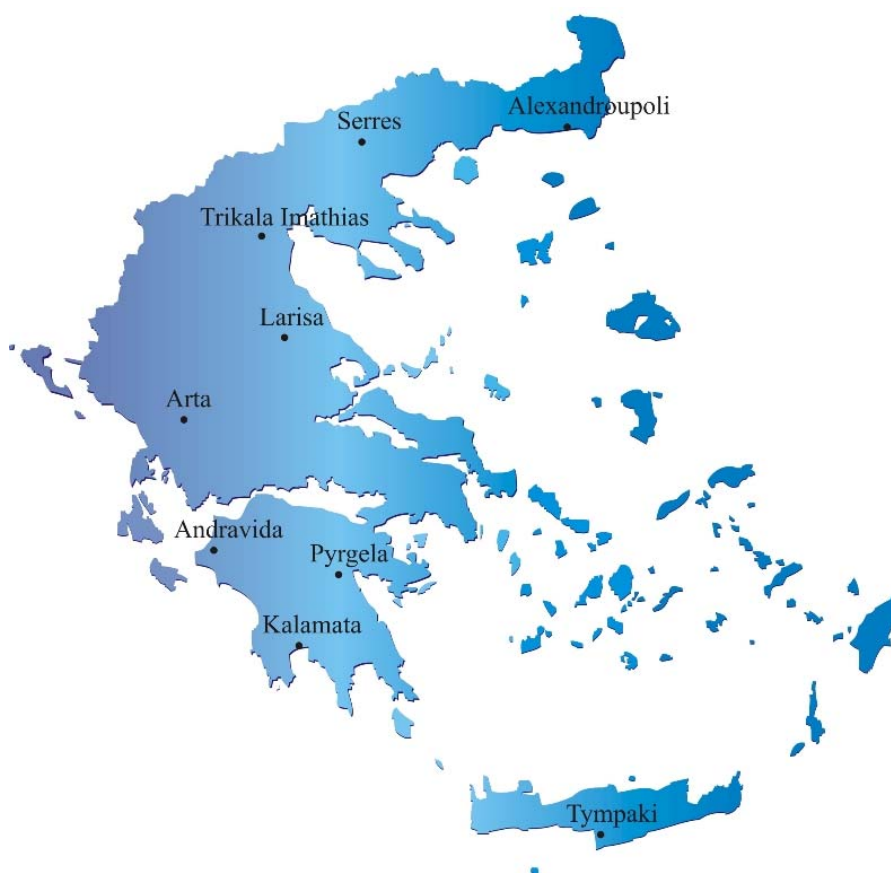




AGROMETEOROLOGICAL BULLETIN

October 2009
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



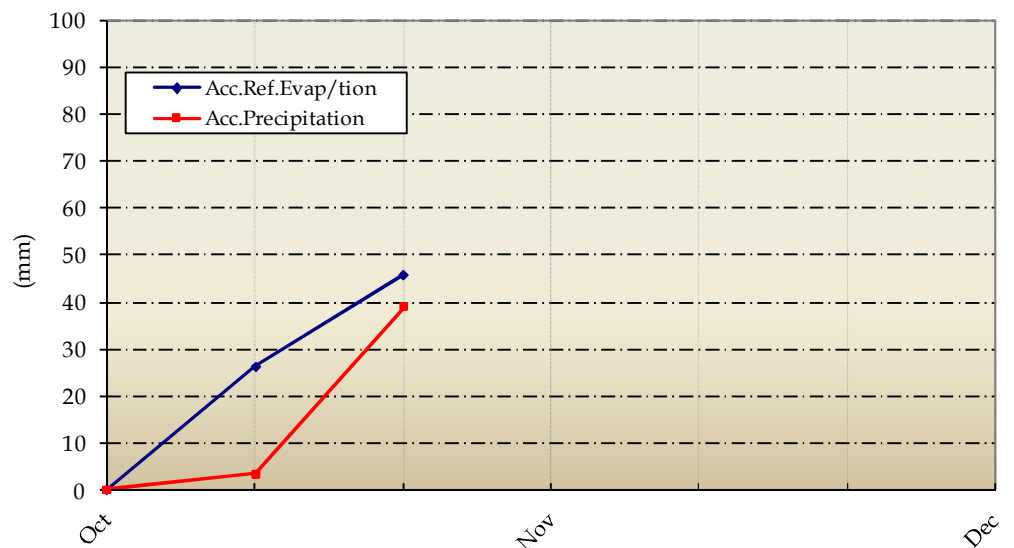
Hellenic National Meteorological Service
Division of Climatology-Applications
El. Venizelou Street 14, 16777
Helliniko, Athens

