

AGROMETEOROLOGICAL BULLETIN

October 2010
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
El. Venizelou Street 14, 16777
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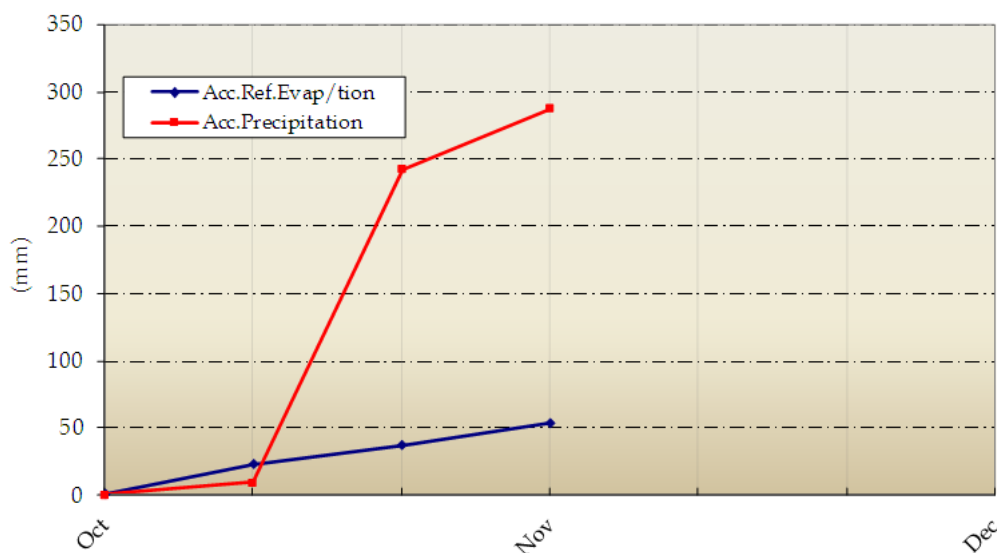
Web addresses of HNMS
www.hnms.gr
www.emy.gov.gr
www.meteo.gov.gr
www.meteohellas.gr

Agrinio

| 3rd 10-day period (21-31/10/2010) | | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 20 | 31 | Mean Value or Sum | Previous Year Value | Past Years Mean Value |
|--------------------------------------|--------|------|------|------|------|------|------|------|------|------|------|------|----------------------|------------------------|--------------------------|
| Temperature | Max | 24.5 | 22.5 | 22.0 | 22.4 | 19.4 | 24.6 | 18.2 | 16.8 | 18.6 | 19.8 | 21.4 | 20.9 | - | 21.8 |
| | Min | 14.4 | 10.8 | 10.8 | 8.8 | 9.2 | 15.0 | 14.0 | 12.0 | 5.6 | 5.5 | 4.2 | 10.0 | - | 9.7 |
| Relative Humidity | Max | 98 | 98 | 98 | 97 | 95 | 98 | 98 | 98 | 91 | 91 | 97 | 96 | - | - |
| | Min | 57 | 48 | 49 | 43 | 81 | 63 | 86 | 61 | 46 | 47 | 39 | 56 | - | - |
| Soil Temperature at 10 cm | 06 UTC | 18.2 | 16.4 | 17.4 | 16.2 | 16.0 | 17.0 | 17.6 | 16.6 | 14.4 | 13.6 | 13.0 | 16.0 | - | 14.8 |
| | 12 UTC | 20.2 | 19.4 | 18.4 | 18.6 | 16.6 | 18.2 | 18.2 | 17.8 | 16.4 | 15.6 | 15.4 | 17.7 | - | 17.8 |
| Sunshine Duration | | 5.4 | 6.6 | 6.7 | 8.8 | 0.0 | 8.6 | 3.7 | 0.5 | 9.3 | 9.3 | 9.1 | 6.2 | - | 5.7 |
| Precipitation | | | | | | 7.2 | 13.7 | 20.9 | 3.8 | | | | 45.6 | - | 42.6 |
| Evaporation | | 2.0 | 1.7 | 3.2 | 2.5 | 1.3 | 2.6 | 0.2 | 1.4 | 3.5 | 1.5 | 1.7 | 21.6 | - | 29.5 |
| Growing Degrees | 5 | 14.5 | 11.7 | 11.4 | 10.6 | 9.3 | 14.8 | 11.1 | 9.4 | 7.1 | 7.7 | 7.8 | 115.3 | - | 118.3 |
| | 10 | 9.5 | 6.7 | 6.4 | 5.6 | 4.3 | 9.8 | 6.1 | 4.4 | 2.1 | 2.7 | 2.8 | 60.3 | - | 63.4 |

| 3rd 10-day period (21-31/10/2010) | | Previous Year Value | Past Years Mean Value |
|--|------|------------------------|--------------------------|
| Reference Evapotranspiration | 16.6 | - | 18.5 |
| Precipitation - Reference Evapotranspiration | 29.0 | - | 24.1 |
| Number of Rainy Days | 4.0 | - | 3.7 |
| Number of Dry Days | 4.0 | - | - |

Diagram of Accumulated Precipitation and Accumulated Reference Evapotranspiration

