



# AGROMETEOROLOGICAL BULLETIN

*November 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



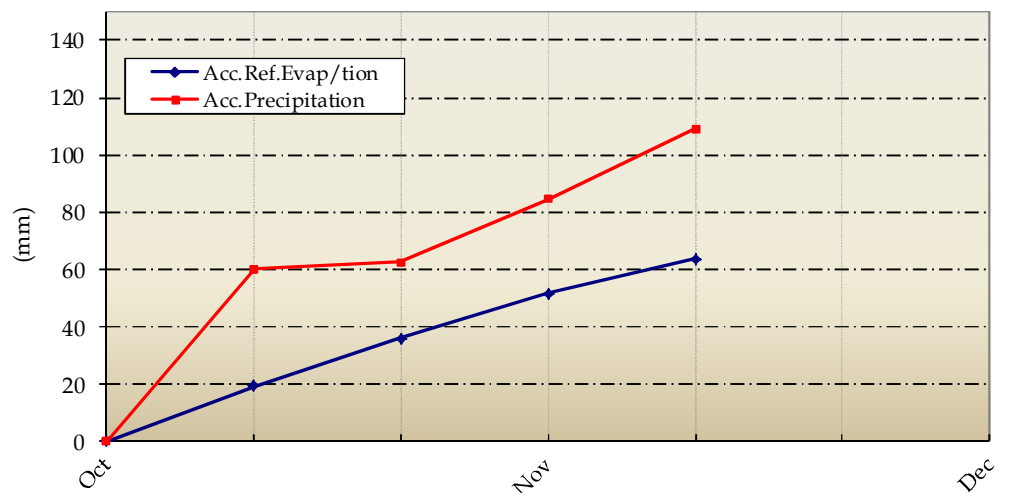
Hellenic National Meteorological Service  
Division of Climatology-Applications  
El. Venizelou Street 14, 16777  
Helliniko, Athens

*Web adresses of HNMS*  
[www.emy.gr](http://www.emy.gr)  
[www.hnms.gr](http://www.hnms.gr)  
[www.emy.gov.gr](http://www.emy.gov.gr)  
[www.meteo.gov.gr](http://www.meteo.gov.gr)  
[www.meteohellas.gr](http://www.meteohellas.gr)

1st 10-day period (1-10/11/2025)		1	2	3	4	5	6	7	8	9	10	Mean Value or Sum	Previous Year Value	Past Years Mean Value
Temperature	Max	22.2	21.2	19.2	19.4	15.0	15.2	17.2	20.8	20.8	21.0	19.2	17.4	17.3
	Min	8.2	8.0	9.2	11.0	13.0	12.6	13.0	15.2	16.8	15.0	12.2	5.1	8.1
Relative Humidity	Max	100	100	95	95	80	84	89	96	96	96	93	81	90
	Min	47	61	79	74	77	66	77	73	87	75	72	41	57
Soil Temperature at 10 cm	06 UTC	15.0	14.6	14.2	15.0	14.8	14.0	14.7	15.4	18.4	17.0	15.3	13.1	12.6
	12 UTC	17.0	17.0	17.0	16.6	15.2	14.6	15.6	17.6	18.2	18.6	16.7	16.0	14.4
Sunshine Duration		7.6	6.3	7.7	1.4	0.0	0.0	0.4	4.6	2.2	4.0	3.4	8.1	5.5
Precipitation					16.7					5.5	2.3	24.5		18.8
Evaporation		1.5	3.0	0.7	2.0	2.5	1.5	1.2	7.9	1.0	0.6	21.9	41.3	23.6
Growing Degrees	5	10.2	9.6	9.2	10.2	9.0	8.9	10.1	13.0	13.8	13.0	107.0	62.6	72.3
	10	5.2	4.6	4.2	5.2	4.0	3.9	5.1	8.0	8.8	8.0	57.0	14.5	30.8

1st 10-day period (1-10/11/2025)		Previous Year Value	Past Years Mean Value
Reference Evapotranspiration	12.1	17.3	11.7
Precipitation - Reference Evapotranspiration	12.4	-17.3	7.1
Number of Rainy Days	3.0	0.0	1.5
Number of Dry Days	6.0	35.0	-

