



AGROMETEOROLOGICAL BULLETIN

November 2018
3rd 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



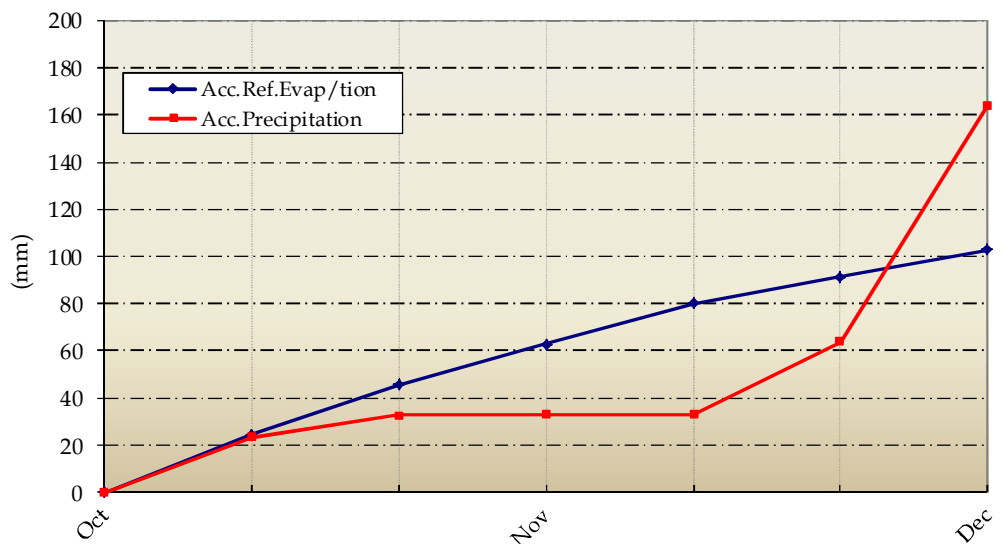
Hellenic National Meteorological Service
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www.hnms.gr
www.emy.gov.gr
www.meteo.gov.gr
www.meteohellas.gr

| 3rd 10-day period (21-30/11/2018) | | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | Mean Value or Sum | Previous Year Value | Past Years Mean Value |
|--------------------------------------|--------|------|------|------|------|------|------|------|------|-----|-----|----------------------|------------------------|--------------------------|
| Temperature | Max | 17.6 | 14.4 | 11.4 | 12.2 | 12.4 | 17.4 | 17.6 | 17.0 | 3.4 | 4.8 | 12.8 | 14.4 | 12.8 |
| | Min | 11.4 | 8.0 | 4.4 | 1.8 | 4.0 | 11.6 | 15.2 | 3.4 | 1.8 | 0.8 | 6.2 | 5.0 | 5.0 |
| Relative Humidity | Max | 95 | 89 | 84 | 78 | 98 | 93 | 100 | 93 | 83 | 69 | 88 | 94 | - |
| | Min | 76 | 67 | 39 | 42 | 72 | 66 | 80 | 69 | 60 | 49 | 62 | 68 | - |
| Soil Temperature at 10 cm | 06 UTC | 12.6 | 12.6 | 9.0 | 7.6 | 7.8 | 11.6 | 13.6 | 14.6 | 7.4 | 5.4 | 10.2 | 8.7 | 8.6 |
| | 12 UTC | 14.6 | 12.2 | 11.0 | 10.2 | 10.0 | 13.0 | 14.6 | 14.0 | 7.2 | 6.0 | 11.3 | 10.6 | 10.3 |
| Sunshine Duration | | 4.0 | 0.0 | 1.8 | 8.3 | 0.6 | 1.4 | 0.0 | 2.0 | 0.0 | 0.8 | 1.9 | 4.3 | 3.2 |
| Precipitation | | 12.1 | 3.1 | | | | 4.0 | 20.7 | 58.7 | 1.5 | 0.0 | 100.1 | 25.6 | 32.9 |
| Evaporation | | 1.7 | 1.0 | 2.2 | 1.2 | 1.1 | 1.0 | 1.1 | 7.0 | 2.6 | 0.0 | 18.9 | 10.4 | 16.3 |
| Growing Degrees | 5 | 9.5 | 6.2 | 2.9 | 2.0 | 3.2 | 9.5 | 11.4 | 5.2 | 0.0 | 0.0 | 49.9 | 47.3 | 42.5 |
| | 10 | 4.5 | 1.2 | 0.0 | 0.0 | 0.0 | 4.5 | 6.4 | 0.2 | 0.0 | 0.0 | 16.8 | 4.2 | 11.5 |

| 3rd 10-day period (21-30/11/2018) | | Previous Year Value | Past Years Mean Value |
|--|------|------------------------|--------------------------|
| Reference Evapotranspiration | 11.2 | 8.2 | 9.6 |
| Precipitation - Reference Evapotranspiration | 88.9 | 17.4 | 23.3 |
| Number of Rainy Days | 6.0 | 4.0 | 3.3 |
| Number of Dry Days | 0.0 | 5.0 | - |