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

| 2nd 10-day period (11-20/10/2009) | | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | Mean Value or Sum | Previous Year Value | Past Years Mean Value |
|--------------------------------------|--------|------|------|------|------|------|------|------|------|------|------|----------------------|------------------------|--------------------------|
| Temperature | Max | 26.0 | 23.4 | 23.0 | 17.6 | 14.0 | 17.4 | 17.0 | 17.8 | 22.4 | 22.6 | 20.1 | - | 20.8 |
| | Min | 16.0 | 12.4 | 17.6 | 6.6 | 7.4 | 12.0 | 11.6 | 12.8 | 11.8 | 15.8 | 12.4 | - | 10.8 |
| Relative Humidity | Max | 84 | 87 | 94 | 86 | 81 | 100 | 95 | 100 | 90 | 92 | 91 | - | - |
| | Min | 44 | 61 | 61 | 38 | 52 | 74 | 72 | 75 | 69 | 38 | 58 | - | - |
| Soil Temperature at 10 cm | 06 UTC | 19.5 | 19.4 | 21.0 | 16.4 | 14.6 | 15.2 | 15.6 | 15.2 | 15.0 | 17.6 | 17.0 | - | 15.2 |
| | 12 UTC | 21.5 | 22.0 | 21.6 | 17.8 | 15.4 | - | 16.5 | 15.6 | 17.6 | 19.4 | 18.6 | - | 18.0 |
| Sunshine Duration | | 9.2 | 6.2 | 1.8 | 10.3 | 0.0 | 0.6 | 1.5 | 3.3 | 8.9 | 9.5 | 5.1 | - | 5.9 |
| Precipitation | | | | 5.9 | | | 11.6 | 1.3 | 16.9 | | 0.0 | 35.7 | - | 15.0 |
| Evaporation | | 4.0 | 1.1 | 5.9 | 3.0 | 0.5 | 0.8 | 0.2 | 0.8 | 3.2 | 2.4 | 21.9 | - | 42.1 |
| Growing Degrees | 5 | 16.0 | 12.9 | 15.3 | 7.1 | 5.7 | 9.7 | 9.3 | 10.3 | 12.1 | 14.2 | 112.6 | - | 107.7 |
| | 10 | 11.0 | 7.9 | 10.3 | 2.1 | 0.7 | 4.7 | 4.3 | 5.3 | 7.1 | 9.2 | 62.6 | - | 58.4 |

| 2nd 10-day period (11-20/10/2009) | Previous Year Value | Past Years Mean Value | |
|--|------------------------|--------------------------|------|
| Reference Evapotranspiration | 19.4 | - | 22.7 |
| Precipitation - Reference Evapotranspiration | 16.3 | - | -7.7 |
| Number of Rainy Days | 4.0 | - | 1.9 |
| Number of Dry Days | 8.0 | - | - |

Diagram of Accumulated Precipitation and Accumulated Reference Evapotranspiration

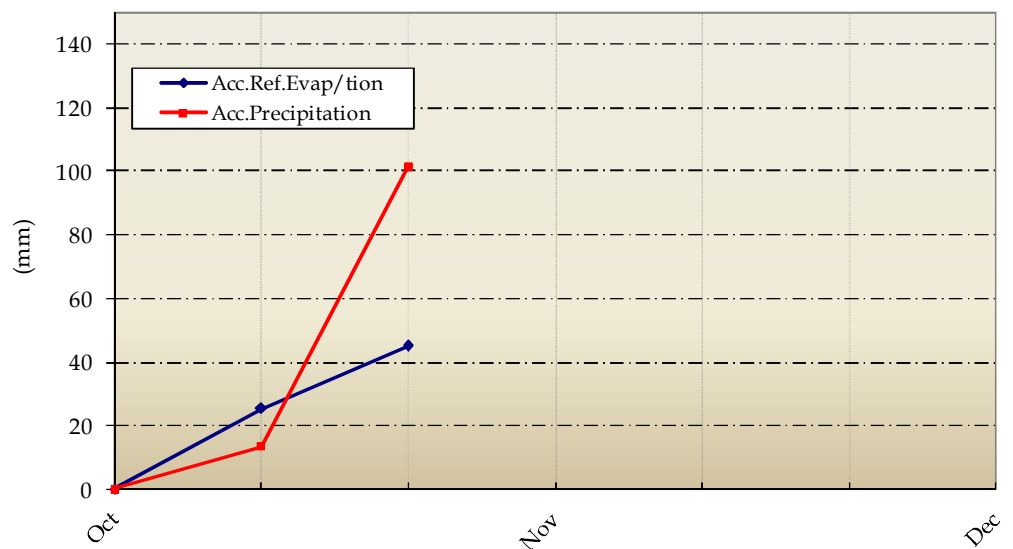


Andravida

| 2nd 10-day period (11-20/10/2009) | | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | Mean Value or Sum | Previous Year Value | Past Years Mean Value |
|--------------------------------------|--------|------|------|------|------|------|------|------|------|------|------|----------------------|------------------------|--------------------------|
| Temperature | Max | 25.4 | 25.2 | 21.8 | 18.0 | 18.2 | 22.4 | 20.8 | 21.0 | 21.2 | 20.6 | 21.5 | - | 24.1 |
| | Min | 16.2 | 17.0 | 17.4 | 11.8 | 11.6 | 16.2 | 13.8 | 14.0 | 15.4 | 11.6 | 14.5 | - | 13.2 |
| Relative Humidity | Max | 96 | 96 | 94 | 93 | 96 | 98 | 98 | 98 | 98 | 95 | 96 | - | - |
| | Min | 57 | 61 | 48 | 52 | 73 | 61 | 65 | 67 | 56 | 47 | 59 | - | - |
| Soil Temperature at 10 cm | 06 UTC | 20.6 | 21.4 | 21.0 | 17.0 | 16.8 | 17.2 | 17.4 | 17.2 | 17.2 | 15.8 | 18.2 | - | 18.6 |
| | 12 UTC | 25.8 | 24.0 | 22.0 | 22.0 | 17.2 | - | 20.4 | 19.0 | 19.4 | 20.8 | 21.2 | - | 21.5 |
| Sunshine Duration | | 8.4 | 5.3 | 5.6 | 6.0 | 0.0 | 6.1 | 4.5 | 2.8 | 4.7 | 8.5 | 5.2 | - | 7.1 |
| Precipitation | | | 2.4 | 8.2 | 2.4 | 11.5 | 33.3 | 2.4 | 11.9 | 15.7 | | 87.8 | - | 23.9 |
| Evaporation | | 5.0 | 1.3 | 4.7 | 0.0 | 1.8 | 1.6 | 5.4 | 0.8 | 3.2 | 1.9 | 25.7 | - | 36.4 |
| Growing Degrees | 5 | 15.8 | 16.1 | 14.6 | 9.9 | 9.9 | 14.3 | 12.3 | 12.5 | 13.3 | 11.1 | 129.8 | - | 136.6 |
| | 10 | 10.8 | 11.1 | 9.6 | 4.9 | 4.9 | 9.3 | 7.3 | 7.5 | 8.3 | 6.1 | 79.8 | - | 86.6 |

