



AGROMETEOROLOGICAL BULLETIN

May 2011
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
Division of Climatology-Applications
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Helliniko, Athens

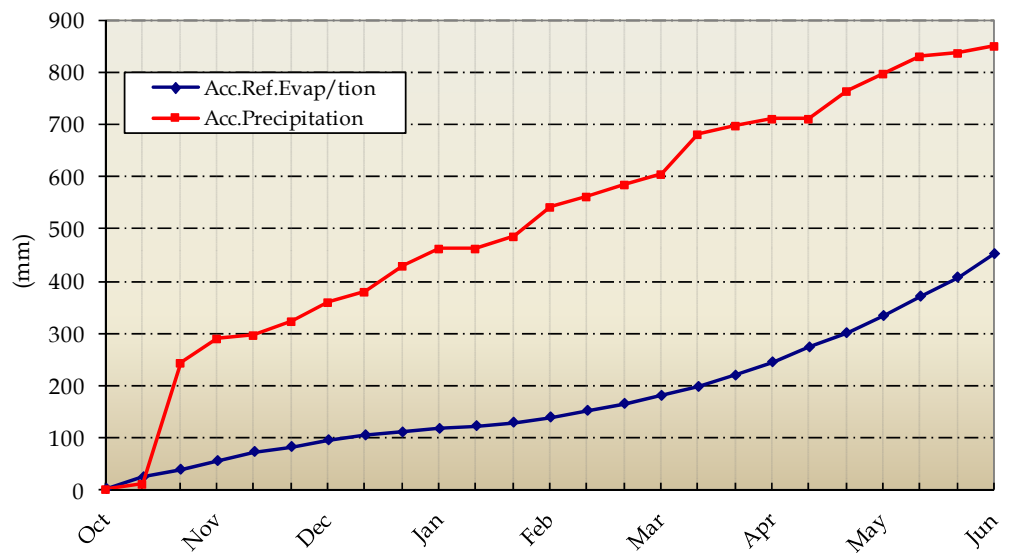
Web addresses of HNMS
www.hnms.gr
www.emy.gov.gr
www.meteo.gov.gr
www.meteohellas.gr

Agrinio

| 3rd 10-day period (21-31/05/2011) | | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 20 | 31 | Mean Value or Sum | Previous Year Value | Past Years Mean Value |
|--------------------------------------|--------|------|------|------|------|------|------|------|------|------|------|------|----------------------|------------------------|--------------------------|
| Temperature | Max | 27.6 | 28.2 | 29.0 | 30.0 | 30.4 | 30.0 | 27.4 | 29.2 | 28.4 | 28.4 | 28.2 | 28.8 | - | 27.7 |
| | Min | 13.4 | 9.8 | 12.4 | 15.4 | 15.6 | 10.0 | 16.8 | 14.0 | 14.8 | 13.2 | 13.4 | 13.5 | - | 13.3 |
| Relative Humidity | Max | 95 | 95 | 93 | 93 | 93 | 90 | 96 | 95 | 98 | 98 | 98 | 95 | - | - |
| | Min | 40 | 33 | 38 | 31 | 33 | 36 | 39 | 35 | 51 | 37 | 56 | 39 | - | - |
| Soil Temperature at 10 cm | 06 UTC | 18.8 | 20.4 | 20.6 | 19.8 | 22.0 | 22.8 | 22.2 | 21.4 | 22.2 | 20.8 | 20.8 | 21.1 | - | 21.0 |
| | 12 UTC | 24.0 | 25.8 | 25.2 | 26.4 | 27.6 | - | 24.8 | 26.4 | 28.2 | 26.0 | 26.4 | 26.1 | - | 27.3 |
| Sunshine Duration | | 9.2 | 5.4 | 3.8 | 9.0 | 11.3 | 7.3 | 5.4 | 8.3 | 6.9 | 7.6 | 8.9 | 7.6 | - | 9.3 |
| Precipitation | | | | 0.5 | 0.1 | 0.3 | 0.9 | 1.7 | | 6.1 | 2.2 | | 11.8 | - | 10.2 |
| Evaporation | | 6.2 | 5.5 | 5.2 | 8.9 | 7.6 | 6.7 | 4.9 | 7.8 | 4.5 | 4.7 | 7.3 | 69.3 | - | 71.9 |
| Growing Degrees | 5 | 15.5 | 14.0 | 15.7 | 17.7 | 18.0 | 15.0 | 17.1 | 16.6 | 16.6 | 15.8 | 15.8 | 177.8 | - | 170.2 |
| | 10 | 10.5 | 9.0 | 10.7 | 12.7 | 13.0 | 10.0 | 12.1 | 11.6 | 11.6 | 10.8 | 10.8 | 122.8 | - | 115.2 |

| 3rd 10-day period (21-31/05/2011) | Previous Year Value | Past Years Mean Value |
|--|------------------------|--------------------------|
| Reference Evapotranspiration | 45.0 | 49.7 |
| Precipitation - Reference Evapotranspiration | -33.2 | -39.5 |
| Number of Rainy Days | 7.0 | 1.9 |
| Number of Dry Days | 3.0 | - |

Diagram of Accumulated Precipitation and Accumulated Reference Evapotranspiration

