



AGROMETEOROLOGICAL BULLETIN

September 2013
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



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

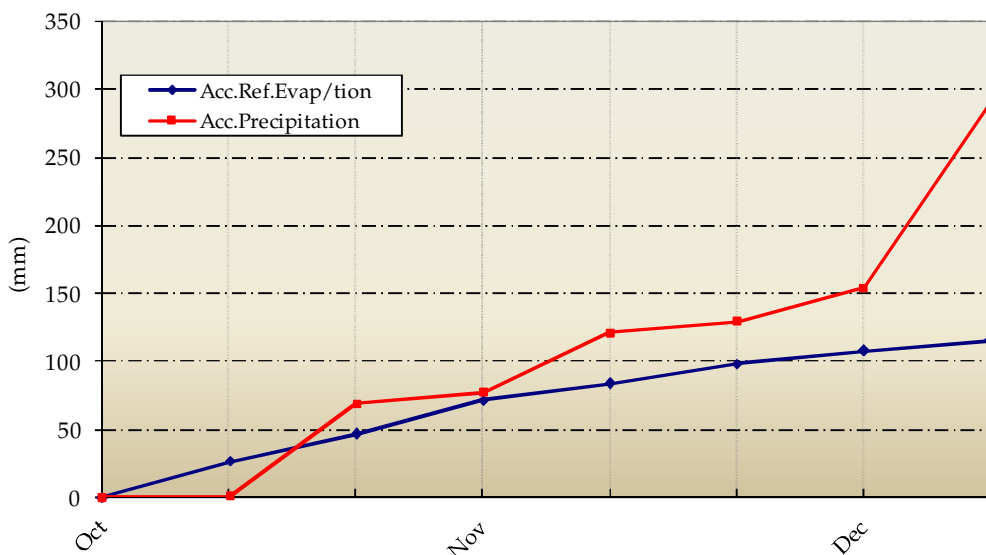
Agrinio

| 2nd 10-day period (11-20/09/2013) | | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | Mean Value or Sum | Previous Year Value | Past Years Mean Value |
|--------------------------------------|--------|------|------|------|----|------|------|------|------|------|------|----------------------|------------------------|--------------------------|
| Temperature | Max | 33.0 | 34.0 | 34.0 | - | - | 32.0 | 25.6 | 26.0 | 30.0 | 31.0 | 30.7 | 28.2 | 30.1 |
| | Min | 16.4 | 16.8 | 18.0 | - | - | 18.0 | 18.0 | 16.8 | 16.0 | 17.0 | 17.1 | 16.5 | 14.7 |
| Relative Humidity | Max | 86 | 86 | 82 | - | 88 | 90 | 88 | 84 | 83 | 84 | 86 | 86 | - |
| | Min | 32 | 35 | 36 | - | 36 | 56 | 62 | 40 | 40 | 44 | 42 | 49 | - |
| Soil Temperature at 10 cm | 06 UTC | 29.0 | 29.0 | 29.0 | - | - | 26.0 | 24.0 | 24.0 | 24.0 | 24.0 | 26.1 | 24.4 | 22.0 |
| | 12 UTC | 37.0 | 36.0 | 33.0 | - | - | 28.0 | 26.0 | 26.0 | 26.0 | 27.0 | 29.9 | 27.0 | 27.0 |
| Sunshine Duration | | 10.9 | 9.8 | - | - | 12.8 | 1.5 | 8.5 | 11.1 | 9.5 | - | 9.2 | 7.6 | 8.7 |
| Precipitation | | | | | | | | | | | | | 74.5 | 12.0 |
| Evaporation | | 8.2 | 5.8 | - | - | 6.8 | 0.0 | 3.2 | 8.2 | 7.6 | - | - | 50.4 | 53.3 |
| Growing Degrees | 5 | 19.7 | 20.4 | 21.0 | - | - | 20.0 | 16.8 | 16.4 | 18.0 | 19.0 | - | 173.6 | 174.1 |
| | 10 | 14.7 | 15.4 | 16.0 | - | - | 15.0 | 11.8 | 11.4 | 13.0 | 14.0 | - | 123.6 | 124.1 |

| 2nd 10-day period (11-20/09/2013) | | Previous Year Value | Past Years Mean Value |
|--|-------|------------------------|--------------------------|
| Reference Evapotranspiration | 37.8 | 34.0 | 35.5 |
| Precipitation - Reference Evapotranspiration | -37.8 | 40.5 | -23.5 |
| Number of Rainy Days | 0.0 | 3.0 | 1.7 |
| Number of Dry Days | 61.0 | 42.0 | - |

Diagram of Accumulated Precipitation and Accumulated Reference Evapotranspiration