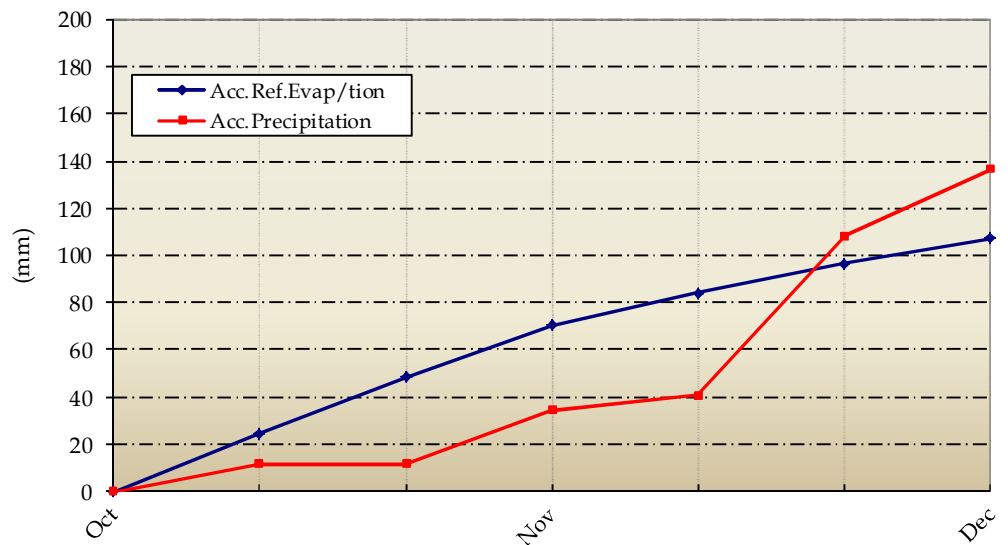
Diagram of Accumulated Precipitation and Accumulated Reference Evapotranspiration



| 3rd 10-day period (21-30/11/2018) | | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | Mean Value or Sum | Previous Year Value | Past Years Mean Value |
|--------------------------------------|--------|------|------|------|------|------|------|------|------|------|------|----------------------|------------------------|--------------------------|
| Temperature | Max | 20.4 | 20.2 | 20.0 | 19.8 | 19.8 | 21.2 | 19.2 | 17.2 | 15.8 | 14.6 | 18.8 | 16.6 | 17.0 |
| | Min | 15.0 | 11.8 | 8.1 | 5.5 | 11.0 | 15.6 | 15.9 | 11.0 | 6.4 | 5.6 | 10.6 | 7.8 | 8.6 |
| Relative Humidity | Max | 96 | 92 | 100 | 99 | 87 | 94 | 100 | 99 | 100 | 87 | 95 | 87 | - |
| | Min | 56 | 57 | 48 | 42 | 60 | 53 | 64 | 65 | 38 | 39 | 52 | 52 | - |
| Soil Temperature at 10 cm | 06 UTC | 16.0 | 15.4 | 14.2 | 14.0 | 15.4 | 16.2 | 16.0 | 15.4 | 14.2 | 12.8 | 15.0 | 12.4 | 11.7 |
| | 12 UTC | 17.2 | 17.2 | 17.4 | 15.0 | 16.2 | 17.0 | 16.8 | 16.6 | 15.2 | 12.6 | 16.1 | 14.0 | 13.4 |
| Sunshine Duration | | 4.4 | 7.8 | 7.6 | 7.1 | 1.1 | 5.1 | 1.1 | 1.6 | 6.7 | 7.2 | 5.0 | 4.6 | 4.6 |
| Precipitation | | 4.7 | 2.5 | | | 0.7 | 7.0 | 8.8 | 4.8 | | | 28.5 | 33.6 | 62.9 |
| Evaporation | | 1.8 | 4.5 | 2.0 | 1.2 | 1.4 | 1.8 | 0.3 | 2.1 | 4.0 | 3.6 | 22.7 | 36.6 | 20.2 |
| Growing Degrees | 5 | 12.7 | 11.0 | 9.1 | 7.7 | 10.4 | 13.4 | 12.6 | 9.1 | 6.1 | 5.1 | 97.1 | 72.0 | 78.3 |
| | 10 | 7.7 | 6.0 | 4.1 | 2.7 | 5.4 | 8.4 | 7.6 | 4.1 | 1.1 | 0.1 | 47.1 | 22.1 | 31.1 |

| 3rd 10-day period (21-30/11/2018) | | Previous Year Value | Past Years Mean Value |
|--|------|------------------------|--------------------------|
| Reference Evapotranspiration | 10.9 | 13.2 | 10.9 |
| Precipitation - Reference Evapotranspiration | 17.6 | 20.4 | 52.0 |
| Number of Rainy Days | 6.0 | 4.0 | 5.0 |
| Number of Dry Days | 1.0 | 5.0 | - |