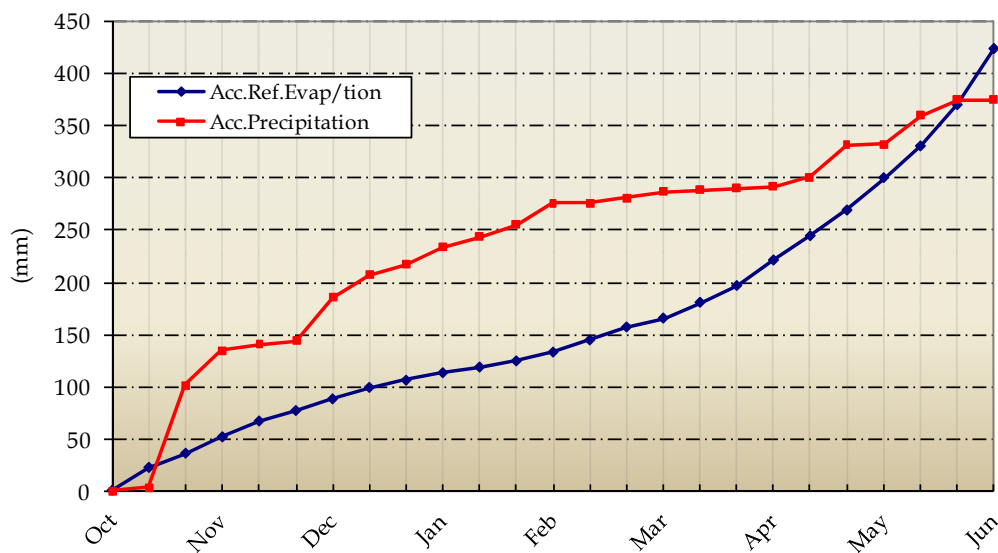


Alexandroupoli

| 3rd 10-day period (21-31/05/2011) | | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 20 | 31 | Mean Value or Sum | Previous Year Value | Past Years Mean Value |
|-----------------------------------|--------|------|------|------|------|------|------|------|------|------|------|------|-------------------|---------------------|-----------------------|
| Temperature | Max | 26.0 | 26.8 | 28.2 | 29.6 | 29.4 | 29.2 | 23.2 | 26.8 | 26.2 | 26.4 | 26.2 | 27.1 | 24.9 | 24.2 |
| | Min | 12.6 | 12.4 | 15.8 | 15.4 | 15.0 | 17.8 | 17.2 | 16.6 | 14.2 | 15.6 | 16.0 | 15.3 | 15.0 | 12.7 |
| Relative Humidity | Max | 91 | 93 | 85 | 80 | 83 | 75 | 82 | 91 | 91 | 87 | 91 | 86 | 86 | - |
| | Min | 49 | 44 | 33 | 33 | 32 | 32 | 52 | 45 | 41 | 41 | 48 | 41 | 48 | - |
| Soil Temperature at 10 cm | 06 UTC | 17.6 | 18.6 | 19.2 | 18.8 | 19.4 | 22.0 | 22.4 | 19.2 | 19.6 | 20.4 | 21.4 | 19.9 | 20.6 | 19.3 |
| | 12 UTC | 20.6 | 21.4 | 21.2 | 22.6 | 24.0 | 24.0 | 26.6 | 22.0 | 23.0 | 24.6 | 25.6 | 23.2 | 23.3 | 23.6 |
| Sunshine Duration | | 12.0 | 12.5 | 11.8 | 12.2 | 12.6 | 11.5 | 4.5 | 5.3 | 12.6 | 8.9 | 10.6 | 10.4 | 10.2 | 8.3 |
| Precipitation | | | 0.0 | | | | | | | | | | 0.0 | 10.1 | 12.4 |
| Evaporation | | 2.2 | 3.0 | 8.1 | 7.9 | 11.0 | 9.2 | 4.3 | 4.4 | 5.1 | 5.6 | 7.0 | 67.8 | 60.0 | 70.1 |
| Growing Degrees | 5 | 14.3 | 14.6 | 17.0 | 17.5 | 17.2 | 18.5 | 15.2 | 16.7 | 15.2 | 16.0 | 16.1 | 178.3 | 164.4 | 147.7 |
| | 10 | 9.3 | 9.6 | 12.0 | 12.5 | 12.2 | 13.5 | 10.2 | 11.7 | 10.2 | 11.0 | 11.1 | 123.3 | 109.4 | 92.7 |

| 3rd 10-day period (21-31/05/2011) | | Previous Year Value | Past Years Mean Value |
|--|-------|---------------------|-----------------------|
| Reference Evapotranspiration | 53.9 | 48.7 | 45.7 |
| Precipitation - Reference Evapotranspiration | -53.9 | -38.6 | -33.3 |
| Number of Rainy Days | 0.0 | 2.0 | 2.4 |
| Number of Dry Days | 11.0 | 2.0 | - |

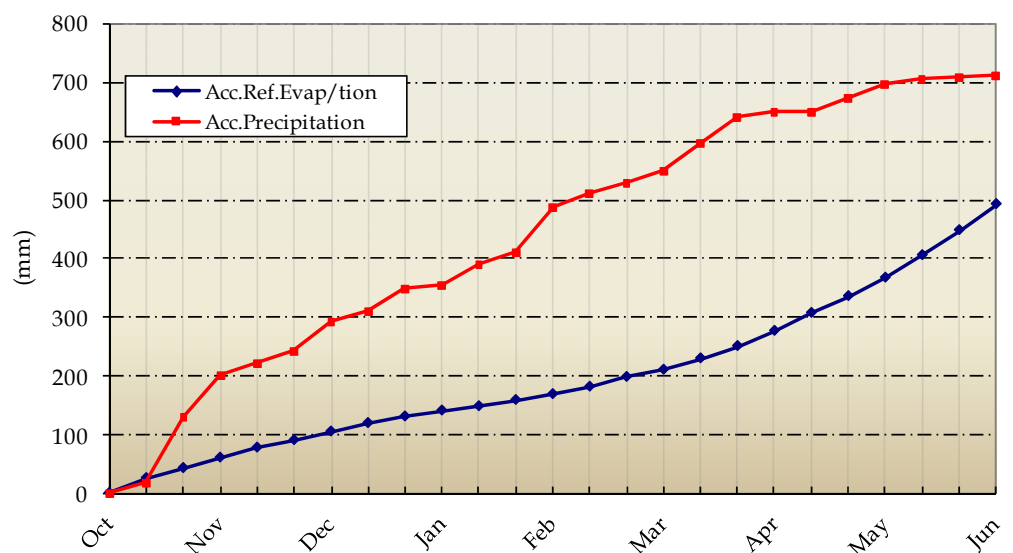
Diagram of Accumulated Precipitation and Accumulated Reference Evapotranspiration