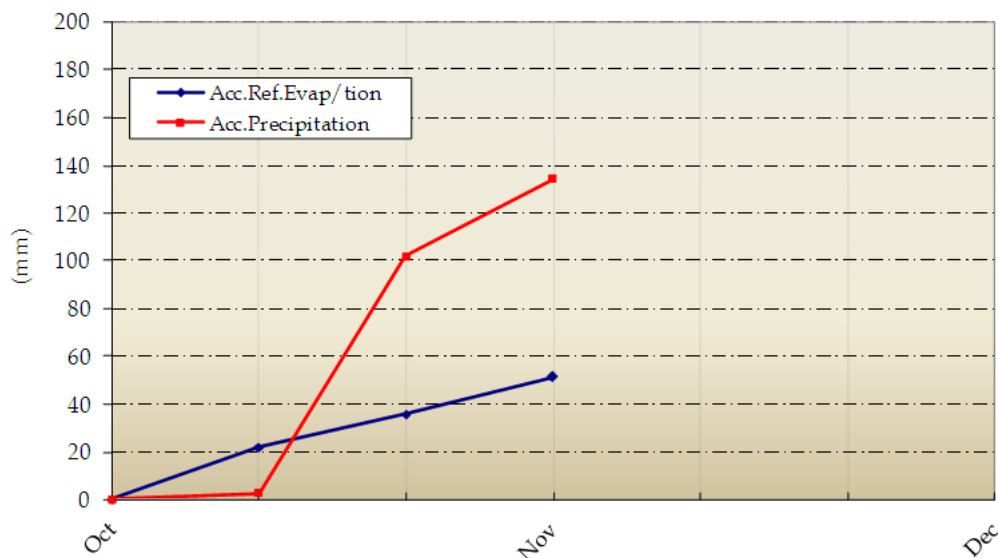


Alexandroupoli

| 3rd 10-day period (21-31/10/2010) | | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 20 | 31 | Mean Value or Sum | Previous Year Value | Past Years Mean Value |
|--------------------------------------|--------|------|------|------|------|------|------|------|------|------|------|------|----------------------|------------------------|--------------------------|
| Temperature | Max | 21.8 | 17.0 | 18.0 | 17.8 | 18.0 | 21.2 | 16.4 | 13.0 | 12.6 | 13.6 | 16.2 | 16.9 | 18.9 | 17.4 |
| | Min | 14.8 | 11.8 | 7.0 | 7.2 | 9.6 | 14.0 | 13.0 | 5.8 | 5.6 | 0.4 | 3.4 | 8.4 | 11.0 | 8.0 |
| Relative Humidity | Max | 96 | 83 | 86 | 84 | 95 | 94 | 92 | 92 | 93 | 92 | 90 | 91 | 90 | - |
| | Min | 67 | 33 | 32 | 56 | 61 | 70 | 75 | 70 | 35 | 44 | 52 | 54 | 57 | - |
| Soil Temperature at 10 cm | 06 UTC | 16.4 | 16.0 | 13.6 | 13.6 | 14.4 | 15.4 | 16.0 | 13.0 | 9.8 | 8.2 | 9.0 | 13.2 | 15.4 | 12.7 |
| | 12 UTC | 17.6 | 17.4 | 16.0 | 15.6 | 16.0 | 17.6 | 16.0 | 12.6 | 11.6 | 10.6 | 11.4 | 14.8 | 17.1 | 15.2 |
| Sunshine Duration | | 6.7 | 8.9 | 9.6 | 3.6 | 3.8 | 6.6 | 0.0 | 0.0 | 8.0 | 8.9 | 9.2 | 5.9 | 4.0 | 5.2 |
| Precipitation | | | | | | 0.0 | 0.0 | 7.5 | 18.9 | 5.9 | | | 32.3 | 0.0 | 22.3 |
| Evaporation | | 3.0 | 5.0 | 3.1 | 1.6 | 0.7 | 2.6 | 3.2 | - | 2.2 | 2.6 | 1.3 | - | 26.5 | 41.1 |
| Growing Degrees | 5 | 13.3 | 9.4 | 7.5 | 7.5 | 8.8 | 12.6 | 9.7 | 4.4 | 4.1 | 2.0 | 4.8 | 84.1 | 109.2 | 85.3 |
| | 10 | 8.3 | 4.4 | 2.5 | 2.5 | 3.8 | 7.6 | 4.7 | 0.0 | 0.0 | 0.0 | 0.0 | 33.8 | 55.6 | 34.4 |

| 3rd 10-day period (21-31/10/2010) | | Previous Year Value | Past Years Mean Value |
|--|------|------------------------|--------------------------|
| Reference Evapotranspiration | 15.7 | 17.7 | 20.4 |
| Precipitation - Reference Evapotranspiration | 16.6 | -17.7 | 1.9 |
| Number of Rainy Days | 3.0 | 0.0 | 2.2 |
| Number of Dry Days | 6.0 | 13.0 | - |

Diagram of Accumulated Precipitation and Accumulated Reference Evapotranspiration

