



# AGROMETEOROLOGICAL BULLETIN

*December 2017*  
*2nd 10-day period*

- Temperature
- Relative Humidity
- Soil Temperature
- Sunshine Duration
- Precipitation
- Evaporation
- Growing Degrees
- Reference Evapotranspiration
- Accumulated Rainfall from the beginning of wet period
- Accumulated Reference Evapotranspiration
- Number of dry days



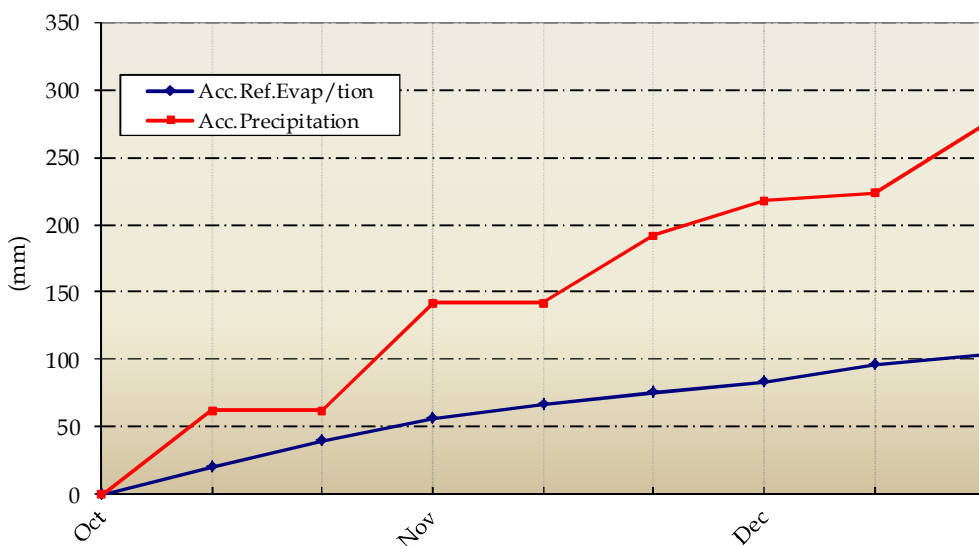
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*Web adresses of HNMS*  
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| 2nd 10-day period<br>(11-20/12/2017) |        | 11   | 12   | 13   | 14   | 15   | 16   | 17   | 18   | 19  | 20  | Mean Value<br>or Sum | Previous Year<br>Value | Past Years<br>Mean Value |
|--------------------------------------|--------|------|------|------|------|------|------|------|------|-----|-----|----------------------|------------------------|--------------------------|
| Temperature                          | Max    | 15.2 | 16.4 | 16.2 | 17.0 | 17.0 | 18.0 | 16.8 | 9.6  | 6.4 | 7.2 | 14.0                 | 9.1                    | 10.6                     |
|                                      | Min    | -0.4 | 5.2  | 6.2  | 9.4  | 6.4  | 12.4 | 9.6  | 4.4  | 2.2 | 0.4 | 5.6                  | -3.0                   | 3.1                      |
| Relative Humidity                    | Max    | 93   | 95   | 97   | 95   | 94   | 93   | 96   | 94   | 92  | 88  | 94                   | 83                     | -                        |
|                                      | Min    | 50   | 66   | 75   | 75   | 60   | 80   | 83   | 75   | 70  | 64  | 70                   | 42                     | -                        |
| Soil Temperature at 10 cm            | 06 UTC | 6.6  | 8.0  | 9.0  | 10.6 | 9.4  | 12.4 | 13.4 | 10.2 | 7.6 | 5.2 | 9.2                  | 3.4                    | 6.3                      |
|                                      | 12 UTC | 12.0 | 11.0 | 11.2 | 12.6 | 12.0 | 13.6 | 13.4 | 10.0 | 8.4 | 6.4 | 11.1                 | 5.8                    | 7.5                      |
| Sunshine Duration                    |        | 8.5  | 8.4  | 7.2  | 7.0  | 7.6  | 5.7  | 0.0  | 1.7  | 2.3 | 8.1 | 5.6                  | 5.5                    | 2.5                      |
| Precipitation                        |        |      |      |      |      |      | 1.9  | 44.3 | 2.8  | 2.4 |     | 51.4                 | 0.0                    | 23.7                     |
| Evaporation                          |        | 2.0  | 1.2  | 0.8  | 1.2  | 1.8  | 0.4  | 1.7  | 1.2  | 0.0 | 0.0 | 10.3                 | 3.6                    | 11.7                     |
| Growing Degrees                      | 5      | 2.4  | 5.8  | 6.2  | 8.2  | 6.7  | 10.2 | 8.2  | 2.0  | 0.0 | 0.0 | 49.7                 | 8.9                    | 26.7                     |
|                                      | 10     | 0.0  | 0.8  | 1.2  | 3.2  | 1.7  | 5.2  | 3.2  | 0.0  | 0.0 | 0.0 | 15.3                 | 0.2                    | 5.3                      |

| 2nd 10-day period<br>(11-20/12/2017)         |      | Previous Year<br>Value | Past Years<br>Mean Value |
|--|------|------------------------|--------------------------|
| Reference Evapotranspiration                 | 7.4  | 8.0                    | 8.1                      |
| Precipitation - Reference Evapotranspiration | 44.0 | -8.0                   | 15.6                     |
| Number of Rainy Days                         | 4.0  | 0.0                    | 2.9                      |
| Number of Dry Days                           | 5.0  | 21.0                   | -                        |