| 3rd 10-day period (21-31/05/2011) | | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 20 | 31 | Mean Value or Sum | Previous Year Value | Past Years Mean Value |
|-----------------------------------|--------|------|------|------|------|------|------|------|------|------|------|------|-------------------|---------------------|-----------------------|
| Temperature | Max | 24.6 | 25.2 | 28.0 | 28.4 | 30.4 | 26.2 | 26.0 | 26.0 | 26.4 | 26.0 | 27.0 | 26.7 | 25.1 | 25.4 |
| | Min | 12.8 | 14.0 | 15.0 | 15.2 | 17.0 | 15.6 | 15.8 | 14.0 | 16.4 | 16.8 | 16.0 | 15.3 | 14.2 | 14.0 |
| Relative Humidity | Max | 91 | 90 | 93 | 89 | 86 | 96 | 91 | 93 | 92 | 88 | 88 | 91 | 94 | - |
| | Min | 48 | 46 | 36 | 36 | 31 | 48 | 44 | 48 | 42 | 42 | 50 | 43 | 45 | - |
| Soil Temperature at 10 cm | 06 UTC | 18.0 | 20.2 | 20.4 | 21.0 | 21.8 | 22.2 | 20.8 | 20.0 | 21.2 | 23.0 | 22.2 | 21.0 | 20.3 | 21.4 |
| | 12 UTC | 26.5 | 25.8 | 24.2 | 24.5 | 28.6 | 25.2 | 26.0 | 27.2 | 25.4 | 25.0 | 24.4 | 25.7 | 26.2 | 25.8 |
| Sunshine Duration | | 3.9 | 3.8 | 3.1 | 7.5 | 8.7 | 3.2 | 5.0 | 12.0 | 10.1 | 8.8 | 12.1 | 7.1 | 9.7 | 10.2 |
| Precipitation | | | | | 0.0 | | 0.5 | 3.2 | 0.2 | | | | 3.9 | 15.1 | 6.8 |
| Evaporation | | 1.5 | 2.1 | 2.6 | 7.5 | 6.5 | 2.3 | 4.4 | 7.8 | 6.7 | 5.9 | 15.0 | 62.3 | 65.0 | 63.7 |
| Growing Degrees | 5 | 13.7 | 14.6 | 16.5 | 16.8 | 18.7 | 15.9 | 15.9 | 15.0 | 16.4 | 16.4 | 16.5 | 176.4 | 161.0 | 161.7 |
| | 10 | 8.7 | 9.6 | 11.5 | 11.8 | 13.7 | 10.9 | 10.9 | 10.0 | 11.4 | 11.4 | 11.5 | 121.4 | 106.0 | 106.7 |

| 3rd 10-day period (21-31/05/2011) | | Previous Year Value | Past Years Mean Value |
|--|-------|---------------------|-----------------------|
| Reference Evapotranspiration | 44.4 | 48.2 | 48.0 |
| Precipitation - Reference Evapotranspiration | -40.5 | -33.1 | -41.2 |
| Number of Rainy Days | 3.0 | 1.0 | 1.0 |
| Number of Dry Days | 7.0 | 0.0 | - |

Diagram of Accumulated Precipitation and Accumulated Reference Evapotranspiration