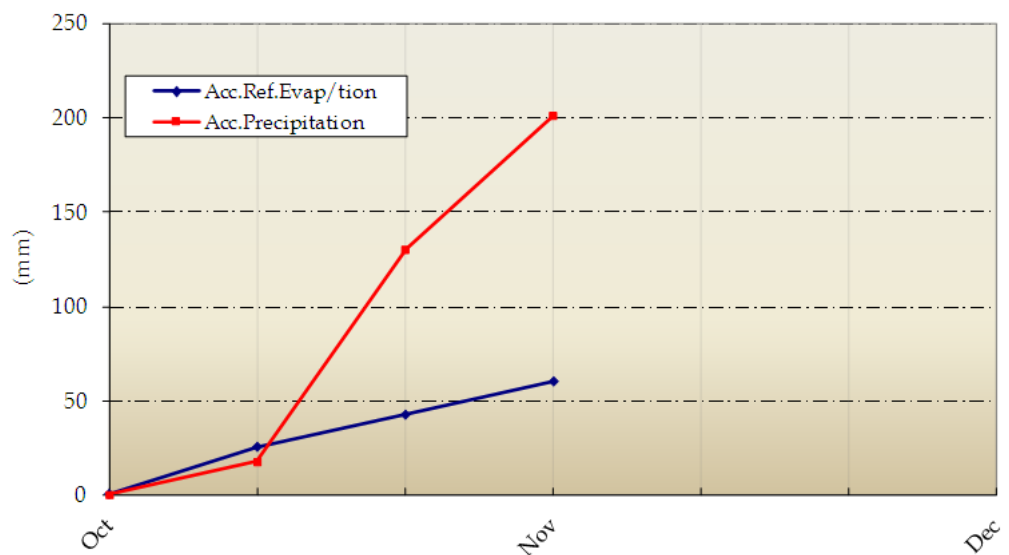


Andravida

| 3rd 10-day period (21-31/10/2010) | | 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 | 21.8 | 21.8 | 21.0 | 24.6 | 18.8 | 17.4 | 19.2 | 19.4 | 21.2 | 21.1 | 22.4 | 21.5 |
| | Min | 15.2 | 14.0 | 12.6 | 10.2 | 12.6 | 15.6 | 13.2 | 11.0 | 9.0 | 7.8 | 6.0 | 11.6 | 12.8 | 11.4 |
| Relative Humidity | Max | 94 | 98 | 95 | 95 | 98 | 94 | 98 | 95 | 92 | 94 | 94 | 95 | 95 | - |
| | Min | 57 | 54 | 48 | 47 | 73 | 59 | 84 | 68 | 48 | 48 | 44 | 57 | 54 | - |
| Soil Temperature at 10 cm | 06 UTC | 17.6 | 17.4 | 17.8 | 16.2 | 16.6 | 17.0 | 16.0 | 15.0 | 14.2 | 13.6 | 13.0 | 15.9 | 16.9 | 16.1 |
| | 12 UTC | 21.8 | 22.0 | 22.0 | 21.6 | 17.6 | 21.6 | 17.4 | 18.0 | 17.4 | 18.4 | 18.2 | 19.6 | 20.5 | 18.7 |
| Sunshine Duration | | 5.8 | 7.5 | 7.6 | 8.8 | 0.0 | 8.1 | 0.4 | 3.0 | 8.8 | 8.8 | 8.7 | 6.1 | 5.3 | 6.3 |
| Precipitation | | | | | | 1.8 | 14.8 | 49.4 | 5.3 | | | | 71.3 | 12.1 | 50.1 |
| Evaporation | | 3.0 | 2.5 | 3.2 | 1.4 | 1.2 | 4.4 | 0.7 | 0.1 | 2.2 | 2.1 | 1.1 | 21.9 | 33.3 | 31.6 |
| Growing Degrees | 5 | 14.3 | 14.0 | 12.2 | 11.0 | 11.8 | 15.1 | 11.0 | 9.2 | 9.1 | 8.6 | 8.6 | 124.9 | 138.7 | 126.2 |
| | 10 | 9.3 | 9.0 | 7.2 | 6.0 | 6.8 | 10.1 | 6.0 | 4.2 | 4.1 | 3.6 | 3.6 | 69.9 | 83.7 | 71.3 |

| 3rd 10-day period (21-31/10/2010) | | Previous Year Value | Past Years Mean Value |
|--|------|---------------------|-----------------------|
| Reference Evapotranspiration | 17.8 | 18.2 | 18.7 |
| Precipitation - Reference Evapotranspiration | 53.5 | -6.1 | 31.4 |
| Number of Rainy Days | 4.0 | 3.0 | 3.7 |
| Number of Dry Days | 4.0 | 3.0 | - |

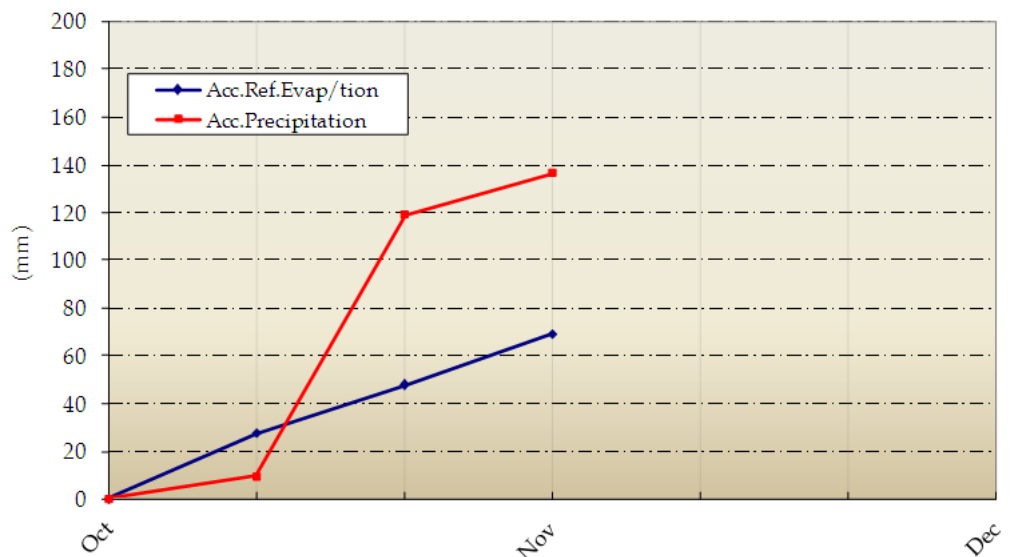
Diagram of Accumulated Precipitation and Accumulated Reference Evapotranspiration