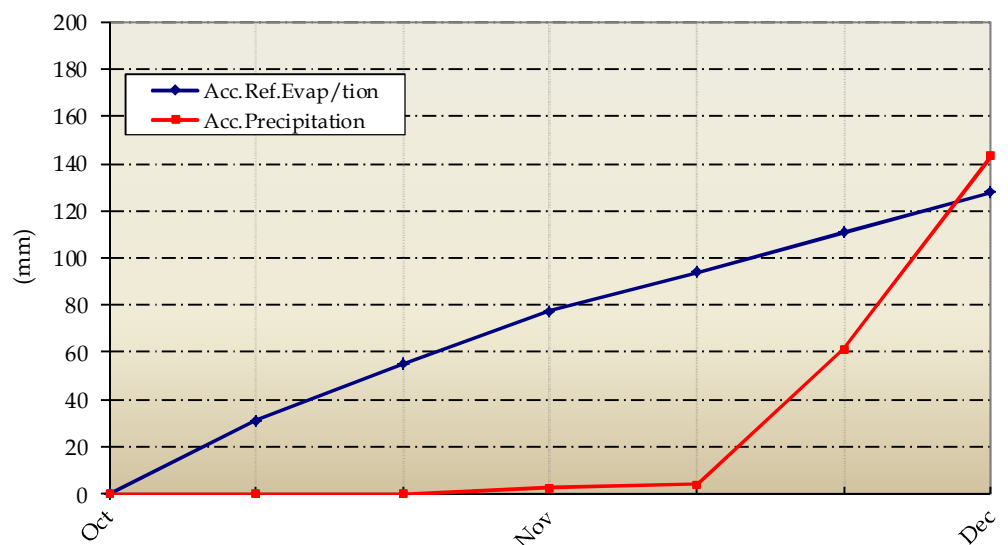
Diagram of Accumulated Precipitation and Accumulated Reference Evapotranspiration



| 3rd 10-day period (21-30/11/2018) | | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | Mean Value or Sum | Previous Year Value | Past Years Mean Value |
|--------------------------------------|--------|------|------|------|------|------|------|------|------|------|------|----------------------|------------------------|--------------------------|
| Temperature | Max | 25.2 | 21.0 | 17.6 | 17.4 | 18.2 | 20.4 | 21.8 | 21.4 | 20.6 | 13.2 | 19.7 | 18.6 | 18.8 |
| | Min | 20.6 | 15.6 | 16.0 | 15.4 | 11.4 | 13.8 | 17.2 | 15.6 | 14.8 | 12.2 | 15.3 | 11.7 | 12.7 |
| Relative Humidity | Max | 91 | 91 | 93 | 92 | 92 | 91 | 84 | 93 | 93 | 90 | 91 | 84 | - |
| | Min | 59 | 69 | 72 | 72 | 75 | 71 | 60 | 68 | 67 | 70 | 68 | 55 | - |
| Soil Temperature at 10 cm | 06 UTC | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | 12 UTC | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Sunshine Duration | | 6.2 | 7.3 | 2.7 | 5.6 | 3.7 | 1.2 | 2.0 | 5.1 | 3.8 | 0.0 | 3.8 | 5.7 | 4.6 |
| Precipitation | | | 2.5 | 1.8 | | | 5.4 | | 1.0 | 22.2 | 49.1 | 82.0 | 4.0 | 25.7 |
| Evaporation | | 4.4 | 2.3 | 4.2 | 2.7 | 2.3 | 2.6 | 2.6 | 1.9 | 0.0 | 1.8 | 24.8 | 21.1 | 32.4 |
| Growing Degrees | 5 | 17.9 | 13.3 | 11.8 | 11.4 | 9.8 | 12.1 | 14.5 | 13.5 | 12.7 | 7.7 | 124.7 | 101.7 | 107.2 |
| | 10 | 12.9 | 8.3 | 6.8 | 6.4 | 4.8 | 7.1 | 9.5 | 8.5 | 7.7 | 2.7 | 74.7 | 51.7 | 57.3 |

| 3rd 10-day period (21-30/11/2018) | | Previous Year Value | Past Years Mean Value |
|--|------|------------------------|--------------------------|
| Reference Evapotranspiration | 17.0 | 17.4 | - |
| Precipitation - Reference Evapotranspiration | 65.0 | -13.4 | 25.7 |
| Number of Rainy Days | 6.0 | 3.0 | 3.7 |
| Number of Dry Days | 4.0 | 2.0 | - |

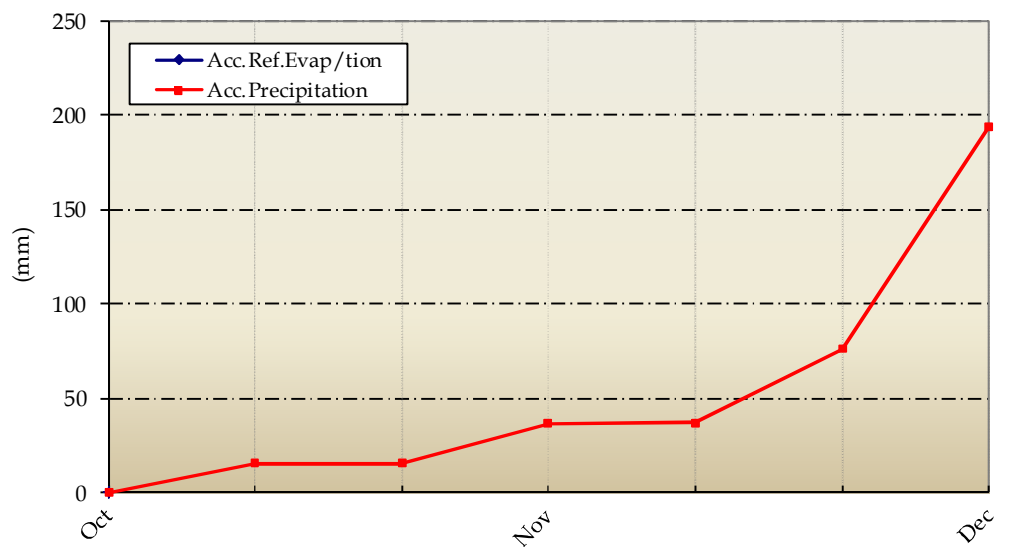
Diagram of Accumulated Precipitation and Accumulated Reference Evapotranspiration