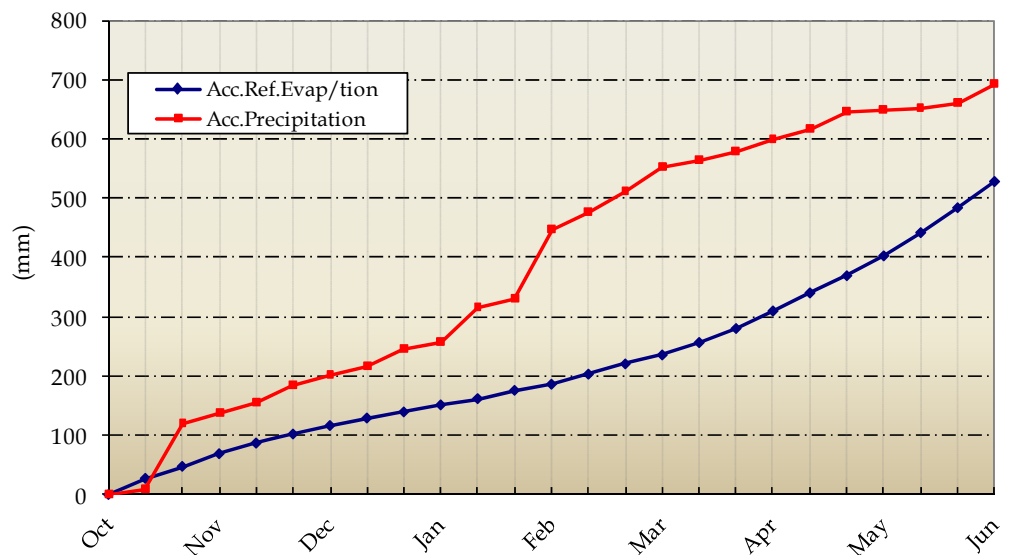


Kalamata

| 3rd 10-day period (21-31/05/2011) | | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 20 | 31 | Mean Value or Sum | Previous Year Value | Past Years Mean Value |
|--------------------------------------|--------|------|------|------|------|------|------|------|------|------|------|------|----------------------|------------------------|--------------------------|
| Temperature | Max | 26.0 | 28.0 | 28.0 | 25.8 | 27.0 | 24.0 | 22.4 | 23.6 | 25.0 | 25.2 | 25.4 | 25.5 | 26.2 | 26.1 |
| | Min | 12.2 | 12.8 | 14.6 | 14.2 | 15.6 | 14.4 | 13.4 | 12.8 | 14.0 | 13.2 | 13.6 | 13.7 | 14.2 | 13.4 |
| Relative Humidity | Max | 95 | 88 | 89 | 96 | 93 | 93 | 98 | 98 | 98 | 100 | 98 | 95 | 91 | - |
| | Min | 42 | 39 | 45 | 61 | 44 | 54 | 73 | 66 | 59 | 54 | 52 | 54 | 40 | - |
| Soil Temperature at 10 cm | 06 UTC | 18.8 | 19.2 | 20.0 | 20.0 | 19.6 | 20.4 | 19.2 | 18.4 | 20.0 | 19.4 | 20.0 | 19.5 | 19.4 | 20.5 |
| | 12 UTC | 22.6 | 23.4 | 22.2 | 21.4 | 23.4 | 21.4 | 20.6 | 22.8 | 23.4 | 23.0 | 23.4 | 22.5 | 21.2 | 24.4 |
| Sunshine Duration | | 12.1 | 6.6 | - | 4.5 | 11.1 | 3.9 | 2.8 | 10.4 | 9.0 | 5.8 | 10.6 | 7.7 | 10.1 | 9.6 |
| Precipitation | | | | | 3.4 | | 0.3 | 6.9 | | 16.9 | 5.1 | | 32.6 | 27.2 | 3.4 |
| Evaporation | | 6.4 | 6.5 | 7.0 | 2.6 | 7.6 | 2.1 | 1.6 | 5.8 | 5.7 | 3.7 | 5.6 | 54.6 | 70.0 | 68.8 |
| Growing Degrees | 5 | 14.1 | 15.4 | 16.3 | 15.0 | 16.3 | 14.2 | 12.9 | 13.2 | 14.5 | 14.2 | 14.5 | 160.6 | 166.8 | 162.7 |
| | 10 | 9.1 | 10.4 | 11.3 | 10.0 | 11.3 | 9.2 | 7.9 | 8.2 | 9.5 | 9.2 | 9.5 | 105.6 | 111.8 | 107.7 |

| 3rd 10-day period (21-31/05/2011) | | Previous Year Value | Past Years Mean Value |
|--|-------|------------------------|--------------------------|
| Reference Evapotranspiration | 44.3 | 54.6 | 49.3 |
| Precipitation - Reference Evapotranspiration | -11.7 | -27.4 | -45.9 |
| Number of Rainy Days | 5.0 | 2.0 | 1.1 |
| Number of Dry Days | 6.0 | 0.0 | - |

Diagram of Accumulated Precipitation and Accumulated Reference Evapotranspiration

