



# AGROMETEOROLOGICAL BULLETIN

*February 2025*  
*1st 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

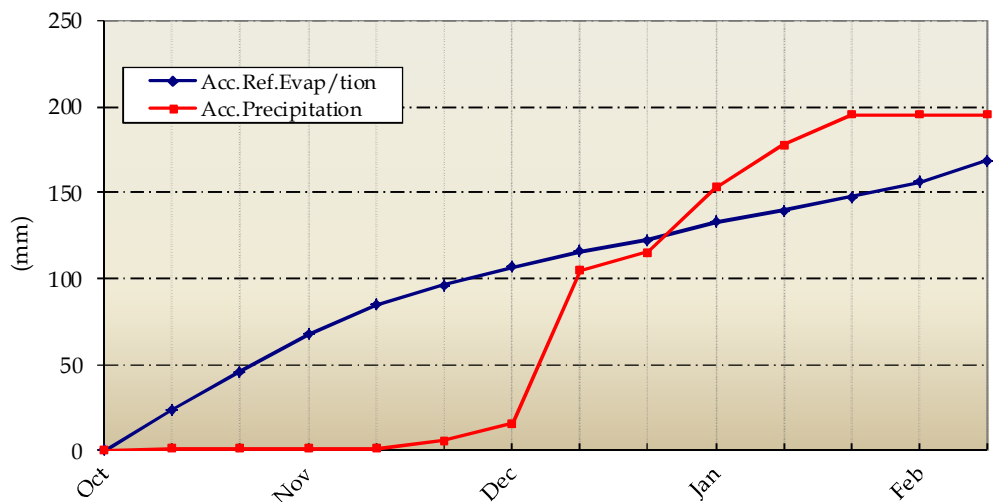
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[www.emy.gr](http://www.emy.gr)  
[www.hnms.gr](http://www.hnms.gr)  
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Alexandroupoli

1st 10-day period (1-10/02/2025)		1	2	3	4	5	6	7	8	9	10	Mean Value or Sum	Previous Year Value	Past Years Mean Value
Temperature	Max	13.2	12.8	12.6	9.8	8.0	7.6	6.8	6.0	4.0	8.0	8.9	14.6	9.8
	Min	3.8	6.8	0.8	4.0	-0.8	-1.0	0.0	0.0	1.0	-0.2	1.4	3.9	1.5
Relative Humidity	Max	100	97	96	85	74	78	62	67	72	74	80	93	89
	Min	82	66	74	42	42	42	35	44	51	42	52	64	60
Soil Temperature at 10 cm	06 UTC	9.6	10.2	8.2	8.4	6.0	5.4	4.8	4.4	4.6	4.7	6.6	7.1	5.6
	12 UTC	11.8	10.6	9.4	7.8	7.4	6.8	8.0	5.5	5.0	6.3	7.9	9.7	7.0
Sunshine Duration		8.2	2.1	1.8	8.1	6.1	8.5	9.0	5.6	0.0	8.2	5.8	5.2	4.2
Precipitation														16.4
Evaporation		1.3	0.6	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8	10.0	10.6
Growing Degrees	5	3.5	4.8	1.7	1.9	0.0	0.0	0.0	0.0	0.0	0.0	11.9	46.0	19.7
	10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.6	3.3

1st 10-day period (1-10/02/2025)		Previous Year Value	Past Years Mean Value
Reference Evapotranspiration	12.8	10.7	9.0
Precipitation - Reference Evapotranspiration	-12.8	-10.7	7.4
Number of Rainy Days	0.0	0.0	2.1
Number of Dry Days	16.0	14.0	-

Diagram of Accumulated Precipitation and Accumulated Reference Evapotranspiration