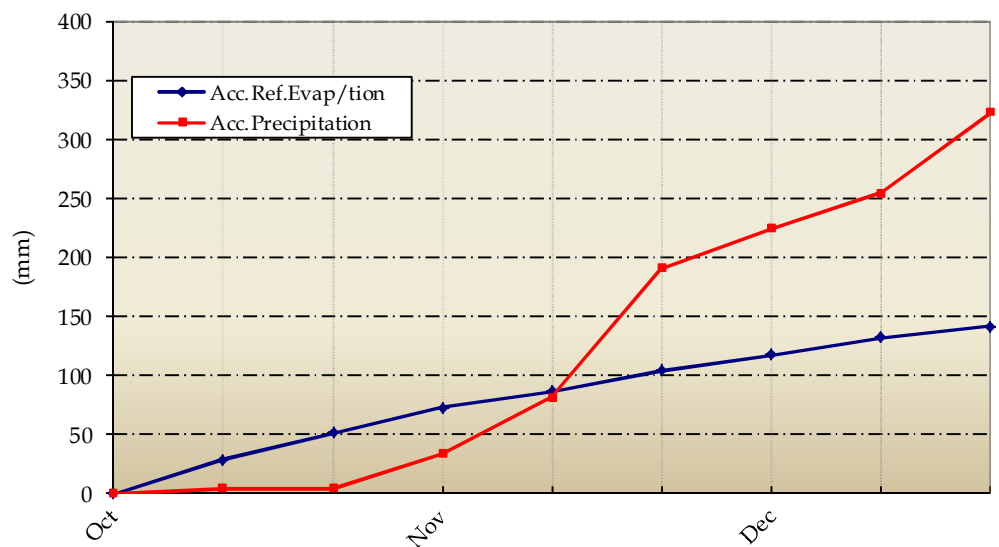
Diagram of Accumulated Precipitation and Accumulated Reference Evapotranspiration



| 2nd 10-day period<br>(11-20/12/2017) |        | 11   | 12   | 13   | 14   | 15   | 16   | 17   | 18   | 19   | 20   | Mean Value<br>or Sum | Previous Year<br>Value | Past Years<br>Mean Value |
|--------------------------------------|--------|------|------|------|------|------|------|------|------|------|------|----------------------|------------------------|--------------------------|
| Temperature                          | Max    | 16.6 | 18.2 | 18.6 | 17.7 | 17.6 | 17.7 | 15.9 | 13.7 | 11.4 | 11.4 | 15.9                 | 13.9                   | 15.1                     |
|                                      | Min    | 4.7  | 9.5  | 9.9  | 10.0 | 8.6  | 13.1 | 11.0 | 8.2  | 4.6  | 4.0  | 8.4                  | 2.4                    | 6.8                      |
| Relative Humidity                    | Max    | 83   | 87   | 91   | 89   | 86   | 92   | 92   | 87   | 86   | 88   | 88                   | 89                     | -                        |
|                                      | Min    | 53   | 60   | 59   | 53   | 60   | 75   | 60   | 63   | 52   | 50   | 58                   | 42                     | -                        |
| Soil Temperature at 10 cm            | 06 UTC | 10.8 | 11.3 | 12.2 | 11.8 | 12.0 | 13.9 | 14.0 | 12.2 | 10.6 | 10.2 | 11.9                 | -                      | 9.7                      |
|                                      | 12 UTC | 11.4 | 12.6 | 13.4 | 13.6 | 12.9 | 12.4 | 14.2 | 12.6 | 12.0 | 10.8 | 12.6                 | -                      | 11.2                     |
| Sunshine Duration                    |        | 3.2  | 2.8  | 5.7  | 5.4  | 3.5  | 0.0  | 3.0  | 2.8  | 4.5  | 1.1  | 3.2                  | 5.3                    | 4.1                      |
| Precipitation                        |        |      |      |      |      |      | 16.5 | 46.8 | 1.5  | 3.6  |      | 68.4                 | 2.4                    | 43.9                     |
| Evaporation                          |        | 3.0  | 2.0  | 3.0  | 2.0  | 3.0  | 1.0  | 1.0  | 1.0  | 0.6  | 0.0  | 16.6                 | 23.5                   | 19.6                     |
| Growing Degrees                      | 5      | 5.7  | 8.9  | 9.3  | 8.9  | 8.1  | 10.4 | 8.5  | 6.0  | 3.0  | 2.7  | 71.2                 | 32.1                   | 59.8                     |
|                                      | 10     | 0.7  | 3.9  | 4.3  | 3.9  | 3.1  | 5.4  | 3.5  | 1.0  | 0.0  | 0.0  | 25.5                 | 5.8                    | 16.6                     |

| 2nd 10-day period<br>(11-20/12/2017)         |      | Previous Year<br>Value | Past Years<br>Mean Value |
|--|------|------------------------|--------------------------|
| Reference Evapotranspiration                 | 9.4  | 6.4                    | 9.0                      |
| Precipitation - Reference Evapotranspiration | 59.0 | -4.0                   | 34.9                     |
| Number of Rainy Days                         | 4.0  | 1.0                    | 4.7                      |
| Number of Dry Days                           | 5.0  | 6.0                    | -                        |

Diagram of Accumulated Precipitation and Accumulated Reference Evapotranspiration