| 3rd 10-day period (21-30/11/2018) | | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | Mean Value or Sum | Previous Year Value | Past Years Mean Value |
|--------------------------------------|--------|------|------|------|------|------|------|------|------|------|------|----------------------|------------------------|--------------------------|
| Temperature | Max | 14.8 | 16.4 | 14.8 | 14.0 | 12.4 | 15.2 | 12.8 | 13.2 | 11.0 | 10.4 | 13.5 | 11.9 | 12.0 |
| | Min | 8.0 | 10.0 | 5.0 | 1.8 | 6.8 | 10.2 | 10.2 | 7.4 | 5.4 | 0.6 | 6.5 | 0.1 | 3.6 |
| Relative Humidity | Max | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 97 | 91 | 93 | 98 | 99 | - |
| | Min | 85 | 58 | 88 | 80 | 90 | 73 | 91 | 68 | 42 | 35 | 71 | 61 | - |
| Soil Temperature at 10 cm | 06 UTC | - | - | - | - | - | - | - | - | - | - | - | - | 7.1 |
| | 12 UTC | - | - | - | - | - | - | - | - | - | - | - | - | 8.3 |
| Sunshine Duration | | 0.0 | 5.4 | 1.9 | 3.4 | 0.0 | 2.2 | 0.0 | 1.6 | 6.0 | 6.4 | 2.7 | 3.4 | 2.6 |
| Precipitation | | 11.1 | 0.1 | | | 6.4 | 45.4 | 44.1 | 11.0 | | | 118.1 | 61.4 | 57.0 |
| Evaporation | | - | - | - | - | - | - | - | - | - | - | - | - | 9.5 |
| Growing Degrees | 5 | 6.4 | 8.2 | 4.9 | 2.9 | 4.6 | 7.7 | 6.5 | 5.3 | 3.2 | 0.5 | 50.2 | 14.6 | 31.9 |
| | 10 | 1.4 | 3.2 | 0.0 | 0.0 | 0.0 | 2.7 | 1.5 | 0.3 | 0.0 | 0.0 | 9.1 | 0.0 | 4.7 |

| 3rd 10-day period (21-30/11/2018) | | Previous Year Value | Past Years Mean Value |
|--|-----|------------------------|--------------------------|
| Reference Evapotranspiration | - | - | 6.7 |
| Precipitation - Reference Evapotranspiration | - | - | 50.3 |
| Number of Rainy Days | 6.0 | 4.0 | 5.1 |
| Number of Dry Days | 0.0 | 5.0 | - |

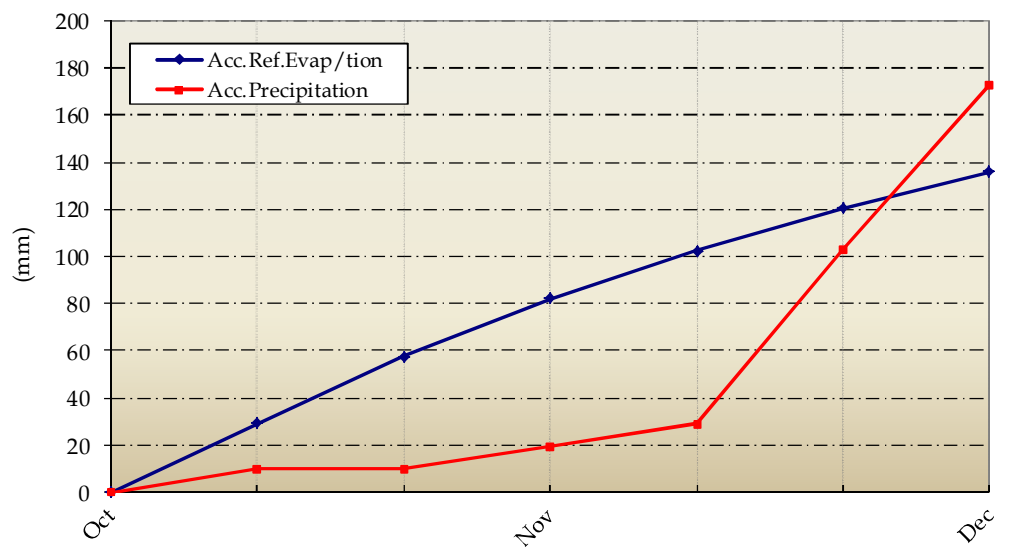
Diagram of Accumulated Precipitation and Accumulated Reference Evapotranspiration



