



AGROMETEOROLOGICAL BULLETIN

April 2012
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



Hellenic National Meteorological Service
Division of Climatology-Applications
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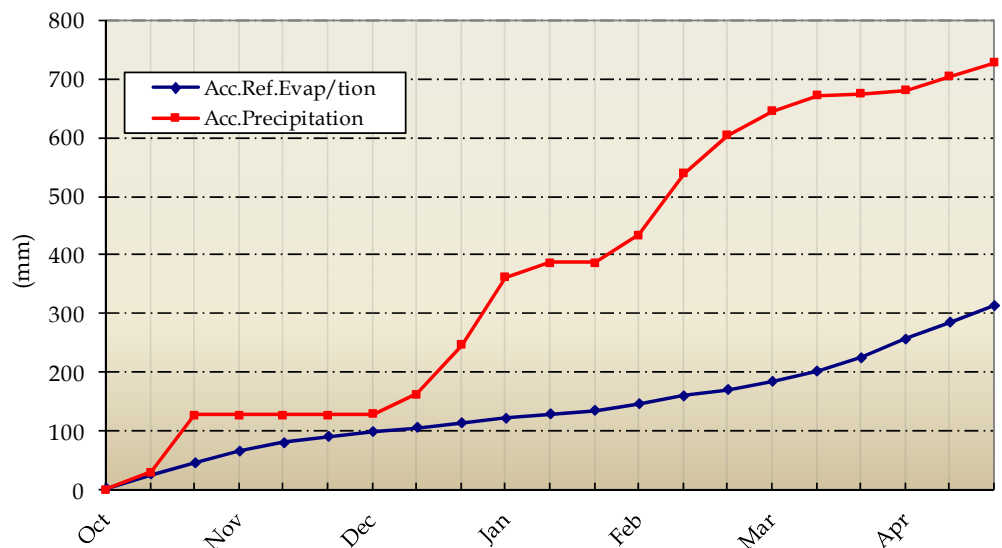
Web addresses of HNMS
www.hnms.gr
www.emy.gov.gr
www.meteo.gov.gr
www.meteohellas.gr

Agrinio

| 2nd 10-day period (11-20/04/2012) | | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | Mean Value or Sum | Previous Year Value | Past Years Mean Value |
|--------------------------------------|--------|------|------|------|------|------|------|------|------|------|------|----------------------|------------------------|--------------------------|
| Temperature | Max | 16.2 | 19.8 | 18.6 | 19.0 | 19.0 | 23.0 | 20.2 | 15.6 | 19.2 | 20.8 | 19.1 | 18.1 | 19.5 |
| | Min | 3.4 | 5.0 | 8.0 | 13.4 | 9.4 | 13.5 | 15.4 | 12.0 | 9.0 | 12.6 | 10.2 | 7.3 | 7.7 |
| Relative Humidity | Max | 94 | 80 | 89 | 89 | 83 | 85 | 89 | 95 | 90 | 87 | 88 | 94 | - |
| | Min | 56 | 37 | 65 | 83 | 69 | 39 | 63 | 72 | 53 | 55 | 59 | 49 | - |
| Soil Temperature at 10 cm | 06 UTC | 12.8 | 13.4 | 15.0 | 15.4 | 14.4 | 16.0 | 16.6 | 15.4 | 13.8 | 15.2 | 14.8 | 14.1 | 13.0 |
| | 12 UTC | 15.4 | 17.4 | 16.6 | 16.2 | 16.6 | 19.4 | 16.6 | 15.6 | 16.8 | 18.2 | 16.9 | 16.3 | 17.5 |
| Sunshine Duration | | 3.6 | 11.5 | 1.4 | 3.2 | 8.8 | 5.9 | 0.0 | 1.8 | 10.4 | 6.9 | 5.4 | 6.8 | 6.3 |
| Precipitation | | | | 0.5 | 8.6 | 0.7 | 0.6 | 0.9 | 12.8 | | | 24.1 | 52.7 | 28.9 |
| Evaporation | | 2.2 | 4.4 | 0.5 | 3.3 | 3.0 | 4.8 | 1.5 | 2.5 | 4.8 | 5.3 | 32.3 | 44.0 | 38.3 |
| Growing Degrees | 5 | 4.8 | 7.4 | 8.3 | 11.2 | 9.2 | 13.3 | 12.8 | 8.8 | 9.1 | 11.7 | 96.6 | 77.0 | 86.2 |
| | 10 | 0.0 | 2.4 | 3.3 | 6.2 | 4.2 | 8.3 | 7.8 | 3.8 | 4.1 | 6.7 | 46.8 | 27.3 | 36.9 |

| 2nd 10-day period (11-20/04/2012) | | Previous Year Value | Past Years Mean Value |
|--|------|------------------------|--------------------------|
| Reference Evapotranspiration | 28.4 | 27.4 | 28.5 |
| Precipitation - Reference Evapotranspiration | -4.3 | 25.3 | 0.4 |
| Number of Rainy Days | 6.0 | 3.0 | 3.9 |
| Number of Dry Days | 3.0 | 9.0 | - |