Diagram of Accumulated Precipitation and Accumulated Reference Evapotranspiration

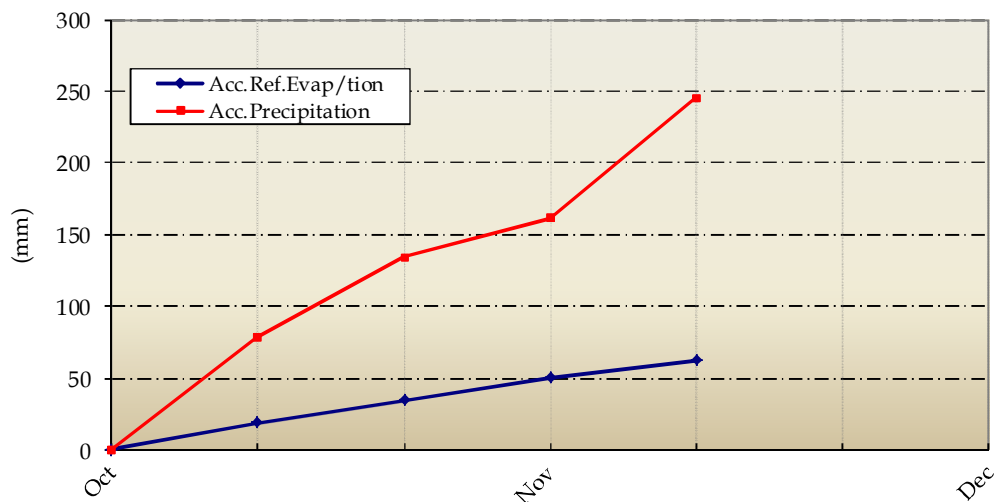


1st 10-day period (1-10/11/2025)		1	2	3	4	5	6	7	8	9	10	Mean Value or Sum	Previous Year Value	Past Years Mean Value
Temperature	Max	22.5	24.9	22.9	23.3	23.8	23.1	22.8	22.0	23.8	21.0	23.0	22.6	21.1
	Min	15.7	13.2	14.6	14.4	13.7	11.5	12.1	15.8	13.5	15.1	14.0	6.7	11.0
Relative Humidity	Max	100	100	100	100	100	100	100	100	100	100	100	88	92
	Min	71	56	75	59	56	50	54	69	61	59	61	35	50
Soil Temperature at 10 cm	06 UTC	-	-	-	-	-	-	-	-	-	-	-	-	15.4
	12 UTC	-	-	-	-	-	-	-	-	-	-	-	-	18.4
Sunshine Duration		2.4	5.6	1.5	4.5	6.2	8.6	8.6	6.3	4.0	2.5	5.0	8.4	5.9
Precipitation		33.2		12.2	9.8				8.1	14.3	6.5	84.1		29.5
Evaporation		-	-	-	-	-	-	-	-	-	-	-	-	38.3
Growing Degrees	5	14.1	14.1	13.8	13.9	13.8	12.3	12.5	13.9	13.7	13.1	134.9	96.8	93.5
	10	9.1	9.1	8.8	8.9	8.8	7.3	7.5	8.9	8.7	8.1	84.9	46.8	51.4

1st 10-day period (1-10/11/2025)		Previous Year Value	Past Years Mean Value
Reference Evapotranspiration	11.6	9.8	15.4
Precipitation - Reference Evapotranspiration	72.5	-9.8	14.1
Number of Rainy Days	6.0	0.0	2.2
Number of Dry Days	9.0	35.0	-

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

Diagram of Accumulated Precipitation and Accumulated Reference Evapotranspiration