| 3rd 10-day period (21-30/11/2018) | | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | Mean Value or Sum | Previous Year Value | Past Years Mean Value |
|--------------------------------------|--------|------|------|------|------|------|------|------|------|------|------|----------------------|------------------------|--------------------------|
| Temperature | Max | 22.3 | 21.1 | 20.6 | 20.4 | 18.0 | 20.6 | 18.9 | 17.0 | 16.7 | 16.4 | 19.2 | 18.2 | 18.0 |
| | Min | 12.6 | 9.1 | 9.2 | 8.9 | 11.8 | 16.0 | 13.5 | 11.5 | 11.3 | 6.8 | 11.1 | 6.2 | 8.3 |
| Relative Humidity | Max | 91 | 92 | 87 | 91 | 93 | 90 | 92 | 93 | 53 | 74 | 86 | 90 | - |
| | Min | 48 | 49 | 47 | 54 | 73 | 57 | 74 | 59 | 39 | 33 | 53 | 44 | - |
| Soil Temperature at 10 cm | 06 UTC | 16.2 | 15.0 | 14.8 | 14.4 | 15.2 | 15.2 | 16.2 | 15.8 | 15.0 | 13.2 | 15.1 | - | 12.7 |
| | 12 UTC | 17.0 | 16.2 | 15.8 | 15.6 | 15.4 | 16.6 | 16.6 | 15.4 | 15.2 | 13.8 | 15.8 | - | 13.9 |
| Sunshine Duration | | 6.5 | 8.3 | 8.4 | 7.4 | 0.0 | 3.4 | 0.0 | 1.3 | 6.9 | 7.8 | 5.0 | 6.3 | 4.3 |
| Precipitation | | 0.3 | | | | 4.7 | 29.6 | 22.0 | 13.5 | | | 70.1 | 41.7 | 54.0 |
| Evaporation | | 0.8 | 3.1 | 1.2 | 0.2 | 0.6 | 1.0 | 0.0 | 1.6 | 3.4 | 1.8 | 13.7 | 14.1 | 26.0 |
| Growing Degrees | 5 | 12.5 | 10.1 | 9.9 | 9.7 | 9.9 | 13.3 | 11.2 | 9.3 | 9.0 | 6.6 | 101.4 | 72.0 | 81.4 |
| | 10 | 7.5 | 5.1 | 4.9 | 4.7 | 4.9 | 8.3 | 6.2 | 4.3 | 4.0 | 1.6 | 51.4 | 22.3 | 33.0 |

| 3rd 10-day period (21-30/11/2018) | | Previous Year Value | Past Years Mean Value |
|--|------|------------------------|--------------------------|
| Reference Evapotranspiration | 15.4 | 15.6 | 12.1 |
| Precipitation - Reference Evapotranspiration | 54.7 | 26.1 | 41.9 |
| Number of Rainy Days | 5.0 | 4.0 | 4.8 |
| Number of Dry Days | 1.0 | 6.0 | - |

Diagram of Accumulated Precipitation and Accumulated Reference Evapotranspiration

