



AGROMETEOROLOGICAL BULLETIN

*May 2025
3rd 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



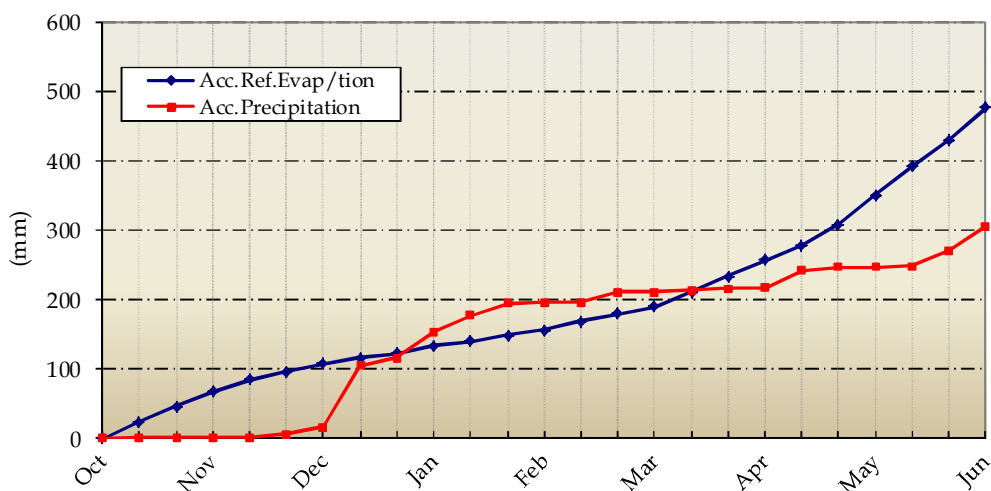
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www.hnms.gr
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3rd 10-day period (21-31/05/2025)		21	22	23	24	25	26	27	28	29	20	31	Mean Value or Sum	Previous Year Value	Past Years Mean Value
Temperature	Max	25.2	26.0	24.4	31.0	24.4	20.0	23.2	24.8	24.4	26.0	25.6	25.0	26.0	24.7
	Min	10.6	14.2	13.0	15.0	18.0	12.4	10.4	11.4	15.0	15.6	18.0	14.0	13.2	13.8
Relative Humidity	Max	88	93	87	87	93	95	89	93	80	85	85	89	83	87
	Min	46	49	57	32	58	62	45	40	41	48	39	47	43	48
Soil Temperature at 10 cm	06 UTC	19.6	20.6	21.0	22.0	23.0	20.0	19.3	19.6	21.2	20.6	20.5	20.7	21.8	20.4
	12 UTC	23.2	23.6	24.4	25.8	23.6	22.6	22.4	23.2	23.0	23.0	23.0	23.4	25.7	24.2
Sunshine Duration		12.1	9.1	12.3	12.0	2.9	10.6	12.7	10.7	5.8	2.7	10.4	9.2	11.8	9.5
Precipitation						9.2	24.9				0.2		34.3	1.9	15.6
Evaporation		5.8	6.0	5.5	4.5	6.1	6.2	4.8	5.4	4.0	4.6	7.2	60.1	79.7	79.6
Growing Degrees	5	12.9	15.1	13.7	18.0	16.2	11.2	11.8	13.1	14.7	15.8	16.8	159.3	160.5	145.0
	10	7.9	10.1	8.7	13.0	11.2	6.2	6.8	8.1	9.7	10.8	11.8	104.3	105.5	94.0

3rd 10-day period (21-31/05/2025)		Previous Year Value	Past Years Mean Value
Reference Evapotranspiration	47.1	54.1	40.2
Precipitation - Reference Evapotranspiration	-12.8	-52.2	-24.6
Number of Rainy Days	3.0	1.0	2.3
Number of Dry Days	6.0	3.0	-

Diagram of Accumulated Precipitation and Accumulated Reference Evapotranspiration