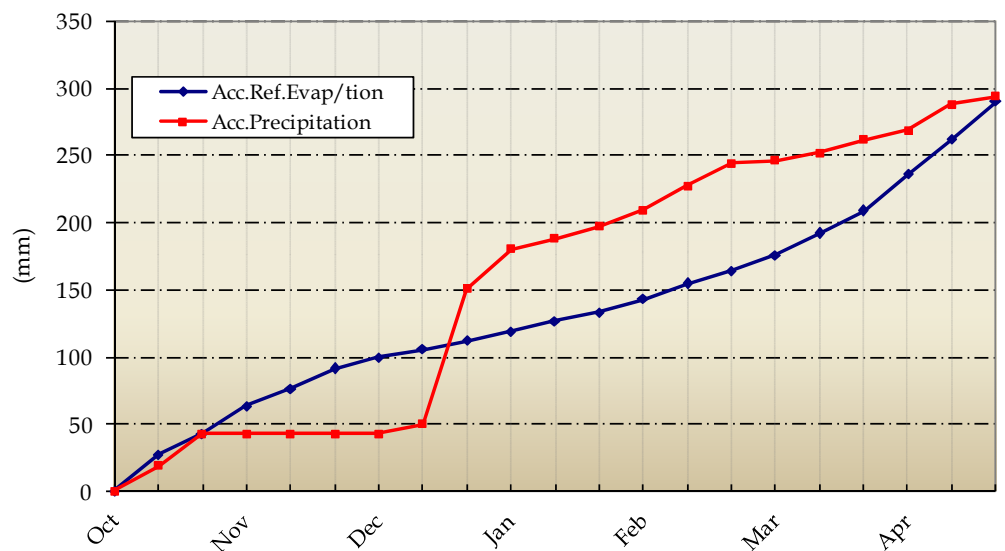
Diagram of Accumulated Precipitation and Accumulated Reference Evapotranspiration



| 2nd 10-day period (11-20/04/2012) | | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | Mean Value or Sum | Previous Year Value | Past Years Mean Value |
|--------------------------------------|--------|------|------|------|------|------|------|------|------|------|------|----------------------|------------------------|--------------------------|
| Temperature | Max | 13.2 | 17.4 | 18.2 | 18.2 | 19.0 | 19.4 | 18.8 | 17.2 | 18.2 | 17.4 | 17.7 | 14.9 | 16.6 |
| | Min | 1.0 | 7.8 | 10.4 | 14.4 | 14.2 | 8.8 | 14.8 | 12.0 | 11.0 | 14.4 | 10.9 | 5.9 | 7.0 |
| Relative Humidity | Max | 84 | 93 | 95 | 95 | 88 | 92 | 81 | 93 | 93 | 85 | 90 | 92 | - |
| | Min | 43 | 64 | 63 | 71 | 46 | 55 | 51 | 39 | 55 | 68 | 56 | 53 | - |
| Soil Temperature at 10 cm | 06 UTC | 9.2 | 12.2 | 13.8 | 15.0 | 15.0 | 14.2 | 16.4 | 15.0 | 13.8 | 15.2 | 14.0 | 10.7 | 11.5 |
| | 12 UTC | 14.8 | 16.2 | 17.4 | 17.0 | 17.0 | 18.0 | 16.8 | 15.2 | 17.6 | 16.6 | 16.7 | 12.4 | 14.7 |
| Sunshine Duration | | 10.9 | 11.6 | 6.8 | 4.1 | 8.4 | 10.1 | 0.0 | 0.8 | 11.9 | 2.4 | 6.7 | 5.2 | 5.9 |
| Precipitation | | | | | 0.0 | 0.3 | | 0.2 | 4.0 | 1.6 | | 6.1 | 31.3 | 15.2 |
| Evaporation | | 4.5 | 3.1 | 0.0 | 5.4 | 1.0 | 6.9 | 1.3 | 1.5 | 6.0 | 0.6 | 30.3 | 48.2 | 38.8 |
| Growing Degrees | 5 | 2.1 | 7.6 | 9.3 | 11.3 | 11.6 | 9.1 | 11.8 | 9.6 | 9.6 | 10.9 | 92.9 | 53.8 | 67.9 |
| | 10 | 0.0 | 2.6 | 4.3 | 6.3 | 6.6 | 4.1 | 6.8 | 4.6 | 4.6 | 5.9 | 45.8 | 9.6 | 22.8 |

| 2nd 10-day period (11-20/04/2012) | | Previous Year Value | Past Years Mean Value |
|--|-------|------------------------|--------------------------|
| Reference Evapotranspiration | 28.4 | 24.6 | 26.7 |
| Precipitation - Reference Evapotranspiration | -22.3 | 6.7 | -11.5 |
| Number of Rainy Days | 4.0 | 5.0 | 2.8 |
| Number of Dry Days | 5.0 | 7.0 | - |

