0.7  | 10.3 | 1.9           | 0.6  | 7.1  | 7 | 1 | 27 | 86.7  | 70.7 | 101.7 |  |
| 40                | Region 29  | 76.6                    | 70.8 | 79.3 | 31.9                | 25.3 | 37.8 | 13.4              | 3.2              | 30.8             | 68.0                        | 56.1 | 75.4            | 18.7 | 5.6  | 36.1 | 2.0               | 0.5  | 5.2  | 1.5           | 0.4  | 3.7  | 5 | 0 | 20 | 90.8  | 78.6 | 103.2 |  |
| 13                | Region 30  | 76.1                    | 72.9 | 78.0 | 32.6                | 29.7 | 36.1 | 13.4              | 7.8              | 24.6             | 69.6                        | 57.6 | 79.9            | 17.0 | 5.8  | 28.0 | 1.8               | 0.9  | 3.0  | 1.3           | 0.6  | 2.2  | 6 | 1 | 18 | 91.1  | 74.0 | 101.2 |  |
| 13                | Region 31  | 78.0                    | 75.4 | 81.6 | 34.3                | 30.9 | 39.4 | 18.7              | 10.5             | 38.7             | 66.6                        | 55.0 | 73.0            | 14.8 | 6.3  | 25.4 | 1.7               | 1.1  | 2.8  | 1.3           | 0.7  | 2.4  | 4 | 0 | 8  | 93.9  | 82.7 | 105.0 |  |
| 9                 | Region 32  | 77.3                    | 76.0 | 79.4 | 35.1                | 32.1 | 42.5 | 22.4              | 10.0             | 34.9             | 65.5                        | 59.8 | 73.3            | 12.1 | 5.3  | 19.2 | 2.1               | 1.0  | 3.3  | 1.7           | 1.0  | 2.4  | 4 | 1 | 8  | 88.8  | 80.0 | 93.8  |  |
| 10                | Region 34  | 77.7                    | 76.3 | 78.9 | 35.4                | 32.3 | 38.5 | 21.9              | 11.6             | 32.3             | 66.6                        | 60.0 | 76.9            | 11.5 | 4.9  | 17.7 | 1.3               | 0.4  | 2.3  | 1.0           | 0.3  | 1.7  | 3 | 0 | 5  | 91.9  | 87.8 | 101.1 |  |
| 5                 | Region 35  | 76.2                    | 74.1 | 78.7 | 31.8                | 30.4 | 35.3 | 11.9              | 5.9              | 15.1             | 66.5                        | 56.2 | 74.3            | 21.6 | 14.4 | 28.7 | 2.5               | 2.0  | 3.3  | 2.0           | 1.8  | 2.4  | 4 | 1 | 6  | 87.9  | 75.4 | 96.8  |  |
| 9                 | Region 36  | 76.3                    | 73.7 | 77.9 | 34.7                | 31.6 | 37.9 | 19.0              | 6.4              | 41.7             | 66.4                        | 50.9 | 73.7            | 14.6 | 7.4  | 29.5 | 1.7               | 0.7  | 2.9  | 1.2           | 0.7  | 2.0  | 5 | 1 | 11 | 86.8  | 67.1 | 103.4 |  |
| 342               | Ave yellow | 76.6                    | 69.0 | 81.6 | 33.0                | 23.3 | 42.5 | 14.3              | 0.0              | 41.7             | 68.5                        | 50.9 | 79.9            | 17.2 | 4.0  | 47.7 | 2.1               | 0.4  | 10.3 | 1.6           | 0.3  | 8.4  | 5 | 0 | 27 | 88.8  | 52.7 | 117.3 |  |
|                   | Min yellow |                         |      |      |                     |      |      |                   |                  |                  |                             |      |                 |      |      |      |                   |      |      |               |      |      |   |   |    |       |      |       |  |
|                   | Max yellow |                         |      |      |                     |      |      |                   |                  |                  |                             |      |                 |      |      |      |                   |      |      |               |      |      |   |   |    |       |      |       |  |

**TABLE 14: PHYSICAL QUALITY FACTORS OF MAIZE FOR (2009/2010)**

| Number of samples | Region                        | Hectolitre mass (kg/hl) |      |      | 100 kernel mass (g) |      |             | Kernel size (%)   |             |                  |             |                  |             | Breakage susceptibility (%) |             |                 |            |             |             | Stress cracks (%) |             |             | Milling index |          |           |             |             |              |  |
|-------------------|-------------------------------|-------------------------|------|------|---------------------|------|-------------|-------------------|-------------|------------------|-------------|------------------|-------------|-----------------------------|-------------|-----------------|------------|-------------|-------------|-------------------|-------------|-------------|---------------|----------|-----------|-------------|-------------|--------------|--|
|                   |                               | ave.                    | min. | max. | ave.                | min. | max.        | Above 10 mm sieve |             | Above 8 mm sieve |             | Below 8 mm sieve |             | < 6.35 mm sieve             |             | < 4.75 mm sieve |            | ave.        | min.        | max.              | ave.        | min.        | max.          |          |           |             |             |              |  |