This station is not fully operated

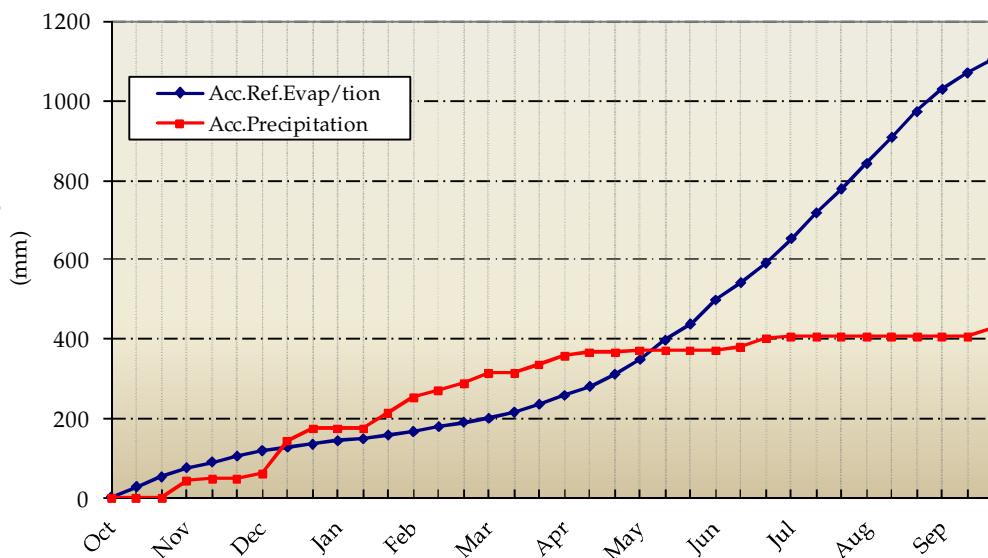


Alexandroupoli

| 2nd 10-day period (11-20/09/2013) | | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | Mean Value or Sum | Previous Year Value | Past Years Mean Value |
|--------------------------------------|--------|------|------|------|------|------|------|------|------|------|------|----------------------|------------------------|--------------------------|
| Temperature | Max | 29.6 | 29.2 | 28.4 | 26.2 | 26.6 | 24.4 | 24.8 | 26.0 | 26.4 | 23.8 | 26.5 | 27.8 | 26.5 |
| | Min | 16.6 | 16.2 | 15.0 | 13.6 | 13.8 | 14.8 | 14.2 | 18.0 | 13.4 | 18.0 | 15.4 | 17.6 | 13.8 |
| Relative Humidity | Max | 85 | 82 | 91 | 95 | 91 | 90 | 89 | 94 | 88 | 88 | 89 | 85 | - |
| | Min | 30 | 40 | 57 | 42 | 38 | 53 | 52 | 52 | 25 | 30 | 42 | 46 | - |
| Soil Temperature at 10 cm | 06 UTC | 25.2 | 25.6 | 26.6 | 24.8 | 22.6 | 23.0 | 21.8 | 22.2 | 20.6 | 21.8 | 23.4 | 24.5 | 19.9 |
| | 12 UTC | 28.8 | 29.0 | 29.6 | 27.4 | 26.8 | 27.2 | 25.4 | 25.6 | 25.8 | 24.0 | 27.0 | 26.8 | 23.7 |
| Sunshine Duration | | 9.8 | 11.2 | 12.2 | 10.7 | 11.1 | 4.5 | 10.2 | 10.2 | 11.3 | 5.0 | 9.6 | 8.2 | 8.5 |
| Precipitation | | | | | 2.2 | | | 3.3 | 15.6 | | | 21.1 | 12.4 | 5.2 |
| Evaporation | | 5.5 | 5.1 | 4.3 | 6.1 | 3.8 | 3.5 | 3.7 | 7.0 | 4.7 | 6.3 | 50.0 | 64.9 | 66.6 |
| Growing Degrees | 5 | 18.1 | 17.7 | 16.7 | 14.9 | 15.2 | 14.6 | 14.5 | 17.0 | 14.9 | 15.9 | 159.5 | 176.8 | 151.3 |
| | 10 | 13.1 | 12.7 | 11.7 | 9.9 | 10.2 | 9.6 | 9.5 | 12.0 | 9.9 | 10.9 | 109.5 | 126.8 | 101.3 |

| 2nd 10-day period (11-20/09/2013) | | Previous Year Value | Past Years Mean Value |
|--|-------|------------------------|--------------------------|
| Reference Evapotranspiration | 34.8 | 36.0 | 37.1 |
| Precipitation - Reference Evapotranspiration | -13.7 | -23.6 | -31.9 |
| Number of Rainy Days | 3.0 | 2.0 | 0.9 |
| Number of Dry Days | 74.0 | 18.0 | - |

Diagram of Accumulated Precipitation and Accumulated Reference Evapotranspiration