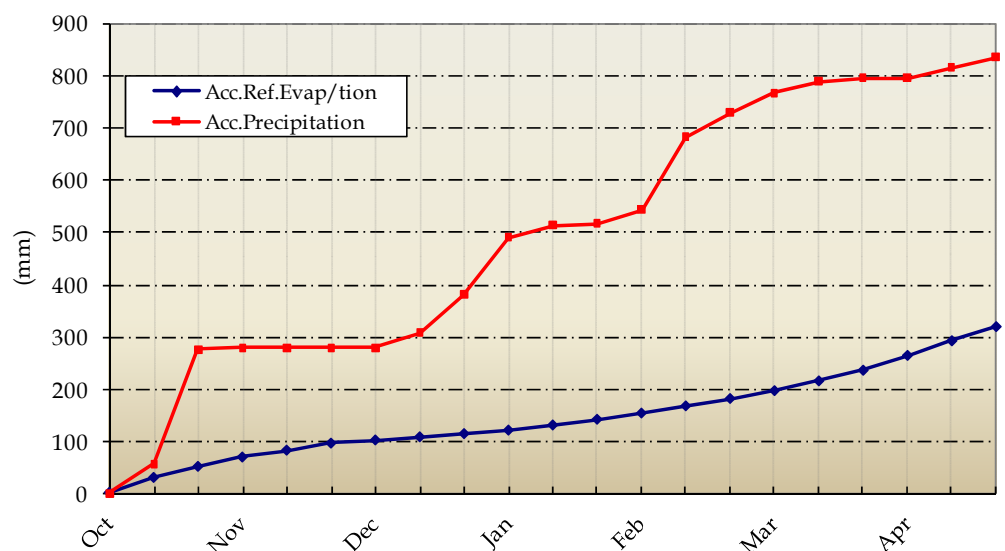
Diagram of Accumulated Precipitation and Accumulated Reference Evapotranspiration



| 2nd 10-day period (11-20/04/2012) | | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | Mean Value or Sum | Previous Year Value | Past Years Mean Value |
|--------------------------------------|--------|------|------|------|------|------|------|------|------|------|------|----------------------|------------------------|--------------------------|
| Temperature | Max | - | 18.0 | 18.0 | 18.6 | 18.0 | 21.2 | 19.2 | 16.0 | 18.8 | 20.0 | 18.6 | 17.0 | 18.4 |
| | Min | 4.8 | 7.4 | 9.0 | 13.4 | 11.8 | 13.2 | 14.8 | 11.8 | 12.2 | 12.2 | 11.1 | 8.8 | 9.1 |
| Relative Humidity | Max | 100 | 100 | 95 | 98 | 98 | 95 | 93 | 95 | 95 | 98 | 97 | 90 | - |
| | Min | 55 | 65 | 69 | 74 | 62 | 44 | 73 | 69 | 63 | 61 | 64 | 56 | - |
| Soil Temperature at 10 cm | 06 UTC | 12.4 | 13.2 | 14.8 | 14.8 | 15.2 | 15.6 | 16.0 | 15.0 | 14.2 | 15.0 | 14.6 | 14.0 | 13.7 |
| | 12 UTC | 15.8 | 18.6 | 16.4 | 17.2 | 17.4 | 18.0 | 17.2 | 15.6 | 17.6 | 17.4 | 17.1 | 18.3 | 16.7 |
| Sunshine Duration | | 5.3 | 11.6 | 0.2 | 6.0 | 7.4 | 4.7 | 0.0 | 2.5 | 11.4 | 7.7 | 5.7 | 7.4 | 7.2 |
| Precipitation | | 0.5 | | | 3.9 | | | 1.0 | 15.6 | | | 21.0 | 24.7 | 25.7 |
| Evaporation | | 2.1 | 3.7 | 6.1 | 0.6 | 0.5 | 4.9 | 1.5 | 1.7 | 3.2 | 4.5 | 28.8 | 36.1 | 37.7 |
| Growing Degrees | 5 | - | 7.7 | 8.5 | 11.0 | 9.9 | 12.2 | 12.0 | 8.9 | 10.5 | 11.1 | - | 79.1 | 87.1 |
| | 10 | - | 2.7 | 3.5 | 6.0 | 4.9 | 7.2 | 7.0 | 3.9 | 5.5 | 6.1 | - | 29.1 | 37.4 |

| 2nd 10-day period (11-20/04/2012) | | Previous Year Value | Past Years Mean Value |
|--|------|------------------------|--------------------------|
| Reference Evapotranspiration | 27.2 | 28.5 | 28.0 |
| Precipitation - Reference Evapotranspiration | -6.2 | -3.8 | -2.3 |
| Number of Rainy Days | 4.0 | 5.0 | 3.3 |
| Number of Dry Days | 0.0 | 6.0 | - |

Diagram of Accumulated Precipitation and Accumulated Reference Evapotranspiration