| 2nd 10-day period (11-20/10/2009) | Previous Year Value | Past Years Mean Value | |
|--|------------------------|--------------------------|------|
| Reference Evapotranspiration | 19.5 | - | 22.5 |
| Precipitation - Reference Evapotranspiration | 68.3 | - | 1.4 |
| Number of Rainy Days | 8.0 | - | 2.6 |
| Number of Dry Days | 8.0 | - | - |

Diagram of Accumulated Precipitation and Accumulated Reference Evapotranspiration

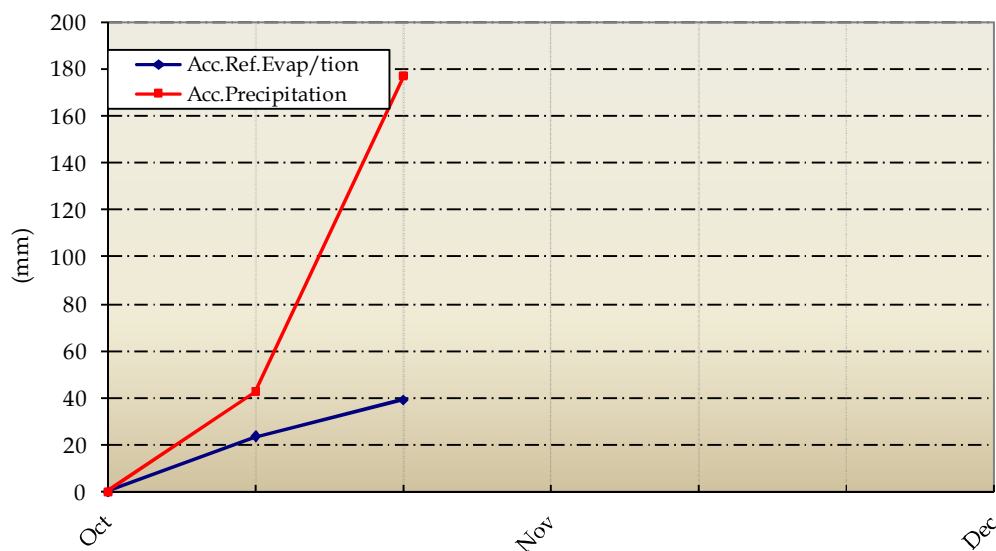


Arta

| 2nd 10-day period (11-20/10/2009) | | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | Mean Value or Sum | Previous Year Value | Past Years Mean Value |
|--------------------------------------|--------|------|------|------|------|------|------|------|------|------|------|----------------------|------------------------|--------------------------|
| Temperature | Max | 27.4 | 20.8 | 20.8 | 15.0 | 16.2 | 22.4 | 21.2 | 21.8 | 21.4 | 20.2 | 20.7 | - | 24.6 |
| | Min | 12.6 | 15.0 | 13.4 | 6.6 | 9.6 | 14.0 | 12.6 | 10.8 | 13.6 | 10.0 | 11.8 | - | 12.0 |
| Relative Humidity | Max | 95 | 98 | 92 | 87 | 85 | 96 | 95 | 98 | 98 | 98 | 94 | - | - |
| | Min | 53 | 90 | 41 | 38 | 63 | 55 | 33 | 78 | 58 | 42 | 55 | - | - |
| Soil Temperature at 10 cm | 06 UTC | 19.8 | 20.4 | 19.4 | 16.8 | 16.8 | 17.2 | 17.2 | 17.2 | 17.4 | 15.8 | 17.8 | - | 17.2 |
| | 12 UTC | 21.8 | 20.2 | 20.2 | 18.0 | 17.6 | - | 18.4 | 18.4 | 17.0 | 17.4 | 18.8 | - | 20.4 |
| Sunshine Duration | | 9.3 | 0.1 | 8.0 | 6.9 | 0.1 | 9.5 | 5.0 | 3.8 | 4.8 | 5.3 | 5.3 | - | 6.6 |
| Precipitation | | | 69.3 | 13.6 | | 0.3 | 11.4 | | 6.1 | 23.0 | 11.2 | 134.9 | - | 36.8 |
| Evaporation | | 2.1 | 1.8 | 2.5 | 1.0 | 0.5 | 11.0 | 1.4 | 0.7 | 6.1 | 2.0 | 29.1 | - | - |
| Growing Degrees | 5 | 15.0 | 12.9 | 12.1 | 5.8 | 7.9 | 13.2 | 11.9 | 11.3 | 12.5 | 10.1 | 112.7 | - | 132.7 |
| | 10 | 10.0 | 7.9 | 7.1 | 0.8 | 2.9 | 8.2 | 6.9 | 6.3 | 7.5 | 5.1 | 62.7 | - | 82.9 |

| 2nd 10-day period (11-20/10/2009) | | Previous Year Value | Past Years Mean Value |
|--|-------|------------------------|--------------------------|
| Reference Evapotranspiration | 15.8 | - | 18.6 |
| Precipitation - Reference Evapotranspiration | 119.1 | - | 18.2 |
| Number of Rainy Days | 7.0 | - | 2.6 |
| Number of Dry Days | 8.0 | - | - |

Diagram of Accumulated Precipitation and Accumulated Reference Evapotranspiration