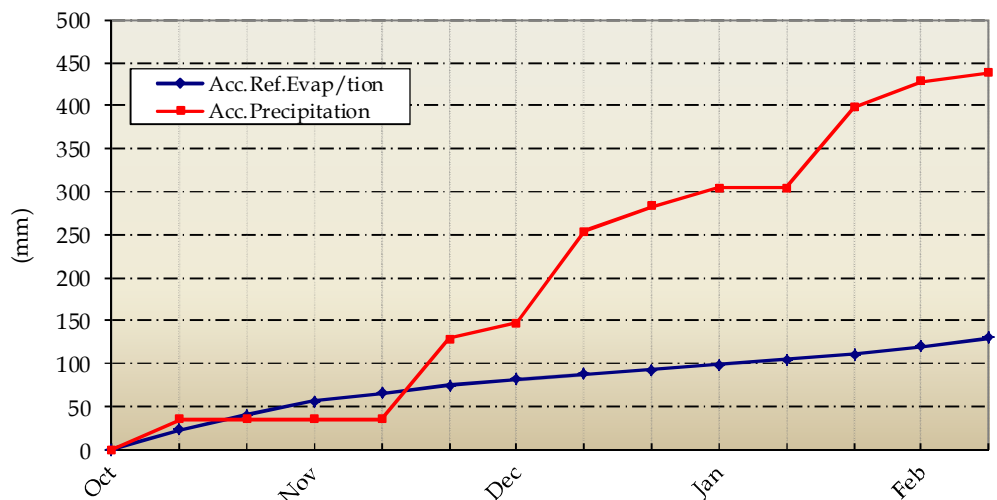
Andravida

1st 10-day period (1-10/02/2025)		1	2	3	4	5	6	7	8	9	10	Mean Value or Sum	Previous Year Value	Past Years Mean Value
Temperature	Max	18.5	18.2	17.1	17.0	13.6	14.8	14.3	12.6	13.5	13.4	15.3	16.9	14.4
	Min	4.6	7.2	10.2	5.8	4.8	0.9	-0.1	-1.8	-0.9	-1.0	3.0	4.8	5.5
Relative Humidity	Max	99	99	99	99	93	96	97	94	94	96	97	94	90
	Min	58	47	65	45	47	38	38	38	42	38	46	54	54
Soil Temperature at 10 cm	06 UTC	-	-	-	-	-	-	-	-	-	-	-	-	9.3
	12 UTC	-	-	-	-	-	-	-	-	-	-	-	-	11.2
Sunshine Duration		9.6	6.3	0.0	5.7	8.7	9.1	9.9	10.6	9.5	9.4	7.9	8.0	4.7
Precipitation				8.7	0.8							9.5		23.0
Evaporation		-	-	-	-	-	-	-	-	-	-	-	-	31.5
Growing Degrees	5	6.6	7.7	8.7	6.4	4.2	2.9	2.1	0.4	1.3	1.2	41.4	58.5	40.7
	10	1.6	2.7	3.7	1.4	0.0	0.0	0.0	0.0	0.0	0.0	9.3	16.6	9.0

1st 10-day period (1-10/02/2025)		Previous Year Value	Past Years Mean Value
Reference Evapotranspiration	9.4	10.3	7.7
Precipitation - Reference Evapotranspiration	0.1	-10.3	15.3
Number of Rainy Days	2.0	0.0	3.2
Number of Dry Days	2.0	20.0	-

The missing info in the tables are due to the absence of data.

Diagram of Accumulated Precipitation and Accumulated Reference Evapotranspiration