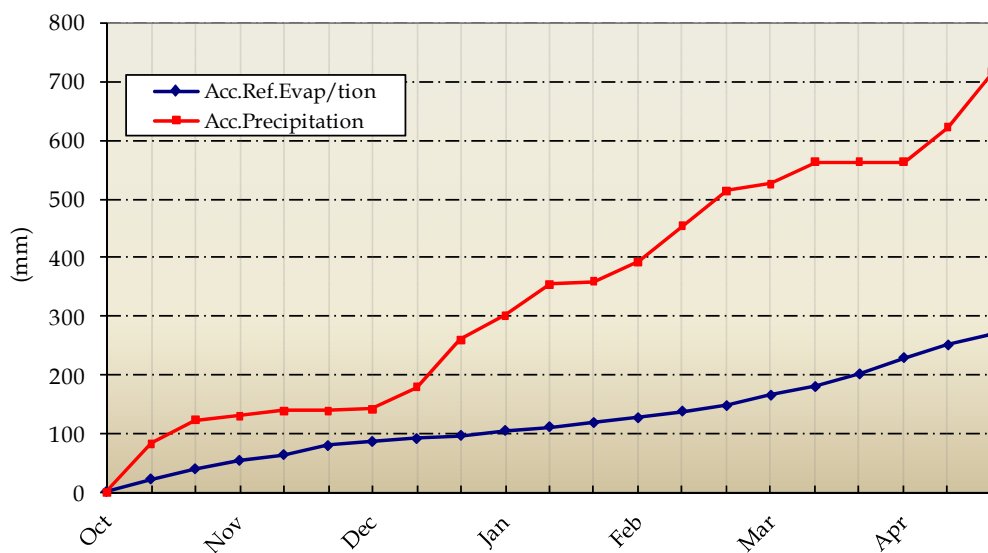


Ioannina

| 2nd 10-day period (11-20/04/2012) | | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | Mean Value or Sum | Previous Year Value | Past Years Mean Value |
|--------------------------------------|--------|------|------|------|------|------|------|------|------|------|------|----------------------|------------------------|--------------------------|
| Temperature | Max | 13.0 | 17.2 | 13.8 | 13.4 | 13.0 | 15.6 | 14.6 | 12.4 | 12.8 | 14.0 | 14.0 | - | 16.1 |
| | Min | 1.6 | 7.0 | 6.0 | 10.0 | 8.0 | 9.2 | 10.4 | 7.0 | 7.5 | 9.8 | 7.6 | - | 5.7 |
| Relative Humidity | Max | 93 | 94 | 97 | 95 | 94 | 90 | 95 | 94 | 94 | 95 | 94 | - | - |
| | Min | 55 | 52 | 68 | 83 | 68 | 62 | 75 | 69 | 66 | 67 | 66 | - | - |
| Soil Temperature at 10 cm | 06 UTC | - | - | - | - | - | - | - | - | - | - | - | - | 10.1 |
| | 12 UTC | - | - | - | - | - | - | - | - | - | - | - | - | 12.9 |
| Sunshine Duration | | 1.4 | 8.5 | 0.0 | 0.0 | 3.0 | 0.0 | 0.0 | 0.1 | 2.8 | 1.9 | 1.8 | - | 4.9 |
| Precipitation | | | 4.2 | | 12.7 | 16.3 | 6.8 | 13.8 | 16.5 | 1.9 | 23.3 | 95.5 | - | 35.1 |
| Evaporation | | - | - | - | - | - | - | - | - | - | - | - | - | 28.5 |
| Growing Degrees | 5 | 2.3 | 7.1 | 4.9 | 6.7 | 5.5 | 7.4 | 7.5 | 4.7 | 5.2 | 6.9 | 58.2 | - | 58.8 |
| | 10 | 0.0 | 2.1 | 0.0 | 1.7 | 0.5 | 2.4 | 2.5 | 0.0 | 0.2 | 1.9 | 11.3 | - | 15.8 |

| 2nd 10-day period (11-20/04/2012) | | Previous Year Value | Past Years Mean Value |
|--|------|------------------------|--------------------------|
| Reference Evapotranspiration | 18.4 | - | 24.2 |
| Precipitation - Reference Evapotranspiration | 77.1 | - | 10.9 |
| Number of Rainy Days | 8.0 | - | 4.7 |
| Number of Dry Days | 1.0 | - | - |

Diagram of Accumulated Precipitation and Accumulated Reference Evapotranspiration