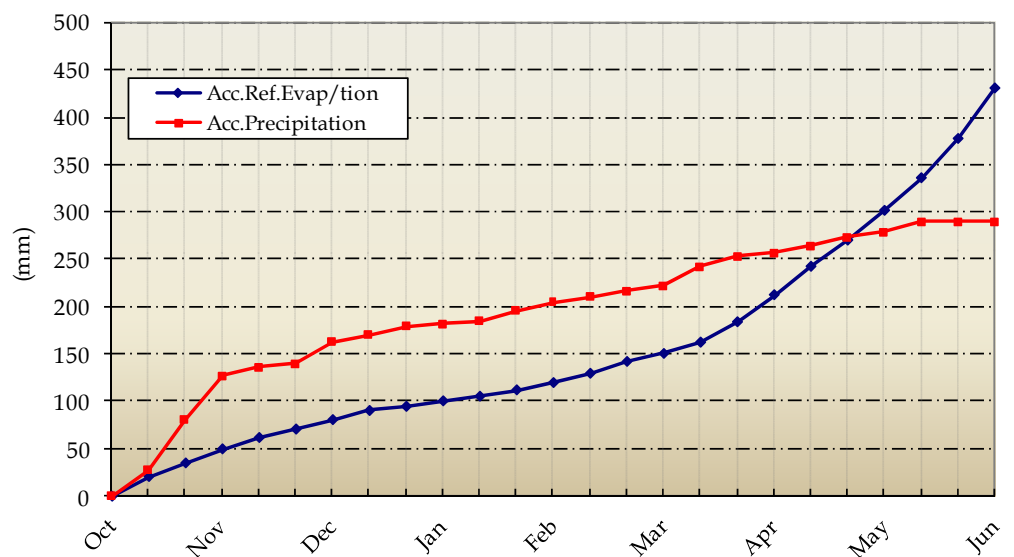


Larisa

| 3rd 10-day period (21-31/05/2011) | | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | Mean Value or Sum | Previous Year Value | Past Years Mean Value |
|-----------------------------------|--------|------|------|------|------|------|------|------|------|------|------|------|-------------------|---------------------|-----------------------|
| Temperature | Max | 28.6 | 29.0 | 28.0 | 27.8 | 29.2 | 28.0 | 22.2 | 27.0 | 27.6 | 28.8 | 28.0 | 27.7 | 28.4 | 27.7 |
| | Min | 11.0 | 11.6 | 13.4 | 13.8 | 13.0 | 14.4 | 17.2 | 16.2 | 13.8 | 16.2 | 15.0 | 14.1 | 13.8 | 12.6 |
| Relative Humidity | Max | 88 | 86 | 83 | 83 | 80 | 83 | 94 | 90 | 95 | 92 | 91 | 88 | 91 | - |
| | Min | 30 | 25 | 28 | 30 | 33 | 35 | 65 | 45 | 44 | 36 | 33 | 37 | 34 | - |
| Soil Temperature at 10 cm | 06 UTC | 18.0 | 18.8 | 18.8 | 18.0 | 18.0 | 20.0 | 21.0 | 20.0 | 19.8 | 20.0 | 20.0 | 19.3 | 20.2 | 20.0 |
| | 12 UTC | 20.6 | 19.6 | 22.0 | 21.4 | 22.0 | 22.4 | 21.0 | 22.0 | 22.4 | 22.6 | 22.6 | 21.7 | 22.8 | 22.3 |
| Sunshine Duration | | 11.4 | 10.3 | 8.8 | 8.9 | 11.9 | 10.4 | 0.7 | 9.9 | 8.5 | 9.7 | 5.4 | 8.7 | 8.6 | 8.8 |
| Precipitation | | | | | | | | 0.0 | 0.5 | | | 0.0 | 0.5 | 22.4 | 17.2 |
| Evaporation | | 7.6 | 8.6 | 6.3 | 8.7 | 8.5 | 9.2 | 5.5 | 4.4 | 7.3 | 1.3 | 6.7 | 74.1 | 69.6 | 67.8 |
| Growing Degrees | 5 | 14.8 | 15.3 | 15.7 | 15.8 | 16.1 | 16.2 | 14.7 | 16.6 | 15.7 | 17.5 | 16.5 | 174.9 | 176.9 | 166.2 |
| | 10 | 9.8 | 10.3 | 10.7 | 10.8 | 11.1 | 11.2 | 9.7 | 11.6 | 10.7 | 12.5 | 11.5 | 119.9 | 121.9 | 111.2 |

| 3rd 10-day period (21-31/05/2011) | | Previous Year Value | Past Years Mean Value |
|--|-------|---------------------|-----------------------|
| Reference Evapotranspiration | 53.3 | 49.6 | 50.4 |
| Precipitation - Reference Evapotranspiration | -52.8 | -27.2 | -33.2 |
| Number of Rainy Days | 1.0 | 4.0 | 3.0 |
| Number of Dry Days | 22.0 | 0.0 | - |

Diagram of Accumulated Precipitation and Accumulated Reference Evapotranspiration

