



# AGROMETEOROLOGICAL BULLETIN

*July 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



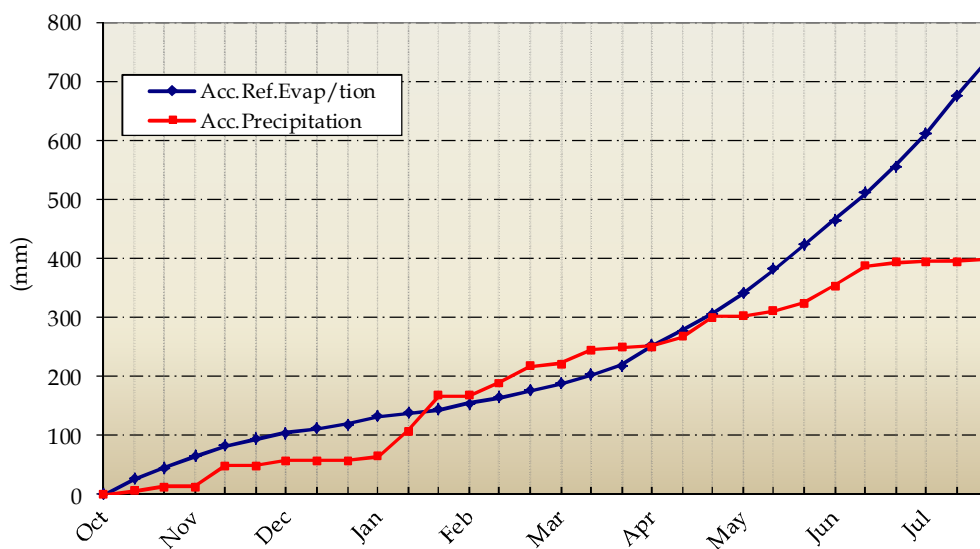
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*Web addresses of HNMS*  
[www.hnms.gr](http://www.hnms.gr)  
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| 2nd 10-day period<br>(11-20/07/2017) |        | 11   | 12   | 13   | 14   | 15   | 16   | 17   | 18   | 19   | 20   | Mean Value<br>or Sum | Previous Year<br>Value | Past Years<br>Mean Value |
|--------------------------------------|--------|------|------|------|------|------|------|------|------|------|------|----------------------|------------------------|--------------------------|
| Temperature                          | Max    | 33.4 | 33.2 | 35.2 | 33.0 | 31.4 | 29.6 | 27.2 | 26.0 | 32.0 | 31.6 | 31.3                 | 32.4                   | 30.5                     |
|                                      | Min    | 19.6 | 15.2 | 18.4 | 23.6 | 22.0 | 19.6 | 21.0 | 18.6 | 15.2 | 15.4 | 18.9                 | 19.8                   | 17.5                     |
| Relative Humidity                    | Max    | 79   | 88   | 79   | 70   | 71   | 70   | 85   | 83   | 96   | 78   | 80                   | 77                     | -                        |
|                                      | Min    | 28   | 38   | 33   | 37   | 35   | 35   | 45   | 44   | 28   | 29   | 35                   | 34                     | -                        |
| Soil Temperature at 10 cm            | 06 UTC | -    | -    | -    | -    | -    | 22.8 | 22.0 | 21.0 | 20.4 | 21.8 | 21.6                 | 28.5                   | 24.2                     |
|                                      | 12 UTC | -    | -    | -    | -    | -    | 25.2 | 24.0 | 21.6 | 24.6 | 27.6 | 24.6                 | 34.4                   | 28.8                     |
| Sunshine Duration                    |        | 13.6 | 13.2 | 11.6 | 13.2 | 9.2  | 9.3  | 8.2  | 3.8  | 12.3 | 13.3 | 10.8                 | 12.6                   | 11.2                     |
| Precipitation                        |        |      |      |      |      |      |      |      | 3.0  |      |      | 3.0                  |                        | 5.1                      |
| Evaporation                          |        | 10.4 | 9.8  | -    | -    | 9.2  | 11.0 | 10.3 | 4.1  | 9.7  | 10.7 | -                    | 102.8                  | 98.7                     |
| Growing Degrees                      | 5      | 21.5 | 19.2 | 21.8 | 23.3 | 21.7 | 19.6 | 19.1 | 17.3 | 18.6 | 18.5 | 200.6                | 210.8                  | 190.1                    |
|                                      | 10     | 16.5 | 14.2 | 16.8 | 18.3 | 16.7 | 14.6 | 14.1 | 12.3 | 13.6 | 13.5 | 150.6                | 160.8                  | 140.1                    |

| 2nd 10-day period<br>(11-20/07/2017)         |       | Previous Year<br>Value | Past Years<br>Mean Value |
|--|-------|------------------------|--------------------------|
| Reference Evapotranspiration                 | 60.1  | 61.2                   | 60.3                     |
| Precipitation - Reference Evapotranspiration | -57.1 | -61.2                  | -55.2                    |
| Number of Rainy Days                         | 1.0   | 0.0                    | 0.9                      |
| Number of Dry Days                           | 25.0  | 16.0                   | -                        |