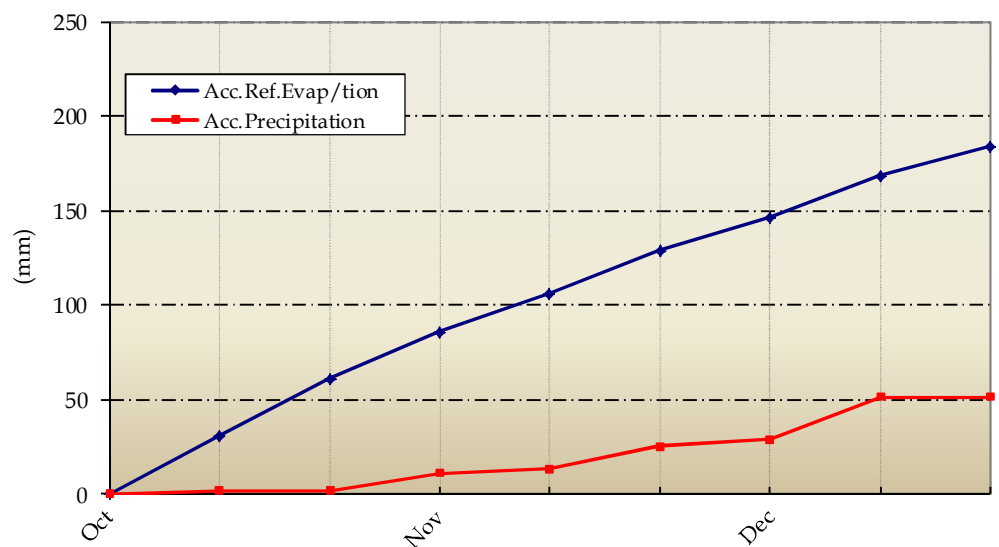


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| 2nd 10-day period<br>(11-20/12/2017) |        | 11   | 12   | 13   | 14   | 15   | 16   | 17   | 18   | 19   | 20   | Mean Value<br>or Sum | Previous Year<br>Value | Past Years<br>Mean Value |
|--------------------------------------|--------|------|------|------|------|------|------|------|------|------|------|----------------------|------------------------|--------------------------|
| Temperature                          | Max    | 17.8 | 18.0 | 19.4 | 20.8 | 18.8 | 21.2 | 22.0 | 18.0 | 15.4 | 13.4 | 18.5                 | 13.7                   | 16.6                     |
|                                      | Min    | 10.6 | 10.4 | 10.0 | 11.0 | 12.2 | 13.8 | 14.4 | 13.0 | 11.4 | 11.8 | 11.9                 | 8.9                    | 10.5                     |
| Relative Humidity                    | Max    | 87   | 95   | 92   | 88   | 85   | 84   | 83   | 78   | 78   | 87   | 86                   | 81                     | -                        |
|                                      | Min    | 59   | 60   | 54   | 53   | 58   | 53   | 49   | 48   | 52   | 63   | 55                   | 57                     | -                        |
| Soil Temperature at 10 cm            | 06 UTC | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -                    | -                      | -                        |
|                                      | 12 UTC | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -                    | -                      | -                        |
| Sunshine Duration                    |        | 1.8  | 7.7  | 7.4  | 7.7  | 7.2  | 2.6  | 2.7  | 5.1  | 0.8  | 0.0  | 4.3                  | 3.2                    | 3.8                      |
| Precipitation                        |        |      |      |      |      |      |      |      |      |      | 0.2  | 0.2                  | 12.0                   | 23.4                     |
| Evaporation                          |        | 2.3  | 2.3  | 0.2  | 2.2  | 1.1  | 3.7  | 2.8  | 1.0  | 1.6  | 1.7  | 18.9                 | 18.8                   | 25.9                     |
| Growing Degrees                      | 5      | 9.2  | 9.2  | 9.7  | 10.9 | 10.5 | 12.5 | 13.2 | 10.5 | 8.4  | 7.6  | 101.7                | 63.3                   | 85.7                     |
|                                      | 10     | 4.2  | 4.2  | 4.7  | 5.9  | 5.5  | 7.5  | 8.2  | 5.5  | 3.4  | 2.6  | 51.7                 | 14.1                   | 36.5                     |

| 2nd 10-day period<br>(11-20/12/2017)         |       | Previous Year<br>Value | Past Years<br>Mean Value |
|--|-------|------------------------|--------------------------|
| Reference Evapotranspiration                 | 15.6  | 15.3                   | -                        |
| Precipitation - Reference Evapotranspiration | -15.4 | -3.3                   | 23.4                     |
| Number of Rainy Days                         | 1.0   | 4.0                    | 3.8                      |
| Number of Dry Days                           | 13.0  | 6.0                    | -                        |

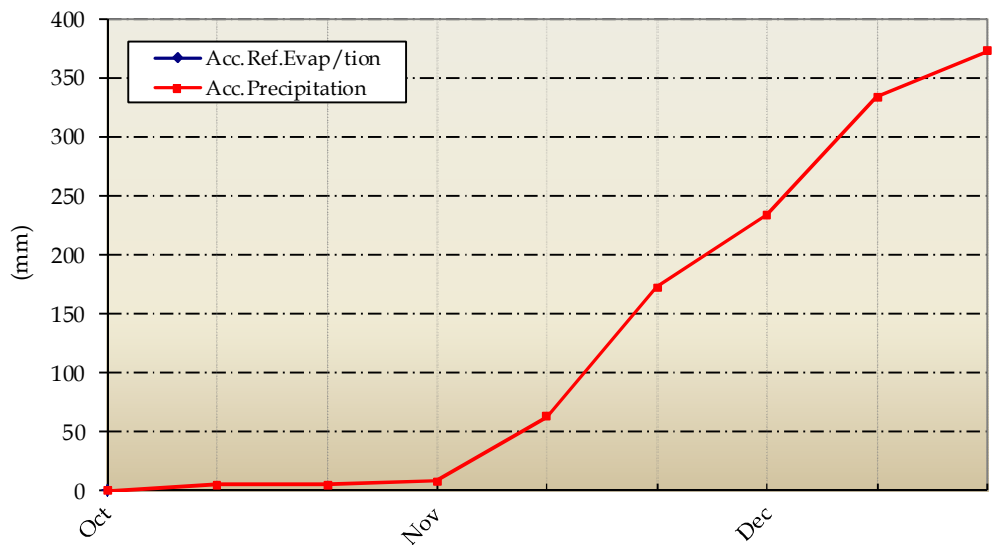
Diagram of Accumulated Precipitation and Accumulated Reference Evapotranspiration