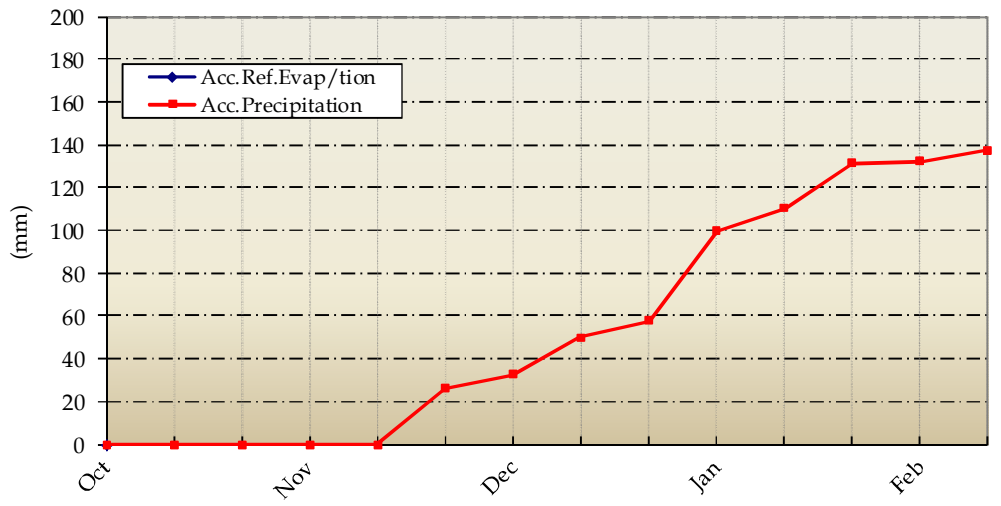
Iraklio

1st 10-day period (1-10/02/2025)		1	2	3	4	5	6	7	8	9	10	Mean Value or Sum	Previous Year Value	Past Years Mean Value
Temperature	Max	18.0	18.2	18.4	17.0	11.4	11.0	10.6	11.0	11.2	12.0	13.9	17.4	15.3
	Min	9.4	8.6	9.6	11.0	11.2	10.0	9.2	9.4	9.6	8.6	9.7	9.4	8.9
Relative Humidity	Max	95	92	92	88	76	68	82	84	82	83	84	85	85
	Min	70	61	65	70	54	50	48	60	60	54	59	52	56
Soil Temperature at 10 cm	06 UTC	-	-	-	-	-	-	-	-	-	-	-	-	-
	12 UTC	-	-	-	-	-	-	-	-	-	-	-	-	-
Sunshine Duration		8.4	8.1	8.6	4.1	2.0	2.5	3.9	0.0	0.3	2.5	4.0	7.8	4.7
Precipitation					2.4	0.1			0.6	1.7	0.5	5.3	7.3	20.4
Evaporation		1.9	1.3	2.4	3.8	4.1	4.8	3.3	2.3	0.8	1.9	26.6	-	24.4
Growing Degrees	5	8.7	8.4	9.0	9.0	6.3	5.5	4.9	5.2	5.4	5.3	67.7	83.8	62.9
	10	3.7	3.4	4.0	4.0	1.3	0.5	0.0	0.2	0.4	0.3	17.8	34.1	21.4

1st 10-day period (1-10/02/2025)		Previous Year Value	Past Years Mean Value
Reference Evapotranspiration	-	-	
Precipitation - Reference Evapotranspiration	-	-	
Number of Rainy Days	5.0	1.0	3.7
Number of Dry Days	4.0	0.0	-

The missing info in the tables and the graph are due to the absence of data.

Diagram of Accumulated Precipitation and Accumulated Reference Evapotranspiration