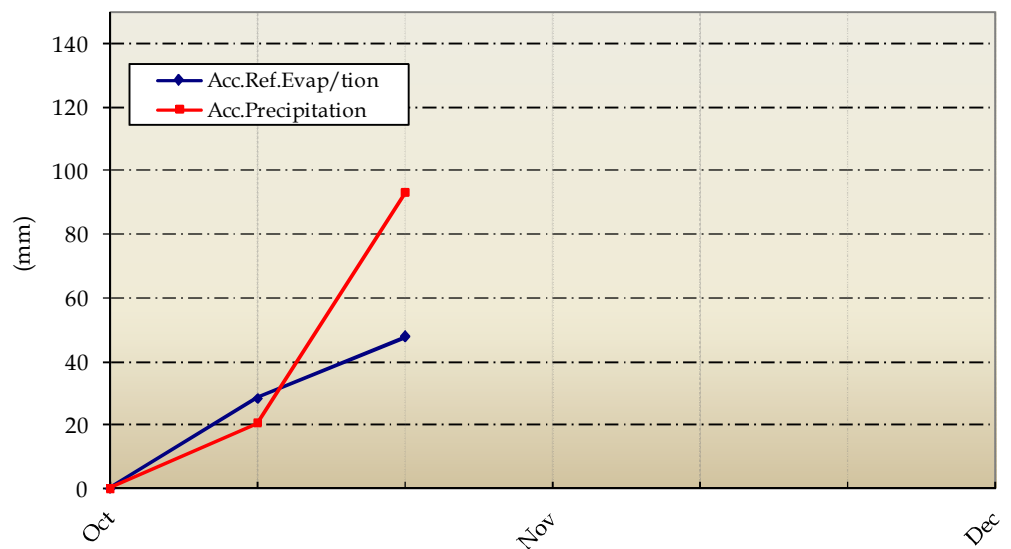


Kalamata

| 2nd 10-day period (11-20/10/2009) | | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | Mean Value or Sum | Previous Year Value | Past Years Mean Value |
|--------------------------------------|--------|------|------|------|------|------|------|------|------|------|------|----------------------|------------------------|--------------------------|
| Temperature | Max | 25.2 | 24.6 | 21.4 | 19.6 | 16.0 | 25.4 | 19.2 | 22.8 | 23.0 | 21.2 | 21.8 | - | 24.7 |
| | Min | 12.6 | 13.0 | 15.0 | 9.4 | 12.0 | 15.0 | 13.6 | 13.2 | 13.0 | 12.8 | 13.0 | - | 13.1 |
| Relative Humidity | Max | 95 | 95 | 97 | 97 | 98 | 98 | 98 | 98 | 98 | 98 | 97 | - | - |
| | Min | 54 | 65 | 51 | 46 | 81 | 59 | 87 | 61 | 52 | 45 | 60 | - | - |
| Soil Temperature at 10 cm | 06 UTC | 19.6 | 19.2 | 20.6 | 18.4 | 18.2 | 17.4 | 18.6 | 17.6 | 18.0 | 18.4 | 18.6 | - | 18.6 |
| | 12 UTC | 22.6 | 22.0 | 21.0 | 19.6 | 18.0 | 20.4 | 18.8 | 19.6 | 19.2 | 19.6 | 20.1 | - | 20.9 |
| Sunshine Duration | | 10.0 | 8.8 | 4.9 | 6.9 | 0.0 | 6.8 | 0.0 | 8.1 | 7.9 | 9.3 | 6.3 | - | 6.8 |
| Precipitation | | | 2.1 | 3.0 | | 15.8 | 24.4 | 15.4 | 3.3 | 8.5 | 0.3 | 72.8 | - | 24.4 |
| Evaporation | | 3.0 | 5.9 | 11.3 | 2.3 | 0.6 | 1.0 | 1.4 | 1.5 | 2.3 | 5.0 | 34.3 | - | 39.0 |
| Growing Degrees | 5 | 13.9 | 13.8 | 13.2 | 9.5 | 9.0 | 15.2 | 11.4 | 13.0 | 13.0 | 12.0 | 124.0 | - | 138.6 |
| | 10 | 8.9 | 8.8 | 8.2 | 4.5 | 4.0 | 10.2 | 6.4 | 8.0 | 8.0 | 7.0 | 74.0 | - | 88.6 |

| 2nd 10-day period (11-20/10/2009) | | Previous Year Value | Past Years Mean Value |
|--|------|------------------------|--------------------------|
| Reference Evapotranspiration | 19.2 | - | 24.3 |
| Precipitation - Reference Evapotranspiration | 53.6 | - | 0.1 |
| Number of Rainy Days | 8.0 | - | 2.7 |
| Number of Dry Days | 8.0 | - | - |

Diagram of Accumulated Precipitation and Accumulated Reference Evapotranspiration