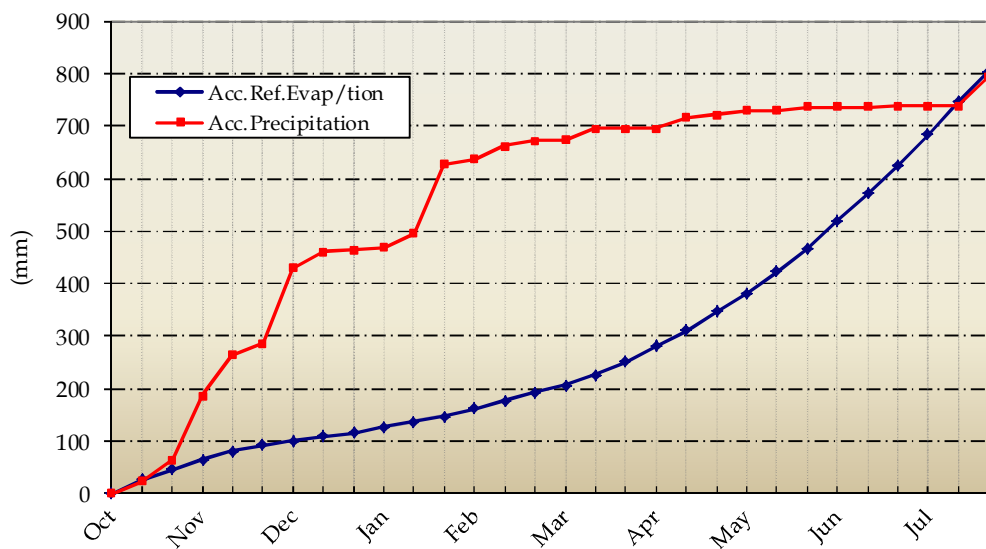
Diagram of Accumulated Precipitation and Accumulated Reference Evapotranspiration



| 2nd 10-day period<br>(11-20/07/2017) |        | 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    | 33.6 | 37.2 | 33.1 | 37.2 | 32.9 | 32.4 | 25.0 | 27.7 | 29.4 | 30.4 | 31.9                 | 30.3                   | 30.4                     |
|                                      | Min    | 20.4 | 19.2 | 18.6 | 20.0 | 21.1 | 20.2 | 18.6 | 18.0 | 17.7 | 19.0 | 19.3                 | 20.2                   | 18.1                     |
| Relative Humidity                    | Max    | 85   | 82   | 79   | 88   | 87   | 91   | 88   | 82   | 87   | 87   | 86                   | 83                     | -                        |
|                                      | Min    | 29   | 16   | 33   | 21   | 38   | 42   | 55   | 43   | 36   | 35   | 35                   | 40                     | -                        |
| Soil Temperature at 10 cm            | 06 UTC | 31.0 | 30.6 | 30.6 | 31.0 | 31.6 | 31.5 | 28.0 | 26.0 | 26.0 | 25.0 | 29.1                 | -                      | 27.1                     |
|                                      | 12 UTC | 34.0 | 33.6 | 33.0 | 34.0 | 33.8 | 34.0 | 28.2 | 28.0 | 28.0 | 28.0 | 31.5                 | -                      | 31.8                     |
| Sunshine Duration                    |        | 12.8 | 12.2 | 13.1 | 12.2 | 12.8 | 9.8  | 6.0  | 13.2 | 13.1 | 12.8 | 11.8                 | 12.9                   | 12.3                     |
| Precipitation                        |        |      |      |      |      |      | 11.6 | 44.7 |      |      |      | 56.3                 |                        | 0.8                      |
| Evaporation                          |        | 7.0  | 12.0 | 9.0  | 10.0 | 10.0 | 7.1  | 2.6  | 8.0  | 7.0  | 8.0  | 80.7                 | 72.2                   | 77.4                     |
| Growing Degrees                      | 5      | 22.0 | 23.2 | 20.9 | 23.6 | 22.0 | 21.3 | 16.8 | 17.9 | 18.6 | 19.7 | 205.9                | 202.8                  | 192.4                    |
|                                      | 10     | 17.0 | 18.2 | 15.9 | 18.6 | 17.0 | 16.3 | 11.8 | 12.9 | 13.6 | 14.7 | 155.9                | 152.8                  | 142.4                    |

| 2nd 10-day period<br>(11-20/07/2017)         |      | Previous Year<br>Value | Past Years<br>Mean Value |
|--|------|------------------------|--------------------------|
| Reference Evapotranspiration                 | 57.8 | 58.7                   | 55.3                     |
| Precipitation - Reference Evapotranspiration | -1.5 | -58.7                  | -54.5                    |
| Number of Rainy Days                         | 2.0  | 0.0                    | 0.1                      |
| Number of Dry Days                           | 27.0 | 24.0                   | -                        |

