



AGROMETEOROLOGICAL BULLETIN

*December 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

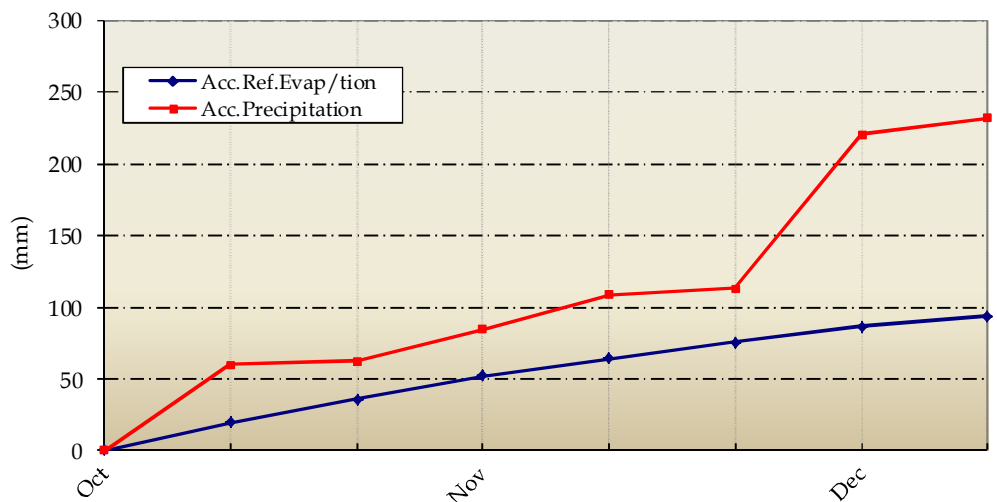
Web adresses of HNMS
www.emy.gr
www.hnms.gr
www.emy.gov.gr
www.meteo.gov.gr
www.meteohellas.gr

Alexandroupoli

1st 10-day period (1-10/12/2025)		1	2	3	4	5	6	7	8	9	10	Mean Value or Sum	Previous Year Value	Past Years Mean Value
Temperature	Max	13.6	14.0	15.2	14.8	15.6	17.2	14.6	13.0	11.4	11.8	14.1	14.0	11.8
	Min	6.4	2.6	3.6	4.8	12.2	13.0	9.8	8.0	6.0	1.2	6.8	8.4	4.6
Relative Humidity	Max	93	93	97	97	93	93	90	86	95	96	93	91	91
	Min	62	67	72	71	73	72	64	65	74	73	69	71	62
Soil Temperature at 10 cm	06 UTC	11.6	10.4	10.0	10.5	12.0	12.6	12.6	12.0	11.0	9.4	11.2	10.8	8.6
	12 UTC	12.6	12.0	11.6	12.0	13.4	14.0	13.4	12.6	11.4	10.4	12.3	11.7	9.7
Sunshine Duration		6.3	6.9	3.8	3.4	2.0	4.5	1.3	4.4	1.3	2.4	3.6	3.0	3.4
Precipitation					0.0	3.4	7.8					11.2	89.0	21.8
Evaporation		2.8	0.7	2.2	0.7	0.8	2.6	2.2	1.1	0.9	0.4	14.4	16.9	10.5
Growing Degrees	5	5.0	3.3	4.4	4.8	8.9	10.1	7.2	5.5	3.7	1.5	54.4	62.1	34.5
	10	0.0	0.0	0.0	0.0	3.9	5.1	2.2	0.5	0.0	0.0	11.7	15.4	9.6

1st 10-day period (1-10/12/2025)		Previous Year Value	Past Years Mean Value
Reference Evapotranspiration	7.6	8.9	7.5
Precipitation - Reference Evapotranspiration	3.6	80.1	14.3
Number of Rainy Days	2.0	5.0	2.8
Number of Dry Days	4.0	0.0	-

Diagram of Accumulated Precipitation and Accumulated Reference Evapotranspiration