| 3rd 10-day period (21-31/10/2010) | | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 20 | 31 | Mean Value or Sum | Previous Year Value | Past Years Mean Value |
|--------------------------------------|--------|------|------|------|------|------|------|------|------|------|------|------|----------------------|------------------------|--------------------------|
| Temperature | Max | 24.2 | 24.2 | 22.0 | 22.0 | 23.2 | 24.8 | 23.6 | 18.6 | 20.0 | 21.0 | 20.8 | 22.2 | 23.1 | 22.3 |
| | Min | 13.2 | 13.4 | 12.8 | 11.6 | 13.0 | 16.2 | 13.2 | 9.6 | 9.6 | 7.8 | 7.2 | 11.6 | 12.9 | 11.5 |
| Relative Humidity | Max | 98 | 95 | 98 | 98 | 96 | 98 | 98 | 97 | 95 | 97 | 97 | 97 | 96 | - |
| | Min | 53 | 54 | 60 | 62 | 61 | 54 | 69 | 63 | 45 | 42 | 53 | 56 | 56 | - |
| Soil Temperature at 10 cm | 06 UTC | 18.8 | 19.0 | 19.2 | 18.6 | 18.6 | 19.6 | 19.4 | 18.0 | 17.4 | 16.6 | 16.2 | 18.3 | 18.6 | 16.7 |
| | 12 UTC | 20.0 | 20.0 | 19.8 | 19.6 | 19.2 | 20.6 | 20.2 | 18.4 | 18.2 | 17.4 | 17.4 | 19.2 | 19.0 | 18.5 |
| Sunshine Duration | | 7.3 | 6.2 | 5.3 | 8.7 | 0.1 | 9.5 | 3.2 | 3.5 | 9.3 | 9.1 | 9.1 | 6.5 | 5.6 | 5.9 |
| Precipitation | | | | | | | 3.3 | 11.9 | 2.1 | | | | 17.3 | 48.6 | 43.6 |
| Evaporation | | 4.2 | 2.0 | 2.4 | 1.8 | 1.1 | 3.0 | 2.2 | 1.4 | 1.4 | 2.6 | 2.4 | 24.5 | 37.4 | 36.3 |
| Growing Degrees | 5 | 13.7 | 13.8 | 12.4 | 11.8 | 13.1 | 15.5 | 13.4 | 9.1 | 9.8 | 9.4 | 9.0 | 131.0 | 142.6 | 130.7 |
| | 10 | 8.7 | 8.8 | 7.4 | 6.8 | 8.1 | 10.5 | 8.4 | 4.1 | 4.8 | 4.4 | 4.0 | 76.0 | 87.6 | 75.7 |

| 3rd 10-day period (21-31/10/2010) | | Previous Year Value | Past Years Mean Value |
|--|------|------------------------|--------------------------|
| Reference Evapotranspiration | 21.4 | 19.0 | 21.6 |
| Precipitation - Reference Evapotranspiration | -4.1 | 29.6 | 22.0 |
| Number of Rainy Days | 3.0 | 5.0 | 3.7 |
| Number of Dry Days | 5.0 | 3.0 | - |

Diagram of Accumulated Precipitation and Accumulated Reference Evapotranspiration