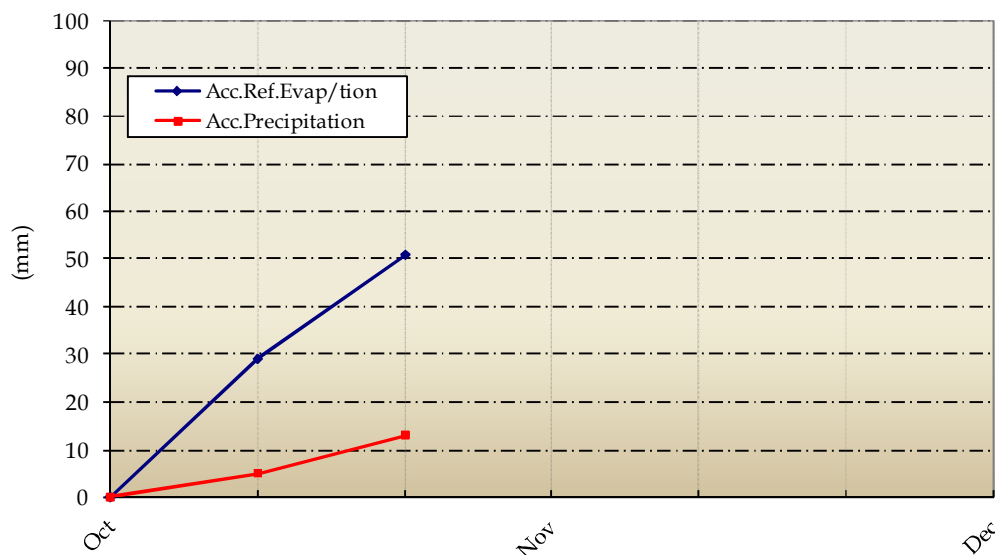


Larisa

| 2nd 10-day period (11-20/10/2009) | | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | Mean Value or Sum | Previous Year Value | Past Years Mean Value |
|--------------------------------------|--------|------|------|------|------|------|------|------|------|------|------|----------------------|------------------------|--------------------------|
| Temperature | Max | 28.6 | 25.2 | 24.2 | 18.6 | 15.0 | 16.0 | 19.4 | 20.6 | 22.6 | 22.2 | 21.2 | - | 23.0 |
| | Min | 11.0 | 10.8 | 16.0 | 8.4 | 10.2 | 10.0 | 12.8 | 11.8 | 9.8 | 8.8 | 11.0 | - | 10.1 |
| Relative Humidity | Max | 87 | 95 | 74 | 64 | 97 | 97 | 95 | 95 | 95 | 94 | 89 | - | - |
| | Min | 32 | 42 | 23 | 24 | 49 | 83 | 68 | 51 | 45 | 30 | 45 | - | - |
| Soil Temperature at 10 cm | 06 UTC | 19.6 | 19.6 | 20.4 | 18.4 | 18.0 | 17.0 | 17.4 | 17.2 | 16.6 | 15.8 | 18.0 | - | 17.2 |
| | 12 UTC | 21.6 | 21.4 | 21.6 | 19.6 | 18.4 | - | 18.4 | 18.2 | 18.4 | 17.8 | 19.5 | - | 18.6 |
| Sunshine Duration | | 8.5 | 3.4 | 6.5 | 8.4 | 0.1 | 0.0 | 3.1 | 3.0 | 5.5 | 8.2 | 4.7 | - | 5.6 |
| Precipitation | | | | | | 1.6 | 5.8 | | 0.6 | | | 8.0 | - | 14.1 |
| Evaporation | | 4.1 | 1.7 | 4.6 | 5.8 | 2.8 | 0.4 | 0.6 | 1.8 | 3.5 | 2.7 | 28.0 | - | 31.3 |
| Growing Degrees | 5 | 14.8 | 13.0 | 15.1 | 8.5 | 7.6 | 8.0 | 11.1 | 11.2 | 11.2 | 10.5 | 111.0 | - | 115.6 |
| | 10 | 9.8 | 8.0 | 10.1 | 3.5 | 2.6 | 3.0 | 6.1 | 6.2 | 6.2 | 5.5 | 61.0 | - | 65.8 |

| 2nd 10-day period (11-20/10/2009) | | Previous Year Value | Past Years Mean Value |
|--|-------|------------------------|--------------------------|
| Reference Evapotranspiration | 21.7 | - | 20.6 |
| Precipitation - Reference Evapotranspiration | -13.7 | - | -6.5 |
| Number of Rainy Days | 3.0 | - | 2.4 |
| Number of Dry Days | 11.0 | - | - |

Diagram of Accumulated Precipitation and Accumulated Reference Evapotranspiration