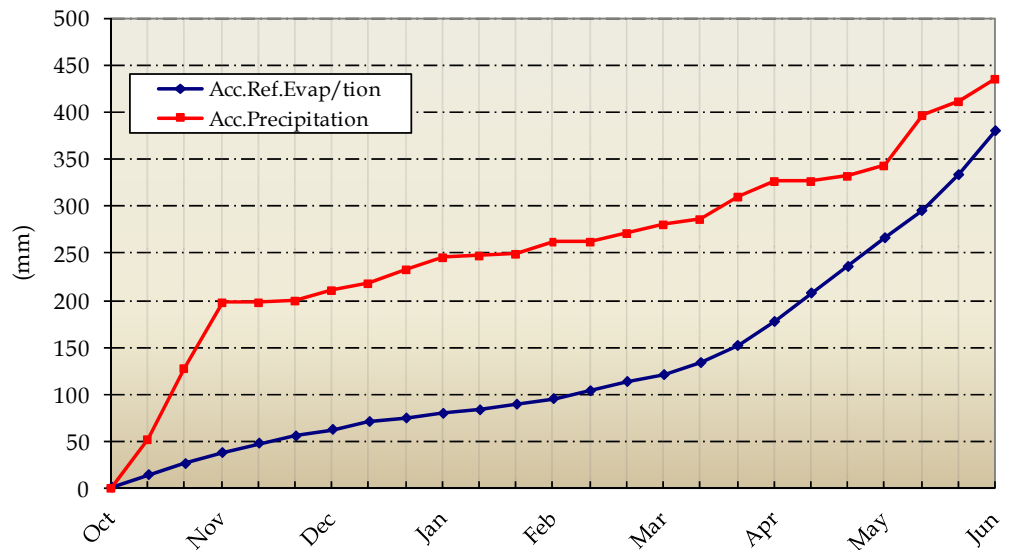


Series

| 3rd 10-day period (21-31/05/2011) | | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 20 | 31 | Mean Value or Sum | Previous Year Value | Past Years Mean Value |
|-----------------------------------|--------|------|------|------|------|------|------|------|------|------|------|------|-------------------|---------------------|-----------------------|
| Temperature | Max | 29.6 | 30.6 | 29.8 | 30.4 | 31.0 | 31.0 | 28.2 | 28.8 | 29.8 | 29.2 | 28.2 | 29.7 | 28.6 | 26.9 |
| | Min | 13.2 | 14.6 | 15.4 | 13.8 | 14.6 | 14.8 | 15.0 | 16.4 | 14.6 | 15.6 | 16.4 | 14.9 | 14.0 | 14.1 |
| Relative Humidity | Max | 93 | 91 | 90 | 93 | 93 | 96 | 95 | 95 | 95 | 95 | 94 | 94 | 80 | - |
| | Min | 28 | 20 | 32 | 27 | 30 | 26 | 38 | 34 | 34 | 32 | 39 | 31 | 38 | - |
| Soil Temperature at 10 cm | 06 UTC | 19.4 | 20.4 | 21.4 | 21.0 | 21.6 | 21.6 | 21.6 | 22.0 | 21.8 | 21.6 | 21.8 | 21.3 | 21.2 | 20.0 |
| | 12 UTC | 21.8 | 22.0 | 24.0 | 24.0 | 24.2 | 24.4 | 23.4 | 24.4 | 24.6 | 24.4 | 23.2 | 23.7 | 24.0 | 23.6 |
| Sunshine Duration | | 10.3 | 11.7 | 8.9 | 10.8 | 9.3 | 10.2 | 8.5 | 9.0 | 7.3 | 7.3 | 4.4 | 8.9 | 6.4 | 8.1 |
| Precipitation | | 0.5 | | | | 0.0 | 3.7 | 11.2 | 0.5 | 1.4 | 6.5 | 0.9 | 24.7 | 4.8 | 19.3 |
| Evaporation | | 8.4 | 6.6 | 4.6 | 4.7 | 3.3 | 3.0 | 4.3 | 4.7 | 3.0 | 2.4 | 7.4 | 52.4 | 47.5 | 54.5 |
| Growing Degrees | 5 | 16.4 | 17.6 | 17.6 | 17.1 | 17.8 | 17.9 | 16.6 | 17.6 | 17.2 | 17.4 | 17.3 | 190.5 | 179.1 | 170.3 |
| | 10 | 11.4 | 12.6 | 12.6 | 12.1 | 12.8 | 12.9 | 11.6 | 12.6 | 12.2 | 12.4 | 12.3 | 135.5 | 124.1 | 115.3 |

| 3rd 10-day period (21-31/05/2011) | | Previous Year Value | Past Years Mean Value |
|--|-------|---------------------|-----------------------|
| Reference Evapotranspiration | 47.0 | 41.2 | 44.2 |
| Precipitation - Reference Evapotranspiration | -22.3 | -36.4 | -24.9 |
| Number of Rainy Days | 7.0 | 3.0 | 3.5 |
| Number of Dry Days | 1.0 | 4.0 | - |

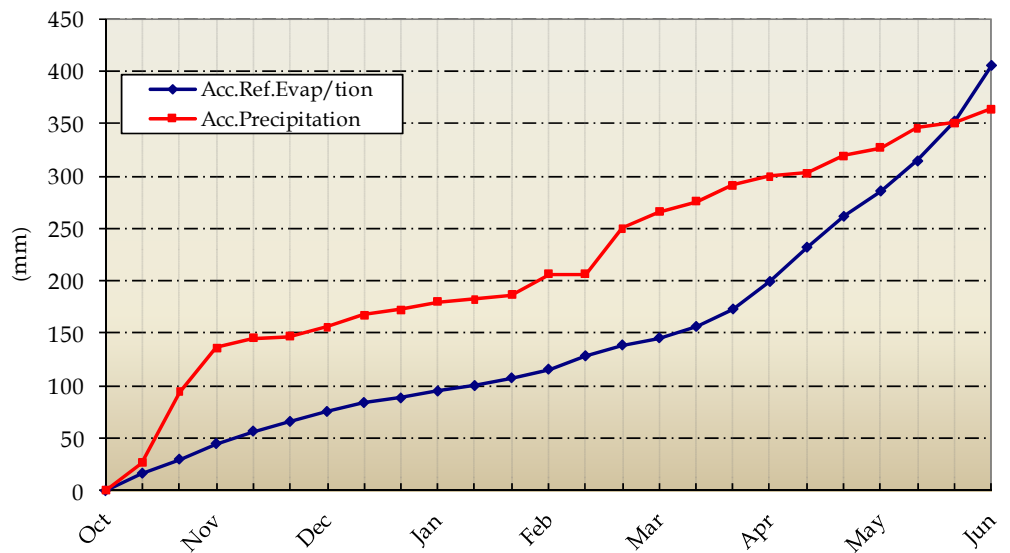
Diagram of Accumulated Precipitation and Accumulated Reference Evapotranspiration



| 3rd 10-day period (21-31/05/2011) | | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 20 | 31 | Mean Value or Sum | Previous Year Value | Past Years Mean Value |
|--------------------------------------|--------|------|------|------|------|-----|------|------|------|------|------|------|----------------------|------------------------|--------------------------|
| Temperature | Max | - | 31.8 | 30.2 | 32.0 | - | 31.6 | 26.4 | 30.0 | 28.4 | 31.0 | 28.4 | 30.0 | 26.9 | 26.6 |
| | Min | - | 18.4 | 15.4 | 16.4 | - | 17.6 | 16.4 | 16.6 | 16.0 | 15.2 | 17.4 | 16.6 | 15.0 | 14.1 |
| Relative Humidity | Max | 92 | 86 | 81 | - | 98 | 96 | 87 | 90 | 92 | 95 | 95 | 91 | 92 | - |
| | Min | 41 | 24 | 36 | - | 65 | 32 | 53 | 36 | 52 | 28 | 46 | 41 | 48 | - |
| Soil Temperature at 10 cm | 06 UTC | - | 19.2 | 19.2 | 19.6 | - | 21.4 | 21.0 | 20.8 | 21.0 | 21.0 | 21.2 | 20.5 | 20.1 | 20.3 |
| | 12 UTC | - | 19.2 | 22.4 | 22.8 | - | 23.6 | 23.4 | 23.6 | 24.0 | 23.4 | 24.6 | 23.0 | 23.3 | 22.0 |
| Sunshine Duration | | 12.2 | 10.6 | 9.0 | - | 9.2 | 9.3 | 4.7 | 12.4 | 8.1 | 11.6 | 10.0 | 9.7 | 7.2 | 8.1 |
| Precipitation | | | | | | | | 1.9 | 0.4 | 10.5 | | | 12.8 | 25.4 | 15.6 |
| Evaporation | | 5.8 | 5.7 | 6.0 | - | 6.5 | 3.8 | 4.6 | 2.3 | 5.8 | 2.4 | 5.2 | - | - | 57.3 |
| Growing Degrees | 5 | - | 20.1 | 17.8 | 19.2 | - | 19.6 | 16.4 | 18.3 | 17.2 | 18.1 | 17.9 | - | - | 168.8 |
| | 10 | - | 15.1 | 12.8 | 14.2 | - | 14.6 | 11.4 | 13.3 | 12.2 | 13.1 | 12.9 | - | - | 113.8 |