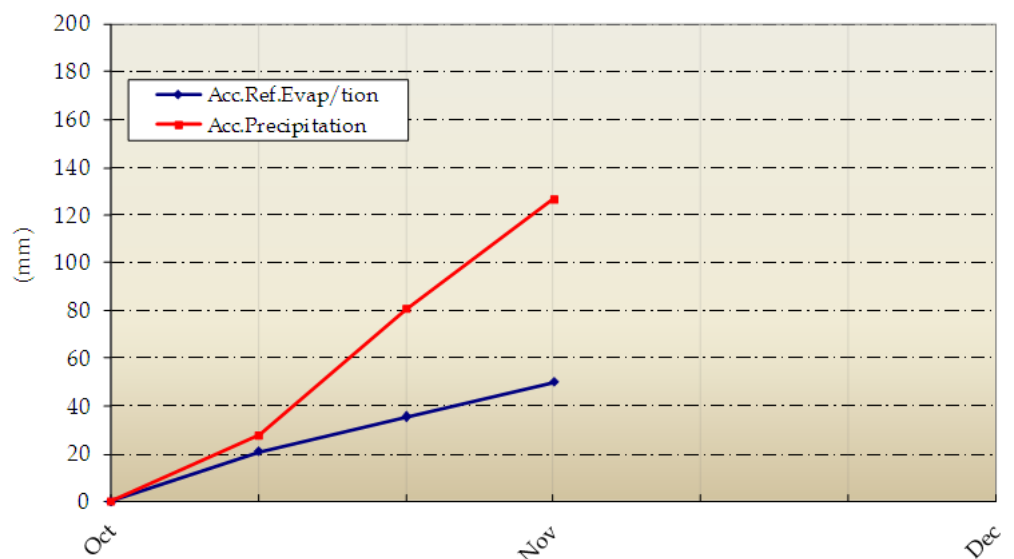


Larisa

| 3rd 10-day period (21-31/10/2010) | | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 20 | 31 | Mean Value or Sum | Previous Year Value | Past Years Mean Value |
|--------------------------------------|--------|------|------|------|------|------|------|------|------|------|------|------|----------------------|------------------------|--------------------------|
| Temperature | Max | 24.0 | 17.0 | 18.2 | 18.4 | 15.4 | 21.6 | 18.4 | 13.8 | 16.2 | 15.8 | 17.0 | 17.8 | 20.5 | 18.9 |
| | Min | 11.6 | 11.8 | 8.6 | 6.0 | 7.0 | 11.8 | 12.2 | 9.8 | 7.8 | 2.0 | 1.4 | 8.2 | 11.6 | 8.3 |
| Relative Humidity | Max | 88 | 95 | 100 | 97 | 98 | 95 | 98 | 95 | 94 | 97 | 100 | 96 | 95 | - |
| | Min | 35 | 50 | 49 | 61 | 75 | 64 | 79 | 67 | 49 | 46 | 52 | 57 | 52 | - |
| Soil Temperature at 10 cm | 06 UTC | 17.0 | 17.0 | 15.6 | 14.4 | 14.4 | 15.0 | 16.4 | 15.6 | 14.0 | 12.2 | 11.6 | 14.8 | 16.0 | 14.6 |
| | 12 UTC | 18.2 | 16.8 | 17.0 | 17.2 | 15.0 | 17.0 | 17.4 | 16.0 | 15.0 | 14.6 | 14.0 | 16.2 | 17.3 | 15.6 |
| Sunshine Duration | | 5.8 | 0.0 | 7.6 | 7.8 | 0.0 | 7.1 | 0.8 | 0.0 | 5.3 | 8.0 | 7.9 | 4.6 | 4.6 | 4.4 |
| Precipitation | | | 1.9 | | | 3.7 | 21.2 | 15.0 | 4.5 | | | | 46.3 | 104.9 | 23.9 |
| Evaporation | | 2.2 | 0.7 | 2.3 | 1.8 | 0.9 | 4.1 | 1.1 | 3.6 | 1.5 | 1.5 | 2.2 | 21.9 | 38.6 | 24.8 |
| Growing Degrees | 5 | 12.8 | 9.4 | 8.4 | 7.2 | 6.2 | 11.7 | 10.3 | 6.8 | 7.0 | 3.9 | 4.2 | 87.9 | 121.5 | 94.1 |
| | 10 | 7.8 | 4.4 | 3.4 | 2.2 | 1.2 | 6.7 | 5.3 | 1.8 | 2.0 | 0.0 | 0.0 | 34.8 | 66.5 | 41.5 |

| 3rd 10-day period (21-31/10/2010) | | Previous Year Value | Past Years Mean Value |
|--|------|------------------------|--------------------------|
| Reference Evapotranspiration | 14.8 | 20.1 | 16.4 |
| Precipitation - Reference Evapotranspiration | 31.5 | 84.8 | 7.5 |
| Number of Rainy Days | 5.0 | 5.0 | 3.5 |
| Number of Dry Days | 1.0 | 5.0 | - |

Diagram of Accumulated Precipitation and Accumulated Reference Evapotranspiration