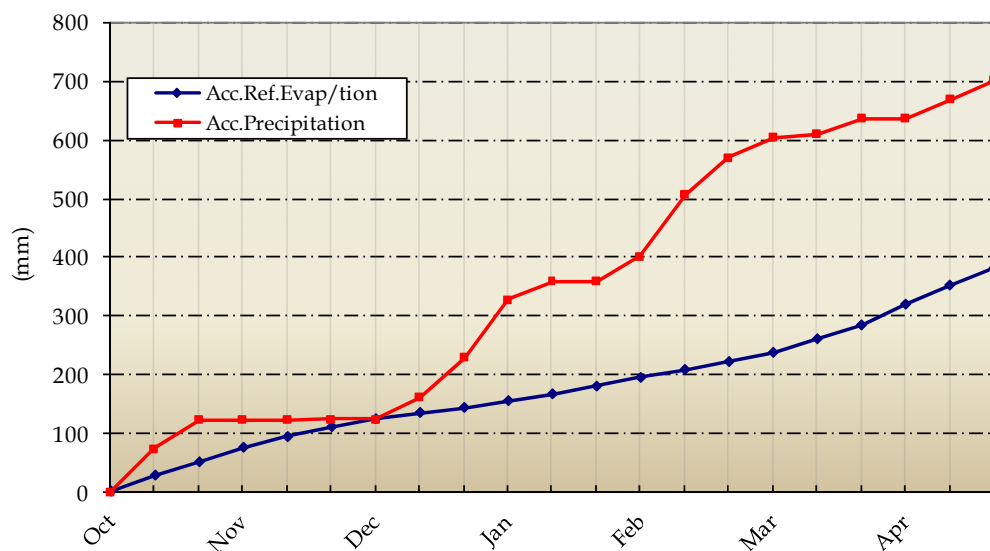


Kalamata

| 2nd 10-day period (11-20/04/2012) | | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | Mean Value or Sum | Previous Year Value | Past Years Mean Value |
|--------------------------------------|--------|------|------|------|------|------|------|------|------|------|------|----------------------|------------------------|--------------------------|
| Temperature | Max | 17.2 | 18.8 | 20.0 | 20.2 | 19.0 | 20.1 | 18.8 | 16.9 | 20.0 | 19.7 | 19.1 | 18.1 | 19.2 |
| | Min | 4.7 | 7.8 | 9.8 | 13.9 | 13.0 | 9.4 | 12.7 | 10.4 | 9.5 | 8.6 | 10.0 | 8.8 | 8.4 |
| Relative Humidity | Max | 95 | 94 | 95 | 91 | 93 | 95 | 95 | 94 | 94 | 95 | 94 | 95 | - |
| | Min | 50 | 65 | 57 | 59 | 56 | 58 | 64 | 50 | 53 | 64 | 58 | 51 | - |
| Soil Temperature at 10 cm | 06 UTC | 13.2 | 14.0 | 15.0 | 16.0 | 15.6 | 15.4 | 16.0 | 15.0 | 14.0 | 14.0 | 14.8 | 14.7 | 13.9 |
| | 12 UTC | 15.2 | 16.0 | 16.0 | 16.2 | 16.6 | 16.6 | 16.4 | 15.0 | 15.6 | 15.4 | 15.9 | 16.8 | 16.9 |
| Sunshine Duration | | 8.9 | 10.9 | 2.0 | 5.1 | 8.9 | 7.1 | 0.0 | 4.6 | 11.1 | 4.9 | 6.4 | 6.5 | 7.1 |
| Precipitation | | | | | 1.6 | 1.0 | | | 29.8 | 0.0 | | 32.4 | 27.4 | 25.5 |
| Evaporation | | 3.8 | 4.6 | 1.8 | 1.0 | 0.1 | 2.4 | 0.0 | 0.0 | 3.0 | 6.0 | 22.7 | 43.4 | 41.0 |
| Growing Degrees | 5 | 6.0 | 8.3 | 9.9 | 12.1 | 11.0 | 9.8 | 10.8 | 8.7 | 9.8 | 9.2 | 95.3 | 84.5 | 88.0 |
| | 10 | 1.0 | 3.3 | 4.9 | 7.1 | 6.0 | 4.8 | 5.8 | 3.7 | 4.8 | 4.2 | 45.3 | 34.5 | 38.2 |

| 2nd 10-day period (11-20/04/2012) | | Previous Year Value | Past Years Mean Value |
|--|------|------------------------|--------------------------|
| Reference Evapotranspiration | 29.0 | 29.1 | 28.5 |
| Precipitation - Reference Evapotranspiration | 3.4 | -1.7 | -3.0 |
| Number of Rainy Days | 3.0 | 5.0 | 4.1 |
| Number of Dry Days | 3.0 | 10.0 | - |

Diagram of Accumulated Precipitation and Accumulated Reference Evapotranspiration