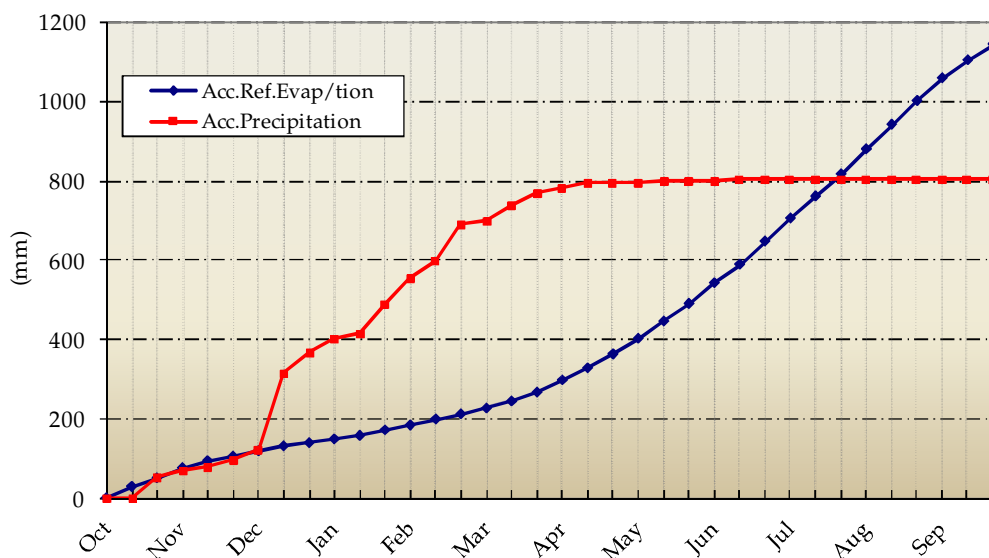


Andravida

| 2nd 10-day period (11-20/09/2013) | | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | Mean Value or Sum | Previous Year Value | Past Years Mean Value |
|--------------------------------------|--------|------|------|------|------|------|------|------|------|------|------|----------------------|------------------------|--------------------------|
| Temperature | Max | 32.0 | 30.3 | 30.1 | 27.7 | 27.6 | 27.6 | 28.3 | 27.9 | 27.8 | 28.4 | 28.8 | 27.3 | 28.2 |
| | Min | 20.2 | 20.3 | 22.3 | 20.7 | 17.4 | 18.7 | 18.0 | 20.1 | 16.7 | 18.4 | 19.3 | 17.6 | 16.5 |
| Relative Humidity | Max | 89 | 85 | 86 | 65 | 78 | 88 | 88 | 79 | 82 | 86 | 83 | 88 | - |
| | Min | 40 | 48 | 41 | 30 | 32 | 52 | 37 | 41 | 39 | 46 | 41 | 50 | - |
| Soil Temperature at 10 cm | 06 UTC | 27.4 | 27.4 | 28.0 | 26.4 | 25.0 | 25.8 | 22.4 | 24.8 | 23.4 | 24.2 | 25.5 | 23.4 | 23.4 |
| | 12 UTC | 33.4 | 33.4 | 32.2 | 30.8 | 31.2 | 27.8 | 28.0 | 29.6 | 30.6 | 29.0 | 30.6 | 27.9 | 26.9 |
| Sunshine Duration | | 9.8 | 10.2 | 6.1 | 11.2 | 11.3 | 1.0 | 9.6 | 9.5 | 10.0 | 5.1 | 8.4 | 7.6 | 9.1 |
| Precipitation | | | | | | | 1.7 | | | | | 1.7 | 116.9 | 7.0 |
| Evaporation | | 7.2 | 4.4 | 9.0 | 9.3 | 7.1 | 0.7 | 6.0 | 7.0 | 4.5 | 2.5 | 57.7 | - | 56.3 |
| Growing Degrees | 5 | 21.1 | 20.3 | 21.2 | 19.2 | 17.5 | 18.2 | 18.2 | 19.0 | 17.3 | 18.4 | 190.3 | 174.7 | 173.6 |
| | 10 | 16.1 | 15.3 | 16.2 | 14.2 | 12.5 | 13.2 | 13.2 | 14.0 | 12.3 | 13.4 | 140.3 | 124.7 | 123.6 |

| 2nd 10-day period (11-20/09/2013) | | Previous Year Value | Past Years Mean Value |
|--|-------|------------------------|--------------------------|
| Reference Evapotranspiration | 39.2 | 36.3 | 36.2 |
| Precipitation - Reference Evapotranspiration | -37.5 | 80.6 | -29.2 |
| Number of Rainy Days | 1.0 | 2.0 | 1.1 |
| Number of Dry Days | 97.0 | 107.0 | - |

Diagram of Accumulated Precipitation and Accumulated Reference Evapotranspiration