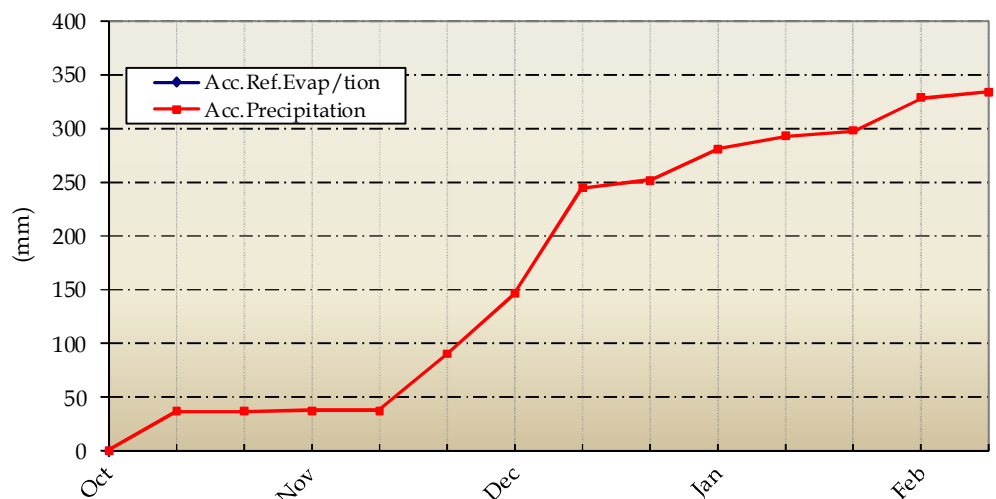


1st 10-day period (1-10/02/2025)		1	2	3	4	5	6	7	8	9	10	Mean Value or Sum	Previous Year Value	Past Years Mean Value
Temperature	Max	15.5	14.4	10.4	14.2	13.5	13.0	11.8	10.7	11.2	12.2	12.7	14.9	10.1
	Min	2.4	1.1	8.4	2.8	-1.2	-2.8	0.7	-4.5	-5.1	-5.9	-0.4	-2.4	0.4
Relative Humidity	Max	100	100	100	100	100	92	61	85	89	100	93	100	94
	Min	50	56	79	44	23	31	35	28	33	28	41	42	58
Soil Temperature at 10 cm	06 UTC	-	-	-	-	-	-	-	-	-	-	-	-	3.8
	12 UTC	-	-	-	-	-	-	-	-	-	-	-	-	4.1
Sunshine Duration		5.7	2.8	0.0	5.7	8.5	8.8	8.8	8.8	8.8	7.9	6.6	5.8	3.1
Precipitation				5.5								5.5		28.0
Evaporation		-	-	-	-	-	-	-	-	-	-	-	-	
Growing Degrees	5	4.0	2.8	4.4	3.5	1.2	0.1	1.3	0.0	0.0	0.0	17.1	18.9	10.8
	10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6

1st 10-day period (1-10/02/2025)		Previous Year Value	Past Years Mean Value
Reference Evapotranspiration	-	-	10.5
Precipitation - Reference Evapotranspiration	-	-	17.5
Number of Rainy Days	1.0	0.0	2.8
Number of Dry Days	2.0	20.0	-

The missing info in the tables and the graph are due to the absence of data.

Diagram of Accumulated Precipitation and Accumulated Reference Evapotranspiration