| 2nd 10-day period<br>(11-20/12/2017) |        | 11   | 12   | 13   | 14   | 15   | 16   | 17   | 18  | 19   | 20   | Mean Value<br>or Sum | Previous Year<br>Value | Past Years<br>Mean Value |
|--------------------------------------|--------|------|------|------|------|------|------|------|-----|------|------|----------------------|------------------------|--------------------------|
| Temperature                          | Max    | 10.0 | 10.4 | 12.6 | 14.0 | 10.8 | 13.0 | 9.4  | 6.2 | 6.8  | 5.2  | 9.8                  | 9.8                    | 9.6                      |
|                                      | Min    | -2.8 | 4.6  | 5.0  | 6.8  | 2.6  | 8.4  | 4.8  | 3.0 | -3.0 | -5.8 | 2.4                  | -5.0                   | 1.6                      |
| Relative Humidity                    | Max    | 100  | 100  | 100  | 100  | 100  | 100  | 100  | 100 | 100  | -    | 100                  | 100                    | -                        |
|                                      | Min    | 75   | 91   | 81   | 59   | 85   | 75   | 79   | 80  | 60   | -    | 76                   | 36                     | -                        |
| Soil Temperature at 10 cm            | 06 UTC | -    | -    | -    | -    | -    | -    | -    | -   | -    | -    | -                    | -                      | 4.9                      |
|                                      | 12 UTC | -    | -    | -    | -    | -    | -    | -    | -   | -    | -    | -                    | -                      | 5.7                      |
| Sunshine Duration                    |        | 0.0  | 0.0  | 1.3  | 2.3  | 0.1  | 0.0  | 0.7  | 0.0 | 4.5  | 4.0  | 1.3                  | 4.6                    | 2.5                      |
| Precipitation                        |        |      | 6.1  | 0.0  | 1.2  | 0.2  | 16.1 | 11.9 | 3.1 |      |      | 38.6                 |                        | 54.5                     |
| Evaporation                          |        | -    | -    | -    | -    | -    | -    | -    | -   | -    | -    | -                    | -                      | 5.5                      |
| Growing Degrees                      | 5      | 0.0  | 2.5  | 3.8  | 5.4  | 1.7  | 5.7  | 2.1  | 0.0 | 0.0  | 0.0  | 21.2                 | -                      | 16.0                     |
|                                      | 10     | 0.0  | 0.0  | 0.0  | 0.4  | 0.0  | 0.7  | 0.0  | 0.0 | 0.0  | 0.0  | 1.1                  | -                      | 0.8                      |

| 2nd 10-day period<br>(11-20/12/2017)         |     | Previous Year<br>Value | Past Years<br>Mean Value |
|--|-----|------------------------|--------------------------|
| Reference Evapotranspiration                 | -   | -                      | 5.7                      |
| Precipitation - Reference Evapotranspiration | -   | -                      | 48.8                     |
| Number of Rainy Days                         | 6.0 | 0.0                    | 4.4                      |
| Number of Dry Days                           | 1.0 | 14.0                   | -                        |

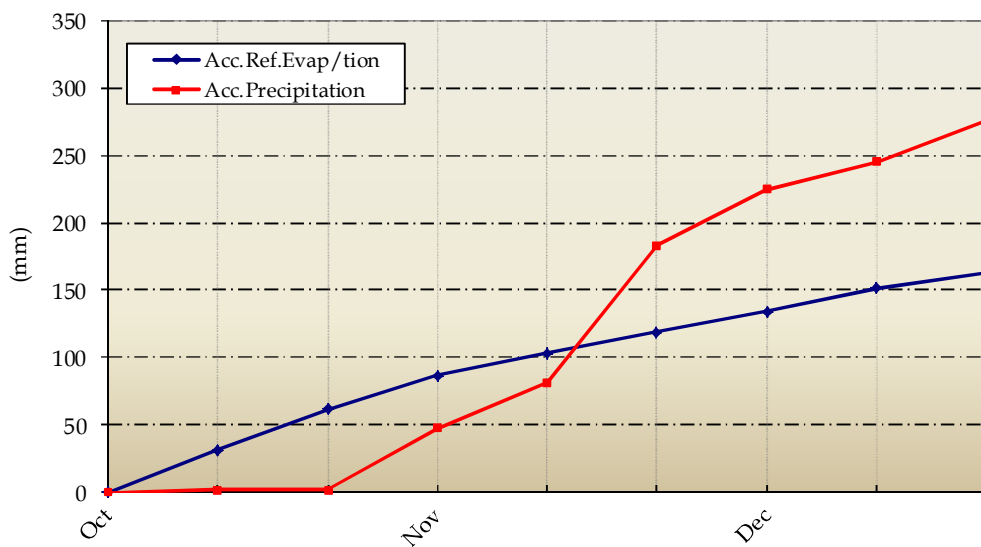
Diagram of Accumulated Precipitation and Accumulated Reference Evapotranspiration