|                   |                               |                         |      |      |                     |      |             | ave.              | min.        | max.             | ave.        | min.             | max.        | ave.                        | min.        | max.            | ave.       |             |             |                   |             |             |               | min.     | max.      |             |             |              |  |
| 27                | Region 10                     | 77.5                    | 74.2 | 79.6 | 35.5                | 31.9 | 40.4        | 4.8               | 2.3         | 7.3              | 71.6        | 56.6             | 78.9        | 23.5                        | 15.4        | 36.1            | 2.1        | 0.7         | 9.2         | 1.7               | 0.5         | 8.4         | 7             | 1        | 20        | 84.2        | 68.1        | 96.7         |  |
| 6                 | Region 11                     | 77.8                    | 75.7 | 80.4 | 35.0                | 30.3 | 41.0        | 8.7               | 1.2         | 26.0             | 65.9        | 55.2             | 72.6        | 25.5                        | 5.0         | 43.2            | 2.2        | 1.3         | 3.3         | 1.6               | 1.0         | 2.2         | 4             | 0        | 7         | 91.9        | 75.8        | 119.1        |  |
| 19                | Region 12                     | 77.7                    | 74.5 | 80.2 | 34.0                | 26.1 | 38.9        | 18.1              | 4.1         | 41.4             | 66.7        | 51.2             | 78.3        | 15.2                        | 4.0         | 28.1            | 1.5        | 0.5         | 2.4         | 1.2               | 0.2         | 1.9         | 3             | 0        | 7         | 86.8        | 77.3        | 99.2         |  |
| 15                | Region 13                     | 77.9                    | 73.4 | 80.4 | 33.8                | 29.9 | 37.0        | 23.8              | 6.4         | 44.0             | 65.1        | 50.9             | 74.3        | 11.1                        | 5.1         | 19.3            | 1.5        | 0.7         | 2.7         | 1.2               | 0.4         | 2.3         | 3             | 1        | 6         | 91.2        | 81.0        | 97.4         |  |
| 28                | Region 14                     | 78.1                    | 69.0 | 81.7 | 34.9                | 29.6 | 39.7        | 21.4              | 4.0         | 36.1             | 66.2        | 56.1             | 75.1        | 12.4                        | 4.3         | 28.6            | 1.5        | 0.2         | 3.7         | 1.3               | 0.2         | 3.0         | 4             | 0        | 8         | 92.3        | 75.3        | 108.2        |  |
| 23                | Region 15                     | 78.9                    | 76.7 | 84.4 | 36.0                | 32.7 | 39.7        | 29.8              | 3.6         | 40.3             | 60.1        | 50.0             | 73.4        | 10.0                        | 5.5         | 23.8            | 1.2        | 0.4         | 2.8         | 1.0               | 0.3         | 2.5         | 3             | 0        | 11        | 96.8        | 81.5        | 101.9        |  |
| 27                | Region 16                     | 78.4                    | 73.7 | 80.5 | 36.0                | 32.4 | 39.1        | 28.7              | 14.2        | 44.3             | 62.6        | 51.4             | 72.1        | 8.7                         | 2.9         | 15.4            | 1.4        | 0.6         | 3.5         | 1.1               | 0.3         | 2.8         | 3             | 0        | 8         | 93.5        | 83.2        | 103.0        |  |
| 20                | Region 17                     | 77.3                    | 75.4 | 79.6 | 34.4                | 30.4 | 39.0        | 20.5              | 12.3        | 31.7             | 67.9        | 60.3             | 73.5        | 11.6                        | 6.4         | 20.8            | 1.6        | 0.6         | 2.7         | 1.2               | 0.6         | 2.1         | 3             | 1        | 7         | 90.1        | 83.1        | 102.5        |  |
| 22                | Region 18                     | 77.3                    | 74.3 | 80.1 | 34.6                | 30.3 | 39.3        | 19.9              | 1.9         | 34.2             | 66.1        | 57.7             | 75.9        | 14.0                        | 5.3         | 37.6            | 1.7        | 0.5         | 3.3         | 1.3               | 0.5         | 2.8         | 3             | 1        | 8         | 88.3        | 70.4        | 98.7         |  |