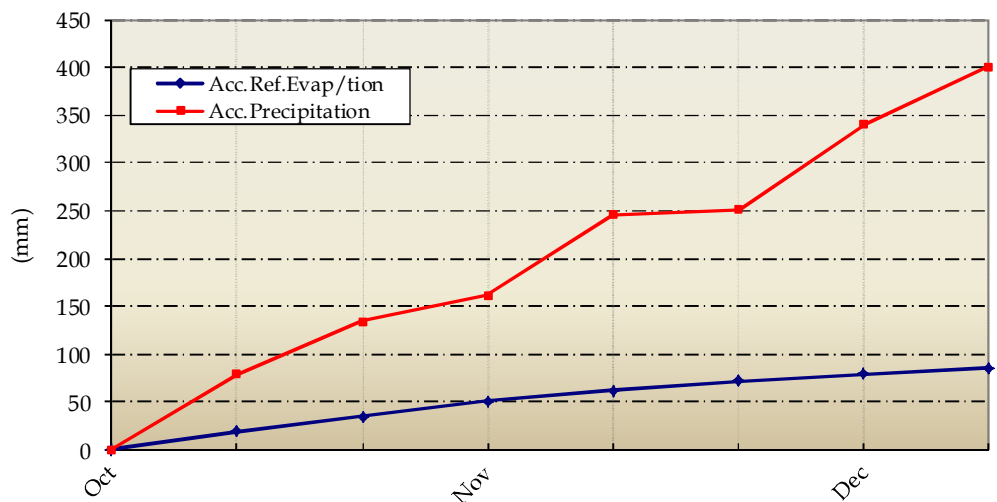
Andravida

1st 10-day period (1-10/12/2025)		1	2	3	4	5	6	7	8	9	10	Mean Value or Sum	Previous Year Value	Past Years Mean Value
Temperature	Max	17.4	18.6	16.9	17.4	14.2	15.6	17.5	18.4	18.0	17.0	17.1	17.2	16.4
	Min	8.2	9.0	11.4	13.7	11.8	10.6	9.0	8.1	4.9	5.0	9.2	10.3	7.9
Relative Humidity	Max	99	100	100	100	100	100	100	100	100	100	100	99	91
	Min	57	53	67	65	95	76	65	54	59	52	64	65	55
Soil Temperature at 10 cm	06 UTC	-	-	-	-	-	-	-	-	-	-	-	-	11.6
	12 UTC	-	-	-	-	-	-	-	-	-	-	-	-	13.6
Sunshine Duration		7.2	2.7	0.0	0.0	0.0	0.6	4.8	6.2	7.2	7.4	3.6	1.8	4.6
Precipitation				6.5	7.9	41.8	4.8					61.0	107.1	35.4
Evaporation		-	-	-	-	-	-	-	-	-	-	-	-	23.9
Growing Degrees	5	7.8	8.8	9.2	10.6	8.0	8.1	8.3	8.3	6.5	6.0	81.4	87.9	58.5
	10	2.8	3.8	4.2	5.6	3.0	3.1	3.3	3.3	1.5	1.0	31.4	37.9	20.1

1st 10-day period (1-10/12/2025)		Previous Year Value	Past Years Mean Value
Reference Evapotranspiration	6.2	6.1	9.4
Precipitation - Reference Evapotranspiration	54.8	101.0	26.0
Number of Rainy Days	4.0	8.0	3.4
Number of Dry Days	3.0	0.0	-

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

Diagram of Accumulated Precipitation and Accumulated Reference Evapotranspiration