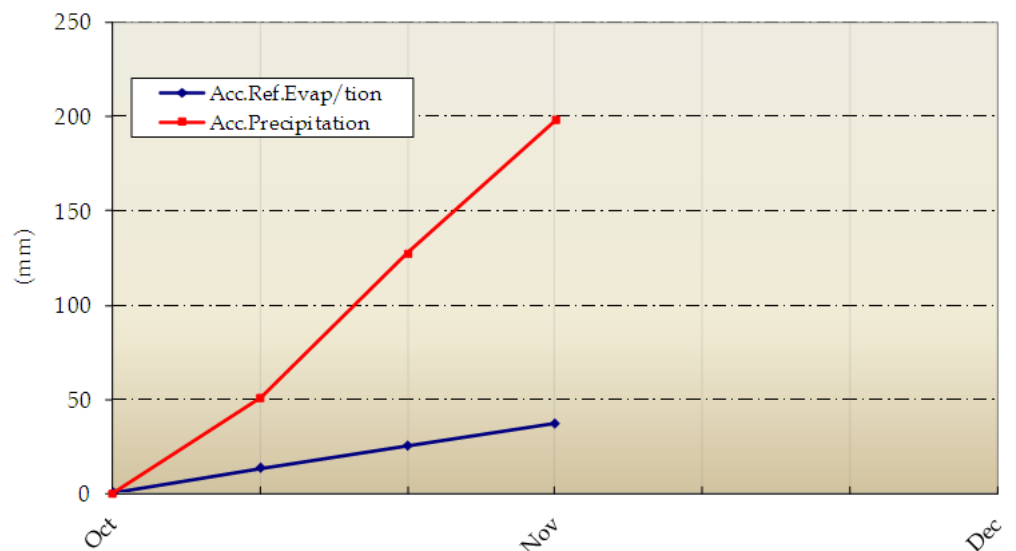


Series

| 3rd 10-day period (21-31/10/2010) | | 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 | 15.8 | 19.0 | 20.0 | 19.0 | 22.8 | 14.8 | 11.5 | 13.8 | 14.4 | 16.4 | 17.4 | 20.4 | 17.9 |
| | Min | 10.6 | 8.8 | 4.4 | 3.5 | 5.6 | 12.8 | 12.0 | 7.4 | 3.4 | 0.2 | 0.8 | 6.3 | 8.8 | 7.4 |
| Relative Humidity | Max | 95 | 94 | 94 | 95 | 95 | 95 | 96 | 97 | 97 | 97 | 96 | 96 | 89 | - |
| | Min | 36 | 46 | 36 | 34 | 57 | 55 | 93 | 95 | 43 | 39 | 45 | 53 | 53 | - |
| Soil Temperature at 10 cm | 06 UTC | 16.2 | 13.2 | 13.2 | - | 12.2 | 14.8 | 15.0 | - | 10.4 | 9.0 | - | 13.0 | 15.1 | 12.5 |
| | 12 UTC | 17.8 | 15.6 | 18.0 | - | 17.8 | 19.6 | 15.0 | - | 16.0 | 10.2 | - | 16.2 | 16.3 | 14.4 |
| Sunshine Duration | | 7.0 | 0.0 | - | 7.0 | 4.9 | 4.6 | - | 0.0 | 6.7 | - | 6.1 | 4.5 | 3.5 | 4.4 |
| Precipitation | | | | | | 1.5 | 1.8 | 18.6 | 48.9 | | | | 70.8 | 12.0 | 15.3 |
| Evaporation | | 2.0 | 1.1 | - | 1.5 | 0.9 | 1.8 | - | 0.0 | 2.4 | - | 0.8 | - | 22.4 | 21.7 |
| Growing Degrees | 5 | 12.0 | 7.3 | 6.7 | 6.8 | 7.3 | 12.8 | 8.4 | 4.5 | 3.6 | 2.3 | 3.6 | 75.2 | 105.7 | 83.5 |
| | 10 | 7.0 | 2.3 | 1.7 | 1.8 | 2.3 | 7.8 | 3.4 | 0.0 | 0.0 | 0.0 | 0.0 | 26.3 | 51.3 | 33.5 |

| 3rd 10-day period (21-31/10/2010) | | Previous Year Value | Past Years Mean Value |
|--|------|------------------------|--------------------------|
| Reference Evapotranspiration | 11.8 | 11.4 | 12.0 |
| Precipitation - Reference Evapotranspiration | 59.0 | 0.6 | 3.3 |
| Number of Rainy Days | 4.0 | 3.0 | 2.7 |
| Number of Dry Days | 5.0 | 5.0 | - |

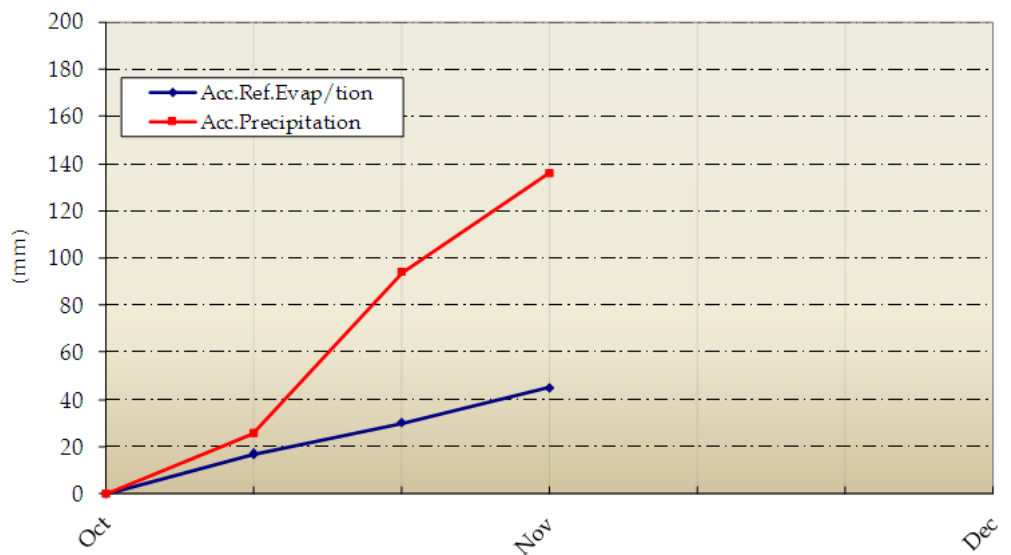
Diagram of Accumulated Precipitation and Accumulated Reference Evapotranspiration



| 3rd 10-day period (21-31/10/2010) | | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 20 | 31 | Mean Value or Sum | Previous Year Value | Past Years Mean Value |
|--------------------------------------|--------|------|------|------|------|------|------|------|------|------|------|-----|----------------------|------------------------|--------------------------|
| Temperature | Max | 25.8 | 15.8 | 21.4 | 20.0 | 13.4 | 21.8 | 16.0 | 10.0 | 13.0 | 18.2 | - | 17.5 | 20.5 | 18.6 |
| | Min | 10.6 | 9.8 | 7.0 | 7.0 | 8.6 | 12.4 | 7.8 | 5.8 | 3.8 | 2.2 | - | 7.5 | 11.2 | 8.5 |
| Relative Humidity | Max | 93 | 96 | 95 | 95 | 95 | 95 | 96 | 92 | 97 | - | 97 | 95 | 95 | - |
| | Min | 30 | 41 | 32 | 46 | 86 | 51 | 64 | 75 | 34 | - | 80 | 54 | 47 | - |
| Soil Temperature at 10 cm | 06 UTC | 17.2 | 16.2 | 15.2 | 15.0 | 14.8 | 15.2 | 16.2 | 13.6 | 12.6 | 11.0 | - | 14.7 | 15.5 | 14.5 |
| | 12 UTC | 18.4 | 16.6 | 16.2 | 16.2 | 15.0 | 17.0 | 16.4 | 13.8 | 13.2 | 12.4 | - | 15.5 | 17.1 | 15.1 |
| Sunshine Duration | | 8.8 | 0.0 | 9.4 | 7.5 | 0.0 | 6.5 | 0.3 | 0.0 | 8.8 | - | 9.1 | 5.0 | 4.0 | 4.4 |
| Precipitation | | | | | | 2.1 | 7.2 | 8.0 | 24.7 | 0.1 | | | 42.1 | 10.7 | 26.8 |
| Evaporation | | 2.0 | 0.6 | 2.0 | 0.6 | 0.9 | 0.4 | 0.3 | 1.5 | 0.3 | - | 0.9 | - | 29.1 | 19.2 |
| Growing Degrees | 5 | 13.2 | 7.8 | 9.2 | 8.5 | 6.0 | 12.1 | 6.9 | 2.9 | 3.4 | 5.2 | - | - | 119.2 | 94.6 |
| | 10 | 8.2 | 2.8 | 4.2 | 3.5 | 1.0 | 7.1 | 1.9 | 0.0 | 0.0 | 0.2 | - | - | 64.2 | 42.5 |