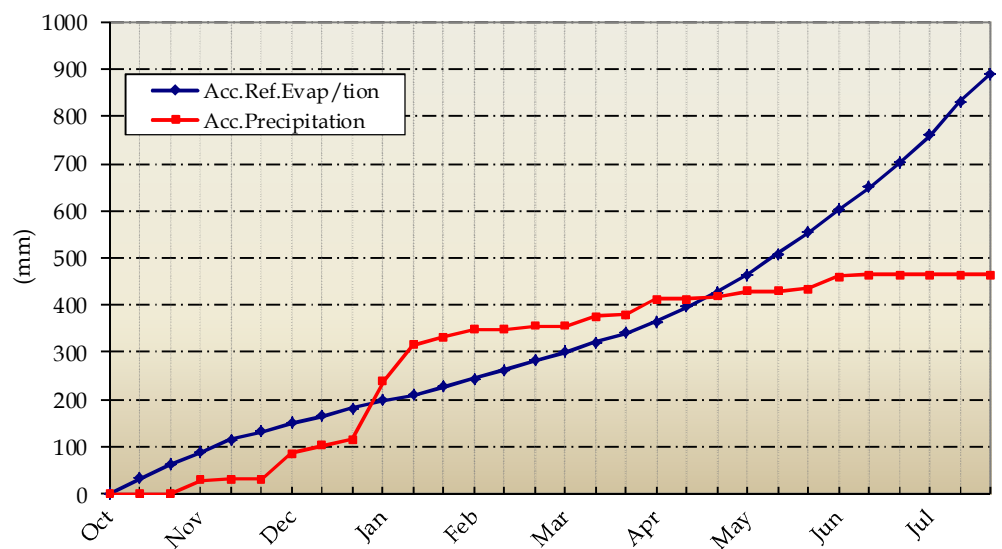
Diagram of Accumulated Precipitation and Accumulated Reference Evapotranspiration



| 2nd 10-day period<br>(11-20/07/2017) |        | 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    | 30.0 | 32.0 | 30.8 | 31.4 | 29.0 | 29.4 | 28.4 | 26.8 | 26.6 | 28.0 | 29.2                 | 29.1                   | 28.5                     |
|                                      | Min    | 22.6 | 22.2 | 22.6 | 24.6 | 24.8 | 22.0 | 21.0 | 23.6 | 23.2 | 24.4 | 23.1                 | 22.6                   | 22.1                     |
| Relative Humidity                    | Max    | 68   | 67   | 75   | 78   | 82   | 87   | 90   | 84   | 70   | 67   | 77                   | 81                     | -                        |
|                                      | Min    | 46   | 46   | 50   | 49   | 65   | 58   | 61   | 62   | 53   | 45   | 54                   | 56                     | -                        |
| Soil Temperature at 10 cm            | 06 UTC | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -                    | -                      | -                        |
|                                      | 12 UTC | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -                    | -                      | -                        |
| Sunshine Duration                    |        | 12.8 | 12.9 | 12.6 | 12.8 | 12.2 | 12.2 | 7.3  | 9.9  | 9.3  | 12.8 | 11.5                 | 13.2                   | 12.1                     |
| Precipitation                        |        |      |      |      |      |      |      | 0.3  | 0.3  |      |      | 0.6                  |                        | 0.0                      |
| Evaporation                          |        | 6.9  | 10.2 | 4.3  | 3.7  | 10.7 | 4.0  | 2.5  | 8.0  | 7.7  | 10.9 | 68.9                 | 77.3                   | 93.8                     |
| Growing Degrees                      | 5      | 21.3 | 22.1 | 21.7 | 23.0 | 21.9 | 20.7 | 19.7 | 20.2 | 19.9 | 21.2 | 211.7                | 208.6                  | 203.0                    |
|                                      | 10     | 16.3 | 17.1 | 16.7 | 18.0 | 16.9 | 15.7 | 14.7 | 15.2 | 14.9 | 16.2 | 161.7                | 158.6                  | 153.0                    |

| 2nd 10-day period<br>(11-20/07/2017)         |       | Previous Year<br>Value | Past Years<br>Mean Value |
|--|-------|------------------------|--------------------------|
| Reference Evapotranspiration                 | 59.1  | 62.4                   | -                        |
| Precipitation - Reference Evapotranspiration | -58.5 | -62.4                  | 0.0                      |
| Number of Rainy Days                         | 2.0   | 0.0                    | 0.0                      |
| Number of Dry Days                           | 38.0  | 42.0                   | -                        |

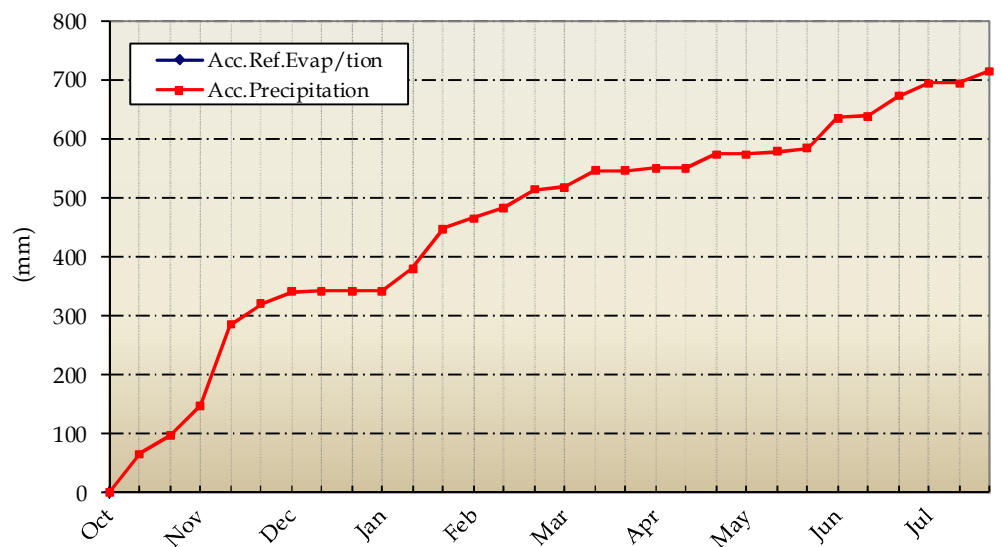
Diagram of Accumulated Precipitation and Accumulated Reference Evapotranspiration