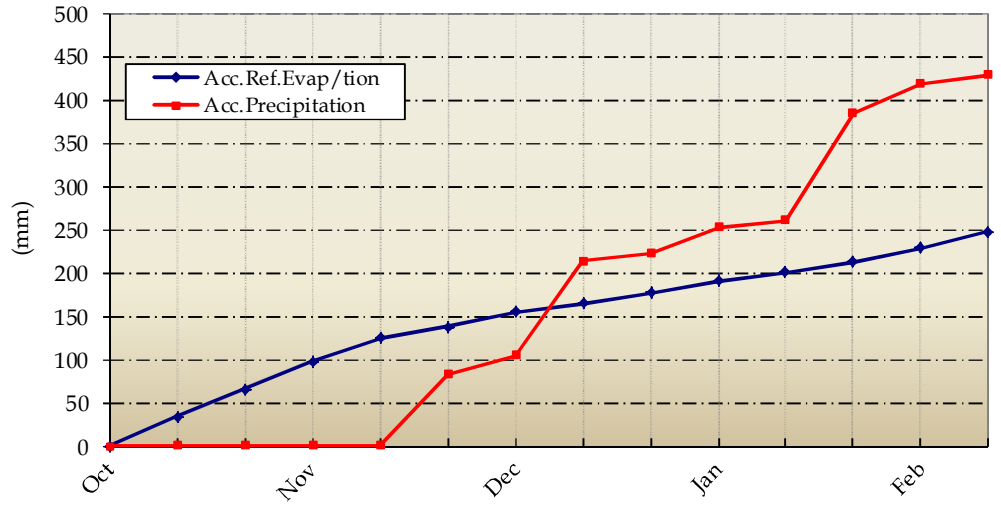
Kalamata

1st 10-day period (1-10/02/2025)		1	2	3	4	5	6	7	8	9	10	Mean Value or Sum	Previous Year Value	Past Years Mean Value
Temperature	Max	19.2	18.9	18.9	18.6	16.7	16.7	16.0	13.6	14.6	15.6	16.9	18.2	15.1
	Min	5.7	5.4	8.3	7.3	5.9	6.2	5.4	2.3	4.4	4.4	5.5	4.1	5.3
Relative Humidity	Max	95	95	98	98	84	64	73	73	68	83	83	94	90
	Min	44	51	72	45	42	36	34	34	38	40	44	45	52
Soil Temperature at 10 cm	06 UTC	-	-	-	-	-	-	-	-	-	-	-	-	9.8
	12 UTC	-	-	-	-	-	-	-	-	-	-	-	-	10.7
Sunshine Duration		8.2	7.2	6.6	3.8	7.9	7.2	9.0	8.5	8.8	7.4	7.5	7.7	4.6
Precipitation				1.9	8.0							9.9	0.0	30.4
Evaporation		-	-	-	-	-	-	-	-	-	-	-	-	26.1
Growing Degrees	5	7.5	7.2	8.6	8.0	6.3	6.5	5.7	3.0	4.5	5.0	62.1	61.2	46.4
	10	2.5	2.2	3.6	3.0	1.3	1.5	0.7	0.0	0.0	0.0	14.6	15.4	9.9

1st 10-day period (1-10/02/2025)		Previous Year Value	Past Years Mean Value
Reference Evapotranspiration	19.1	-	10.4
Precipitation - Reference Evapotranspiration	-9.2	-	20.0
Number of Rainy Days	2.0	0.0	4.1
Number of Dry Days	3.0	19.0	-

The missing info in the tables are due to the absence of data.

Diagram of Accumulated Precipitation and Accumulated Reference Evapotranspiration