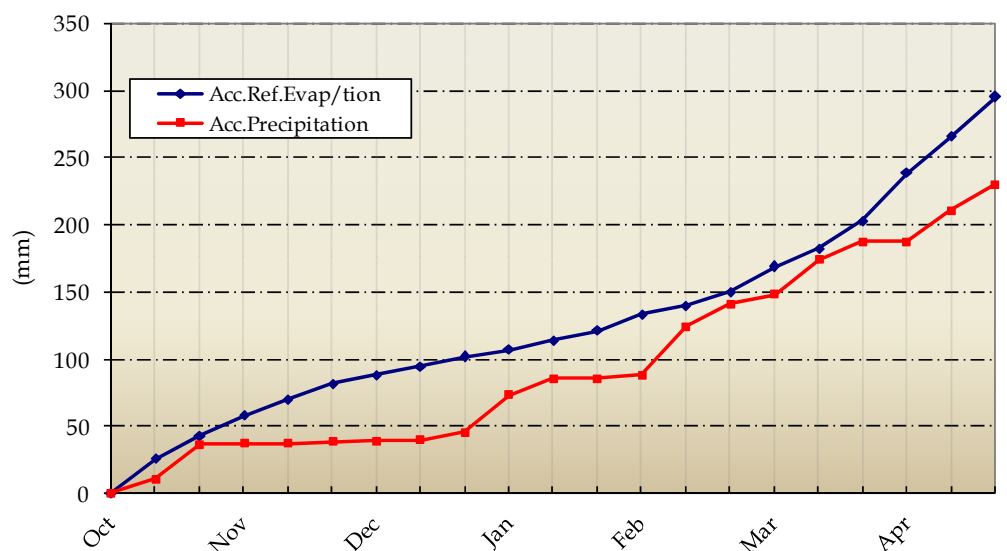


Larisa

| 2nd 10-day period (11-20/04/2012) | | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | Mean Value or Sum | Previous Year Value | Past Years Mean Value |
|-----------------------------------|--------|------|------|------|------|------|------|------|------|------|------|-------------------|---------------------|-----------------------|
| Temperature | Max | 17.4 | 22.4 | 17.4 | 21.0 | 19.0 | 21.5 | 20.4 | 17.3 | 20.8 | 19.4 | 19.7 | 17.2 | 19.0 |
| | Min | 0.6 | 6.2 | 8.3 | 8.6 | 7.9 | 6.8 | 13.0 | 11.6 | 10.3 | 8.0 | 8.1 | 6.9 | 6.4 |
| Relative Humidity | Max | 98 | 97 | 97 | 99 | 92 | 91 | 98 | 97 | 78 | 81 | 93 | 90 | - |
| | Min | 49 | 33 | 67 | 55 | 35 | 38 | 46 | 45 | 34 | 42 | 44 | 44 | - |
| Soil Temperature at 10 cm | 06 UTC | 11.0 | 12.6 | 13.4 | 13.0 | 13.0 | 13.0 | 13.0 | 14.8 | 13.2 | 13.4 | 13.0 | 11.9 | 12.8 |
| | 12 UTC | 12.0 | 13.2 | 13.8 | 14.2 | 14.0 | 14.4 | 15.0 | 14.6 | 14.4 | 13.8 | 13.9 | 13.3 | 14.4 |
| Sunshine Duration | | 7.3 | 11.2 | 1.4 | 5.1 | 11.1 | 5.1 | 0.4 | 0.0 | 8.3 | 7.6 | 5.8 | 5.8 | 6.4 |
| Precipitation | | | 0.1 | 2.3 | 3.5 | | | 1.3 | 11.7 | | 0.0 | 18.9 | 10.4 | 13.6 |
| Evaporation | | 1.0 | 1.2 | 0.1 | 1.9 | 5.0 | 4.0 | 0.0 | 4.8 | 3.4 | 4.2 | 25.6 | 36.5 | 36.9 |
| Growing Degrees | 5 | 4.0 | 9.3 | 7.9 | 9.8 | 8.5 | 9.2 | 11.7 | 9.5 | 10.6 | 8.7 | 89.0 | 70.5 | 77.0 |
| | 10 | 0.0 | 4.3 | 2.9 | 4.8 | 3.5 | 4.2 | 6.7 | 4.5 | 5.6 | 3.7 | 40.0 | 22.0 | 28.8 |

| 2nd 10-day period (11-20/04/2012) | Previous Year Value | Past Years Mean Value | |
|--|---------------------|-----------------------|-------|
| Reference Evapotranspiration | 29.5 | 27.7 | 28.6 |
| Precipitation - Reference Evapotranspiration | -10.6 | -17.3 | -15.0 |
| Number of Rainy Days | 5.0 | 4.0 | 3.4 |
| Number of Dry Days | 1.0 | 11.0 | - |

Diagram of Accumulated Precipitation and Accumulated Reference Evapotranspiration

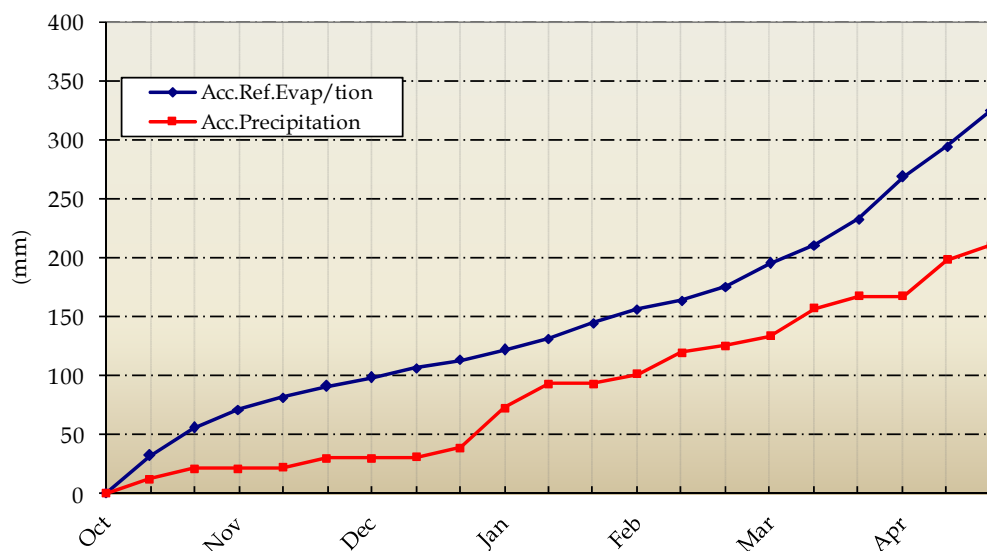


Mikra

| 2nd 10-day period (11-20/04/2012) | | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | Mean Value or Sum | Previous Year Value | Past Years Mean Value |
|--------------------------------------|--------|------|------|------|------|------|------|------|------|------|------|----------------------|------------------------|--------------------------|
| Temperature | Max | 15.6 | 18.4 | 15.8 | 20.9 | 22.0 | 20.6 | 20.0 | 14.8 | 22.0 | 19.6 | 19.0 | - | 18.2 |
| | Min | 4.0 | 5.7 | 7.6 | 12.9 | 11.0 | 7.5 | 14.4 | 13.0 | 5.8 | 13.9 | 9.6 | - | 7.7 |
| Relative Humidity | Max | 89 | 90 | 91 | 85 | 79 | 82 | 92 | 93 | 85 | 82 | 87 | - | - |
| | Min | 47 | 55 | 70 | 51 | 30 | 37 | 50 | 56 | 32 | 41 | 47 | - | - |
| Soil Temperature at 10 cm | 06 UTC | 10.6 | 11.6 | 12.8 | 14.0 | 13.2 | 14.0 | 14.8 | 15.0 | 11.8 | 14.8 | 13.3 | - | 12.6 |
| | 12 UTC | 13.8 | 15.8 | 15.2 | 15.0 | 18.0 | 20.0 | 20.0 | 14.4 | 17.0 | 15.4 | 16.5 | - | 16.4 |
| Sunshine Duration | | 7.0 | 12.1 | 2.1 | 2.4 | 11.4 | 3.4 | 0.0 | 0.0 | 8.8 | 5.8 | 5.3 | - | 6.1 |
| Precipitation | | | | 0.4 | 0.2 | | 0.3 | 1.4 | 8.9 | | 1.1 | 12.3 | - | 14.5 |
| Evaporation | | 4.1 | 3.0 | 2.2 | 1.8 | 4.8 | 2.9 | 0.4 | 1.2 | 5.9 | 1.9 | 28.2 | - | 39.8 |
| Growing Degrees | 5 | 4.8 | 7.1 | 6.7 | 11.9 | 11.5 | 9.1 | 12.2 | 8.9 | 8.9 | 11.8 | 92.8 | - | 79.5 |
| | 10 | 0.0 | 2.1 | 1.7 | 6.9 | 6.5 | 4.1 | 7.2 | 3.9 | 3.9 | 6.8 | 43.0 | - | 31.0 |