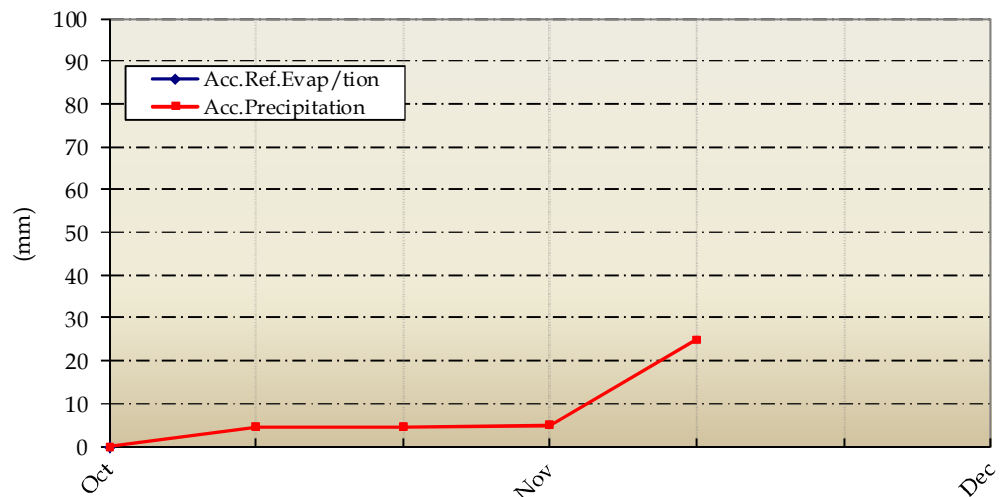
Iraklio

1st 10-day period (1-10/11/2025)		1	2	3	4	5	6	7	8	9	10	Mean Value or Sum	Previous Year Value	Past Years Mean Value
Temperature	Max	22.4	23.4	23.0	23.4	23.2	21.8	21.0	25.0	26.0	27.0	23.6	20.1	22.0
	Min	18.6	17.6	15.6	15.6	16.6	16.0	15.6	14.2	17.6	20.0	16.7	16.7	15.2
Relative Humidity	Max	90	93	96	85	90	92	96	91	79	71	88	80	86
	Min	65	72	67	47	64	69	67	53	41	40	58	65	60
Soil Temperature at 10 cm	06 UTC	-	-	-	-	-	-	-	-	-	-	-	-	-
	12 UTC	-	-	-	-	-	-	-	-	-	-	-	-	-
Sunshine Duration		0.0	8.7	7.5	6.0	6.2	2.8	2.9	8.5	7.9	7.5	5.8	6.2	5.4
Precipitation		0.1	0.1			0.3	7.0	12.7				20.2		18.9
Evaporation		0.7	4.3	0.3	2.3	2.6	2.1	0.6	1.3	2.1	4.1	20.4	35.3	35.6
Growing Degrees	5	15.5	15.5	14.3	14.5	14.9	13.9	13.3	14.6	16.8	18.5	151.8	133.9	131.6
	10	10.5	10.5	9.3	9.5	9.9	8.9	8.3	9.6	11.8	13.5	101.8	83.9	82.8

1st 10-day period (1-10/11/2025)		Previous Year Value	Past Years Mean Value
Reference Evapotranspiration	-	-	
Precipitation - Reference Evapotranspiration	-	-	
Number of Rainy Days	5.0	0.0	2.4
Number of Dry Days	2.0	41.0	-

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

Diagram of Accumulated Precipitation and Accumulated Reference Evapotranspiration