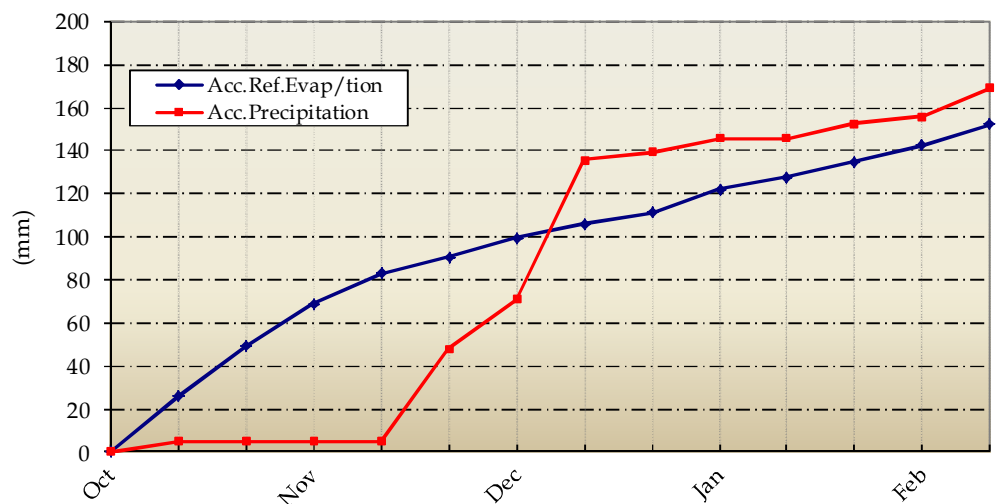


Larisa

1st 10-day period (1-10/02/2025)		1	2	3	4	5	6	7	8	9	10	Mean Value or Sum	Previous Year Value	Past Years Mean Value
Temperature	Max	17.0	14.4	13.6	10.0	10.6	12.4	7.5	7.8	8.0	8.6	11.0	16.7	11.5
	Min	1.8	2.8	7.4	6.4	2.8	-1.8	3.4	1.0	0.4	1.6	2.6	-1.6	0.7
Relative Humidity	Max	100	100	100	100	100	100	100	100	100	100	100	99	95
	Min	55	73	77	71	47	41	67	61	59	48	60	40	54
Soil Temperature at 10 cm	06 UTC	-	-	-	-	-	-	-	-	-	-	-	-	5.8
	12 UTC	-	-	-	-	-	-	-	-	-	-	-	-	6.4
Sunshine Duration		7.3	7.3	0.4	0.0	5.2	7.5	0.0	0.9	1.0	0.8	3.0	6.0	3.9
Precipitation				1.5	11.9			0.1				13.5		12.2
Evaporation		-	-	-	-	-	-	-	-	-	-	-	-	15.8
Growing Degrees	5	4.4	3.6	5.5	3.2	1.7	0.3	0.5	0.0	0.0	0.1	19.3	29.6	18.4
	10	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	2.6	1.6

1st 10-day period (1-10/02/2025)		Previous Year Value	Past Years Mean Value
Reference Evapotranspiration	9.5	10.6	10.1
Precipitation - Reference Evapotranspiration	4.0	-10.6	2.1
Number of Rainy Days	3.0	0.0	2.5
Number of Dry Days	11.0	11.0	-

Diagram of Accumulated Precipitation and Accumulated Reference Evapotranspiration



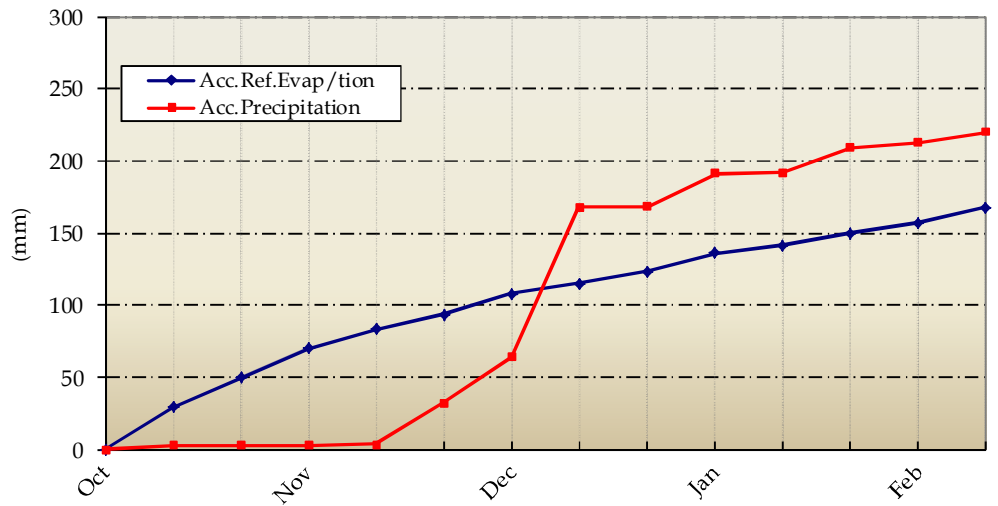
Mikra

1st 10-day period (1-10/02/2025)		1	2	3	4	5	6	7	8	9	10	Mean Value or Sum	Previous Year Value	Past Years Mean Value
Temperature	Max	17.7	14.0	13.0	11.7	10.2	10.8	8.1	9.2	8.4	8.5	11.2	15.6	10.6
	Min	3.9	6.6	7.9	7.0	4.0	-0.9	3.8	-1.4	1.9	-0.8	3.2	1.5	2.3
Relative Humidity	Max	100	100	100	99	95	97	98	100	82	94	96	88	88
	Min	50	73	68	59	39	40	54	53	57	54	55	41	56
Soil Temperature at 10 cm	06 UTC	9.2	10.0	10.2	10.0	8.0	6.5	8.0	6.0	6.4	5.2	8.0	6.1	5.7
	12 UTC	10.6	11.3	11.6	9.9	9.0	7.4	7.7	7.9	8.4	7.8	9.2	8.3	7.5
Sunshine Duration		11.2	0.1	2.4	0.0	8.9	9.0	0.3	8.1	4.2	8.8	5.3	6.1	4.2
Precipitation					5.1	0.6		1.8				7.5		9.2
Evaporation		-	-	-	-	-	-	-	-	-	-	-	-	15.4
Growing Degrees	5	5.8	5.3	5.5	4.4	2.1	0.0	1.0	0.0	0.2	0.0	24.1	36.9	19.9
	10	0.8	0.3	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	2.8	1.6