| 3rd 10-day period (21-31/10/2010) | | Previous Year Value | Past Years Mean Value |
|--|------|------------------------|--------------------------|
| Reference Evapotranspiration | 14.9 | 19.0 | 14.2 |
| Precipitation - Reference Evapotranspiration | 27.2 | -8.3 | 12.6 |
| Number of Rainy Days | 5.0 | 3.0 | 3.5 |
| Number of Dry Days | 5.0 | 3.0 | - |

Diagram of Accumulated Precipitation and Accumulated Reference Evapotranspiration

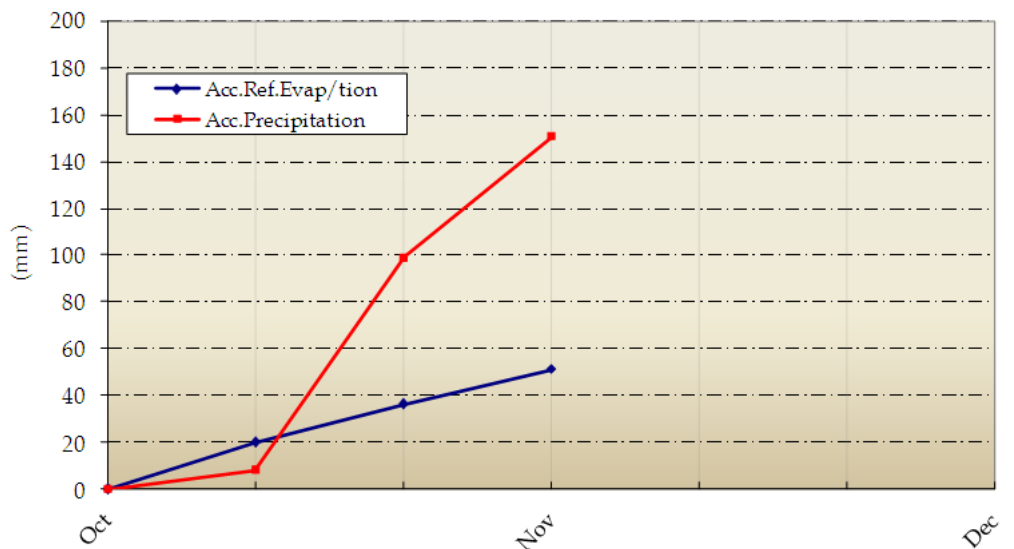


Tripoli

| 3rd 10-day period (21-31/10/2010) | | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 20 | 31 | Mean Value or Sum | Previous Year Value | Past Years Mean Value |
|-----------------------------------|--------|------|------|------|------|------|------|------|------|------|------|------|-------------------|---------------------|-----------------------|
| Temperature | Max | 21.0 | 17.2 | 17.4 | 18.6 | 15.6 | 23.4 | 20.2 | 13.2 | 10.8 | 15.6 | 19.2 | 17.5 | - | 17.6 |
| | Min | 10.2 | 8.2 | 7.4 | 5.8 | 7.6 | 11.0 | 8.6 | 5.4 | 5.6 | 0.4 | 0.0 | 6.4 | - | 6.5 |
| Relative Humidity | Max | 95 | 97 | 94 | 100 | 97 | 97 | 97 | 97 | 94 | 96 | 100 | 97 | - | - |
| | Min | 52 | 61 | 56 | 61 | 75 | 39 | 66 | 68 | 68 | 44 | 31 | 56 | - | - |
| Soil Temperature at 10 cm | 06 UTC | 13.8 | 13.4 | 13.0 | 12.2 | 13.4 | 14.2 | 13.6 | 11.4 | 10.4 | 8.4 | 8.2 | 12.0 | - | 12.8 |
| | 12 UTC | 17.6 | 16.2 | 16.6 | 14.0 | 15.4 | 18.2 | 17.0 | 14.4 | 12.8 | 13.0 | 12.6 | 15.3 | - | 14.2 |
| Sunshine Duration | | 7.3 | 2.3 | 3.7 | 7.8 | 0.3 | 8.5 | 4.0 | 2.6 | 3.5 | 8.5 | 8.7 | 5.2 | - | 5.3 |
| Precipitation | | | | | | 0.6 | 40.9 | 9.6 | 0.1 | 0.1 | | | 51.3 | - | 39.1 |
| Evaporation | | 2.0 | 2.0 | 2.0 | 1.0 | 1.5 | 3.0 | 0.6 | 0.2 | 1.0 | 1.0 | 2.0 | 16.3 | - | 23.9 |
| Growing Degrees | 5 | 10.6 | 7.7 | 7.4 | 7.2 | 6.6 | 12.2 | 9.4 | 4.3 | 3.2 | 3.0 | 4.6 | 76.2 | - | 77.8 |
| | 10 | 5.6 | 2.7 | 2.4 | 2.2 | 1.6 | 7.2 | 4.4 | 0.0 | 0.0 | 0.0 | 0.0 | 26.1 | - | 27.7 |

| 3rd 10-day period (21-31/10/2010) | | Previous Year Value | Past Years Mean Value |
|--|------|---------------------|-----------------------|
| Reference Evapotranspiration | 15.0 | - | 18.0 |
| Precipitation - Reference Evapotranspiration | 36.3 | - | 21.1 |
| Number of Rainy Days | 5.0 | - | 3.8 |
| Number of Dry Days | 4.0 | - | - |