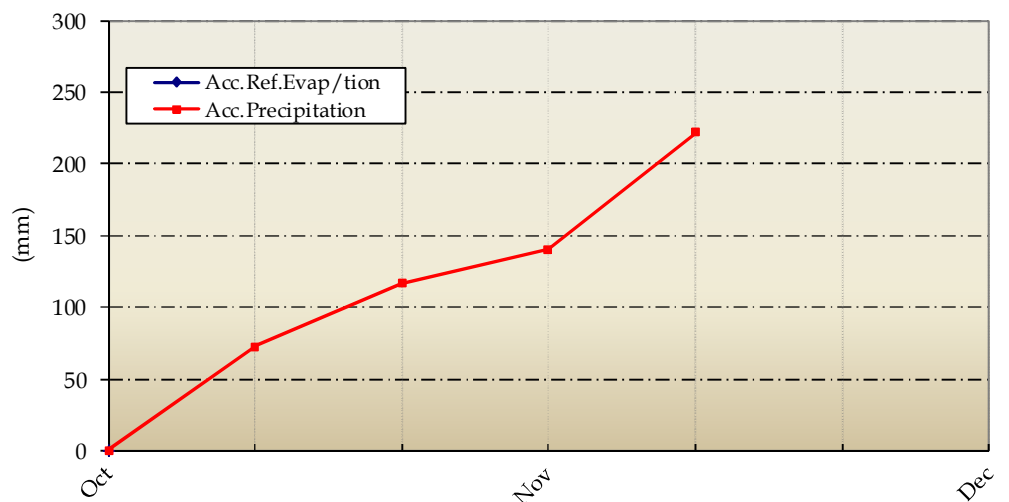


1st 10-day period (1-10/11/2025)		1	2	3	4	5	6	7	8	9	10	Mean Value or Sum	Previous Year Value	Past Years Mean Value
Temperature	Max	20.6	22.4	18.8	17.5	20.6	20.3	18.4	17.8	17.6	15.4	18.9	20.5	17.1
	Min	9.6	7.3	12.0	12.1	7.4	4.4	9.0	12.0	10.0	10.6	9.4	0.7	5.8
Relative Humidity	Max	100	100	100	100	100	100	100	100	100	100	100	99	98
	Min	54	53	72	73	46	48	65	70	78	71	63	32	56
Soil Temperature at 10 cm	06 UTC	-	-	-	-	-	-	-	-	-	-	-	-	10.8
	12 UTC	-	-	-	-	-	-	-	-	-	-	-	-	11.4
Sunshine Duration		2.8	4.7	0.8	1.3	7.3	8.5	3.6	3.3	0.3	0.0	3.3	8.0	3.8
Precipitation				0.4	14.7			0.7	19.0	15.5	30.9	81.2		39.6
Evaporation		-	-	-	-	-	-	-	-	-	-	-	-	
Growing Degrees	5	10.1	9.9	10.4	9.8	9.0	7.4	8.7	9.9	8.8	8.0	91.9	56.3	54.6
	10	5.1	4.9	5.4	4.8	4.0	2.4	3.7	4.9	3.8	3.0	41.9	9.7	17.8

1st 10-day period (1-10/11/2025)		Previous Year Value	Past Years Mean Value
Reference Evapotranspiration	-	-	10.1
Precipitation - Reference Evapotranspiration	-	-	29.5
Number of Rainy Days	6.0	0.0	2.9
Number of Dry Days	2.0	11.0	-

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

Diagram of Accumulated Precipitation and Accumulated Reference Evapotranspiration