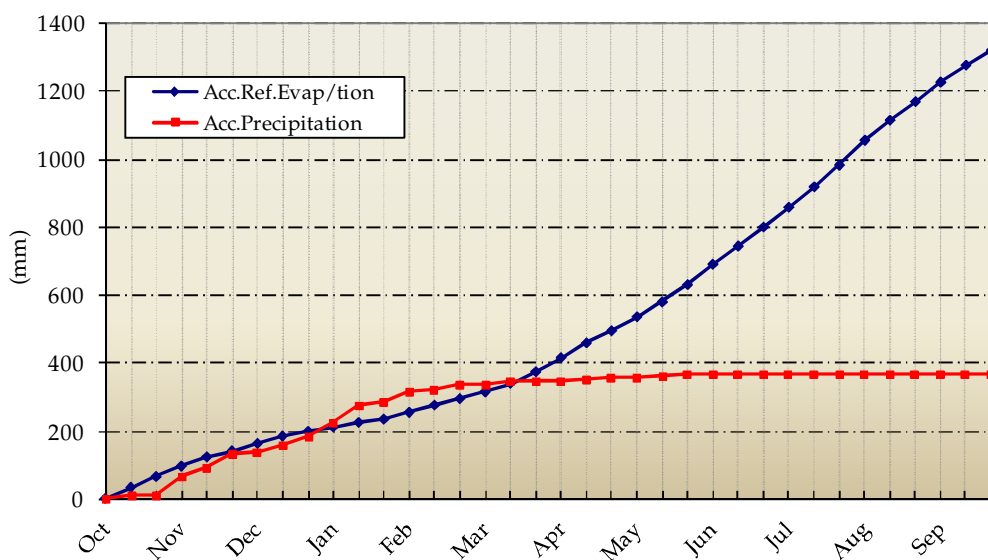


Iraklio

| 2nd 10-day period (11-20/09/2013) | | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | Mean Value or Sum | Previous Year Value | Past Years Mean Value |
|--------------------------------------|--------|------|------|------|------|------|------|------|------|------|------|----------------------|------------------------|--------------------------|
| Temperature | Max | 30.0 | 31.4 | 30.2 | 28.0 | 27.2 | 31.4 | 27.8 | 29.4 | 27.2 | 28.0 | 29.1 | - | 26.4 |
| | Min | 20.0 | 23.0 | 22.2 | 22.8 | 19.2 | 18.0 | 21.0 | 21.0 | 20.8 | 21.0 | 20.9 | - | 19.5 |
| Relative Humidity | Max | 84 | 84 | 70 | 82 | 85 | 77 | 77 | 82 | 86 | 79 | 81 | - | - |
| | Min | 29 | 42 | 42 | 60 | 57 | 43 | 59 | 53 | 55 | 56 | 50 | - | - |
| Soil Temperature at 10 cm | 06 UTC | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | 12 UTC | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Sunshine Duration | | 10.2 | 10.0 | 9.9 | 9.2 | 10.5 | 9.8 | 10.2 | 8.5 | 7.0 | 8.9 | 9.4 | - | 9.4 |
| Precipitation | | | | | | | | | | | | | - | 6.0 |
| Evaporation | | 4.0 | 6.0 | 4.2 | 3.3 | 6.3 | 6.6 | 3.0 | 6.4 | 3.8 | 5.4 | 49.0 | - | 64.4 |
| Growing Degrees | 5 | 20.0 | 22.2 | 21.2 | 20.4 | 18.2 | 19.7 | 19.4 | 20.2 | 19.0 | 19.5 | 199.8 | - | 179.8 |
| | 10 | 15.0 | 17.2 | 16.2 | 15.4 | 13.2 | 14.7 | 14.4 | 15.2 | 14.0 | 14.5 | 149.8 | - | 129.8 |

| 2nd 10-day period (11-20/09/2013) | | Previous Year Value | Past Years Mean Value |
|--|-------|------------------------|--------------------------|
| Reference Evapotranspiration | 43.9 | - | - |
| Precipitation - Reference Evapotranspiration | -43.9 | - | 6.0 |
| Number of Rainy Days | 0.0 | - | 0.5 |
| Number of Dry Days | 125.0 | - | - |

Diagram of Accumulated Precipitation and Accumulated Reference Evapotranspiration