| 3rd 10-day period (21-31/05/2011) | | Previous Year Value | Past Years Mean Value |
|--|-------|------------------------|--------------------------|
| Reference Evapotranspiration | 53.2 | 44.3 | 46.0 |
| Precipitation - Reference Evapotranspiration | -40.4 | -18.9 | -30.4 |
| Number of Rainy Days | 3.0 | 2.0 | 2.9 |
| Number of Dry Days | 7.0 | 0.0 | - |

Diagram of Accumulated Precipitation and Accumulated Reference Evapotranspiration

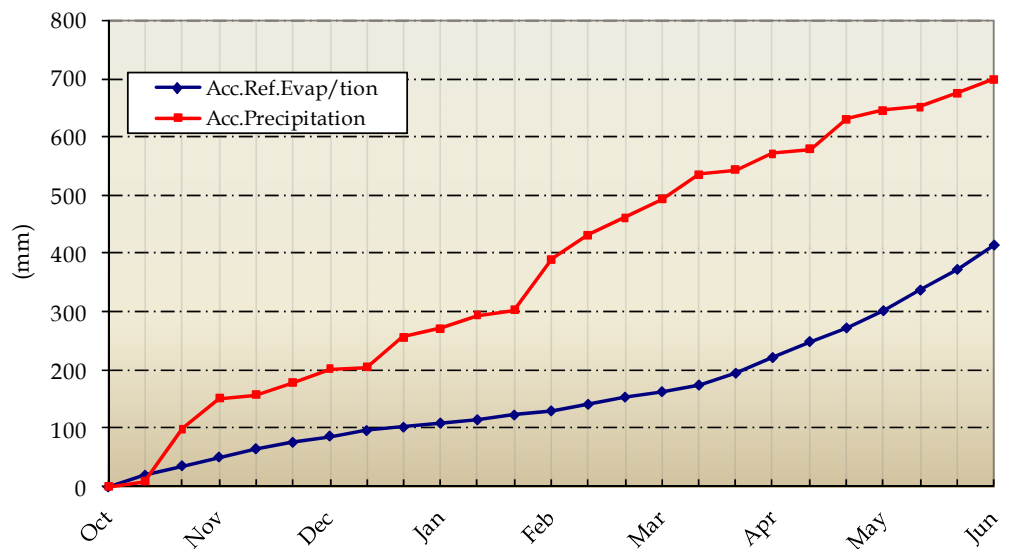


Tripoli

| 3rd 10-day period (21-31/05/2011) | | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 20 | 31 | Mean Value or Sum | Previous Year Value | Past Years Mean Value |
|--------------------------------------|--------|------|------|------|------|------|------|------|------|------|------|------|----------------------|------------------------|--------------------------|
| Temperature | Max | 23.0 | 23.4 | 24.2 | 22.6 | 23.8 | 21.4 | 21.8 | 23.6 | 24.4 | 23.2 | 22.8 | 23.1 | - | 24.8 |
| | Min | 7.4 | 12.6 | 10.4 | 11.8 | 13.8 | 15.2 | 13.4 | 7.8 | 11.0 | 10.6 | 9.8 | 11.3 | - | 9.2 |
| Relative Humidity | Max | 97 | 81 | 90 | 88 | 91 | 87 | 95 | 97 | 98 | 97 | 98 | 93 | - | - |
| | Min | 43 | 37 | 37 | 40 | 43 | 55 | 60 | 51 | 44 | 47 | 47 | 46 | - | - |
| Soil Temperature at 10 cm | 06 UTC | 15.6 | 16.6 | 18.0 | 18.4 | 18.2 | 18.4 | 16.8 | 16.0 | 17.8 | 16.8 | 16.8 | 17.2 | - | 18.5 |
| | 12 UTC | 22.2 | 23.6 | 24.2 | 22.2 | 23.0 | 20.2 | 20.4 | 21.8 | 23.2 | 22.8 | 23.0 | 22.4 | - | 21.5 |
| Sunshine Duration | | 10.0 | 10.2 | 7.9 | 7.9 | 9.4 | 3.4 | 6.3 | 10.3 | 4.3 | 8.3 | 8.6 | 7.9 | - | 8.9 |
| Precipitation | | | | | 0.6 | 0.2 | 1.8 | 6.8 | 0.3 | 10.7 | 2.8 | | 23.2 | - | 11.3 |
| Evaporation | | 6.0 | 6.0 | 2.7 | 3.5 | 5.0 | 1.8 | 2.8 | 2.3 | 0.0 | 3.8 | 3.0 | 36.9 | - | 48.7 |
| Growing Degrees | 5 | 10.2 | 13.0 | 12.3 | 12.2 | 13.8 | 13.3 | 12.6 | 10.7 | 12.7 | 11.9 | 11.3 | 134.0 | - | 132.1 |
| | 10 | 5.2 | 8.0 | 7.3 | 7.2 | 8.8 | 8.3 | 7.6 | 5.7 | 7.7 | 6.9 | 6.3 | 79.0 | - | 77.1 |

| 3rd 10-day period (21-31/05/2011) | | Previous Year Value | Past Years Mean Value |
|--|-------|------------------------|--------------------------|
| Reference Evapotranspiration | 41.8 | - | 47.0 |
| Precipitation - Reference Evapotranspiration | -18.6 | - | -35.7 |
| Number of Rainy Days | 7.0 | - | 2.6 |
| Number of Dry Days | 4.0 | - | - |