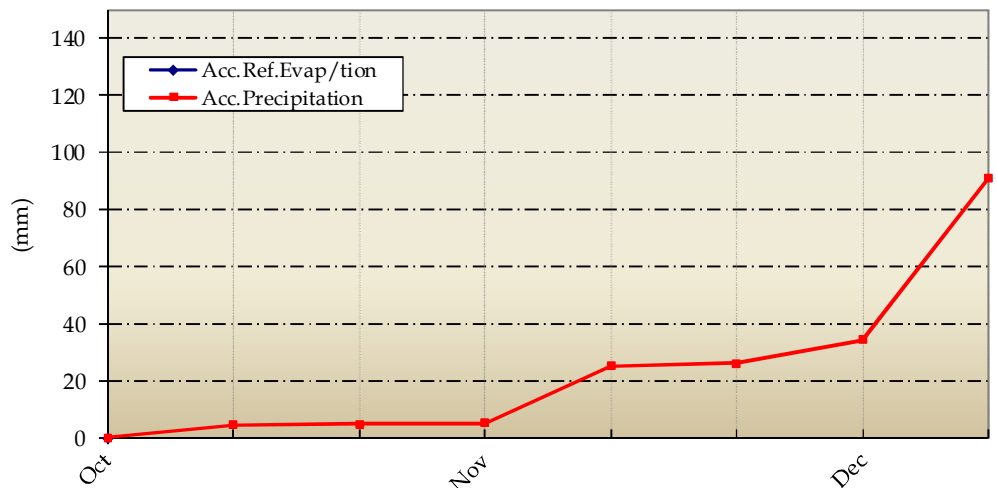
Iraklio

1st 10-day period (1-10/12/2025)		1	2	3	4	5	6	7	8	9	10	Mean Value or Sum	Previous Year Value	Past Years Mean Value
Temperature	Max	20.2	20.2	21.0	19.6	18.4	18.0	18.6	18.0	16.6	17.8	18.8	19.8	18.2
	Min	12.2	11.0	10.8	13.4	13.2	12.0	11.8	12.6	15.8	15.4	12.8	14.3	12.1
Relative Humidity	Max	88	88	98	100	93	95	90	95	75	74	90	86	85
	Min	52	52	53	59	61	59	63	71	63	61	59	64	58
Soil Temperature at 10 cm	06 UTC	-	-	-	-	-	-	-	-	-	-	-	-	-
	12 UTC	-	-	-	-	-	-	-	-	-	-	-	-	-
Sunshine Duration		6.7	9.5	0.7	2.9	1.1	4.8	3.7	5.1	4.2	6.4	4.5	4.0	4.5
Precipitation				0.2	20.9	11.8	8.6	4.0	11.2	0.1		56.8	17.1	27.4
Evaporation		2.5	0.9	2.5	1.0	1.2	2.5	0.3	9.8	4.4	2.8	27.9	23.6	37.1
Growing Degrees	5	11.2	10.6	10.9	11.5	10.8	10.0	10.2	10.3	11.2	11.6	108.3	120.1	96.3
	10	6.2	5.6	5.9	6.5	5.8	5.0	5.2	5.3	6.2	6.6	58.3	70.1	49.0

1st 10-day period (1-10/12/2025)		Previous Year Value	Past Years Mean Value
Reference Evapotranspiration	-	-	
Precipitation - Reference Evapotranspiration	-	-	
Number of Rainy Days	7.0	4.0	3.6
Number of Dry Days	3.0	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