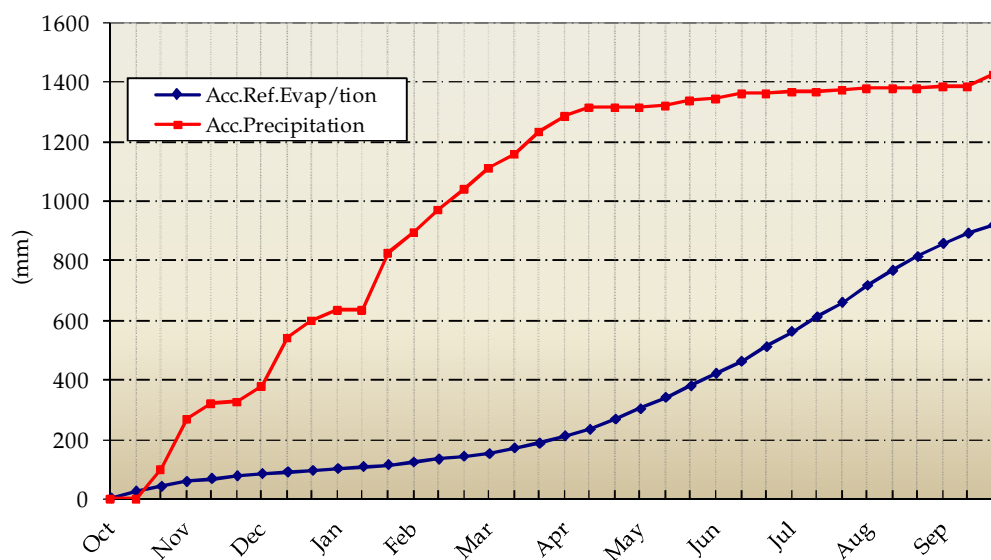


Ioannina

| 2nd 10-day period (11-20/09/2013) | | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | Mean Value or Sum | Previous Year Value | Past Years Mean Value |
|--------------------------------------|--------|------|------|------|------|------|------|------|------|------|------|----------------------|------------------------|--------------------------|
| Temperature | Max | 30.6 | 28.8 | 25.8 | 25.2 | 26.5 | 19.6 | 23.7 | 23.2 | 24.2 | 26.5 | 25.4 | 24.8 | 26.5 |
| | Min | 14.6 | 18.0 | 15.7 | 8.2 | 6.2 | 13.1 | 10.4 | 15.5 | 7.2 | 12.2 | 12.1 | 14.0 | 12.2 |
| Relative Humidity | Max | 82 | 96 | 97 | 96 | 74 | 96 | 97 | 96 | 93 | 96 | 92 | 93 | - |
| | Min | 31 | 37 | 51 | 34 | 27 | 73 | 39 | 44 | 33 | 30 | 40 | 50 | - |
| Soil Temperature at 10 cm | 06 UTC | - | - | - | - | - | - | - | - | - | - | - | - | 18.0 |
| | 12 UTC | - | - | - | - | - | - | - | - | - | - | - | - | 21.1 |
| Sunshine Duration | | 9.2 | 7.0 | 4.4 | 9.5 | 8.6 | 1.0 | 2.1 | 6.0 | 8.6 | 6.1 | 6.2 | 4.1 | 6.9 |
| Precipitation | | | 0.2 | 4.1 | | | 29.1 | | 5.5 | | 0.0 | 38.9 | 26.4 | 16.4 |
| Evaporation | | - | - | - | - | - | - | - | - | - | - | - | - | 43.6 |
| Growing Degrees | 5 | 17.6 | 18.4 | 15.8 | 11.7 | 11.4 | 11.4 | 12.1 | 14.4 | 10.7 | 14.4 | 137.6 | 143.9 | 143.6 |
| | 10 | 12.6 | 13.4 | 10.8 | 6.7 | 6.4 | 6.4 | 7.1 | 9.4 | 5.7 | 9.4 | 87.6 | 93.9 | 93.6 |

| 2nd 10-day period (11-20/09/2013) | | Previous Year Value | Past Years Mean Value |
|--|------|------------------------|--------------------------|
| Reference Evapotranspiration | 28.0 | 24.6 | 28.7 |
| Precipitation - Reference Evapotranspiration | 10.9 | 1.8 | -12.3 |
| Number of Rainy Days | 4.0 | 6.0 | 2.1 |
| Number of Dry Days | 4.0 | 27.0 | - |

Diagram of Accumulated Precipitation and Accumulated Reference Evapotranspiration

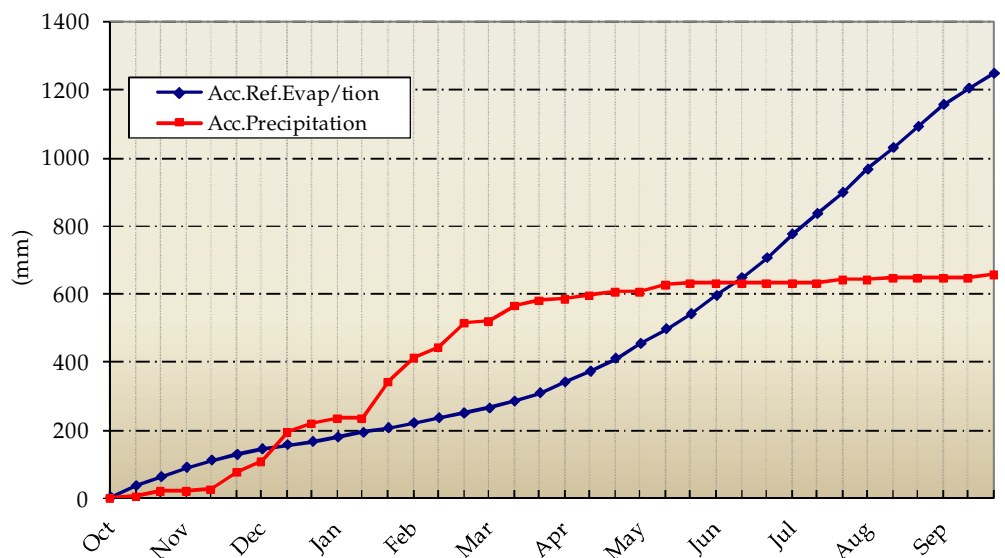


Kalamata

| 2nd 10-day period (11-20/09/2013) | | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | Mean Value or Sum | Previous Year Value | Past Years Mean Value |
|--------------------------------------|--------|------|------|------|------|------|------|------|------|------|------|----------------------|------------------------|--------------------------|
| Temperature | Max | 32.0 | 35.9 | 31.2 | 31.0 | 30.4 | 28.6 | 28.6 | 29.8 | 29.4 | 29.4 | 30.6 | 28.4 | 28.6 |
| | Min | 18.6 | 18.4 | 20.2 | 19.3 | 17.0 | 16.9 | 15.3 | 16.4 | 15.3 | 17.0 | 17.4 | 17.5 | 15.9 |
| Relative Humidity | Max | 85 | 86 | 83 | 82 | 63 | 92 | 94 | 92 | 88 | 89 | 85 | 90 | - |
| | Min | 33 | 15 | 45 | 21 | 21 | 42 | 36 | 37 | 34 | 39 | 32 | 48 | - |
| Soil Temperature at 10 cm | 06 UTC | 25.6 | 25.4 | 25.6 | 25.6 | 24.4 | 24.6 | 22.6 | 22.6 | 22.4 | - | 24.3 | 23.3 | 22.6 |
| | 12 UTC | 28.4 | 28.2 | 28.4 | 27.6 | 27.0 | 26.0 | 25.0 | 24.8 | - | - | 26.9 | 24.9 | 25.8 |
| Sunshine Duration | | 10.5 | 10.4 | 8.3 | 11.0 | 11.2 | 3.9 | 11.2 | 7.3 | 11.1 | 8.1 | 9.3 | 8.8 | 8.7 |
| Precipitation | | | | | | | 5.5 | 5.0 | | | | 10.5 | 50.6 | 6.3 |
| Evaporation | | 6.4 | 6.3 | 3.6 | 7.4 | 7.2 | 1.8 | 1.8 | 4.9 | 2.7 | 9.6 | 51.7 | 68.1 | 60.4 |
| Growing Degrees | 5 | 20.3 | 22.2 | 20.7 | 20.2 | 18.7 | 17.8 | 17.0 | 18.1 | 17.4 | 18.2 | 190.4 | 179.6 | 172.4 |
| | 10 | 15.3 | 17.2 | 15.7 | 15.2 | 13.7 | 12.8 | 12.0 | 13.1 | 12.4 | 13.2 | 140.4 | 129.6 | 122.4 |