| 14                | Region 19                     | 77.6                    | 75.6 | 78.8 | 34.3                | 31.6 | 37.8        | 18.1              | 8.3         | 28.8             | 68.0        | 61.7             | 75.1        | 13.9                        | 7.6         | 21.5            | 1.5        | 0.6         | 2.9         | 1.1               | 0.3         | 2.5         | 3             | 0        | 10        | 91.2        | 80.5        | 99.9         |  |
| 19                | Region 20                     | 76.4                    | 60.2 | 78.9 | 35.0                | 29.6 | 41.1        | 22.1              | 6.7         | 31.9             | 64.9        | 53.8             | 72.6        | 13.0                        | 5.5         | 27.5            | 1.8        | 0.6         | 3.8         | 1.3               | 0.6         | 2.4         | 2             | 0        | 8         | 87.7        | 79.3        | 94.2         |  |
| 38                | Region 21                     | 77.4                    | 72.3 | 80.0 | 34.6                | 27.1 | 59.1        | 21.5              | 1.2         | 90.7             | 65.0        | 9.2              | 73.8        | 13.5                        | 0.1         | 32.7            | 1.6        | 0.3         | 3.5         | 1.2               | 0.3         | 2.6         | 3             | 0        | 11        | 90.7        | 52.7        | 104.7        |  |
| 13                | Region 22                     | 77.8                    | 74.2 | 80.3 | 34.8                | 30.3 | 40.3        | 27.3              | 8.9         | 45.9             | 61.6        | 49.7             | 72.1        | 11.1                        | 4.4         | 21.9            | 1.6        | 0.8         | 4.2         | 1.1               | 0.3         | 2.3         | 3             | 0        | 12        | 89.8        | 55.5        | 101.2        |  |
| 44                | Region 23                     | 78.3                    | 73.4 | 80.9 | 35.5                | 29.5 | 41.9        | 26.5              | 6.3         | 53.6             | 63.6        | 44.0             | 82.0        | 9.9                         | 2.4         | 39.0            | 1.6        | 0.4         | 4.1         | 1.2               | 0.2         | 3.2         | 3             | 0        | 16        | 94.9        | 65.4        | 117.3        |  |
| 39                | Region 24                     | 78.2                    | 73.4 | 80.9 | 34.9                | 23.3 | 39.4        | 25.2              | 1.7         | 46.8             | 63.3        | 50.4             | 78.7        | 11.5                        | 2.8         | 42.7            | 1.8        | 0.4         | 5.3         | 1.3               | 0.4         | 3.2         | 4             | 0        | 14        | 93.2        | 70.1        | 107.1        |  |
| 54                | Region 25                     | 76.7                    | 70.0 | 79.9 | 35.1                | 28.7 | 43.9        | 20.8              | 2.7         | 55.8             | 64.8        | 38.7             | 73.5        | 14.3                        | 4.4         | 53.5            | 2.0        | 0.5         | 5.1         | 1.4               | 0.4         | 3.2         | 5             | 0        | 14        | 87.6        | 72.7        | 97.3         |  |
| 37                | Region 26                     | 76.6                    | 73.9 | 80.2 | 31.9                | 26.1 | 37.4        | 14.6              | 3.4         | 41.9             | 66.5        | 53.3             | 76.4        | 18.9                        | 4.8         | 32.7            | 2.6        | 0.8         | 24.3        | 2.1               | 0.5         | 23.1        | 5             | 0        | 12        | 87.8        | 73.7        | 112.8        |  |
| 16                | Region 27                     | 76.8                    | 75.5 | 78.6 | 34.6                | 28.7 | 42.5        | 18.4              | 5.9         | 40.0             | 68.4        | 54.2             | 75.1        | 13.2                        | 5.8         | 24.4            | 2.7        | 1.0         | 5.4         | 1.9               | 0.8         | 3.7         | 9             | 0        | 36        | 89.4        | 75.3        | 101.0        |  |
| 104               | Region 28                     | 76.5                    | 71.2 | 79.9 | 33.8                | 26.2 | 42.5        | 20.0              | 0.0         | 59.2             | 65.2        | 36.1             | 77.0        | 14.8                        | 1.6         | 47.7            | 2.4        | 0.3         | 20.4        | 1.7               | 0.3         | 12.3        | 5             | 0        | 27        | 86.8        | 70.7        | 101.7        |  |
| 73                | Region 29                     | 77.1                    | 70.8 | 80.5 | 33.6                | 24.1 | 42.5        | 19.1              | 3.2         | 49.2             | 65.8        | 48.6             | 79.3        | 15.1                        | 2.2         | 36.1            | 1.7        | 0.2         | 5.2         | 1.3               | 0.1         | 3.8         | 5             | 0        | 20        | 90.8        | 72.5        | 107.6        |  |