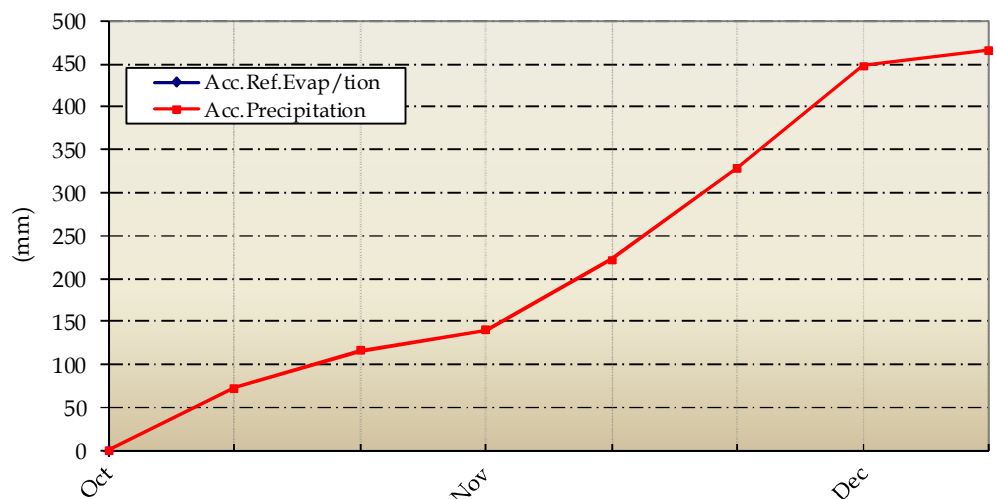


1st 10-day period (1-10/12/2025)		1	2	3	4	5	6	7	8	9	10	Mean Value or Sum	Previous Year Value	Past Years Mean Value
Temperature	Max	13.4	10.7	13.1	13.9	11.1	11.0	16.1	16.4	15.5	11.6	13.3	12.8	11.2
	Min	3.7	0.0	4.1	8.5	6.9	8.0	3.6	6.0	-0.7	1.0	4.1	5.7	2.4
Relative Humidity	Max	100	100	100	100	100	100	100	100	100	100	100	99	98
	Min	60	76	76	60	93	83	64	39	49	66	67	63	67
Soil Temperature at 10 cm	06 UTC	-	-	-	-	-	-	-	-	-	-	-	-	6.4
	12 UTC	-	-	-	-	-	-	-	-	-	-	-	-	6.9
Sunshine Duration		4.6	0.5	0.1	0.0	0.0	0.0	4.6	4.4	7.3	3.1	2.5	2.0	2.3
Precipitation				4.5	8.0	2.4	3.8					18.7	98.3	45.7
Evaporation		-	-	-	-	-	-	-	-	-	-	-	-	
Growing Degrees	5	3.6	0.4	3.6	6.2	4.0	4.5	4.9	6.2	2.4	1.3	37.0	42.4	18.8
	10	0.0	0.0	0.0	1.2	0.0	0.0	0.0	1.2	0.0	0.0	2.4	4.4	2.3

1st 10-day period (1-10/12/2025)		Previous Year Value	Past Years Mean Value
Reference Evapotranspiration	-	-	8.1
Precipitation - Reference Evapotranspiration	-	-	37.6
Number of Rainy Days	4.0	7.0	3.4
Number of Dry Days	2.0	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