Agrometeorological Data

May 2025

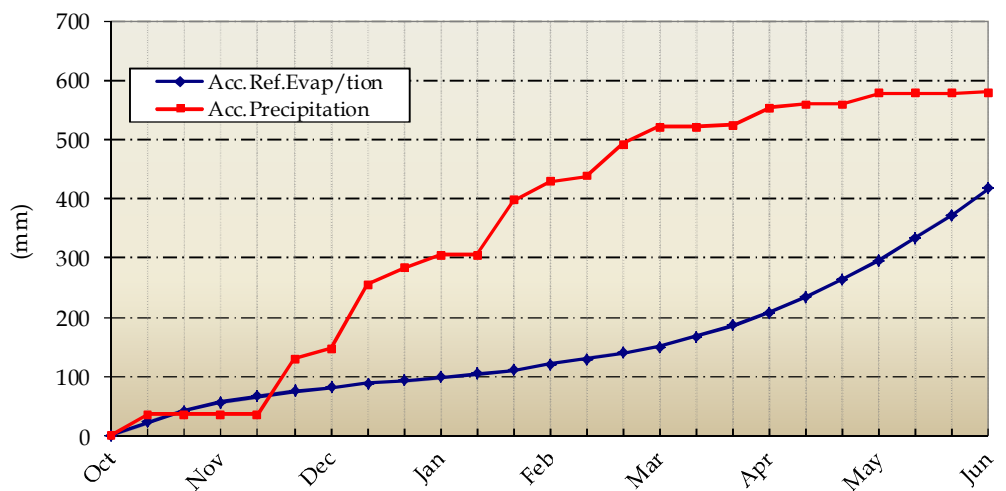
Andravida

3rd 10-day period (21-31/05/2025)		21	22	23	24	25	26	27	28	29	20	31	Mean Value or Sum	Previous Year Value	Past Years Mean Value
Temperature	Max	27.2	25.1	28.3	29.4	23.8	23.0	25.6	24.9	23.3	26.9	27.3	25.9	27.1	25.7
	Min	14.2	16.9	14.5	15.3	16.1	14.1	11.6	12.3	14.7	16.0	15.0	14.6	14.6	14.6
Relative Humidity	Max	100	99	99	99	100	92	97	98	100	100	86	97	94	91
	Min	27	27	39	40	57	42	35	47	61	40	39	41	39	42
Soil Temperature at 10 cm	06 UTC	-	-	-	-	-	-	-	-	-	-	-	-	-	22.1
	12 UTC	-	-	-	-	-	-	-	-	-	-	-	-	-	26.8
Sunshine Duration		10.8	11.2	7.9	9.2	4.0	13.3	13.1	13.1	3.3	8.7	12.3	9.7	10.2	10.1
Precipitation			0.0							0.0	2.2		2.2	1.0	3.9
Evaporation		-	-	-	-	-	-	-	-	-	-	-	-	-	73.4
Growing Degrees	5	15.7	16.0	16.4	17.4	15.0	13.6	13.6	13.6	14.0	16.5	16.2	167.8	174.6	138.7
	10	10.7	11.0	11.4	12.4	10.0	8.6	8.6	8.6	9.0	11.5	11.2	112.8	119.6	93.2

3rd 10-day period (21-31/05/2025)	Previous Year Value	Past Years Mean Value	
Reference Evapotranspiration	44.1	45.5	43.0
Precipitation - Reference Evapotranspiration	-41.9	-44.5	-39.1
Number of Rainy Days	1.0	1.0	0.8
Number of Dry Days	13.0	7.0	-

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

Diagram of Accumulated Precipitation and Accumulated Reference Evapotranspiration