| 2nd 10-day period<br>(11-20/12/2017) |        | 11   | 12   | 13   | 14   | 15   | 16   | 17   | 18   | 19   | 20   | Mean Value<br>or Sum | Previous Year<br>Value | Past Years<br>Mean Value |
|--------------------------------------|--------|------|------|------|------|------|------|------|------|------|------|----------------------|------------------------|--------------------------|
| Temperature                          | Max    | 17.3 | 17.9 | 19.8 | 18.3 | 19.1 | 18.4 | 17.6 | 14.9 | 12.5 | 13.4 | 16.9                 | 15.4                   | 15.9                     |
|                                      | Min    | 2.4  | 5.4  | 6.8  | 6.6  | 6.9  | 13.0 | 13.1 | 5.7  | 2.4  | 2.2  | 6.4                  | 3.6                    | 6.6                      |
| Relative Humidity                    | Max    | 91   | 92   | 92   | 93   | 92   | 92   | 92   | 92   | 94   | 85   | 92                   | 88                     | -                        |
|                                      | Min    | 48   | 59   | 49   | 57   | 47   | 68   | 55   | 60   | 42   | 46   | 53                   | 38                     | -                        |
| Soil Temperature at 10 cm            | 06 UTC | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -                    | -                      | 10.6                     |
|                                      | 12 UTC | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -                    | -                      | 11.5                     |
| Sunshine Duration                    |        | 4.0  | 3.2  | 6.0  | 3.7  | 4.4  | 0.9  | 4.1  | 1.4  | 5.2  | 3.8  | 3.7                  | 5.8                    | 3.9                      |
| Precipitation                        |        |      |      |      | 0.0  |      | 11.9 | 13.8 | 4.7  |      |      | 30.4                 | 2.2                    | 53.6                     |
| Evaporation                          |        | 1.0  | 2.0  | 3.3  | 3.5  | 1.6  | 0.2  | 1.9  | 0.9  | 1.8  | 0.9  | 17.1                 | 22.6                   | 23.9                     |
| Growing Degrees                      | 5      | 4.9  | 6.7  | 8.3  | 7.5  | 8.0  | 10.7 | 10.4 | 5.3  | 2.5  | 2.8  | 66.9                 | 44.7                   | 62.3                     |
|                                      | 10     | 0.0  | 1.7  | 3.3  | 2.5  | 3.0  | 5.7  | 5.4  | 0.3  | 0.0  | 0.0  | 21.8                 | 6.5                    | 17.2                     |

| 2nd 10-day period<br>(11-20/12/2017)         |      | Previous Year<br>Value | Past Years<br>Mean Value |
|--|------|------------------------|--------------------------|
| Reference Evapotranspiration                 | 10.8 | 13.0                   | 10.5                     |
| Precipitation - Reference Evapotranspiration | 19.6 | -10.8                  | 43.1                     |
| Number of Rainy Days                         | 3.0  | 2.0                    | 4.7                      |
| Number of Dry Days                           | 5.0  | 4.0                    | -                        |

Diagram of Accumulated Precipitation and Accumulated Reference Evapotranspiration

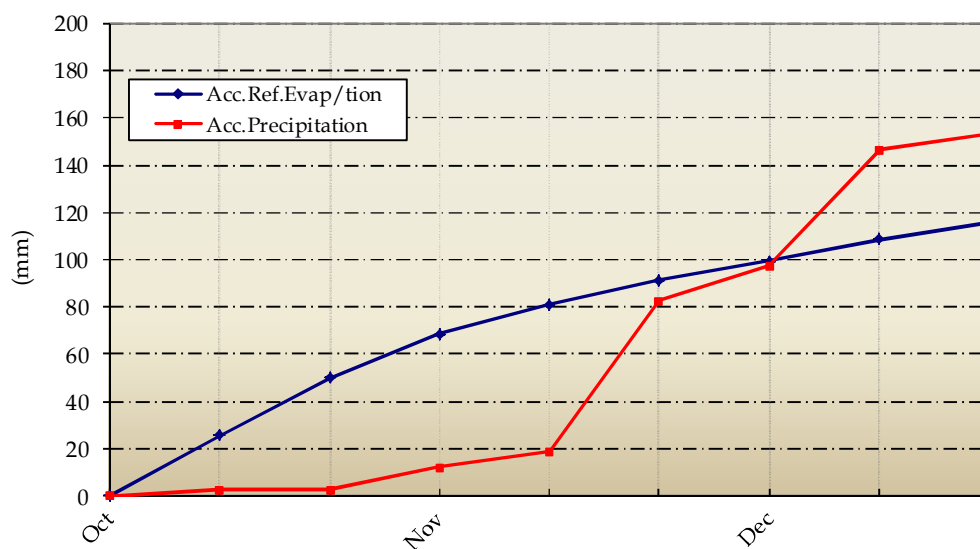


Larisa

| 2nd 10-day period<br>(11-20/12/2017) |        | 11   | 12   | 13   | 14   | 15   | 16   | 17   | 18  | 19   | 20   | Mean Value<br>or Sum | Previous Year<br>Value | Past Years<br>Mean Value |
|--------------------------------------|--------|------|------|------|------|------|------|------|-----|------|------|----------------------|------------------------|--------------------------|
| Temperature                          | Max    | 12.8 | 18.2 | 18.2 | 19.6 | 19.6 | 18.0 | 14.0 | 8.6 | 8.2  | 5.6  | 14.3                 | 10.4                   | 11.0                     |
|                                      | Min    | -1.8 | -0.8 | 1.3  | 6.8  | 4.2  | 4.6  | 7.2  | 2.6 | -1.0 | -3.0 | 2.0                  | -2.3                   | 1.7                      |
| Relative Humidity                    | Max    | 94   | 97   | 100  | 81   | 87   | 100  | 100  | 100 | 100  | 92   | 95                   | 93                     | -                        |
|                                      | Min    | 43   | 45   | 56   | 33   | 36   | 49   | 76   | 81  | 54   | 42   | 52                   | 37                     | -                        |
| Soil Temperature at 10 cm            | 06 UTC | -    | -    | -    | -    | -    | -    | -    | -   | -    | -    | -                    | 7.9                    | 6.9                      |
|                                      | 12 UTC | -    | -    | -    | -    | -    | -    | -    | -   | -    | -    | -                    | 8.0                    | 7.3                      |
| Sunshine Duration                    |        | 7.3  | 6.7  | 4.7  | 6.0  | 6.4  | 0.7  | 1.4  | 0.0 | 6.0  | 1.0  | 4.0                  | 5.3                    | 3.1                      |
| Precipitation                        |        |      |      |      |      |      | 0.2  | 1.3  | 5.2 |      |      | 6.7                  |                        | 14.0                     |
| Evaporation                          |        | 1.1  | 1.3  | 3.3  | 1.8  | 0.7  | 1.3  | 0.0  | 0.1 | 0.6  | 0.3  | 10.5                 | 4.4                    | 6.0                      |
| Growing Degrees                      | 5      | 0.5  | 3.7  | 4.8  | 8.2  | 6.9  | 6.3  | 5.6  | 0.6 | 0.0  | 0.0  | 36.6                 | 6.5                    | 20.8                     |
|                                      | 10     | 0.0  | 0.0  | 0.0  | 3.2  | 1.9  | 1.3  | 0.6  | 0.0 | 0.0  | 0.0  | 7.0                  | 0.0                    | 2.1                      |