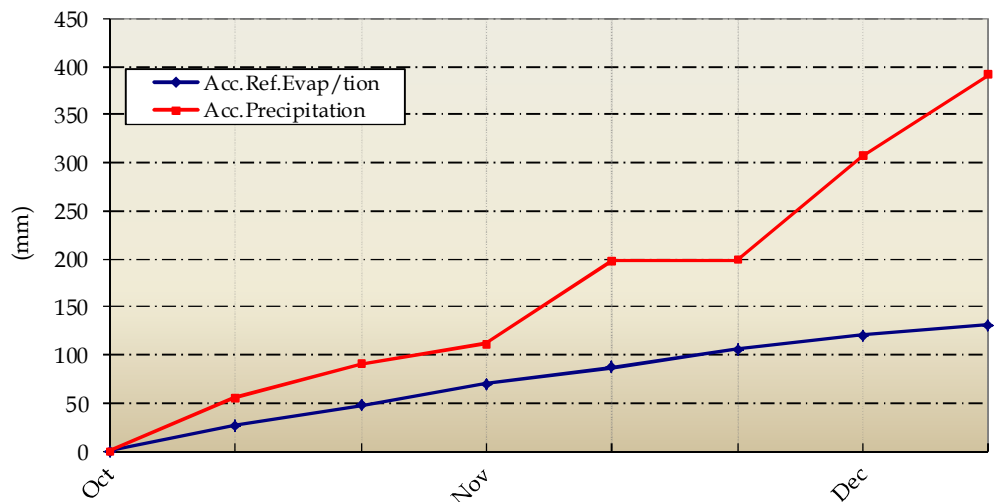
Kalamata

1st 10-day period (1-10/12/2025)		1	2	3	4	5	6	7	8	9	10	Mean Value or Sum	Previous Year Value	Past Years Mean Value
Temperature	Max	20.3	20.1	19.0	18.2	13.6	18.0	20.4	19.4	19.9	19.2	18.8	18.0	17.6
	Min	6.3	5.9	7.0	11.9	11.8	7.2	9.7	7.7	7.5	5.6	8.1	10.1	7.5
Relative Humidity	Max	97	95	97	98	98	98	96	96	95	94	96	97	94
	Min	37	41	68	62	89	61	50	59	45	52	56	63	54
Soil Temperature at 10 cm	06 UTC	-	-	-	-	-	-	-	-	-	-	-	-	12.6
	12 UTC	-	-	-	-	-	-	-	-	-	-	-	-	13.5
Sunshine Duration		7.7	5.8	0.0	0.0	0.0	3.6	5.6	4.1	7.7	7.5	4.2	2.5	5.1
Precipitation				1.6	51.6	31.0	0.8	0.0	0.0			85.0	109.1	41.4
Evaporation		-	-	-	-	-	-	-	-	-	-	-	-	18.4
Growing Degrees	5	8.3	8.0	8.0	10.1	7.7	7.6	10.1	8.6	8.7	7.4	84.4	90.5	67.1
	10	3.3	3.0	3.0	5.1	2.7	2.6	5.1	3.6	3.7	2.4	34.4	40.5	23.7

1st 10-day period (1-10/12/2025)		Previous Year Value	Past Years Mean Value
Reference Evapotranspiration	11.0	10.6	10.2
Precipitation - Reference Evapotranspiration	74.0	98.5	31.2
Number of Rainy Days	4.0	9.0	4.0
Number of Dry Days	2.0	0.0	-

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

Diagram of Accumulated Precipitation and Accumulated Reference Evapotranspiration