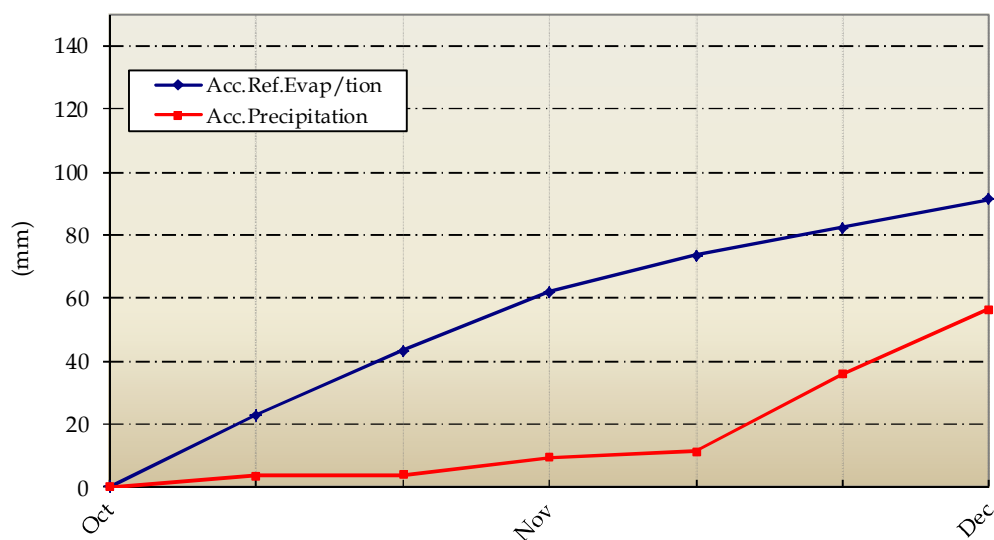


Larisa

| 3rd 10-day period (21-30/11/2018) | | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | Mean Value or Sum | Previous Year Value | Past Years Mean Value |
|--------------------------------------|--------|------|------|------|------|------|------|------|------|------|-----|----------------------|------------------------|--------------------------|
| Temperature | Max | 18.2 | 16.8 | 16.0 | 15.6 | 12.4 | 16.6 | 17.0 | 17.8 | 11.2 | 8.2 | 15.0 | 14.4 | 13.6 |
| | Min | 10.6 | 8.4 | 8.7 | 9.8 | 1.9 | 10.8 | 10.4 | 7.8 | 6.4 | 5.4 | 8.0 | 1.4 | 4.1 |
| Relative Humidity | Max | 96 | 98 | 93 | 96 | 97 | 100 | 99 | 99 | 79 | 86 | 94 | 99 | - |
| | Min | 68 | 53 | 61 | 59 | 80 | 78 | 80 | 53 | 61 | 53 | 65 | 54 | - |
| Soil Temperature at 10 cm | 06 UTC | - | - | - | - | - | - | - | - | - | - | - | - | 9.5 |
| | 12 UTC | - | - | - | - | - | - | - | - | - | - | - | - | 10.2 |
| Sunshine Duration | | 3.0 | 1.2 | 3.2 | 2.8 | 0.0 | 3.2 | 0.3 | 6.3 | 0.0 | 0.0 | 2.0 | 5.2 | 3.5 |
| Precipitation | | 6.2 | | | | 0.4 | 10.9 | 1.5 | | 1.6 | | 20.6 | 14.7 | 21.8 |
| Evaporation | | 0.6 | 1.4 | 1.8 | 1.0 | 0.1 | 0.0 | 0.3 | 5.3 | 0.5 | 0.4 | 11.4 | 16.3 | 10.2 |
| Growing Degrees | 5 | 9.4 | 7.6 | 7.4 | 7.7 | 2.2 | 8.7 | 8.7 | 7.8 | 3.8 | 1.8 | 65.0 | 29.3 | 40.6 |
| | 10 | 4.4 | 2.6 | 2.4 | 2.7 | 0.0 | 3.7 | 3.7 | 2.8 | 0.0 | 0.0 | 22.3 | 0.8 | 8.0 |

| 3rd 10-day period (21-30/11/2018) | | Previous Year Value | Past Years Mean Value |
|--|------|------------------------|--------------------------|
| Reference Evapotranspiration | 9.1 | 8.2 | 7.3 |
| Precipitation - Reference Evapotranspiration | 11.5 | 6.5 | 14.5 |
| Number of Rainy Days | 5.0 | 1.0 | 3.5 |
| Number of Dry Days | 1.0 | 6.0 | - |

Diagram of Accumulated Precipitation and Accumulated Reference Evapotranspiration

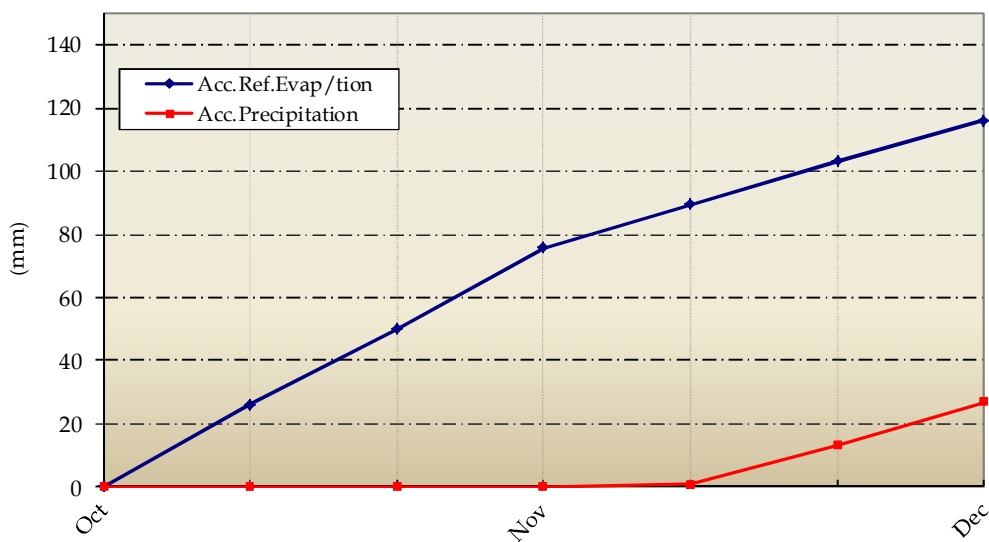


Mikra

| 3rd 10-day period (21-30/11/2018) | | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | Mean Value or Sum | Previous Year Value | Past Years Mean Value |
|--------------------------------------|--------|------|------|------|------|------|------|------|------|------|------|----------------------|------------------------|--------------------------|
| Temperature | Max | 16.5 | 15.4 | 15.8 | 13.8 | 14.4 | 17.4 | 18.4 | 15.0 | 9.2 | 9.2 | 14.5 | 12.7 | 13.2 |
| | Min | 12.6 | 11.1 | 11.0 | 9.6 | 11.9 | 12.2 | 11.4 | 9.2 | 6.4 | 2.9 | 9.8 | 3.9 | 5.2 |
| Relative Humidity | Max | 92 | 79 | 83 | 90 | 78 | 92 | 92 | 93 | 73 | 72 | 84 | 85 | - |
| | Min | 63 | 55 | 54 | 58 | 69 | 64 | 64 | 60 | 49 | 36 | 57 | 50 | - |
| Soil Temperature at 10 cm | 06 UTC | 13.6 | 12.5 | 13.0 | 12.5 | 13.0 | 13.5 | 14.0 | 13.6 | 10.4 | 8.6 | 12.5 | 8.9 | 8.8 |
| | 12 UTC | 15.0 | 13.8 | 14.5 | 13.6 | 14.2 | 14.8 | 15.0 | 14.6 | 11.5 | 10.2 | 13.7 | 9.7 | 10.6 |
| Sunshine Duration | | 2.1 | 1.8 | 5.9 | 0.1 | 0.0 | 1.8 | 0.7 | 1.9 | 0.0 | 3.7 | 1.8 | 5.7 | 3.5 |
| Precipitation | | 3.3 | 0.7 | | 1.6 | 0.1 | 6.7 | 0.6 | 0.1 | 0.4 | | 13.5 | 23.3 | 21.0 |
| Evaporation | | 1.1 | 2.6 | 0.2 | 2.5 | 0.2 | 2.3 | 0.1 | 2.2 | 1.3 | 2.2 | 14.7 | 13.8 | 15.7 |
| Growing Degrees | 5 | 9.6 | 8.3 | 8.4 | 6.7 | 8.2 | 9.8 | 9.9 | 7.1 | 2.8 | 1.1 | 71.7 | 33.5 | 43.9 |
| | 10 | 4.6 | 3.3 | 3.4 | 1.7 | 3.2 | 4.8 | 4.9 | 2.1 | 0.0 | 0.0 | 27.9 | 0.7 | 10.2 |