| 2nd 10-day period<br>(11-20/12/2017)         |      | Previous Year<br>Value | Past Years<br>Mean Value |
|--|------|------------------------|--------------------------|
| Reference Evapotranspiration                 | 7.3  | 7.1                    | 5.8                      |
| Precipitation - Reference Evapotranspiration | -0.6 | -7.1                   | 8.2                      |
| Number of Rainy Days                         | 3.0  | 0.0                    | 3.3                      |
| Number of Dry Days                           | 5.0  | 14.0                   | -                        |

Diagram of Accumulated Precipitation and Accumulated Reference Evapotranspiration

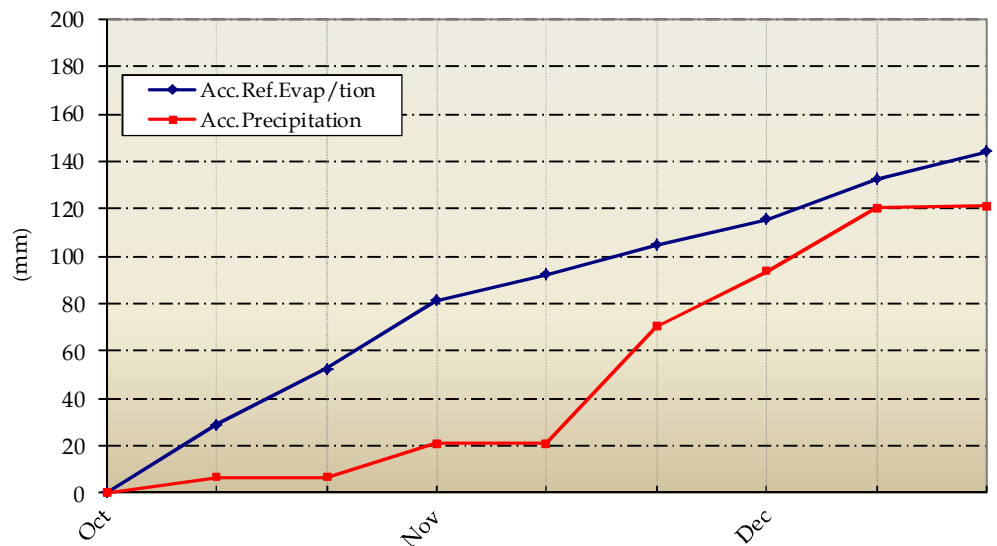


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| 2nd 10-day period<br>(11-20/12/2017) |        | 11   | 12   | 13   | 14   | 15   | 16   | 17   | 18  | 19  | 20   | Mean Value<br>or Sum | Previous Year<br>Value | Past Years<br>Mean Value |
|--------------------------------------|--------|------|------|------|------|------|------|------|-----|-----|------|----------------------|------------------------|--------------------------|
| Temperature                          | Max    | 11.4 | 12.8 | 13.6 | 18.2 | 18.2 | 19.8 | 14.2 | 9.4 | 7.4 | 7.4  | 13.2                 | 10.3                   | 10.6                     |
|                                      | Min    | -1.0 | 0.6  | 2.4  | 7.4  | 5.7  | 12.3 | 9.2  | 1.5 | 3.6 | -1.3 | 4.0                  | -1.5                   | 3.0                      |
| Relative Humidity                    | Max    | 86   | 91   | 93   | 81   | 68   | 79   | 88   | 79  | 53  | 71   | 79                   | 84                     | -                        |
|                                      | Min    | 45   | 60   | 64   | 35   | 31   | 39   | 53   | 52  | 40  | 39   | 46                   | 36                     | -                        |
| Soil Temperature at 10 cm            | 06 UTC | 6.5  | 6.4  | 7.0  | 8.2  | 8.4  | 10.0 | 11.0 | 8.4 | 6.3 | 5.0  | 7.7                  | 4.4                    | 6.2                      |
|                                      | 12 UTC | 7.0  | 7.2  | 8.0  | 9.3  | 10.0 | 11.0 | 11.2 | 9.0 | 6.8 | 7.2  | 8.7                  | 6.5                    | 7.7                      |
| Sunshine Duration                    |        | 7.6  | 7.3  | 5.5  | 6.6  | 7.4  | 1.8  | 1.2  | 1.6 | 7.6 | 7.6  | 5.4                  | 6.3                    | 2.8                      |
| Precipitation                        |        |      |      |      |      |      | 0.0  | 0.0  | 0.7 | 0.0 |      | 0.7                  | 0.0                    | 12.5                     |
| Evaporation                          |        | 1.0  | 1.0  | 3.2  | 1.4  | 0.4  | 1.4  | 0.1  | 1.3 | 1.3 | 4.1  | 15.2                 | 5.6                    | 10.6                     |
| Growing Degrees                      | 5      | 0.2  | 1.7  | 3.0  | 7.8  | 7.0  | 11.1 | 6.7  | 0.5 | 0.5 | 0.0  | 38.4                 | 8.0                    | 24.9                     |
|                                      | 10     | 0.0  | 0.0  | 0.0  | 2.8  | 2.0  | 6.1  | 1.7  | 0.0 | 0.0 | 0.0  | 12.5                 | 0.0                    | 2.8                      |

| 2nd 10-day period<br>(11-20/12/2017)         |       | Previous Year<br>Value | Past Years<br>Mean Value |
|--|-------|------------------------|--------------------------|
| Reference Evapotranspiration                 | 11.7  | 11.7                   | 8.4                      |
| Precipitation - Reference Evapotranspiration | -11.0 | -11.7                  | 4.1                      |
| Number of Rainy Days                         | 1.0   | 0.0                    | 2.9                      |
| Number of Dry Days                           | 7.0   | 16.0                   | -                        |