| 2nd 10-day period<br>(11-20/07/2017) |        | 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    | 38.0 | 38.0 | 38.6 | 37.4 | 35.2 | 28.6 | 23.8 | 28.8 | 31.6 | 31.8 | 33.2                 | 31.5                   | 31.4                     |
|                                      | Min    | 18.0 | 16.5 | 15.0 | 19.0 | 17.8 | 16.5 | 15.0 | 17.2 | 15.4 | 15.5 | 16.6                 | 16.3                   | 15.3                     |
| Relative Humidity                    | Max    | 80   | 92   | 90   | 90   | 90   | 100  | 74   | 92   | 76   | 97   | 88                   | 94                     | -                        |
|                                      | Min    | 19   | 16   | 16   | 24   | 27   | 46   | 50   | 36   | 31   | 34   | 30                   | 31                     | -                        |
| Soil Temperature at 10 cm            | 06 UTC | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -                    | -                      | 23.4                     |
|                                      | 12 UTC | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -                    | -                      | 27.8                     |
| Sunshine Duration                    |        | 12.9 | 12.6 | 12.7 | 12.2 | 12.5 | 4.7  | 2.2  | 11.4 | 11.7 | 9.1  | 10.2                 | 11.0                   | 10.3                     |
| Precipitation                        |        |      |      |      |      |      | 13.0 | 7.1  |      |      | 0.0  | 20.1                 | 6.6                    | 13.3                     |
| Evaporation                          |        | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -                    | -                      | 83.3                     |
| Growing Degrees                      | 5      | 23.0 | 22.3 | 21.8 | 23.2 | 21.5 | 17.6 | 14.4 | 18.0 | 18.5 | 18.7 | 198.9                | 188.9                  | 178.2                    |
|                                      | 10     | 18.0 | 17.3 | 16.8 | 18.2 | 16.5 | 12.6 | 9.4  | 13.0 | 13.5 | 13.7 | 148.9                | 138.9                  | 129.5                    |

| 2nd 10-day period<br>(11-20/07/2017)         |      | Previous Year<br>Value | Past Years<br>Mean Value |
|--|------|------------------------|--------------------------|
| Reference Evapotranspiration                 | -    | -                      | 50.5                     |
| Precipitation - Reference Evapotranspiration | -    | -                      | -37.2                    |
| Number of Rainy Days                         | 2.0  | 1.0                    | 1.6                      |
| Number of Dry Days                           | 20.0 | 10.0                   | -                        |

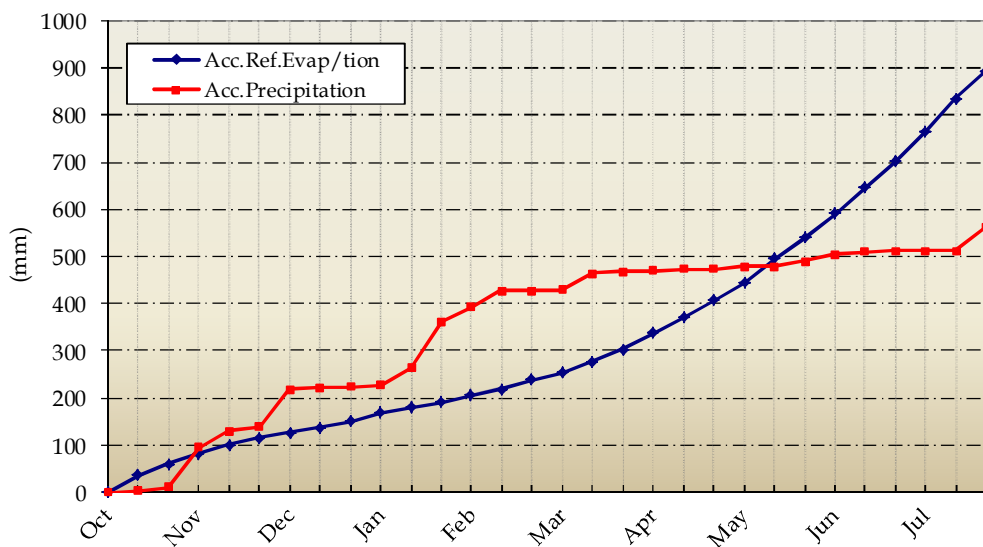
Diagram of Accumulated Precipitation and Accumulated Reference Evapotranspiration