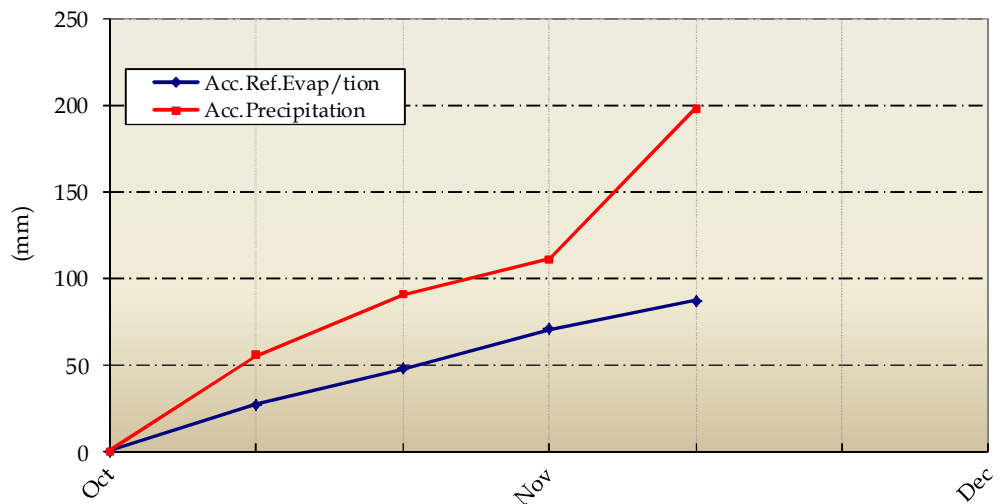


1st 10-day period (1-10/11/2025)		1	2	3	4	5	6	7	8	9	10	Mean Value or Sum	Previous Year Value	Past Years Mean Value
Temperature	Max	25.3	25.7	24.8	23.4	20.5	24.4	21.5	21.1	23.2	21.7	23.2	24.6	22.0
	Min	16.0	14.7	14.4	15.9	14.6	13.2	11.5	14.7	15.5	14.7	14.5	10.4	10.7
Relative Humidity	Max	98	96	96	97	97	97	97	97	98	97	97	84	91
	Min	57	50	53	65	63	49	68	84	72	69	63	26	47
Soil Temperature at 10 cm	06 UTC	-	-	-	-	-	-	-	-	-	-	-	-	16.1
	12 UTC	-	-	-	-	-	-	-	-	-	-	-	-	17.5
Sunshine Duration		3.0	8.1	6.7	5.1	0.0	7.0	7.0	0.3	7.3	2.0	4.6	8.6	6.5
Precipitation		30.1			4.5		2.4		12.6	28.8	8.6	87.0		27.7
Evaporation		-	-	-	-	-	-	-	-	-	-	-	-	26.8
Growing Degrees	5	15.7	15.2	14.6	14.7	12.6	13.8	11.5	12.9	14.4	13.2	138.4	124.9	103.1
	10	10.7	10.2	9.6	9.7	7.6	8.8	6.5	7.9	9.4	8.2	88.4	74.9	57.9

1st 10-day period (1-10/11/2025)		Previous Year Value	Past Years Mean Value
Reference Evapotranspiration	16.7	26.2	19.3
Precipitation - Reference Evapotranspiration	70.3	-26.2	8.4
Number of Rainy Days	6.0	0.0	2.3
Number of Dry Days	8.0	36.0	-

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

Diagram of Accumulated Precipitation and Accumulated Reference Evapotranspiration