| 31                | Region 30                     | 76.6                    | 71.1 | 79.9 | 35.1                | 29.2 | 41.5        | 20.0              | 5.6         | 47.1             | 66.4        | 49.0             | 79.9        | 13.6                        | 3.1         | 28.0            | 1.7        | 0.4         | 3.2         | 1.2               | 0.4         | 3.1         | 6             | 0        | 21        | 93.1        | 74.0        | 107.2        |  |
| 27                | Region 31                     | 78.2                    | 75.4 | 81.6 | 35.2                | 30.9 | 39.9        | 17.9              | 7.2         | 38.7             | 68.8        | 55.0             | 79.3        | 13.3                        | 3.9         | 25.4            | 1.3        | 0.4         | 2.8         | 1.1               | 0.2         | 2.4         | 3             | 0        | 8         | 93.6        | 77.6        | 105.0        |  |
| 35                | Region 32                     | 78.1                    | 76.0 | 80.3 | 37.5                | 32.1 | 43.3        | 30.3              | 9.7         | 65.9             | 59.6        | 29.9             | 73.3        | 10.2                        | 3.8         | 22.7            | 1.6        | 0.5         | 3.3         | 1.2               | 0.4         | 2.4         | 3             | 0        | 8         | 89.6        | 80.0        | 97.8         |  |
| 5                 | Region 33                     | 77.0                    | 75.6 | 78.2 | 39.6                | 36.8 | 42.0        | 35.7              | 23.2        | 48.7             | 56.6        | 47.4             | 69.0        | 7.7                         | 3.5         | 13.8            | 1.4        | 0.2         | 2.7         | 1.1               | 0.1         | 2.0         | 3             | 1        | 5         | 88.5        | 84.3        | 96.0         |  |
| 26                | Region 34                     | 78.2                    | 76.3 | 80.7 | 37.0                | 32.3 | 41.3        | 26.1              | 7.1         | 45.3             | 63.3        | 48.4             | 76.9        | 10.6                        | 4.9         | 23.1            | 1.1        | 0.3         | 2.3         | 1.0               | 0.1         | 1.7         | 2             | 0        | 5         | 90.2        | 81.9        | 101.1        |  |
| 13                | Region 35                     | 77.4                    | 74.1 | 80.6 | 32.2                | 26.0 | 40.5        | 19.0              | 3.8         | 54.9             | 62.0        | 40.7             | 74.3        | 19.0                        | 4.4         | 38.3            | 2.0        | 0.8         | 3.3         | 1.5               | 0.5         | 2.4         | 3             | 1        | 7         | 92.8        | 75.4        | 105.0        |  |
| 25                | Region 36                     | 76.9                    | 73.7 | 80.0 | 35.5                | 29.4 | 39.1        | 16.6              | 1.9         | 41.7             | 67.7        | 50.9             | 74.5        | 15.7                        | 7.4         | 35.3            | 1.5        | 0.5         | 4.3         | 1.1               | 0.5         | 3.0         | 6             | 0        | 28        | 94.2        | 67.1        | 111.0        |  |
| <b>800</b>        | <b>Ave w &amp; y</b>          | <b>77.4</b>             |      |      | <b>34.7</b>         |      | <b>23.3</b> | <b>21.1</b>       | <b>0.0</b>  | <b>90.7</b>      | <b>65.1</b> | <b>9.2</b>       | <b>82.0</b> | <b>13.7</b>                 | <b>0.1</b>  | <b>53.5</b>     | <b>1.8</b> | <b>0.2</b>  | <b>24.3</b> | <b>1.4</b>        | <b>0.1</b>  | <b>23.1</b> | <b>4</b>      | <b>0</b> | <b>36</b> | <b>90.3</b> | <b>52.7</b> | <b>119.1</b> |  |
|                   | <b>Min white &amp; yellow</b> | <b>60.2</b>             |      |      |                     |      |             |                   |             |                  |             |                  |             |                             |             |                 |            |             |             |                   |             |             |               |          |           |             |             |              |  |
|                   | <b>Max white &amp; yellow</b> | <b>84.4</b>             |      |      |                     |      | <b>59.1</b> | <b>0.0</b>        | <b>90.7</b> |                  | <b>9.2</b>  | <b>82.0</b>      |             | <b>0.1</b>                  | <b>53.5</b> |                 | <b>0.2</b> | <b>24.3</b> |             | <b>0.1</b>        | <b>23.1</b> |             | <b>0</b>      |          | <b>36</b> |             | <b>52.7</b> | <b>119.1</b> |  |