| 2nd 10-day period<br>(11-20/07/2017) |        | 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    | 32.0 | 36.9 | 35.4 | 35.7 | 32.6 | 29.8 | 26.1 | 28.8 | 29.9 | 31.6 | 31.9                 | 31.6                   | 31.2                     |
|                                      | Min    | 20.2 | 20.0 | 18.8 | 19.2 | 19.2 | 20.9 | 17.5 | 17.2 | 16.3 | 17.1 | 18.6                 | 18.9                   | 17.8                     |
| Relative Humidity                    | Max    | 84   | 82   | 82   | 72   | 88   | 93   | 93   | 86   | 83   | 83   | 85                   | 85                     | -                        |
|                                      | Min    | 36   | 21   | 28   | 25   | 36   | 59   | 52   | 38   | 31   | 29   | 36                   | 35                     | -                        |
| Soil Temperature at 10 cm            | 06 UTC | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -                    | 26.1                   | 25.6                     |
|                                      | 12 UTC | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -                    | 28.1                   | 30.0                     |
| Sunshine Duration                    |        | 12.8 | 12.7 | 12.8 | 12.8 | 12.9 | 7.5  | 8.8  | 7.9  | 12.8 | 12.6 | 11.4                 | 11.6                   | 11.5                     |
| Precipitation                        |        |      |      |      |      |      |      | 52.6 |      |      |      | 52.6                 |                        | 3.4                      |
| Evaporation                          |        | 10.1 | 8.0  | 9.1  | 9.1  | 8.6  | 0.7  | 3.2  | 9.8  | 7.7  | 7.2  | 73.5                 | 74.0                   | 87.7                     |
| Growing Degrees                      | 5      | 21.1 | 23.5 | 22.1 | 22.5 | 20.9 | 20.4 | 16.8 | 18.0 | 18.1 | 19.4 | 202.6                | 202.4                  | 195.0                    |
|                                      | 10     | 16.1 | 18.5 | 17.1 | 17.5 | 15.9 | 15.4 | 11.8 | 13.0 | 13.1 | 14.4 | 152.6                | 152.4                  | 145.0                    |

| 2nd 10-day period<br>(11-20/07/2017)         |      | Previous Year<br>Value | Past Years<br>Mean Value |
|--|------|------------------------|--------------------------|
| Reference Evapotranspiration                 | 59.0 | 60.9                   | 57.1                     |
| Precipitation - Reference Evapotranspiration | -6.4 | -60.9                  | -53.7                    |
| Number of Rainy Days                         | 1.0  | 0.0                    | 0.4                      |
| Number of Dry Days                           | 27.0 | 13.0                   | -                        |

Diagram of Accumulated Precipitation and Accumulated Reference Evapotranspiration

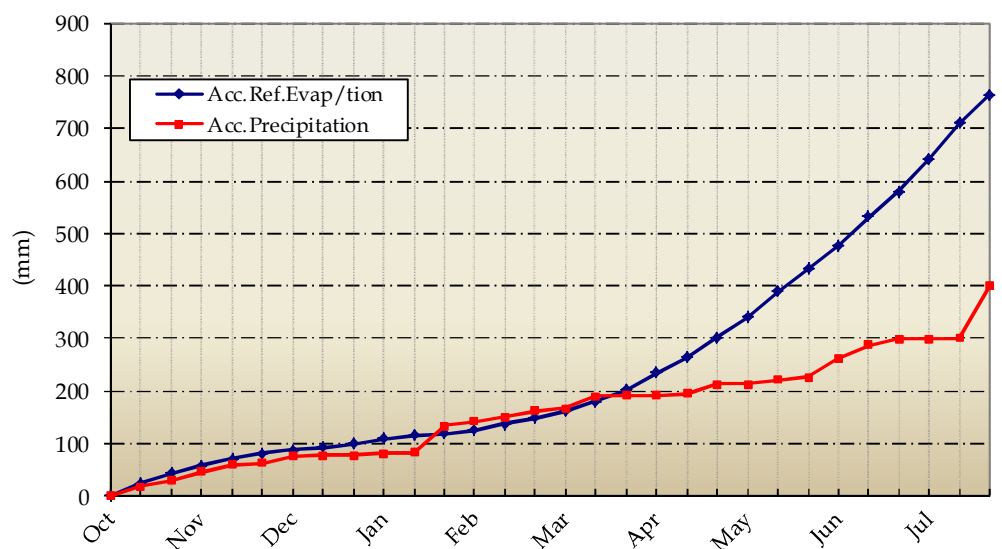


Larisa

| 2nd 10-day period<br>(11-20/07/2017) |        | 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    | 37.2 | 40.2 | 38.2 | 33.4 | 31.2 | 27.2 | 18.6 | 27.4 | 29.6 | 31.0 | 31.4                 | 34.0                   | 33.3                     |
|                                      | Min    | 20.4 | 20.4 | 21.4 | 26.8 | 23.4 | 14.0 | 10.4 | 15.0 | 16.0 | 16.4 | 18.4                 | 20.6                   | 17.9                     |
| Relative Humidity                    | Max    | 73   | 79   | 80   | 66   | 88   | 100  | 100  | 96   | 89   | 86   | 86                   | 69                     | -                        |
|                                      | Min    | 26   | 15   | 22   | 31   | 44   | 53   | 84   | 37   | 33   | 31   | 38                   | 23                     | -                        |
| Soil Temperature at 10 cm            | 06 UTC | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -                    | 28.1                   | 26.6                     |
|                                      | 12 UTC | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -                    | 28.3                   | 29.2                     |
| Sunshine Duration                    |        | 11.9 | 11.8 | 12.3 | 10.9 | 9.4  | 1.8  | 0.0  | 10.1 | 11.4 | 12.2 | 9.2                  | 10.6                   | 11.0                     |
| Precipitation                        |        |      |      |      |      |      | 49.5 | 50.5 |      |      |      | 100.0                |                        | 9.9                      |
| Evaporation                          |        | 13.4 | 12.4 | 13.7 | 13.1 | 12.5 | 0.0  | 0.0  | 6.8  | 15.8 | 3.2  | 90.9                 | 119.5                  | 96.3                     |
| Growing Degrees                      | 5      | 23.8 | 25.3 | 24.8 | 25.1 | 22.3 | 15.6 | 9.5  | 16.2 | 17.8 | 18.7 | 199.1                | 223.3                  | 205.9                    |
|                                      | 10     | 18.8 | 20.3 | 19.8 | 20.1 | 17.3 | 10.6 | 4.5  | 11.2 | 12.8 | 13.7 | 149.1                | 173.3                  | 155.9                    |