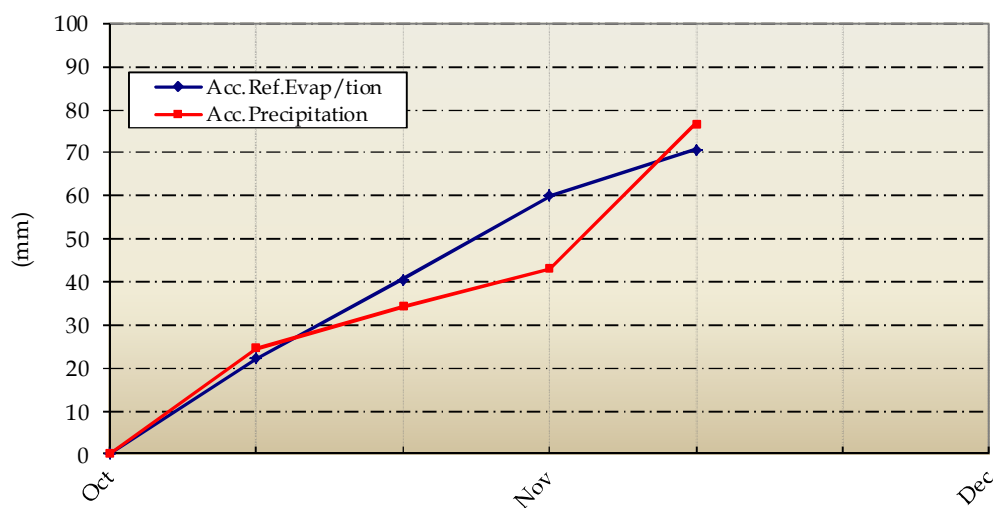


Larisa

1st 10-day period (1-10/11/2025)		1	2	3	4	5	6	7	8	9	10	Mean Value or Sum	Previous Year Value	Past Years Mean Value
Temperature	Max	21.6	20.0	24.2	21.3	15.0	16.0	20.4	17.8	20.6	18.0	19.5	19.2	18.5
	Min	12.0	7.8	8.0	13.4	12.8	12.8	11.2	12.6	11.8	13.6	11.6	4.5	7.4
Relative Humidity	Max	100	100	100	100	100	100	100	100	100	100	100	91	96
	Min	58	52	51	59	76	78	57	91	68	85	68	41	52
Soil Temperature at 10 cm	06 UTC	-	-	-	-	-	-	-	-	-	-	-	-	13.6
	12 UTC	-	-	-	-	-	-	-	-	-	-	-	-	14.4
Sunshine Duration		3.7	2.8	5.8	2.8	0.0	0.0	5.8	0.5	5.5	0.6	2.8	5.4	4.3
Precipitation					9.8	0.1			6.1	4.0	13.5	33.5	0.0	11.7
Evaporation		-	-	-	-	-	-	-	-	-	-	-	21.8	29.2
Growing Degrees	5	11.8	8.9	11.1	12.4	8.9	9.4	10.8	10.2	11.2	10.8	105.5	68.3	75.3
	10	6.8	3.9	6.1	7.4	3.9	4.4	5.8	5.2	6.2	5.8	55.5	21.8	30.4

1st 10-day period (1-10/11/2025)		Previous Year Value	Past Years Mean Value
Reference Evapotranspiration	10.6	14.0	9.6
Precipitation - Reference Evapotranspiration	22.9	-14.0	2.1
Number of Rainy Days	5.0	0.0	2.0
Number of Dry Days	7.0	36.0	-

Diagram of Accumulated Precipitation and Accumulated Reference Evapotranspiration



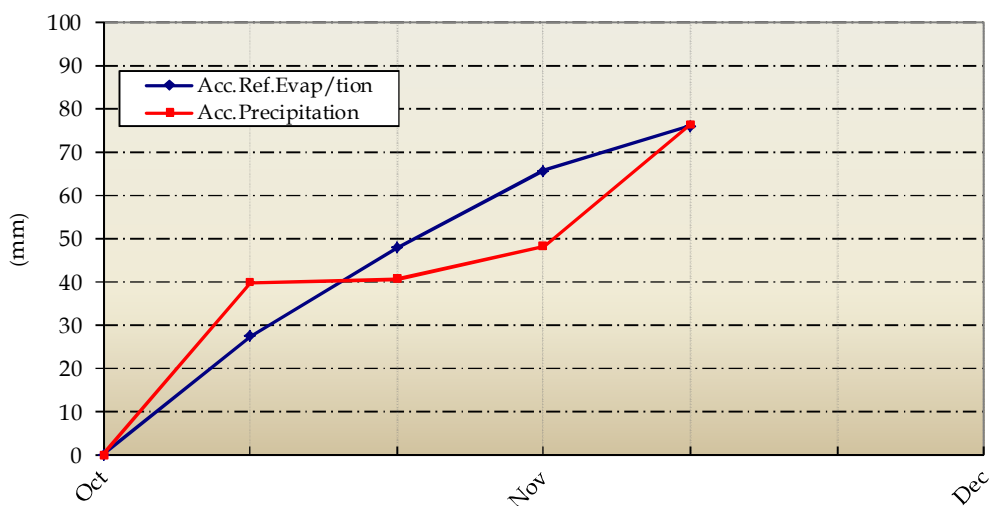
Mikra

1st 10-day period (1-10/11/2025)		1	2	3	4	5	6	7	8	9	10	Mean Value or Sum	Previous Year Value	Past Years Mean Value
Temperature	Max	19.6	20.0	19.4	17.8	16.8	17.1	19.0	20.4	18.4	18.4	18.7	18.9	17.8
	Min	10.0	9.6	10.0	13.4	12.0	12.7	10.2	11.8	12.9	13.6	11.6	7.3	9.2
Relative Humidity	Max	100	95	100	100	100	100	100	100	100	100	100	84	88
	Min	64	53	65	72	67	70	60	70	85	76	68	44	54
Soil Temperature at 10 cm	06 UTC	15.4	15.0	15.0	16.2	15.0	15.4	15.0	15.4	16.0	15.0	15.3	14.8	13.3
	12 UTC	16.6	17.2	22.0	16.4	15.2	15.2	20.4	18.0	17.0	15.2	17.3	16.6	15.6
Sunshine Duration		4.1	4.8	6.7	0.1	0.0	0.0	2.5	0.4	4.0	0.4	2.3	6.8	5.0
Precipitation				0.1	1.0	5.1				0.1	22.0	28.3	0.5	10.5
Evaporation		-	-	-	-	-	-	-	-	-	-	-	-	23.9
Growing Degrees	5	9.8	9.8	9.7	10.6	9.4	9.9	9.6	11.1	10.7	11.0	101.6	80.9	79.8
	10	4.8	4.8	4.7	5.6	4.4	4.9	4.6	6.1	5.7	6.0	51.6	30.9	34.9