Diagram of Accumulated Precipitation and Accumulated Reference Evapotranspiration



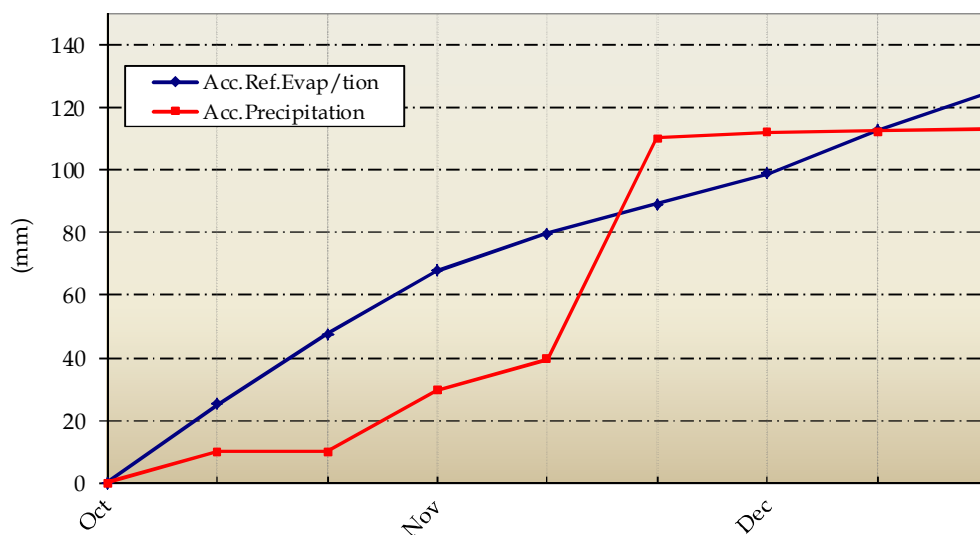


Tanagra

| 2nd 10-day period<br>(11-20/12/2017) |        | 11   | 12   | 13   | 14   | 15   | 16   | 17   | 18   | 19  | 20  | Mean Value<br>or Sum | Previous Year<br>Value | Past Years<br>Mean Value |
|--------------------------------------|--------|------|------|------|------|------|------|------|------|-----|-----|----------------------|------------------------|--------------------------|
| Temperature                          | Max    | 15.9 | 18.4 | 20.0 | 19.4 | 18.5 | 19.6 | 19.6 | 15.0 | 9.8 | 7.0 | 16.3                 | 11.7                   | 13.4                     |
|                                      | Min    | -0.4 | 0.4  | 8.0  | 11.1 | 3.6  | 13.6 | 15.3 | 3.3  | 1.4 | 6.0 | 6.2                  | 1.9                    | 5.0                      |
| Relative Humidity                    | Max    | 99   | 100  | 96   | 75   | 82   | 72   | 80   | 98   | 100 | 67  | 87                   | 88                     | -                        |
|                                      | Min    | 38   | 44   | 37   | 34   | 39   | 47   | 47   | 43   | 58  | 59  | 45                   | 41                     | -                        |
| Soil Temperature at 10 cm            | 06 UTC | -    | -    | -    | -    | -    | -    | -    | -    | -   | -   | -                    | -                      | -                        |
|                                      | 12 UTC | -    | -    | -    | -    | -    | -    | -    | -    | -   | -   | -                    | -                      | -                        |
| Sunshine Duration                    |        | 7.3  | 7.1  | 7.4  | 7.0  | 8.4  | 2.9  | 5.9  | 3.4  | 4.5 | 0.0 | 5.4                  | 5.7                    |                          |
| Precipitation                        |        |      |      |      |      |      | 0.1  | 0.2  | 0.4  |     | 0.0 | 0.7                  | 4.1                    | 25.9                     |
| Evaporation                          |        | -    | -    | -    | -    | -    | -    | -    | -    | -   | -   | -                    | -                      | -                        |
| Growing Degrees                      | 5      | 2.8  | 4.4  | 9.0  | 10.3 | 6.1  | 11.6 | 12.5 | 4.2  | 0.6 | 1.5 | 62.8                 | 19.0                   |                          |
|                                      | 10     | 0.0  | 0.0  | 4.0  | 5.3  | 1.1  | 6.6  | 7.5  | 0.0  | 0.0 | 0.0 | 24.4                 | 2.1                    |                          |

| 2nd 10-day period<br>(11-20/12/2017)         |       | Previous Year<br>Value | Past Years<br>Mean Value |
|--|-------|------------------------|--------------------------|
| Reference Evapotranspiration                 | 11.9  | 8.4                    |                          |
| Precipitation - Reference Evapotranspiration | -11.2 | -4.3                   | 25.9                     |
| Number of Rainy Days                         | 3.0   | 3.0                    | 4.3                      |
| Number of Dry Days                           | 11.0  | 5.0                    | -                        |

Diagram of Accumulated Precipitation and Accumulated Reference Evapotranspiration