| 2nd 10-day period<br>(11-20/07/2017)         |      | Previous Year<br>Value | Past Years<br>Mean Value |
|--|------|------------------------|--------------------------|
| Reference Evapotranspiration                 | 55.0 | 67.8                   | 62.2                     |
| Precipitation - Reference Evapotranspiration | 45.0 | -67.8                  | -52.3                    |
| Number of Rainy Days                         | 2.0  | 0.0                    | 1.2                      |
| Number of Dry Days                           | 5.0  | 13.0                   | -                        |

Diagram of Accumulated Precipitation and Accumulated Reference Evapotranspiration

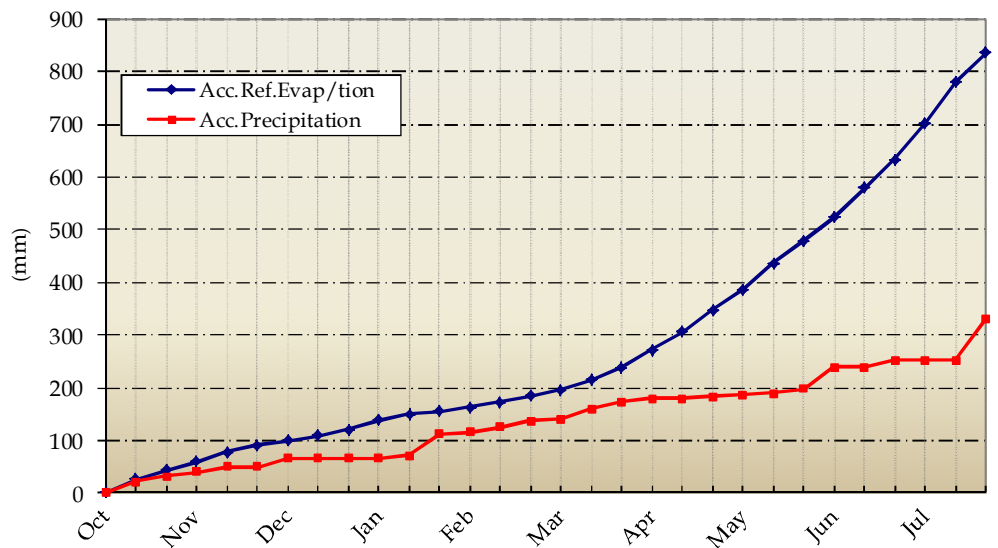


Mikra

| 2nd 10-day period<br>(11-20/07/2017) |        | 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    | 34.0 | 37.0 | 37.2 | 33.0 | 30.0 | 25.8 | 20.2 | 28.8 | 30.4 | 31.0 | 30.7                 | 31.8                   | 31.7                     |
|                                      | Min    | 22.0 | 21.7 | 21.6 | 27.2 | 21.0 | 18.0 | 17.5 | 17.2 | 16.7 | 17.8 | 20.1                 | 22.2                   | 18.9                     |
| Relative Humidity                    | Max    | 64   | 69   | 61   | 89   | 78   | 90   | 91   | 87   | 81   | 75   | 78                   | 68                     | -                        |
|                                      | Min    | 27   | 24   | 23   | 32   | 45   | 59   | 58   | 31   | 25   | 28   | 35                   | 31                     | -                        |
| Soil Temperature at 10 cm            | 06 UTC | 31.1 | 31.2 | 31.3 | 32.2 | 29.6 | 38.6 | 22.2 | 21.4 | 22.9 | 24.3 | 28.5                 | 29.9                   | 26.6                     |
|                                      | 12 UTC | 37.2 | 35.9 | 36.6 | 35.8 | 33.8 | 29.0 | 21.2 | 25.8 | 28.4 | 30.4 | 31.4                 | 34.4                   | 31.5                     |
| Sunshine Duration                    |        | 13.1 | 13.1 | 13.0 | 8.2  | 10.5 | 0.3  | 0.0  | 7.2  | 13.4 | 12.9 | 9.2                  | 11.8                   | 10.8                     |
| Precipitation                        |        |      |      |      |      | 8.0  | 18.7 | 51.8 | 0.0  |      |      | 78.5                 |                        | 4.3                      |
| Evaporation                          |        | 11.1 | 13.5 | 11.3 | 4.6  | 11.4 | 0.0  | 0.0  | 6.8  | 12.9 | 7.1  | 78.7                 | 117.6                  | 94.9                     |
| Growing Degrees                      | 5      | 23.0 | 24.4 | 24.4 | 25.1 | 20.5 | 16.9 | 13.9 | 18.0 | 18.6 | 19.4 | 204.1                | 220.1                  | 203.4                    |
|                                      | 10     | 18.0 | 19.4 | 19.4 | 20.1 | 15.5 | 11.9 | 8.9  | 13.0 | 13.6 | 14.4 | 154.1                | 170.1                  | 153.4                    |