1st 10-day period (1-10/11/2025)		Previous Year Value	Past Years Mean Value
Reference Evapotranspiration	10.6	13.4	9.2
Precipitation - Reference Evapotranspiration	17.7	-12.9	1.3
Number of Rainy Days	5.0	1.0	1.7
Number of Dry Days	6.0	29.0	-

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

Diagram of Accumulated Precipitation and Accumulated Reference Evapotranspiration





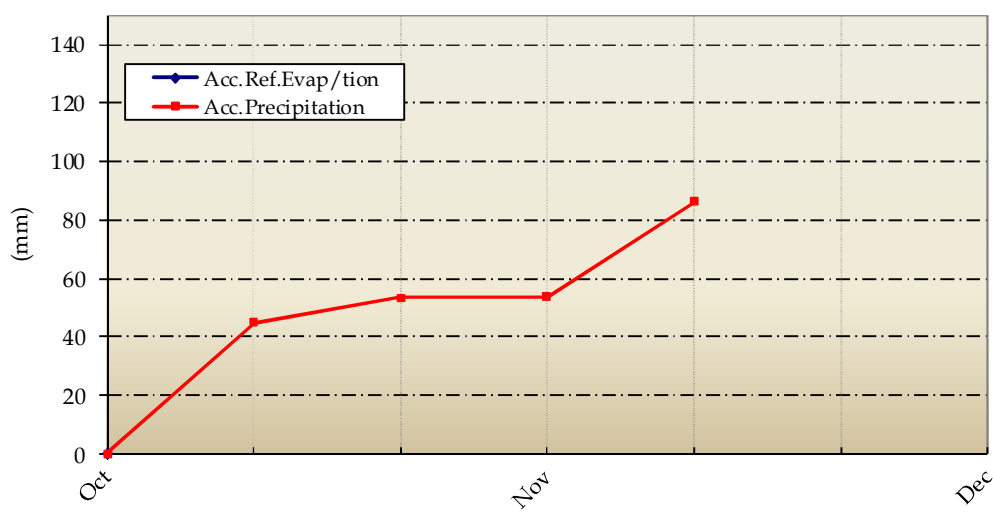
Tanagra

1st 10-day period (1-10/11/2025)		1	2	3	4	5	6	7	8	9	10	Mean Value or Sum	Previous Year Value	Past Years Mean Value
Temperature	Max	20.0	21.4	23.4	22.6	15.5	16.8	20.4	21.7	24.0	21.2	20.7	18.7	19.2
	Min	14.8	15.2	10.6	13.7	14.3	13.8	13.9	10.0	14.4	18.6	13.9	8.7	10.0
Relative Humidity	Max	97	96	97	98	99	93	98	98	96	99	97	78	93
	Min	68	58	55	48	87	71	53	60	47	60	61	38	50
Soil Temperature at 10 cm	06 UTC	-	-	-	-	-	-	-	-	-	-	-	-	-
	12 UTC	-	-	-	-	-	-	-	-	-	-	-	-	-
Sunshine Duration		0.0	2.6	7.3	3.0	0.0	0.0	5.7	1.0	4.9	1.9	2.6	7.1	5.0
Precipitation		0.1	0.1		0.0	18.1			0.1		14.3	32.7		20.3
Evaporation		-	-	-	-	-	-	-	-	-	-	-	-	29.3
Growing Degrees	5	12.4	13.3	12.0	13.2	9.9	10.3	12.2	10.9	14.2	14.9	123.2	86.9	82.8
	10	7.4	8.3	7.0	8.2	4.9	5.3	7.2	5.9	9.2	9.9	73.2	36.9	40.7