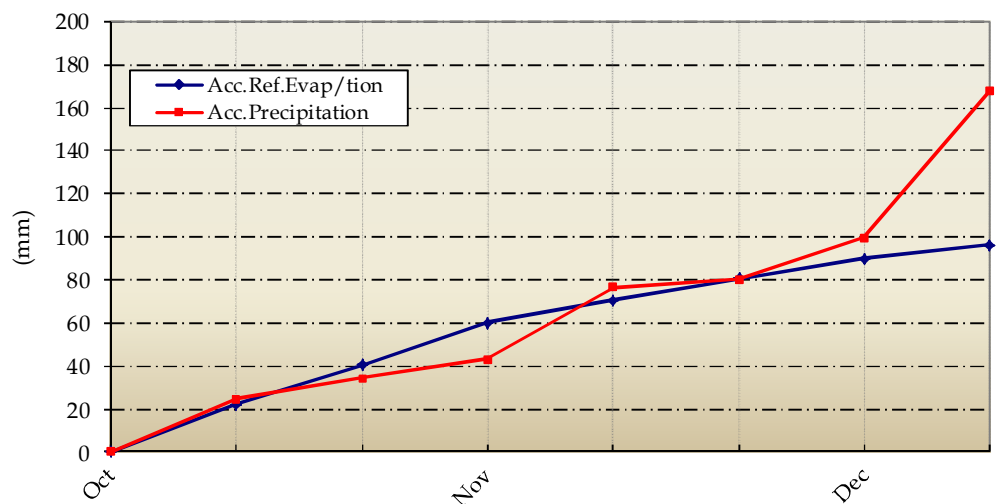


Larisa

1st 10-day period (1-10/12/2025)		1	2	3	4	5	6	7	8	9	10	Mean Value or Sum	Previous Year Value	Past Years Mean Value
Temperature	Max	15.6	14.4	13.6	16.4	15.4	13.4	14.6	15.0	16.0	13.0	14.7	12.9	12.7
	Min	1.0	0.8	7.8	11.0	11.4	10.4	8.2	9.6	2.8	0.8	6.4	7.5	3.8
Relative Humidity	Max	100	100	100	100	100	100	100	100	100	100	100	100	97
	Min	53	59	80	87	72	96	80	58	59	70	71	78	61
Soil Temperature at 10 cm	06 UTC	-	-	-	-	-	-	-	-	-	-	-	-	9.4
	12 UTC	-	-	-	-	-	-	-	-	-	-	-	-	10.0
Sunshine Duration		7.5	6.2	0.0	0.5	0.0	0.0	0.0	3.5	7.2	3.7	2.9	1.4	3.6
Precipitation				0.7	12.3	36.5	18.1	0.8				68.4	64.8	15.6
Evaporation		-	-	-	-	-	-	-	-	-	-	-	8.3	10.9
Growing Degrees	5	3.3	2.6	5.7	8.7	8.4	6.9	6.4	7.3	4.4	1.9	55.6	52.2	31.2
	10	0.0	0.0	0.7	3.7	3.4	1.9	1.4	2.3	0.0	0.0	13.4	7.3	5.8

1st 10-day period (1-10/12/2025)		Previous Year Value	Past Years Mean Value
Reference Evapotranspiration	6.5	6.5	7.5
Precipitation - Reference Evapotranspiration	61.9	58.3	8.1
Number of Rainy Days	5.0	8.0	3.3
Number of Dry Days	4.0	0.0	-

Diagram of Accumulated Precipitation and Accumulated Reference Evapotranspiration



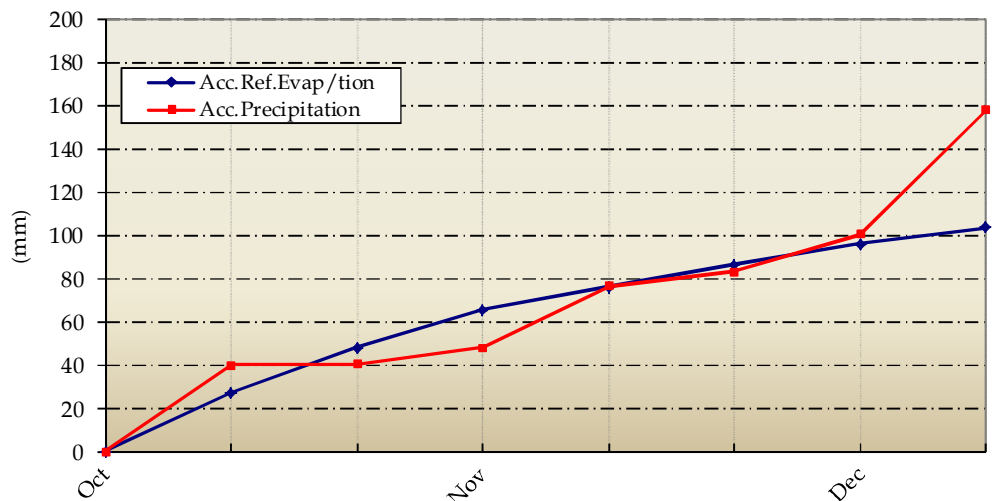
Mikra

1st 10-day period (1-10/12/2025)		1	2	3	4	5	6	7	8	9	10	Mean Value or Sum	Previous Year Value	Past Years Mean Value
Temperature	Max	15.8	14.7	13.0	15.6	15.4	17.2	15.5	15.2	14.0	14.2	15.1	12.8	12.4
	Min	2.5	3.5	8.0	10.4	11.6	13.3	10.6	10.1	4.3	3.4	7.8	8.6	5.2
Relative Humidity	Max	100	100	100	100	100	100	100	100	100	100	100	99	90
	Min	52	68	81	70	68	64	67	63	55	57	64	70	58
Soil Temperature at 10 cm	06 UTC	11.0	10.8	11.2	12.6	12.8	13.2	12.4	13.0	12.0	10.8	12.0	10.9	8.8
	12 UTC	12.2	11.8	12.0	13.6	13.2	13.4	14.0	15.0	12.8	12.0	13.0	11.6	10.7
Sunshine Duration		8.2	7.2	0.0	0.0	0.0	0.0	3.2	4.7	7.8	5.1	3.6	1.6	3.7
Precipitation				3.2	14.2	30.0	9.5	0.8				57.7	103.9	17.0
Evaporation		-	-	-	-	-	-	-	-	-	-	-	-	29.2
Growing Degrees	5	4.2	4.1	5.5	8.0	8.5	10.3	8.1	7.7	4.2	3.8	64.2	56.8	36.6
	10	0.0	0.0	0.5	3.0	3.5	5.3	3.1	2.7	0.0	0.0	18.0	10.2	7.3