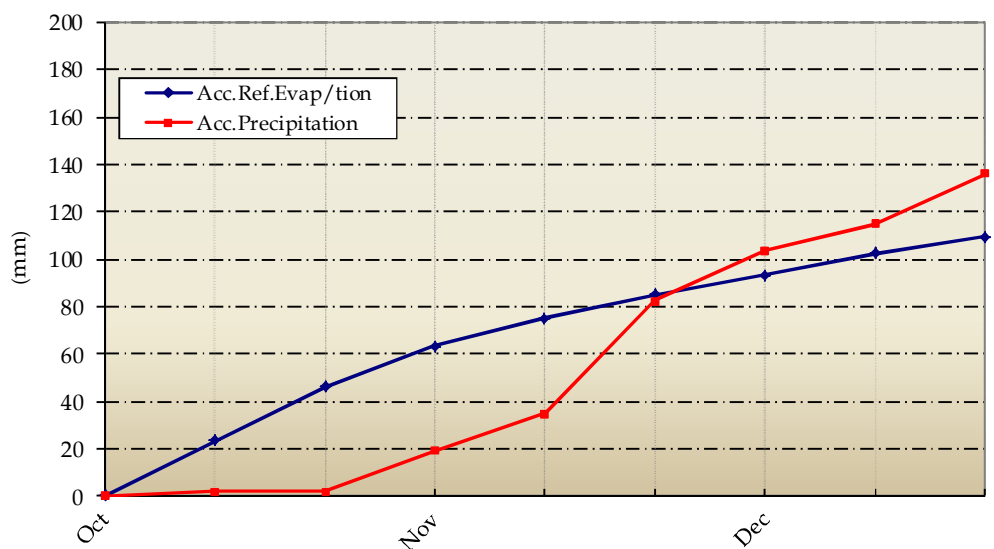


Tripoli

| 2nd 10-day period<br>(11-20/12/2017) |        | 11   | 12   | 13   | 14   | 15   | 16   | 17   | 18  | 19   | 20   | Mean Value<br>or Sum | Previous Year<br>Value | Past Years<br>Mean Value |
|--------------------------------------|--------|------|------|------|------|------|------|------|-----|------|------|----------------------|------------------------|--------------------------|
| Temperature                          | Max    | 12.2 | 13.9 | 15.6 | 14.6 | 13.1 | 14.8 | 12.9 | 9.9 | 7.6  | 4.6  | 11.9                 | 9.7                    | 10.8                     |
|                                      | Min    | -3.1 | -0.7 | 1.7  | 3.6  | 2.8  | 10.2 | 10.0 | 3.1 | -0.3 | -2.0 | 2.5                  | -2.4                   | 1.8                      |
| Relative Humidity                    | Max    | 96   | 100  | 100  | 88   | 95   | 100  | 100  | 95  | 100  | 100  | 97                   | 92                     | -                        |
|                                      | Min    | 53   | 57   | 46   | 49   | 52   | 58   | 56   | 59  | 44   | 79   | 55                   | 42                     | -                        |
| Soil Temperature at 10 cm            | 06 UTC | 4.4  | 5.0  | 5.8  | 6.4  | 6.2  | -    | -    | 6.8 | 5.4  | 4.6  | 5.6                  | 4.0                    | 6.0                      |
|                                      | 12 UTC | 6.2  | 6.8  | 8.0  | 8.2  | 7.8  | -    | -    | 8.2 | 6.8  | 5.6  | 7.2                  | 5.7                    | 6.7                      |
| Sunshine Duration                    |        | 4.4  | 1.9  | 7.3  | 6.1  | 4.9  | 2.3  | 5.2  | 2.2 | 3.9  | 0.0  | 3.8                  | 5.0                    | 3.6                      |
| Precipitation                        |        |      |      |      |      |      | 12.5 | 4.3  | 4.6 |      |      | 21.4                 | 0.0                    | 40.9                     |
| Evaporation                          |        | 0.0  | 0.2  | 0.8  | 0.7  | -    | -    | 0.0  | 0.9 | 0.4  | 0.0  | -                    | 3.3                    | 10.0                     |
| Growing Degrees                      | 5      | 0.0  | 1.6  | 3.7  | 4.1  | 3.0  | 7.5  | 6.5  | 1.5 | 0.0  | 0.0  | 27.8                 | 6.6                    | 19.6                     |
|                                      | 10     | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.5  | 1.5  | 0.0 | 0.0  | 0.0  | 4.0                  | 0.0                    | 1.5                      |

| 2nd 10-day period<br>(11-20/12/2017)         |      | Previous Year<br>Value | Past Years<br>Mean Value |
|--|------|------------------------|--------------------------|
| Reference Evapotranspiration                 | 7.0  | 7.6                    | 7.6                      |
| Precipitation - Reference Evapotranspiration | 14.4 | -7.6                   | 33.3                     |
| Number of Rainy Days                         | 3.0  | 0.0                    | 4.3                      |
| Number of Dry Days                           | 5.0  | 13.0                   | -                        |

Diagram of Accumulated Precipitation and Accumulated Reference Evapotranspiration





◆ **List of Symbols and Abbreviations**

**Reference Evapotranspiration ETo (mm):**

Calculated by the FAO Penman-Montieth equation

$$ET_0 = \frac{0.408 * \Delta * (R_n - G) + \gamma * \frac{900}{T + 273} * u_2 * (e_s - e_a)}{\Delta + \gamma * (1 + 0.34 * u_2)}$$

using 10-day step.

R<sub>n</sub> is estimated from sunshine measurements and G assumed to be zero.

**Growing Degrees:** Degrees with mean temperature exceeding the base of 5 or 10 °C.

**Number of Rainy Days:** Number of days with precipitation of at least 0.1 mm.

**Number of Dry Days:** Number of dry days recorded since the last rainy day.

**Measurements Units**

- ◆ Temperature : °C
- ◆ Relative Humidity : %
- ◆ Soil Temperature : °C
- ◆ Sunshine Duration : Hours
- ◆ Precipitation : mm
- ◆ Evaporation (Pan) : mm
- ◆ Growing Degrees : °C

**UTC (Universal Time coordinates) in Greece**

- ◆ Winter : Time(UTC) = Local time - 2
- ◆ Summer : Time(UTC) = Local time - 3

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