| 2nd 10-day period (11-20/09/2013) | | Previous Year Value | Past Years Mean Value |
|--|-------|------------------------|--------------------------|
| Reference Evapotranspiration | 43.9 | 40.4 | 38.1 |
| Precipitation - Reference Evapotranspiration | -33.4 | 10.2 | -31.8 |
| Number of Rainy Days | 2.0 | 2.0 | 1.0 |
| Number of Dry Days | 7.0 | 6.0 | - |

Diagram of Accumulated Precipitation and Accumulated Reference Evapotranspiration

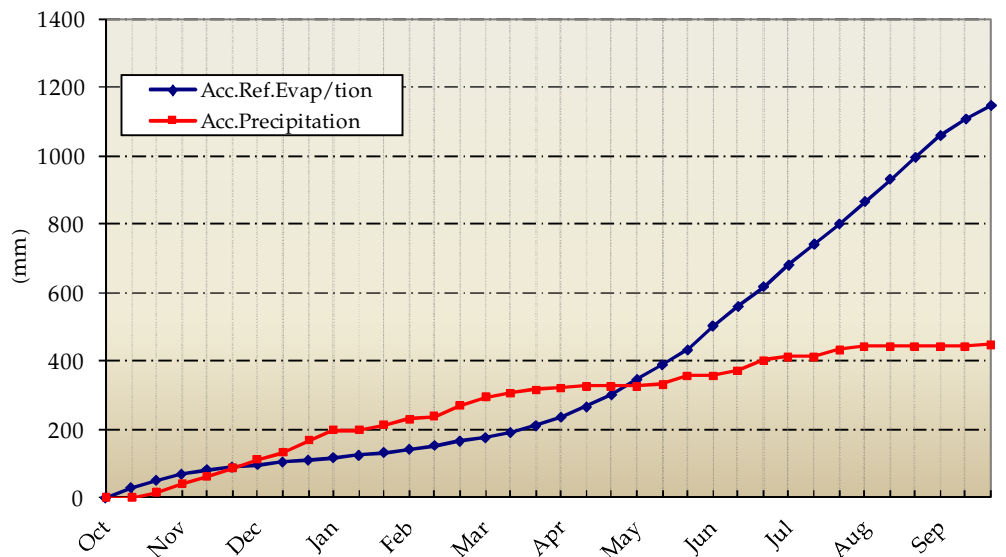


Larisa

| 2nd 10-day period (11-20/09/2013) | | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | Mean Value or Sum | Previous Year Value | Past Years Mean Value |
|-----------------------------------|--------|------|------|------|------|------|------|------|------|------|------|-------------------|---------------------|-----------------------|
| Temperature | Max | 37.3 | 35.0 | 31.0 | 30.0 | 30.6 | 23.2 | 29.6 | 30.8 | 31.8 | 28.0 | 30.7 | 27.3 | 29.0 |
| | Min | 16.6 | 16.8 | 17.4 | 16.6 | 10.3 | 13.2 | 12.4 | 16.4 | 11.5 | 17.8 | 14.9 | 16.7 | 14.0 |
| Relative Humidity | Max | 81 | 94 | 96 | 70 | 72 | 97 | 100 | 77 | 83 | 76 | 85 | 91 | - |
| | Min | 16 | 21 | 26 | 13 | 13 | 61 | 26 | 21 | 16 | 25 | 24 | 45 | - |
| Soil Temperature at 10 cm | 06 UTC | - | - | - | - | - | - | - | - | - | - | - | 24.6 | 22.0 |
| | 12 UTC | - | - | - | - | - | - | - | - | - | - | - | 25.4 | 24.1 |
| Sunshine Duration | | 9.4 | 10.3 | 5.3 | 9.7 | 9.2 | 2.7 | 6.2 | 6.9 | 8.2 | 6.1 | 7.4 | 5.3 | 8.3 |
| Precipitation | | | | 1.9 | | | 3.7 | | | | | 5.6 | 42.3 | 12.0 |
| Evaporation | | 11.8 | 6.6 | 7.0 | 5.8 | 15.8 | 3.9 | 0.6 | 5.4 | 6.0 | 2.5 | 65.4 | 47.2 | 61.4 |
| Growing Degrees | 5 | 22.0 | 20.9 | 19.2 | 18.3 | 15.5 | 13.2 | 16.0 | 18.6 | 16.7 | 17.9 | 178.2 | 169.7 | 165.0 |
| | 10 | 17.0 | 15.9 | 14.2 | 13.3 | 10.5 | 8.2 | 11.0 | 13.6 | 11.7 | 12.9 | 128.2 | 119.7 | 115.0 |