1st 10-day period (1-10/12/2025)		Previous Year Value	Past Years Mean Value
Reference Evapotranspiration	7.5	7.2	6.6
Precipitation - Reference Evapotranspiration	50.2	96.7	10.4
Number of Rainy Days	5.0	7.0	2.7
Number of Dry Days	4.0	0.0	-

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

Diagram of Accumulated Precipitation and Accumulated Reference Evapotranspiration



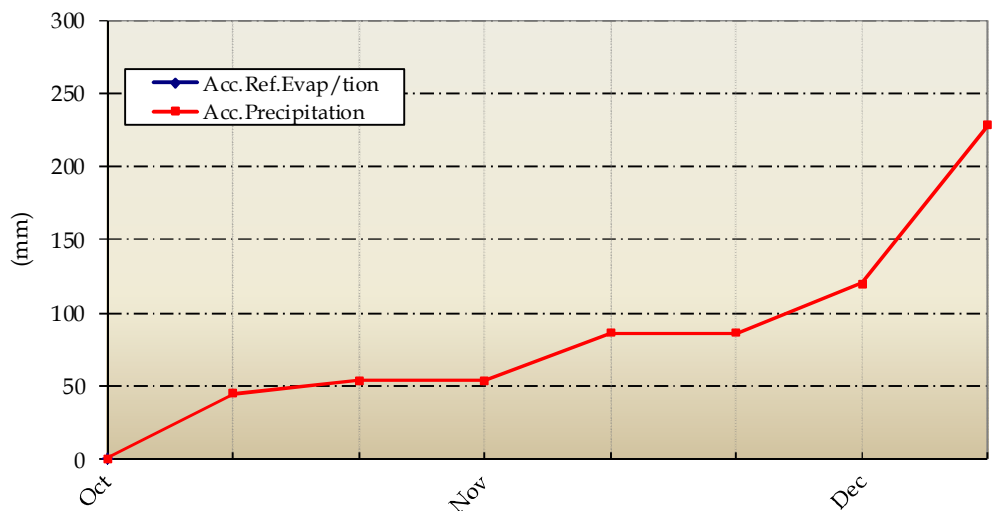
Tanagra

1st 10-day period (1-10/12/2025)		1	2	3	4	5	6	7	8	9	10	Mean Value or Sum	Previous Year Value	Past Years Mean Value
Temperature	Max	17.4	16.6	17.2	16.5	12.6	17.4	13.1	14.6	13.4	16.4	15.5	16.0	14.4
	Min	5.6	4.4	7.4	12.0	11.4	10.2	8.2	8.9	7.2	5.0	8.0	8.9	6.5
Relative Humidity	Max	97	96	97	99	100	97	99	99	94	97	98	96	93
	Min	40	55	61	88	67	52	65	75	73	53	63	59	53
Soil Temperature at 10 cm	06 UTC	-	-	-	-	-	-	-	-	-	-	-	-	-
	12 UTC	-	-	-	-	-	-	-	-	-	-	-	-	-
Sunshine Duration		11.4	7.1	1.1	0.0	0.2	7.1	0.0	1.1	1.0	6.4	3.5	2.4	4.3
Precipitation					25.9	68.9	0.7	12.0	0.9			108.4	48.0	23.2
Evaporation		-	-	-	-	-	-	-	-	-	-	-	-	23.8
Growing Degrees	5	6.5	5.5	7.3	9.3	7.0	8.8	5.7	6.8	5.3	5.7	67.8	74.5	47.2
	10	1.5	0.5	2.3	4.3	2.0	3.8	0.7	1.8	0.3	0.7	17.8	24.5	12.2