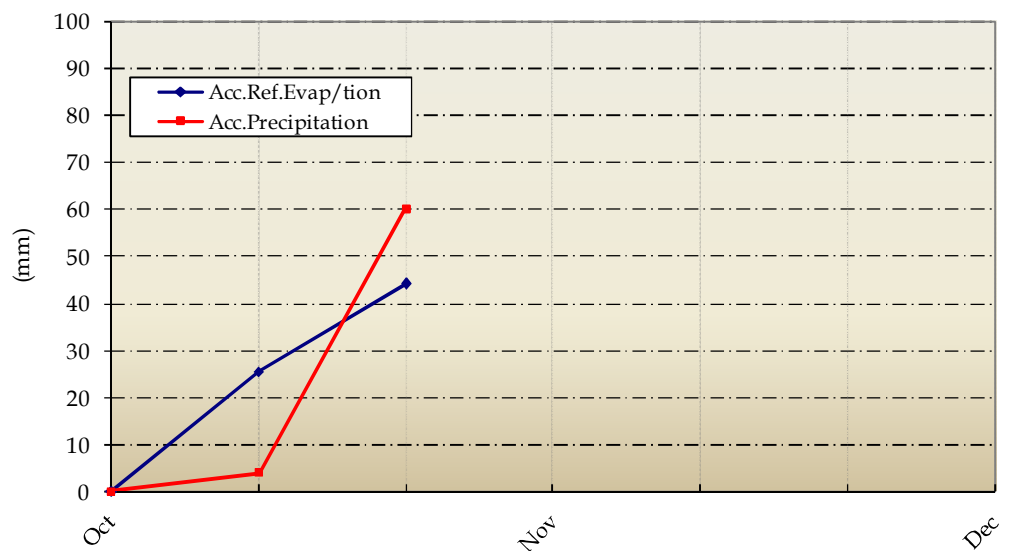


Pyrgela

| 2nd 10-day period (11-20/10/2009) | | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | Mean Value or Sum | Previous Year Value | Past Years Mean Value |
|--------------------------------------|--------|------|------|------|------|------|------|------|------|------|------|----------------------|------------------------|--------------------------|
| Temperature | Max | 28.6 | 26.4 | 25.0 | 22.4 | 17.2 | - | - | - | - | - | 23.9 | - | 24.9 |
| | Min | 10.4 | 10.6 | 17.0 | 5.4 | 11.0 | 14.0 | 13.0 | - | 11.2 | 10.2 | 11.4 | - | 11.3 |
| Relative Humidity | Max | 88 | 85 | 83 | 92 | 91 | 94 | 93 | 93 | 93 | 92 | 90 | - | - |
| | Min | 37 | 40 | 30 | 24 | 90 | 70 | 86 | 37 | 38 | 30 | 48 | - | - |
| Soil Temperature at 10 cm | 06 UTC | 18.4 | 18.4 | 21.2 | 16.4 | 17.8 | 18.4 | 17.0 | 16.0 | 16.8 | 16.8 | 17.7 | - | 17.3 |
| | 12 UTC | 25.0 | 21.6 | 22.4 | 22.2 | 17.2 | 20.0 | 17.6 | 20.0 | 20.0 | 20.8 | 20.7 | - | 22.4 |
| Sunshine Duration | | 9.1 | 7.1 | 5.3 | 7.5 | 0.0 | 4.8 | 0.1 | 9.0 | 7.9 | 9.3 | 6.0 | - | 6.5 |
| Precipitation | | | | 0.4 | | 18.9 | 21.9 | 14.2 | 0.8 | | | 56.2 | - | 12.6 |
| Evaporation | | 5.2 | 2.6 | 3.4 | 3.0 | 0.0 | 0.5 | 2.2 | 4.8 | 2.6 | 4.0 | 28.3 | - | 27.1 |
| Growing Degrees | 5 | 14.5 | 13.5 | 16.0 | 8.9 | 9.1 | - | - | - | - | - | - | - | 130.4 |
| | 10 | 9.5 | 8.5 | 11.0 | 3.9 | 4.1 | - | - | - | - | - | - | - | 80.7 |

| 2nd 10-day period (11-20/10/2009) | Previous Year Value | Past Years Mean Value | |
|--|------------------------|--------------------------|------|
| Reference Evapotranspiration | 18.7 | - | 19.7 |
| Precipitation - Reference Evapotranspiration | 37.5 | - | -7.1 |
| Number of Rainy Days | 5.0 | - | 2.1 |
| Number of Dry Days | 9.0 | - | - |

Diagram of Accumulated Precipitation and Accumulated Reference Evapotranspiration