Diagram of Accumulated Precipitation and Accumulated Reference Evapotranspiration

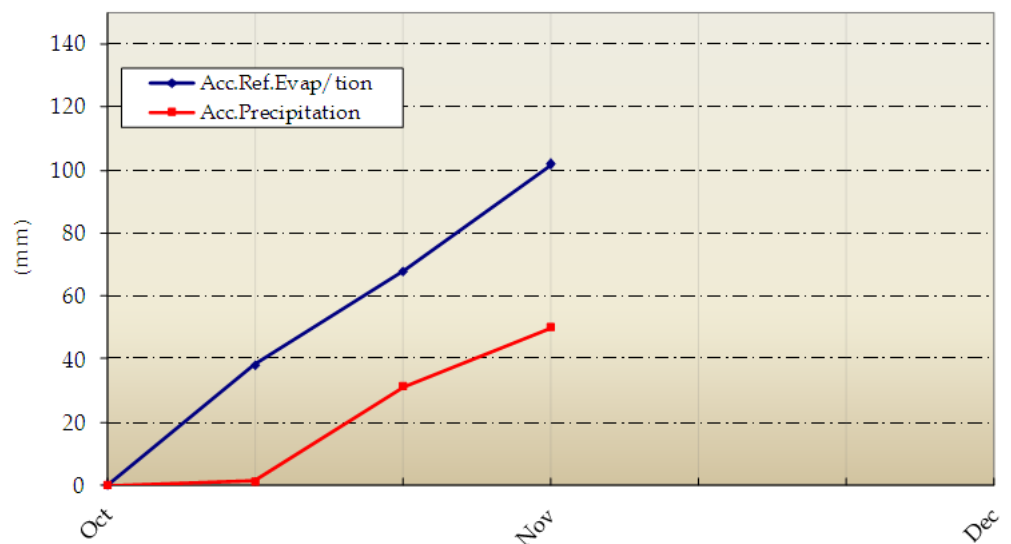


Tympaki

| 3rd 10-day period (21-31/10/2010) | | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 20 | 31 | Mean Value or Sum | Previous Year Value | Past Years Mean Value |
|--------------------------------------|--------|------|------|------|------|------|------|------|------|------|------|------|----------------------|------------------------|--------------------------|
| Temperature | Max | 24.8 | 24.6 | 22.0 | 23.4 | 23.8 | 27.4 | 23.8 | 21.8 | 19.2 | 19.0 | 21.4 | 22.8 | 23.8 | 23.2 |
| | Min | 16.0 | 15.8 | 16.0 | 14.0 | 12.4 | 18.2 | 18.8 | 16.0 | 14.6 | 12.4 | 9.8 | 14.9 | 15.0 | 13.7 |
| Relative Humidity | Max | 91 | 89 | 66 | 71 | 76 | 86 | 95 | 99 | 96 | 88 | 92 | 86 | 92 | - |
| | Min | 48 | 36 | 33 | 27 | 44 | 32 | 23 | 48 | 43 | 41 | 39 | 38 | 41 | - |
| Soil Temperature at 10 cm | 06 UTC | 20.6 | 20.0 | 20.0 | 19.0 | 18.4 | 20.8 | 22.6 | 19.4 | 17.4 | 15.6 | 14.2 | 18.9 | 19.3 | 19.8 |
| | 12 UTC | 24.0 | 24.8 | 23.4 | 23.8 | 23.2 | 26.2 | 23.0 | 22.0 | 19.4 | 19.0 | 20.0 | 22.6 | 22.8 | 23.3 |
| Sunshine Duration | | 4.4 | 6.7 | 9.9 | 10.1 | 7.2 | 5.7 | 0.0 | 7.7 | 9.0 | 9.3 | 9.9 | 7.3 | 5.4 | 6.9 |
| Precipitation | | | | | | | | 6.8 | 4.8 | 7.3 | | | 18.9 | 69.1 | 20.5 |
| Evaporation | | 4.1 | 4.4 | 7.6 | 7.0 | 2.7 | 4.9 | 1.1 | 5.3 | 4.8 | 6.0 | 4.0 | 51.9 | 61.4 | 51.4 |
| Growing Degrees | 5 | 15.4 | 15.2 | 14.0 | 13.7 | 13.1 | 17.8 | 16.3 | 13.9 | 11.9 | 10.7 | 10.6 | 152.6 | 158.6 | 148.0 |
| | 10 | 10.4 | 10.2 | 9.0 | 8.7 | 8.1 | 12.8 | 11.3 | 8.9 | 6.9 | 5.7 | 5.6 | 97.6 | 103.6 | 93.0 |

| 3rd 10-day period (21-31/10/2010) | | Previous Year Value | Past Years Mean Value |
|--|-------|------------------------|--------------------------|
| Reference Evapotranspiration | 33.9 | 25.1 | 27.1 |
| Precipitation - Reference Evapotranspiration | -15.0 | 44.0 | -6.6 |
| Number of Rainy Days | 3.0 | 6.0 | 2.3 |
| Number of Dry Days | 6.0 | 6.0 | - |

Diagram of Accumulated Precipitation and Accumulated Reference Evapotranspiration





◆ List of Symbols and Abbreviations

Reference Evapotranspiration ET_0 (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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ΥΠΗΡΕΣΙΑ

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