1st 10-day period (1-10/12/2025)		Previous Year Value	Past Years Mean Value
Reference Evapotranspiration	-	-	
Precipitation - Reference Evapotranspiration	-	-	
Number of Rainy Days	5.0	7.0	3.2
Number of Dry Days	3.0	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



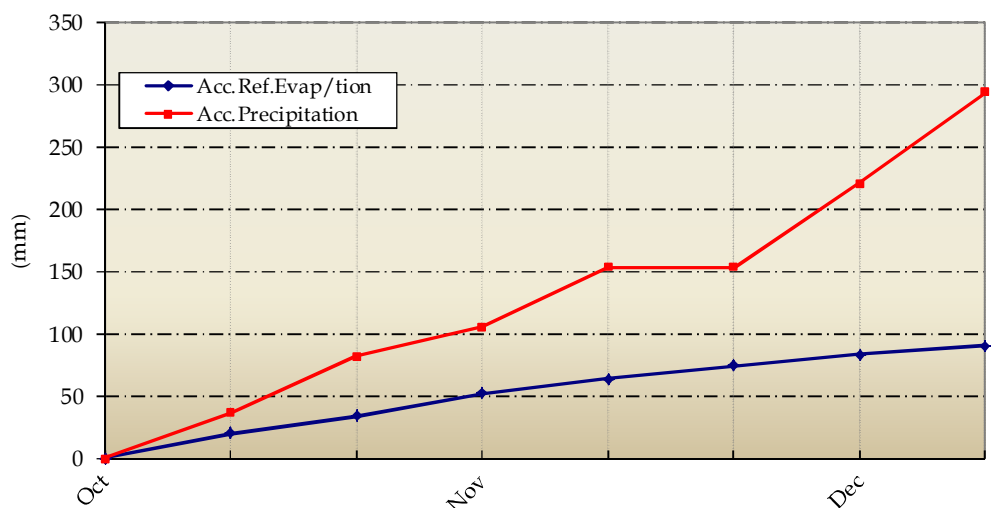
Tripoli

1st 10-day period (1-10/12/2025)		1	2	3	4	5	6	7	8	9	10	Mean Value or Sum	Previous Year Value	Past Years Mean Value
Temperature	Max	14.8	14.3	11.1	10.6	9.7	13.6	15.2	13.3	13.7	15.6	13.2	12.4	12.1
	Min	1.7	-1.0	4.3	7.9	8.4	5.8	5.7	3.4	3.5	-0.8	3.9	6.6	2.3
Relative Humidity	Max	99	100	98	98	98	95	99	100	99	100	99	96	99
	Min	48	51	80	94	78	59	54	63	52	38	62	69	57
Soil Temperature at 10 cm	06 UTC	-	-	-	-	-	-	-	-	-	-	-	-	7.2
	12 UTC	-	-	-	-	-	-	-	-	-	-	-	-	8.7
Sunshine Duration		7.1	3.8	0.0	0.0	0.0	3.3	4.4	4.4	6.3	5.6	3.5	1.8	4.6
Precipitation			0.0	6.5	34.0	28.1	0.2	3.7	0.0		0.0	72.5	66.6	24.8
Evaporation		-	-	-	-	-	-	-	-	-	-	-	-	39.5
Growing Degrees	5	3.3	1.7	2.7	4.3	4.1	4.7	5.5	3.4	3.6	2.4	35.4	44.8	21.9
	10	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.5	3.8	2.5

1st 10-day period (1-10/12/2025)		Previous Year Value	Past Years Mean Value
Reference Evapotranspiration	6.6	6.9	5.3
Precipitation - Reference Evapotranspiration	65.9	59.7	19.5
Number of Rainy Days	5.0	9.0	3.4
Number of Dry Days	2.0	0.0	-

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_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.

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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