| 2nd 10-day period (11-20/04/2012) | | Previous Year Value | Past Years Mean Value |
|--|-------|------------------------|--------------------------|
| Reference Evapotranspiration | 30.6 | - | 29.0 |
| Precipitation - Reference Evapotranspiration | -18.3 | - | -14.5 |
| Number of Rainy Days | 6.0 | - | 3.4 |
| Number of Dry Days | 2.0 | - | - |

Diagram of Accumulated Precipitation and Accumulated Reference Evapotranspiration

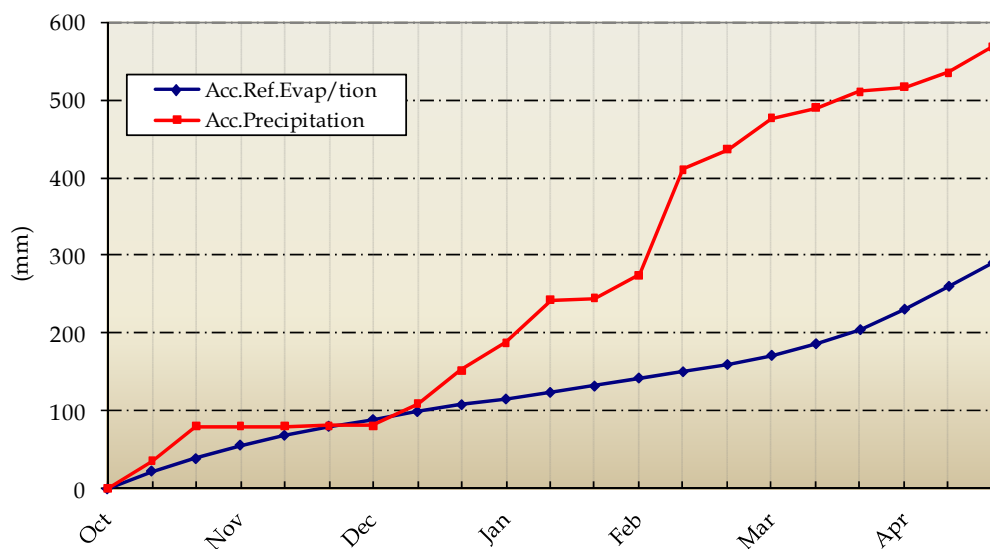


Tripoli

| 2nd 10-day period (11-20/04/2012) | | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | Mean Value or Sum | Previous Year Value | Past Years Mean Value |
|-----------------------------------|--------|------|------|------|------|------|------|------|------|------|------|-------------------|---------------------|-----------------------|
| Temperature | Max | 14.7 | 18.6 | 15.6 | 16.1 | 14.1 | 18.2 | 16.3 | 13.4 | 15.1 | 16.8 | 15.9 | 13.9 | 16.3 |
| | Min | -1.6 | 2.8 | 6.5 | 9.4 | 8.5 | 8.6 | 10.5 | 6.2 | 9.1 | 7.3 | 6.7 | 4.1 | 4.8 |
| Relative Humidity | Max | 96 | - | 96 | 93 | 80 | 81 | 93 | 85 | 71 | 83 | 86 | 92 | - |
| | Min | 44 | 26 | 53 | 53 | 36 | 38 | 40 | 65 | 54 | 54 | 46 | 55 | - |
| Soil Temperature at 10 cm | 06 UTC | - | - | - | - | - | - | - | 11.0 | 10.8 | 10.6 | 10.8 | 10.6 | 10.9 |
| | 12 UTC | - | - | - | - | - | - | - | - | - | - | - | 14.8 | 12.7 |
| Sunshine Duration | | - | - | - | - | - | - | - | 0.6 | 10.3 | 8.4 | 6.4 | 5.5 | 6.7 |
| Precipitation | | | | 0.8 | 7.5 | 3.7 | 0.4 | | 21.6 | 0.1 | | 34.1 | 52.2 | 30.8 |
| Evaporation | | - | - | - | - | - | - | - | 2.2 | 2.7 | 2.7 | - | 23.6 | 29.8 |
| Growing Degrees | 5 | 1.6 | 5.7 | 6.1 | 7.8 | 6.3 | 8.4 | 8.4 | 4.8 | 7.1 | 7.1 | 63.1 | 40.3 | 55.6 |
| | 10 | 0.0 | 0.7 | 1.1 | 2.8 | 1.3 | 3.4 | 3.4 | 0.0 | 2.1 | 2.1 | 16.8 | 4.8 | 14.5 |

| 2nd 10-day period (11-20/04/2012) | | Previous Year Value | Past Years Mean Value |
|--|------|---------------------|-----------------------|
| Reference Evapotranspiration | 30.4 | 23.4 | 28.5 |
| Precipitation - Reference Evapotranspiration | 3.7 | 28.8 | 2.3 |
| Number of Rainy Days | 6.0 | 5.0 | 4.5 |
| Number of Dry Days | 3.0 | 8.0 | - |