| 2nd 10-day period (11-20/09/2013) | | Previous Year Value | Past Years Mean Value |
|--|-------|---------------------|-----------------------|
| Reference Evapotranspiration | 40.1 | 30.9 | 38.0 |
| Precipitation - Reference Evapotranspiration | -34.5 | 11.4 | -26.0 |
| Number of Rainy Days | 2.0 | 4.0 | 1.2 |
| Number of Dry Days | 52.0 | 33.0 | - |

Diagram of Accumulated Precipitation and Accumulated Reference Evapotranspiration

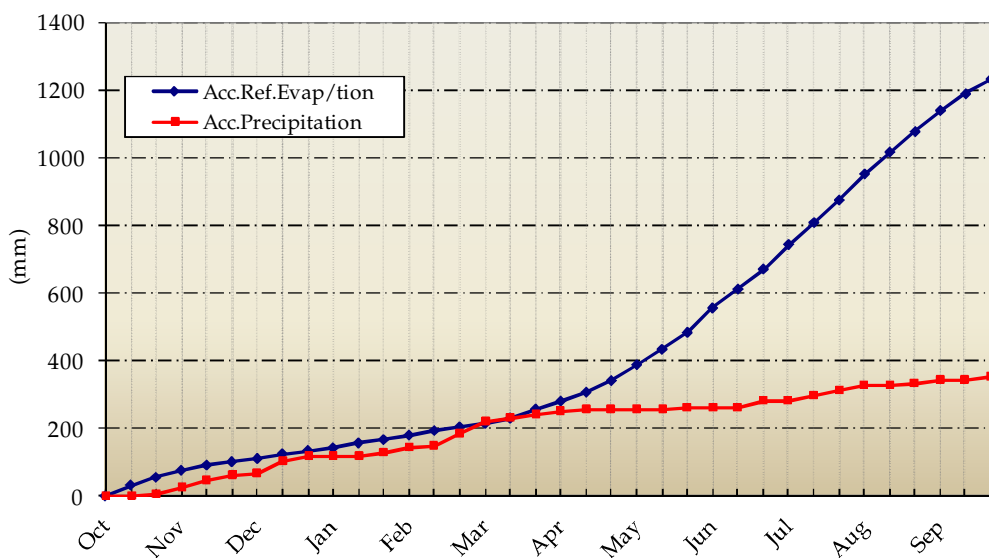


Mikra

| 2nd 10-day period (11-20/09/2013) | | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | Mean Value or Sum | Previous Year Value | Past Years Mean Value |
|--------------------------------------|--------|------|------|------|------|------|------|------|------|------|------|----------------------|------------------------|--------------------------|
| Temperature | Max | 32.0 | 30.0 | 29.0 | 26.6 | 28.6 | 24.6 | 26.8 | 27.6 | 28.0 | 26.1 | 27.9 | 26.0 | 27.5 |
| | Min | 18.3 | 18.7 | 17.8 | 18.0 | 12.4 | 15.6 | 13.4 | 17.8 | 13.3 | 18.1 | 16.3 | 18.2 | 15.2 |
| Relative Humidity | Max | 75 | 88 | 91 | 67 | 72 | 88 | 90 | 88 | 76 | 68 | 80 | 85 | - |
| | Min | 33 | 42 | 35 | 26 | 19 | 35 | 33 | 32 | 30 | 26 | 31 | 49 | - |
| Soil Temperature at 10 cm | 06 UTC | 26.0 | 26.2 | 24.2 | 22.4 | 21.6 | 22.8 | 19.8 | 22.4 | 21.4 | 22.4 | 22.9 | 24.2 | 21.4 |
| | 12 UTC | 31.0 | 30.8 | 29.4 | 26.0 | 27.8 | 25.0 | 25.8 | 26.4 | 26.6 | 25.4 | 27.4 | 27.0 | 25.2 |
| Sunshine Duration | | 9.7 | 6.8 | 9.5 | 10.9 | 10.7 | 2.0 | 7.9 | 10.2 | 10.5 | 7.4 | 8.6 | 5.5 | 8.1 |
| Precipitation | | 0.0 | 2.5 | 4.5 | | | 3.5 | | | | | 10.5 | 46.2 | 7.6 |
| Evaporation | | 10.4 | 2.5 | 8.1 | 7.2 | 7.8 | 0.9 | 6.8 | 6.4 | 7.8 | 8.0 | 65.9 | - | 62.1 |
| Growing Degrees | 5 | 20.2 | 19.4 | 18.4 | 17.3 | 15.5 | 15.1 | 15.1 | 17.7 | 15.7 | 17.1 | 171.4 | 171.3 | 163.4 |
| | 10 | 15.2 | 14.4 | 13.4 | 12.3 | 10.5 | 10.1 | 10.1 | 12.7 | 10.7 | 12.1 | 121.4 | 121.3 | 113.4 |

| 2nd 10-day period (11-20/09/2013) | | Previous Year Value | Past Years Mean Value |
|--|-------|------------------------|--------------------------|
| Reference Evapotranspiration | 42.6 | 34.4 | 37.4 |
| Precipitation - Reference Evapotranspiration | -32.1 | 11.8 | -29.8 |
| Number of Rainy Days | 3.0 | 6.0 | 1.4 |
| Number of Dry Days | 9.0 | 33.0 | - |