| 3rd 10-day period (21-30/11/2018) | | Previous Year Value | Past Years Mean Value |
|--|------|------------------------|--------------------------|
| Reference Evapotranspiration | 12.7 | 10.7 | 9.9 |
| Precipitation - Reference Evapotranspiration | 0.8 | 12.6 | 11.1 |
| Number of Rainy Days | 8.0 | 1.0 | 3.6 |
| Number of Dry Days | 0.0 | 6.0 | - |

Diagram of Accumulated Precipitation and Accumulated Reference Evapotranspiration

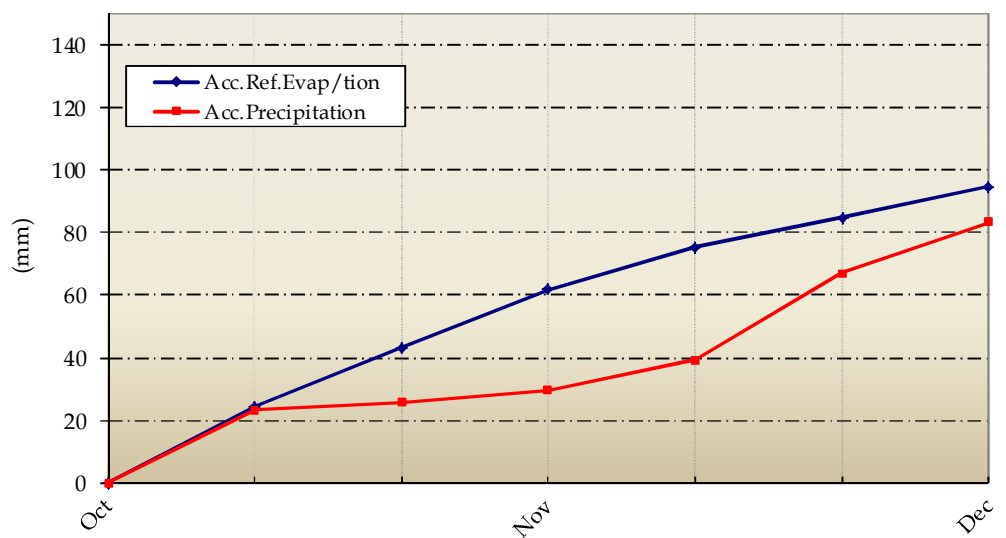


Tanagra

| 3rd 10-day period (21-30/11/2018) | | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | Mean Value or Sum | Previous Year Value | Past Years Mean Value |
|--------------------------------------|--------|------|------|------|------|------|------|------|------|------|-----|----------------------|------------------------|--------------------------|
| Temperature | Max | 21.4 | 16.4 | 18.3 | 13.9 | 14.5 | 20.8 | 19.6 | 18.1 | 10.0 | 8.2 | 16.1 | 16.4 | 15.7 |
| | Min | 10.0 | 8.3 | 10.0 | 6.0 | 3.3 | 12.2 | 16.0 | 8.8 | 8.9 | 7.0 | 9.0 | 5.1 | 6.7 |
| Relative Humidity | Max | 100 | 93 | 97 | 100 | 100 | 97 | 93 | 98 | 78 | 87 | 94 | 98 | - |
| | Min | 46 | 62 | 65 | 56 | 73 | 54 | 55 | 46 | 64 | 68 | 59 | 46 | - |
| Soil Temperature at 10 cm | 06 UTC | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | 12 UTC | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Sunshine Duration | | 6.0 | 4.4 | 0.4 | 3.1 | 1.4 | 3.1 | 0.0 | 3.8 | 1.7 | 0.0 | 2.4 | 6.2 | |
| Precipitation | | 5.1 | | | | 0.1 | 3.3 | 1.7 | | 5.9 | 0.1 | 16.2 | 1.9 | 23.8 |
| Evaporation | | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Growing Degrees | 5 | 10.7 | 7.4 | 9.2 | 5.0 | 3.9 | 11.5 | 12.8 | 8.5 | 4.5 | 2.6 | 75.9 | 57.6 | |
| | 10 | 5.7 | 2.4 | 4.2 | 0.0 | 0.0 | 6.5 | 7.8 | 3.5 | 0.0 | 0.0 | 30.0 | 11.7 | |

| 3rd 10-day period (21-30/11/2018) | | Previous Year Value | Past Years Mean Value |
|--|------|------------------------|--------------------------|
| Reference Evapotranspiration | 10.1 | 9.6 | |
| Precipitation - Reference Evapotranspiration | 6.1 | -7.7 | 23.8 |
| Number of Rainy Days | 6.0 | 2.0 | 3.9 |
| Number of Dry Days | 2.0 | 6.0 | - |