| 2nd 10-day period<br>(11-20/07/2017)         |      | Previous Year<br>Value | Past Years<br>Mean Value |
|--|------|------------------------|--------------------------|
| Reference Evapotranspiration                 | 55.9 | 73.7                   | 60.5                     |
| Precipitation - Reference Evapotranspiration | 22.6 | -73.7                  | -56.2                    |
| Number of Rainy Days                         | 3.0  | 0.0                    | 1.4                      |
| Number of Dry Days                           | 29.0 | 13.0                   | -                        |

Diagram of Accumulated Precipitation and Accumulated Reference Evapotranspiration

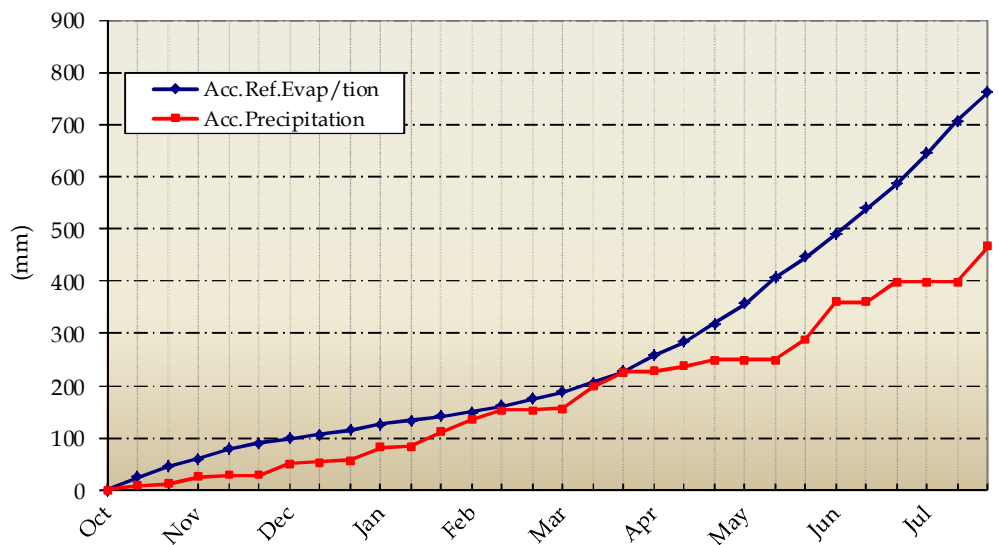




| 2nd 10-day period<br>(11-20/07/2017) |        | 11   | 12   | 13   | 14   | 15   | 16   | 17   | 18   | 19   | 20   | Mean Value<br>or Sum | Previous Year<br>Value | Past Years<br>Mean Value |
|--------------------------------------|--------|------|------|------|------|------|------|------|------|------|------|----------------------|------------------------|--------------------------|
| Temperature                          | Max    | 34.8 | 37.6 | 37.1 | 34.0 | 31.2 | 30.7 | 24.0 | 24.9 | 28.2 | 29.0 | 31.2                 | 32.4                   | 32.1                     |
|                                      | Min    | 20.7 | 21.0 | 20.9 | 20.8 | 22.0 | 19.4 | 16.9 | 18.6 | 16.8 | 17.0 | 19.4                 | 20.6                   | 18.3                     |
| Relative Humidity                    | Max    | 58   | 62   | 63   | 60   | 70   | 97   | 100  | 83   | 80   | 47   | 72                   | 62                     | -                        |
|                                      | Min    | 22   | 15   | 21   | 28   | 34   | 27   | 53   | 44   | 31   | 37   | 31                   | 22                     | -                        |
| Soil Temperature at 10 cm            | 06 UTC | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -                    | -                      | -                        |
|                                      | 12 UTC | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -                    | -                      | -                        |
| Sunshine Duration                    |        | 13.0 | 13.1 | 12.7 | 12.4 | 12.5 | 7.0  | 3.1  | 7.6  | 13.1 | 13.1 | 10.8                 | 12.6                   |                          |
| Precipitation                        |        |      |      |      |      |      | 0.0  | 68.1 |      |      |      | 68.1                 |                        | 2.0                      |
| Evaporation                          |        | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -                    | -                      | -                        |
| Growing Degrees                      | 5      | 22.8 | 24.3 | 24.0 | 22.4 | 21.6 | 20.1 | 15.5 | 16.8 | 17.5 | 18.0 | 202.8                | 215.0                  |                          |
|                                      | 10     | 17.8 | 19.3 | 19.0 | 17.4 | 16.6 | 15.1 | 10.5 | 11.8 | 12.5 | 13.0 | 152.8                | 165.0                  |                          |

| 2nd 10-day period<br>(11-20/07/2017)         |      | Previous Year<br>Value | Past Years<br>Mean Value |
|--|------|------------------------|--------------------------|
| Reference Evapotranspiration                 | 54.5 | 63.6                   |                          |
| Precipitation - Reference Evapotranspiration | 13.6 | -63.6                  | 2.0                      |
| Number of Rainy Days                         | 1.0  | 0.0                    | 0.4                      |
| Number of Dry Days                           | 28.0 | 22.0                   | -                        |