1st 10-day period (1-10/02/2025)		Previous Year Value	Past Years Mean Value
Reference Evapotranspiration	10.4	15.8	8.6
Precipitation - Reference Evapotranspiration	-2.9	-15.8	0.6
Number of Rainy Days	3.0	0.0	2.3
Number of Dry Days	4.0	20.0	-

The missing info in the tables are due to the absence of data.

Diagram of Accumulated Precipitation and Accumulated Reference Evapotranspiration





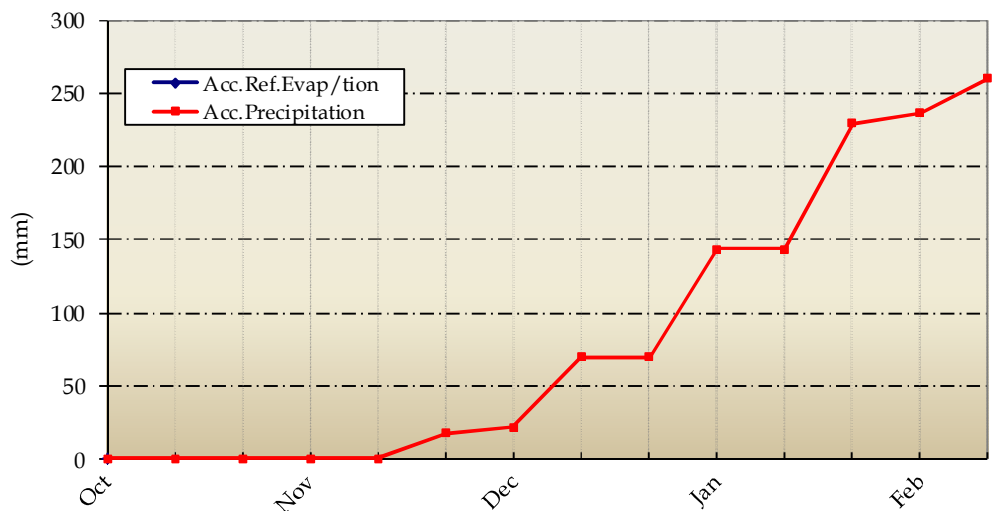
Tanagra

1st 10-day period (1-10/02/2025)		1	2	3	4	5	6	7	8	9	10	Mean Value or Sum	Previous Year Value	Past Years Mean Value
Temperature	Max	18.4	16.0	15.2	9.7	7.0	7.1	7.0	6.6	7.1	7.4	10.2	18.1	12.3
	Min	2.6	3.4	4.6	9.4	5.6	0.6	3.6	1.2	4.2	3.4	3.9	4.0	3.2
Relative Humidity	Max	98	99	99	99	86	94	92	91	80	84	92	88	93
	Min	45	59	65	54	61	70	48	57	54	51	56	29	53
Soil Temperature at 10 cm	06 UTC	-	-	-	-	-	-	-	-	-	-	-	-	-
	12 UTC	-	-	-	-	-	-	-	-	-	-	-	-	-
Sunshine Duration		8.2	8.1	4.4	1.3	0.7	0.5	1.6	1.6	1.6	1.3	2.9	-	4.1
Precipitation		-	-	8.1	12.3	0.2	-	-	0.7	2.0	0.2	23.5	-	18.5
Evaporation		-	-	-	-	-	-	-	-	-	-	-	-	21.1
Growing Degrees	5	5.5	4.7	4.9	4.6	1.3	0.0	0.3	0.0	0.7	0.4	22.3	60.6	29.3
	10	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	18.9	5.2

1st 10-day period (1-10/02/2025)		Previous Year Value	Past Years Mean Value
Reference Evapotranspiration	-	-	-
Precipitation - Reference Evapotranspiration	-	-	-
Number of Rainy Days	6.0	0.0	3.1
Number of Dry Days	3.0	10.0	-

The missing info in the tables and the graph are due to the absence of data.