Diagram of Accumulated Precipitation and Accumulated Reference Evapotranspiration

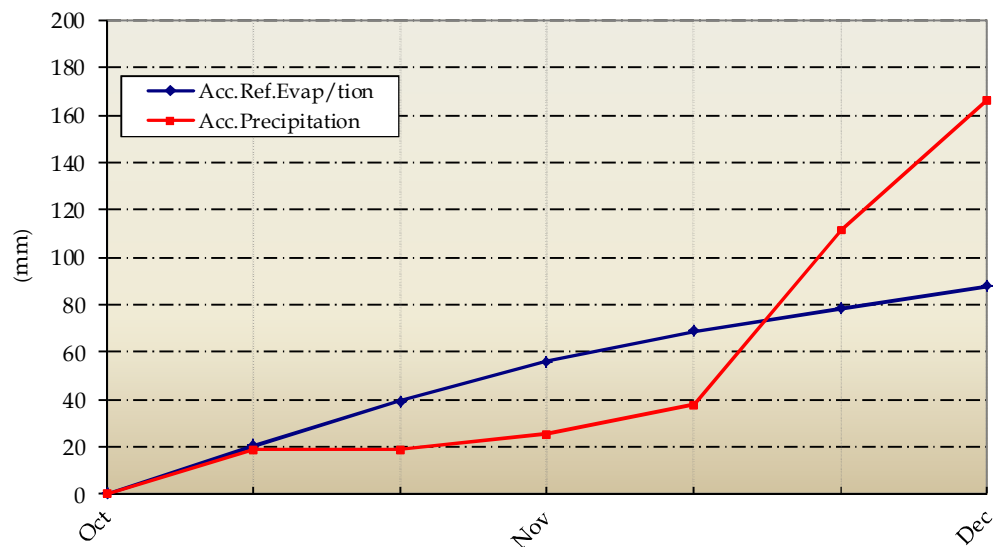


Tripoli

| 3rd 10-day period (21-30/11/2018) | | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | Mean Value or Sum | Previous Year Value | Past Years Mean Value |
|--------------------------------------|--------|------|------|------|------|------|------|------|------|------|-----|----------------------|------------------------|--------------------------|
| Temperature | Max | 17.0 | 17.7 | 14.8 | 14.7 | 13.0 | 15.0 | 13.8 | 12.5 | 10.0 | 7.1 | 13.6 | 14.4 | 12.9 |
| | Min | 7.7 | 5.3 | 3.0 | 5.4 | 4.4 | 11.2 | 10.3 | 7.5 | 6.0 | 1.3 | 6.2 | 0.8 | 3.6 |
| Relative Humidity | Max | 100 | 100 | 100 | 99 | 100 | 95 | 97 | 96 | 90 | 100 | 98 | 100 | - |
| | Min | 55 | 38 | 56 | 56 | 80 | 60 | 68 | 61 | 75 | 62 | 61 | 40 | - |
| Soil Temperature at 10 cm | 06 UTC | 10.6 | 9.4 | 8.6 | - | - | 11.6 | 10.8 | 10.4 | 9.8 | 7.4 | 9.8 | 7.2 | 8.3 |
| | 12 UTC | - | 12.4 | 11.8 | - | - | 12.8 | 12.4 | 11.8 | 10.2 | 8.8 | 11.5 | 8.9 | 9.4 |
| Sunshine Duration | | 7.2 | 8.1 | 7.5 | 7.5 | 0.0 | 0.0 | 0.0 | 2.9 | 2.5 | 5.7 | 4.1 | 6.0 | 4.2 |
| Precipitation | | 13.8 | | | | 0.0 | 11.3 | 17.6 | 12.1 | 0.5 | | 55.3 | 21.1 | 45.1 |
| Evaporation | | 1.5 | 1.2 | - | - | - | 0.4 | 0.1 | 1.2 | 1.1 | 0.0 | - | 3.3 | 13.0 |
| Growing Degrees | 5 | 7.4 | 6.5 | 3.9 | 5.1 | 3.7 | 8.1 | 7.1 | 5.0 | 3.0 | 0.0 | 49.7 | 26.8 | 35.8 |
| | 10 | 2.4 | 1.5 | 0.0 | 0.1 | 0.0 | 3.1 | 2.1 | 0.0 | 0.0 | 0.0 | 9.1 | 0.7 | 5.3 |

| 3rd 10-day period (21-30/11/2018) | | Previous Year Value | Past Years Mean Value |
|--|------|------------------------|--------------------------|
| Reference Evapotranspiration | 9.6 | 8.6 | 9.3 |
| Precipitation - Reference Evapotranspiration | 45.7 | 12.5 | 35.8 |
| Number of Rainy Days | 5.0 | 2.0 | 4.7 |
| Number of Dry Days | 1.0 | 6.0 | - |

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_n 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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