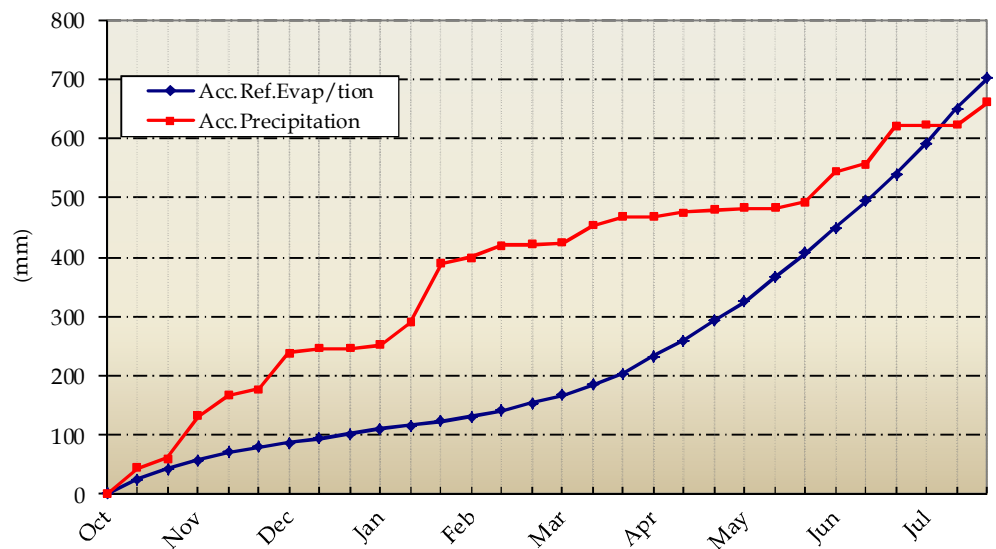
Diagram of Accumulated Precipitation and Accumulated Reference Evapotranspiration



| 2nd 10-day period<br>(11-20/07/2017) |        | 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    | 34.5 | 40.1 | 35.8 | 35.0 | 31.2 | 28.8 | 28.8 | 27.1 | 28.6 | 30.5 | 32.0                 | 30.6                   | 30.6                     |
|                                      | Min    | 16.6 | 16.4 | 15.4 | 16.8 | 15.6 | 16.5 | 15.4 | 13.8 | 12.0 | 12.0 | 15.0                 | 14.9                   | 14.1                     |
| Relative Humidity                    | Max    | 87   | 90   | 71   | 77   | 100  | 100  | 93   | 100  | 93   | 95   | 91                   | 91                     | -                        |
|                                      | Min    | 26   | 26   | 14   | 22   | 30   | 30   | 60   | 35   | 26   | 25   | 29                   | 27                     | -                        |
| Soil Temperature at 10 cm            | 06 UTC | 28.2 | 28.0 | 28.2 | 28.8 | 28.0 | 28.0 | 21.8 | 22.0 | 21.8 | 22.4 | 25.7                 | 25.6                   | 25.3                     |
|                                      | 12 UTC | 34.8 | 34.8 | 34.8 | 35.2 | -    | -    | 24.2 | 26.2 | 26.8 | 27.4 | 30.5                 | 30.3                   | 28.3                     |
| Sunshine Duration                    |        | 11.0 | 13.0 | 12.9 | 9.5  | 9.4  | 5.9  | 4.9  | 8.7  | 12.9 | 12.8 | 10.1                 | 12.3                   | 10.5                     |
| Precipitation                        |        |      |      |      |      |      | 0.0  | 37.1 |      |      |      | 37.1                 |                        | 9.1                      |
| Evaporation                          |        | 7.7  | 10.4 | 9.5  | 7.8  | 6.7  | 6.4  | 2.9  | 5.7  | 7.1  | 7.9  | 72.1                 | 79.8                   | 63.7                     |
| Growing Degrees                      | 5      | 20.6 | 23.3 | 20.6 | 20.9 | 18.4 | 17.7 | 17.1 | 15.5 | 15.3 | 16.3 | 185.5                | 177.5                  | 173.2                    |
|                                      | 10     | 15.6 | 18.3 | 15.6 | 15.9 | 13.4 | 12.7 | 12.1 | 10.5 | 10.3 | 11.3 | 135.5                | 127.5                  | 123.2                    |

| 2nd 10-day period<br>(11-20/07/2017)         |       | Previous Year<br>Value | Past Years<br>Mean Value |
|--|-------|------------------------|--------------------------|
| Reference Evapotranspiration                 | 51.1  | 55.4                   | 53.3                     |
| Precipitation - Reference Evapotranspiration | -14.0 | -55.4                  | -44.2                    |
| Number of Rainy Days                         | 1.0   | 0.0                    | 1.4                      |
| Number of Dry Days                           | 19.0  | 14.0                   | -                        |

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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