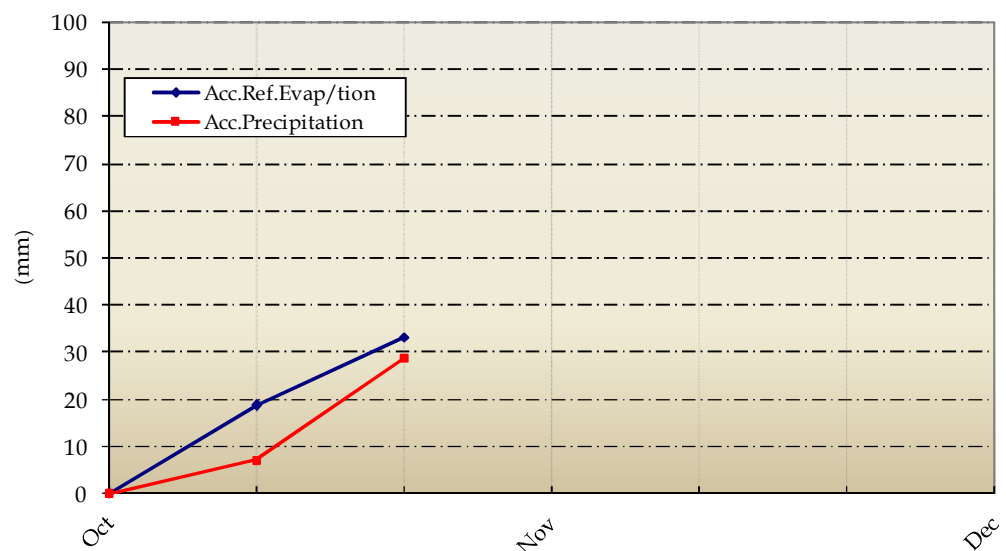


Series

| 2nd 10-day period (11-20/10/2009) | | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | Mean Value or Sum | Previous Year Value | Past Years Mean Value |
|--------------------------------------|--------|------|------|------|------|------|------|------|------|------|------|----------------------|------------------------|--------------------------|
| Temperature | Max | 28.4 | 25.8 | 24.0 | 16.0 | 11.4 | 14.2 | 15.0 | 18.0 | 21.6 | 21.6 | 19.6 | - | 22.1 |
| | Min | 12.0 | 12.0 | 11.4 | 6.4 | 3.0 | 8.0 | 9.0 | 10.6 | 10.0 | 10.6 | 9.3 | - | 10.0 |
| Relative Humidity | Max | 73 | 91 | 92 | 51 | 78 | 95 | 97 | 98 | 95 | 93 | 86 | - | - |
| | Min | 35 | 48 | 46 | 25 | 48 | 78 | 68 | 76 | 60 | 33 | 52 | - | - |
| Soil Temperature at 10 cm | 06 UTC | 18.6 | 18.8 | 20.0 | 16.0 | 14.0 | 14.8 | 15.2 | 15.6 | 16.2 | 16.2 | 16.5 | - | 15.4 |
| | 12 UTC | - | - | 20.2 | 17.4 | - | - | 15.6 | 16.4 | 16.8 | 17.2 | 17.3 | - | 17.7 |
| Sunshine Duration | | 7.7 | 5.5 | 3.4 | 8.4 | 0.0 | 0.0 | 1.1 | 2.1 | 2.0 | 7.8 | 3.8 | - | 5.7 |
| Precipitation | | | | 3.7 | | | 5.3 | 12.0 | 0.6 | 0.0 | | 21.6 | - | 13.5 |
| Evaporation | | 5.0 | 3.3 | 3.4 | 2.0 | 0.3 | 0.0 | 1.0 | 1.4 | 1.4 | 2.6 | 20.4 | - | 24.0 |
| Growing Degrees | 5 | 15.2 | 13.9 | 12.7 | 6.2 | 2.2 | 6.1 | 7.0 | 9.3 | 10.8 | 11.1 | 94.5 | - | 109.9 |
| | 10 | 10.2 | 8.9 | 7.7 | 1.2 | 0.0 | 1.1 | 2.0 | 4.3 | 5.8 | 6.1 | 47.3 | - | 60.3 |

| 2nd 10-day period (11-20/10/2009) | | Previous Year Value | Past Years Mean Value |
|--|------|------------------------|--------------------------|
| Reference Evapotranspiration | 14.5 | - | 15.0 |
| Precipitation - Reference Evapotranspiration | 7.1 | - | -1.5 |
| Number of Rainy Days | 4.0 | - | 2.0 |
| Number of Dry Days | 9.0 | - | - |

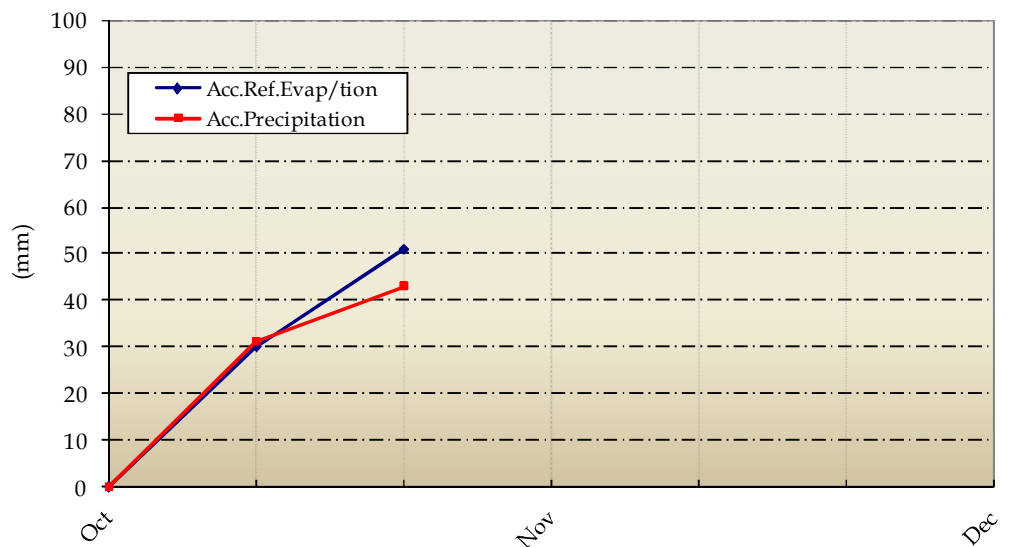
Diagram of Accumulated Precipitation and Accumulated Reference Evapotranspiration



| 2nd 10-day period (11-20/10/2009) | | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | Mean Value or Sum | Previous Year Value | Past Years Mean Value |
|--------------------------------------|--------|------|------|------|------|------|------|------|------|------|------|----------------------|------------------------|--------------------------|
| Temperature | Max | 28.8 | 25.4 | 25.0 | 16.8 | 16.0 | 13.0 | 18.6 | 18.0 | 20.8 | 21.2 | 20.4 | - | 22.4 |
| | Min | 12.6 | 15.4 | 11.6 | 7.2 | 5.0 | 9.8 | 7.2 | 10.6 | 10.6 | 9.4 | 9.9 | - | 10.0 |
| Relative Humidity | Max | 98 | 93 | 90 | 82 | 95 | 95 | 90 | 89 | 93 | 99 | 92 | - | - |
| | Min | 42 | 55 | 23 | 29 | 33 | 54 | 38 | 66 | 61 | 43 | 44 | - | - |
| Soil Temperature at 10 cm | 06 UTC | 19.2 | 20.4 | 21.0 | 16.8 | 15.6 | 16.0 | 13.8 | 15.2 | 15.4 | 15.4 | 16.9 | - | 17.1 |
| | 12 UTC | 22.8 | 22.6 | 22.0 | 21.0 | 17.4 | 16.0 | 15.4 | 17.2 | 17.2 | 18.0 | 19.0 | - | 17.9 |
| Sunshine Duration | | 8.6 | 5.1 | 3.9 | 9.6 | 1.5 | 0.1 | 5.8 | 1.8 | 4.9 | 7.5 | 4.9 | - | 5.6 |
| Precipitation | | | | 0.2 | | 0.7 | 10.7 | | | | 0.3 | 11.9 | - | 9.2 |
| Evaporation | | 3.3 | 2.8 | 1.0 | 3.2 | 1.8 | 2.2 | 0.7 | 0.3 | 2.9 | 1.2 | 19.4 | - | 23.7 |
| Growing Degrees | 5 | 15.7 | 15.4 | 13.3 | 7.0 | 5.5 | 6.4 | 7.9 | 9.3 | 10.7 | 10.3 | 101.5 | - | 111.4 |
| | 10 | 10.7 | 10.4 | 8.3 | 2.0 | 0.5 | 1.4 | 2.9 | 4.3 | 5.7 | 5.3 | 51.5 | - | 61.7 |

| 2nd 10-day period (11-20/10/2009) | | Previous Year Value | Past Years Mean Value |
|--|------|------------------------|--------------------------|
| Reference Evapotranspiration | 21.0 | - | 17.0 |
| Precipitation - Reference Evapotranspiration | -9.1 | - | -7.8 |
| Number of Rainy Days | 4.0 | - | 1.6 |
| Number of Dry Days | 9.0 | - | - |