Diagram of Accumulated Precipitation and Accumulated Reference Evapotranspiration

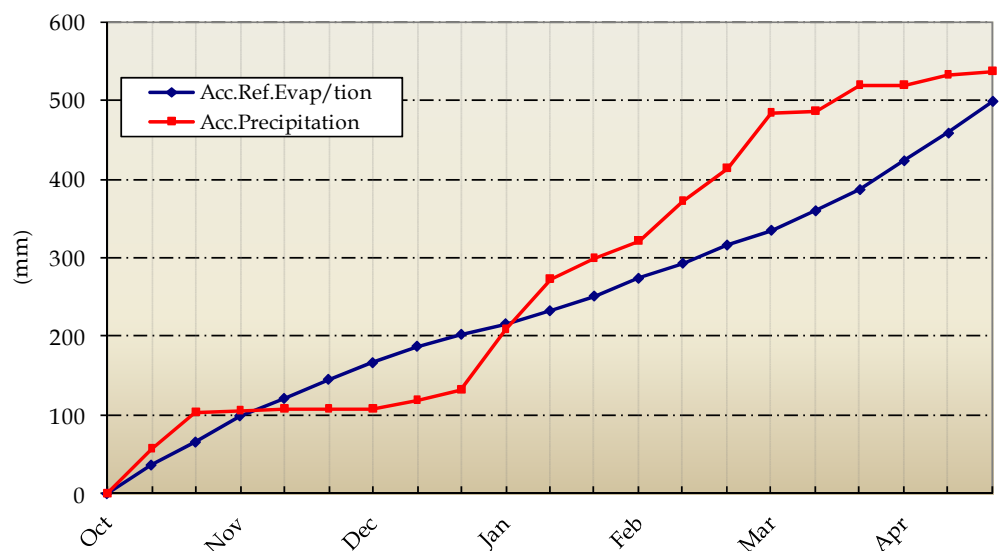


Tympaki

| 2nd 10-day period (11-20/04/2012) | | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | Mean Value or Sum | Previous Year Value | Past Years Mean Value |
|--------------------------------------|--------|------|------|------|------|------|------|------|------|------|------|----------------------|------------------------|--------------------------|
| Temperature | Max | 18.0 | 21.0 | 21.4 | 20.0 | 19.6 | 21.0 | 25.0 | 22.0 | 18.4 | 23.0 | 20.9 | 20.3 | 20.2 |
| | Min | 7.6 | 8.6 | 12.4 | 16.0 | 14.6 | 8.2 | 11.2 | 13.0 | 14.2 | 7.6 | 11.3 | 10.0 | 10.4 |
| Relative Humidity | Max | 81 | 93 | 92 | 94 | 83 | 87 | 82 | 83 | 84 | 85 | 86 | 96 | - |
| | Min | 42 | 27 | 30 | 70 | 64 | 23 | 18 | 55 | 64 | 26 | 42 | 42 | - |
| Soil Temperature at 10 cm | 06 UTC | 13.2 | 15.2 | 18.0 | 20.0 | 17.8 | 17.0 | 18.0 | 20.4 | 18.6 | 17.6 | 17.6 | 18.0 | 17.9 |
| | 12 UTC | 18.8 | 21.2 | 23.4 | 20.6 | 22.4 | 23.8 | 25.4 | 22.6 | 23.0 | 24.6 | 22.6 | 22.5 | 22.0 |
| Sunshine Duration | | 9.2 | 11.2 | 8.1 | 0.8 | 11.2 | 11.0 | 9.4 | 7.4 | 8.6 | 10.3 | 8.7 | 8.4 | 7.9 |
| Precipitation | | | | 0.1 | 3.1 | | | | 0.3 | 0.1 | | 3.6 | 2.2 | 8.6 |
| Evaporation | | 2.2 | 4.1 | 5.8 | 0.8 | 5.6 | 3.1 | 2.1 | 5.8 | 7.3 | 5.9 | 42.7 | 50.2 | 48.6 |
| Growing Degrees | 5 | 7.8 | 9.8 | 11.9 | 13.0 | 12.1 | 9.6 | 13.1 | 12.5 | 11.3 | 10.3 | 111.4 | 101.3 | 102.2 |
| | 10 | 2.8 | 4.8 | 6.9 | 8.0 | 7.1 | 4.6 | 8.1 | 7.5 | 6.3 | 5.3 | 61.4 | 51.3 | 52.5 |

| 2nd 10-day period (11-20/04/2012) | | Previous Year Value | Past Years Mean Value |
|--|-------|------------------------|--------------------------|
| Reference Evapotranspiration | 40.4 | 35.6 | 32.4 |
| Precipitation - Reference Evapotranspiration | -36.8 | -33.4 | -23.8 |
| Number of Rainy Days | 4.0 | 3.0 | 1.8 |
| Number of Dry Days | 2.0 | 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_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.

Mesurements 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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