Diagram of Accumulated Precipitation and Accumulated Reference Evapotranspiration



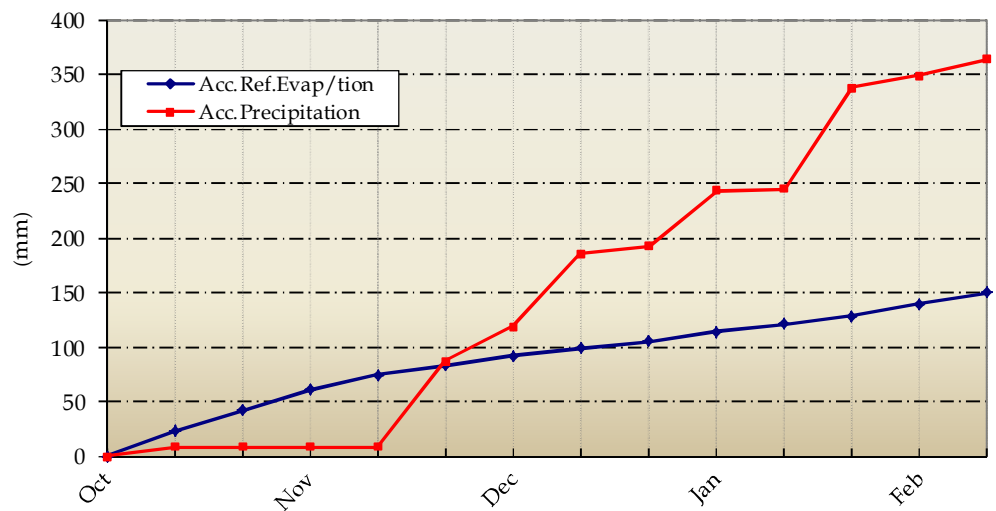
Tripoli

1st 10-day period (1-10/02/2025)		1	2	3	4	5	6	7	8	9	10	Mean Value or Sum	Previous Year Value	Past Years Mean Value
Temperature	Max	16.3	13.9	15.4	9.4	7.2	7.2	3.9	4.8	5.8	6.1	9.0	15.8	10.4
	Min	-0.9	-0.6	4.4	2.0	2.8	-2.0	2.1	-0.7	-3.7	-1.5	0.2	-2.4	0.3
Relative Humidity	Max	100	100	98	98	98	80	88	75	82	90	91	95	94
	Min	38	52	52	69	61	49	52	53	55	48	53	30	56
Soil Temperature at 10 cm	06 UTC	-	-	-	-	-	-	-	-	-	-	-	-	4.7
	12 UTC	-	-	-	-	-	-	-	-	-	-	-	-	5.8
Sunshine Duration		7.5	7.5	3.6	1.9	4.9	7.3	0.0	1.6	1.2	7.6	4.3	6.7	3.8
Precipitation				12.0	3.1		0.0	0.0		0.0		15.1	0.0	29.9
Evaporation		-	-	-	-	-	-	-	-	-	-	-	-	153.7
Growing Degrees	5	2.7	1.7	4.9	0.7	0.0	0.0	0.0	0.0	0.0	0.0	10.0	21.3	11.8
	10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5

1st 10-day period (1-10/02/2025)		Previous Year Value	Past Years Mean Value
Reference Evapotranspiration	10.5	11.6	4.5
Precipitation - Reference Evapotranspiration	4.6	-11.6	25.4
Number of Rainy Days	2.0	0.0	3.6
Number of Dry Days	3.0	11.0	-

The missing info in the tables are due to the absence of data.

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<sub>n</sub> 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.

**Past Years Mean Values 1991-2020** (Evaporation, Reference Evapotranspiration, Max and Min Relative Humidity 2005-2020)

**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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