Diagram of Accumulated Precipitation and Accumulated Reference Evapotranspiration

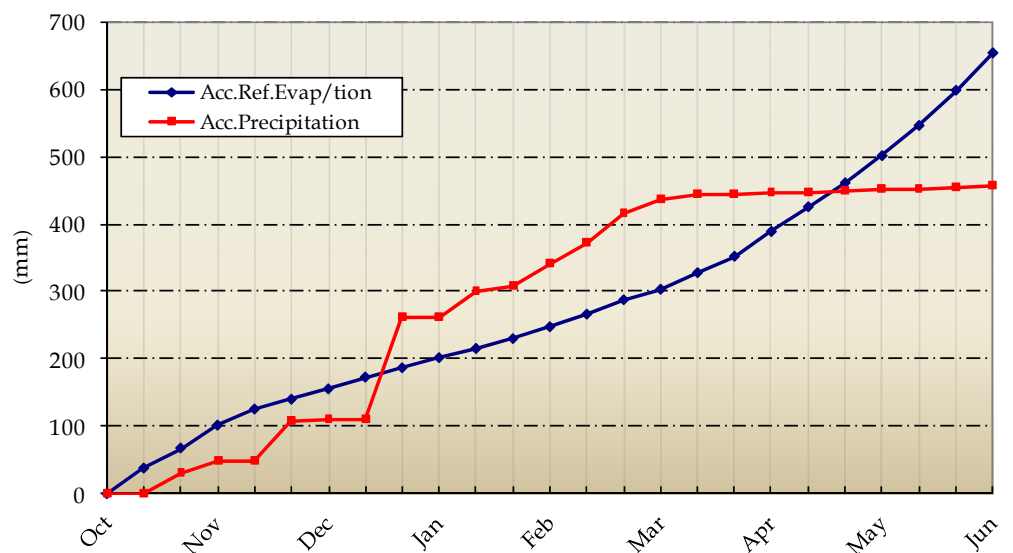


Tympaki

| 3rd 10-day period (21-31/05/2011) | | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 20 | 31 | Mean Value or Sum | Previous Year Value | Past Years Mean Value |
|--------------------------------------|--------|------|------|------|------|------|------|------|------|------|------|------|----------------------|------------------------|--------------------------|
| Temperature | Max | 23.4 | 24.0 | 28.8 | 27.2 | 29.0 | 28.0 | 24.0 | 25.8 | 28.0 | 25.4 | 24.0 | 26.1 | 25.4 | 26.1 |
| | Min | 13.4 | 14.6 | 12.6 | 16.2 | 18.6 | 18.6 | 16.0 | 16.8 | 15.0 | 17.2 | 15.0 | 15.8 | 14.9 | 15.3 |
| Relative Humidity | Max | 94 | 94 | 78 | 93 | 92 | 99 | 99 | 98 | 95 | 95 | 98 | 94 | 91 | - |
| | Min | 36 | 40 | 24 | 31 | 22 | 32 | 71 | 42 | 29 | 40 | 42 | 37 | 35 | - |
| Soil Temperature at 10 cm | 06 UTC | 23.0 | 23.6 | 25.4 | 25.6 | 24.6 | 24.2 | 24.6 | 24.4 | 23.0 | 24.6 | 25.0 | 24.4 | 23.5 | 25.2 |
| | 12 UTC | 29.6 | 29.6 | 31.0 | 29.6 | 28.2 | 27.8 | 30.0 | 26.2 | 29.0 | 30.8 | 31.6 | 29.4 | 29.2 | 30.3 |
| Sunshine Duration | | 11.0 | 11.6 | 8.9 | 7.5 | 3.0 | 6.1 | 9.5 | 6.1 | 12.5 | 12.8 | 13.2 | 9.3 | 8.4 | 10.3 |
| Precipitation | | | | | 0.8 | 0.5 | 0.1 | | 1.3 | | | | 2.7 | 4.9 | 1.4 |
| Evaporation | | 9.3 | 7.7 | 6.7 | 5.6 | 6.0 | 4.0 | 6.9 | 7.6 | 9.1 | 7.4 | 7.4 | 77.7 | 72.1 | 83.8 |
| Growing Degrees | 5 | 13.4 | 14.3 | 15.7 | 16.7 | 18.8 | 18.3 | 15.0 | 16.3 | 16.5 | 16.3 | 14.5 | 175.8 | 166.7 | 172.9 |
| | 10 | 8.4 | 9.3 | 10.7 | 11.7 | 13.8 | 13.3 | 10.0 | 11.3 | 11.5 | 11.3 | 9.5 | 120.8 | 111.7 | 117.9 |

| 3rd 10-day period (21-31/05/2011) | Previous Year Value | Past Years Mean Value | |
|--|------------------------|--------------------------|-------|
| Reference Evapotranspiration | 55.4 | 50.9 | 52.3 |
| Precipitation - Reference Evapotranspiration | -52.7 | -46.0 | -50.9 |
| Number of Rainy Days | 4.0 | 3.0 | 0.6 |
| Number of Dry Days | 12.0 | 31.0 | - |

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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