1st 10-day period (1-10/11/2025)		Previous Year Value	Past Years Mean Value
Reference Evapotranspiration	-	-	
Precipitation - Reference Evapotranspiration	-	-	
Number of Rainy Days	5.0	0.0	2.1
Number of Dry Days	10.0	50.0	-

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

Diagram of Accumulated Precipitation and Accumulated Reference Evapotranspiration

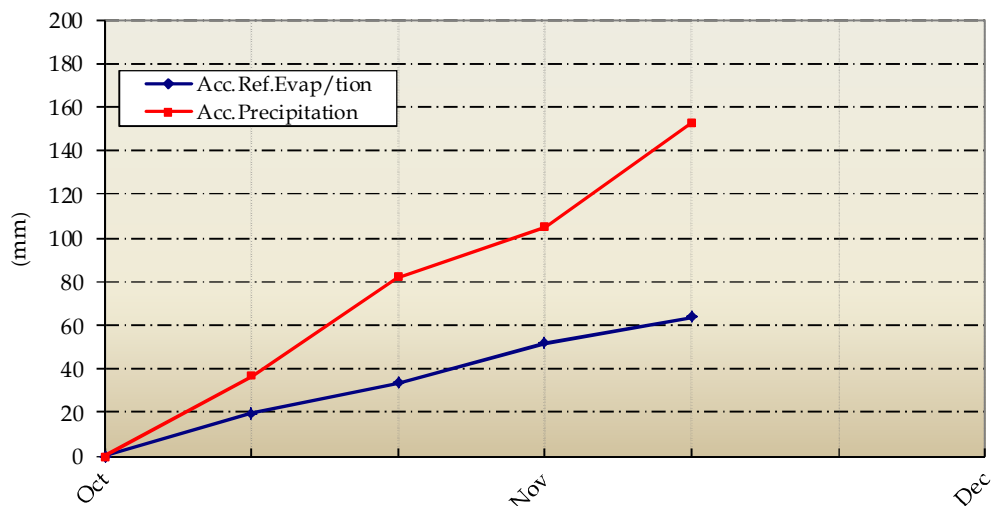


1st 10-day period (1-10/11/2025)		1	2	3	4	5	6	7	8	9	10	Mean Value or Sum	Previous Year Value	Past Years Mean Value
Temperature	Max	20.6	22.2	22.0	20.6	16.8	17.0	18.8	16.2	20.3	17.8	19.2	18.1	17.8
	Min	8.9	10.9	10.5	11.8	11.0	11.7	6.4	9.5	11.2	12.5	10.4	1.8	5.1
Relative Humidity	Max	95	98	99	97	97	97	99	98	98	99	98	94	95
	Min	61	45	42	52	63	60	46	73	56	58	56	35	46
Soil Temperature at 10 cm	06 UTC	-	-	-	-	-	-	-	-	-	-	-	-	11.2
	12 UTC	-	-	-	-	-	-	-	-	-	-	-	-	13.4
Sunshine Duration		5.0	5.3	4.3	4.9	0.4	3.4	5.9	0.8	6.4	2.2	3.9	7.9	6.0
Precipitation		3.5	0.2	0.0	0.4	0.1			2.1	10.9	31.0	48.2	0.0	19.1
Evaporation		-	-	-	-	-	-	-	-	-	-	-	-	27.9
Growing Degrees	5	9.8	11.6	11.3	11.2	8.9	9.4	7.6	7.9	10.8	10.2	98.4	49.4	54.3
	10	4.8	6.6	6.3	6.2	3.9	4.4	2.6	2.9	5.8	5.2	48.4	9.6	17.6

1st 10-day period (1-10/11/2025)		Previous Year Value	Past Years Mean Value
Reference Evapotranspiration	12.1	13.2	10.0
Precipitation - Reference Evapotranspiration	36.1	-13.2	9.1
Number of Rainy Days	7.0	0.0	1.9
Number of Dry Days	7.0	36.0	-

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

© HELLENIC NATIONAL METEOROLOGICAL SERVICE  
 Reproduction is prohibited without written permission  
 El. Venizelou street 14, Zip Code 16777  
 Helliniko, Athens

The present bulletin was designed and implemented under the support of Water Resources Management Division of Agriculture University of Athens