Diagram of Accumulated Precipitation and Accumulated Reference Evapotranspiration

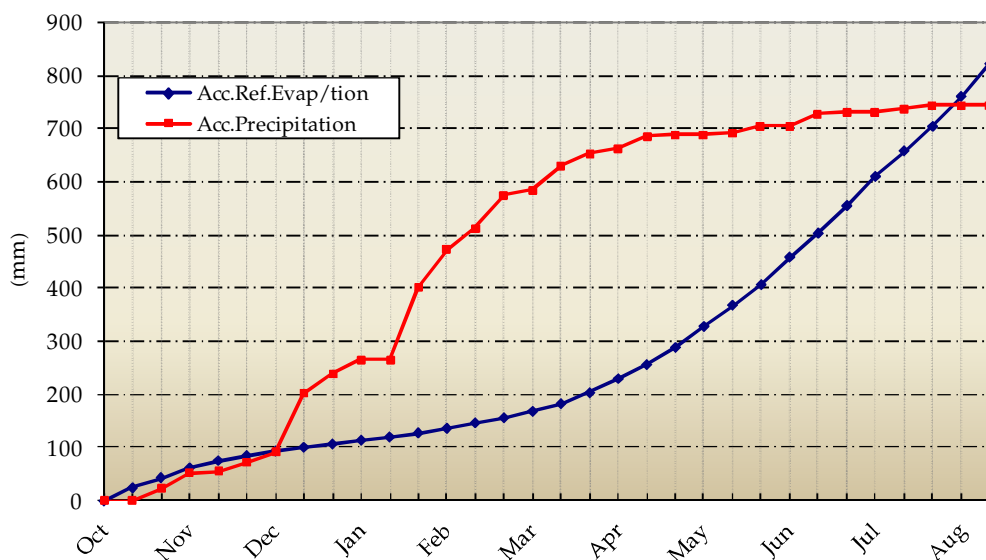


Tripoli

| 2nd 10-day period (11-20/09/2013) | | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | Mean Value or Sum | Previous Year Value | Past Years Mean Value |
|--------------------------------------|--------|------|------|------|------|------|------|------|------|------|------|----------------------|------------------------|--------------------------|
| Temperature | Max | 33.1 | 32.9 | 28.7 | 27.7 | 28.4 | 24.0 | 25.1 | 25.6 | 28.2 | 25.6 | 27.9 | 24.8 | 26.9 |
| | Min | 13.8 | 13.4 | 14.0 | 13.4 | 8.4 | 11.8 | 12.5 | 16.3 | 9.1 | 12.3 | 12.5 | 12.7 | 11.2 |
| Relative Humidity | Max | 82 | 75 | 72 | 61 | 58 | 79 | 85 | 70 | 91 | 85 | 76 | 91 | - |
| | Min | 19 | 13 | 34 | 38 | 40 | 50 | 38 | 38 | 19 | 29 | 32 | 41 | - |
| Soil Temperature at 10 cm | 06 UTC | 22.0 | 22.2 | 22.2 | 22.4 | 20.8 | 21.2 | 18.2 | 20.2 | 18.6 | 19.4 | 20.7 | - | 20.2 |
| | 12 UTC | 28.4 | 28.2 | 28.2 | - | - | 24.0 | 23.4 | 23.8 | 25.2 | 24.2 | 25.7 | - | 22.5 |
| Sunshine Duration | | 10.6 | 10.7 | 9.7 | 11.0 | 10.9 | 5.0 | 10.3 | 8.8 | 10.2 | 5.2 | 9.2 | - | 8.5 |
| Precipitation | | | | | | | 1.6 | | | | | 1.6 | 65.2 | 5.9 |
| Evaporation | | 8.7 | 5.4 | 5.3 | 6.0 | 6.2 | 0.4 | 3.1 | 5.5 | 4.3 | 1.5 | 46.4 | - | 40.3 |
| Growing Degrees | 5 | 18.5 | 18.2 | 16.4 | 15.6 | 13.4 | 12.9 | 13.8 | 16.0 | 13.7 | 14.0 | 152.2 | 137.6 | 140.2 |
| | 10 | 13.5 | 13.2 | 11.4 | 10.6 | 8.4 | 7.9 | 8.8 | 11.0 | 8.7 | 9.0 | 102.2 | 87.6 | 90.2 |

| 2nd 10-day period (11-20/09/2013) | | Previous Year Value | Past Years Mean Value |
|--|-------|------------------------|--------------------------|
| Reference Evapotranspiration | 35.6 | 30.3 | 34.4 |
| Precipitation - Reference Evapotranspiration | -34.0 | 34.9 | -28.5 |
| Number of Rainy Days | 1.0 | 4.0 | 1.0 |
| Number of Dry Days | 8.0 | 29.0 | - |

Diagram of Accumulated Precipitation and Accumulated Reference Evapotranspiration



This station is not fully operated



◆ **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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