Diagram of Accumulated Precipitation and Accumulated Reference Evapotranspiration

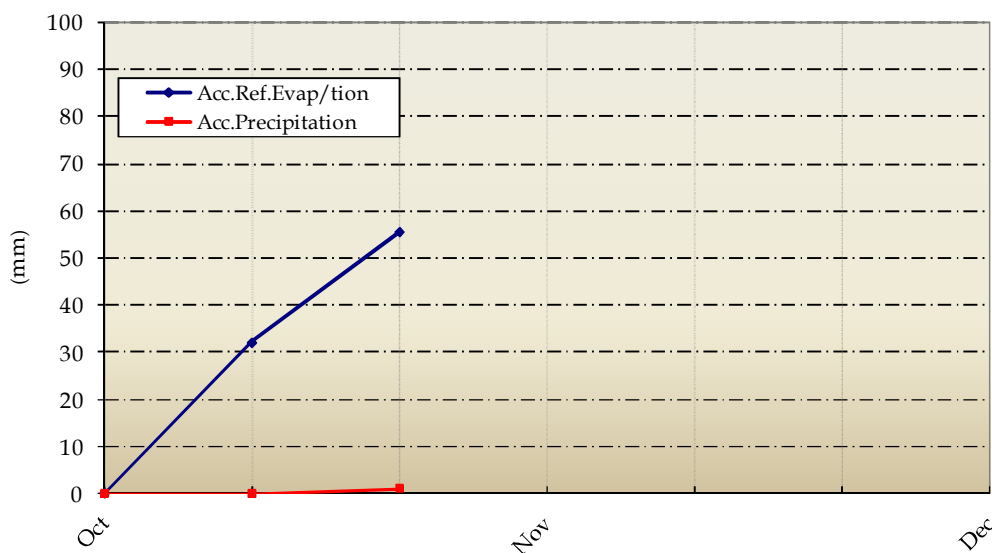


Tympaki

| 2nd 10-day period (11-20/10/2009) | | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | Mean Value or Sum | Previous Year Value | Past Years Mean Value |
|--------------------------------------|--------|------|------|------|------|------|------|------|------|------|------|----------------------|------------------------|--------------------------|
| Temperature | Max | 26.6 | 24.8 | 26.4 | 24.0 | 27.4 | 29.8 | 23.8 | 26.8 | 25.2 | 24.2 | 25.9 | - | 25.4 |
| | Min | 15.4 | 14.0 | 16.6 | 19.0 | 14.6 | 18.0 | 19.0 | 16.0 | 17.0 | 14.6 | 16.4 | - | 15.2 |
| Relative Humidity | Max | 93 | 98 | 99 | 84 | 98 | 99 | 100 | 93 | 93 | 96 | 95 | - | - |
| | Min | 51 | 62 | 56 | 39 | 53 | 42 | 55 | 43 | 54 | 54 | 51 | - | - |
| Soil Temperature at 10 cm | 06 UTC | 22.8 | 22.4 | 23.4 | 23.4 | 22.0 | 22.6 | 22.8 | 21.0 | 22.0 | 21.0 | 22.3 | - | 21.8 |
| | 12 UTC | 27.8 | 27.6 | 28.6 | 27.6 | 26.0 | - | 23.8 | 25.6 | 27.0 | 26.2 | 26.7 | - | 25.4 |
| Sunshine Duration | | 9.5 | 8.3 | 4.9 | 8.2 | 3.9 | 3.2 | 0.0 | 6.4 | 8.2 | 6.6 | 5.9 | - | 7.7 |
| Precipitation | | | | | | 0.4 | 0.5 | 0.1 | | | | 1.0 | - | 5.8 |
| Evaporation | | 4.7 | 5.3 | 6.3 | 7.1 | 4.2 | 4.5 | 3.3 | 4.3 | 5.8 | 6.1 | 51.6 | - | 54.1 |
| Growing Degrees | 5 | 16.0 | 14.4 | 16.5 | 16.5 | 16.0 | 18.9 | 16.4 | 16.4 | 16.1 | 14.4 | 161.6 | - | 152.5 |
| | 10 | 11.0 | 9.4 | 11.5 | 11.5 | 11.0 | 13.9 | 11.4 | 11.4 | 11.1 | 9.4 | 111.6 | - | 102.5 |

| 2nd 10-day period (11-20/10/2009) | | Previous Year Value | Past Years Mean Value |
|--|-------|------------------------|--------------------------|
| Reference Evapotranspiration | 23.5 | - | 29.5 |
| Precipitation - Reference Evapotranspiration | -22.5 | - | -23.7 |
| Number of Rainy Days | 3.0 | - | 1.2 |
| Number of Dry Days | 19.0 | - | - |

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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HELLENIC NATIONAL METEOROLOGICAL SERVICE

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The present bulletin was designed and implemented under the support of Water Resources Management Division of Agriculture University of Athens (Professor A. Liakatas)