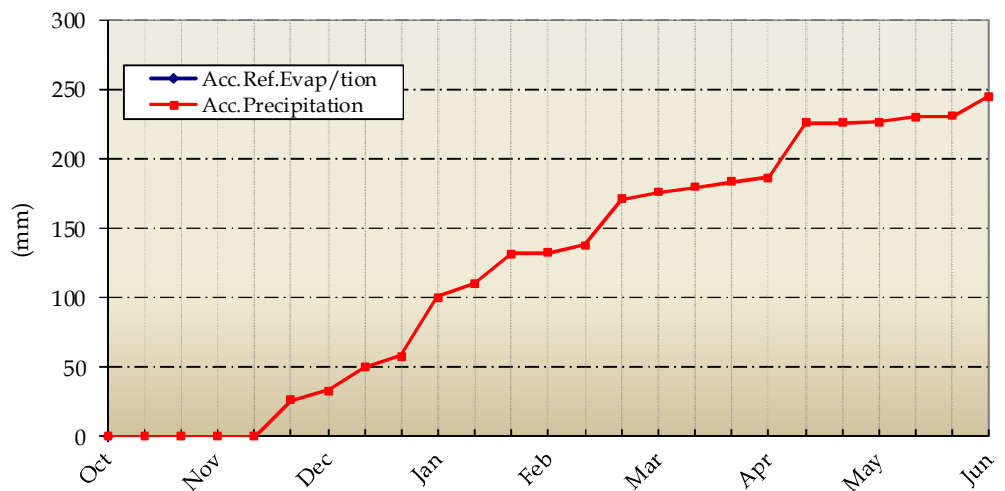


3rd 10-day period (21-31/05/2025)		21	22	23	24	25	26	27	28	29	20	31	Mean Value or Sum	Previous Year Value	Past Years Mean Value
Temperature	Max	25.4	29.0	26.8	37.4	33.8	22.0	24.0	24.0	24.0	21.0	23.2	26.4	24.9	24.8
	Min	15.8	16.2	21.6	21.0	30.0	20.4	14.2	15.6	15.8	18.6	16.6	18.7	17.9	16.6
Relative Humidity	Max	96	73	74	49	89	82	80	86	91	92	92	82	83	84
	Min	55	39	50	27	31	56	58	46	64	61	72	51	50	54
Soil Temperature at 10 cm	06 UTC	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	12 UTC	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sunshine Duration		12.0	12.2	8.8	8.5	0.0	7.0	12.9	11.7	10.7	0.0	7.0	8.3	10.6	10.1
Precipitation												14.3	14.3	1.7	3.7
Evaporation		5.0	3.6	8.7	16.5	6.4	5.9	4.7	6.2	4.4	1.0	5.4	67.8	62.6	55.9
Growing Degrees	5	15.6	17.6	19.2	24.2	26.9	16.2	14.1	14.8	14.9	14.8	14.9	193.2	180.5	156.6
	10	10.6	12.6	14.2	19.2	21.9	11.2	9.1	9.8	9.9	9.8	9.9	138.2	125.5	106.9

3rd 10-day period (21-31/05/2025)	Previous Year Value	Past Years Mean Value
Reference Evapotranspiration	-	-
Precipitation - Reference Evapotranspiration	-	-
Number of Rainy Days	1.0	3.0
Number of Dry Days	17.0	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

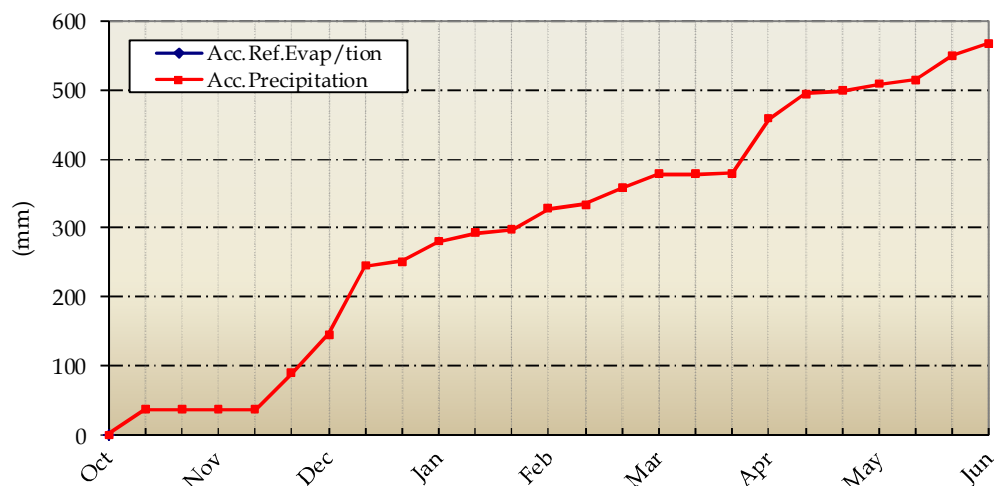


3rd 10-day period (21-31/05/2025)		21	22	23	24	25	26	27	28	29	20	31	Mean Value or Sum	Previous Year Value	Past Years Mean Value
Temperature	Max	24.0	26.1	23.6	27.9	21.5	23.3	25.9	24.4	22.5	23.7	25.6	24.4	26.2	24.5
	Min	9.9	13.0	7.7	9.9	13.2	4.9	5.3	15.0	7.1	12.6	9.2	9.8	9.5	10.9
Relative Humidity	Max	100	100	100	100	100	100	88	100	100	100	100	99	100	95
	Min	35	39	46	37	42	27	37	31	45	33	33	37	34	46
Soil Temperature at 10 cm	06 UTC	-	-	-	-	-	-	-	-	-	-	-	-	-	17.4
	12 UTC	-	-	-	-	-	-	-	-	-	-	-	-	-	19.9
Sunshine Duration		3.4	8.9	4.4	6.9	3.8	13.0	12.2	9.9	1.0	5.3	8.8	7.1	9.2	7.8
Precipitation		0.3	0.2	5.4	0.1	0.2				10.2	1.0	0.2	17.6	12.6	21.5
Evaporation		-	-	-	-	-	-	-	-	-	-	-	-	-	
Growing Degrees	5	12.0	14.6	10.7	13.9	12.4	9.1	10.6	14.7	9.8	13.2	12.4	133.2	141.1	119.1
	10	7.0	9.6	5.7	8.9	7.4	4.1	5.6	9.7	4.8	8.2	7.4	78.2	86.1	72.8

3rd 10-day period (21-31/05/2025)	Previous Year Value	Past Years Mean Value
Reference Evapotranspiration	-	34.6
Precipitation - Reference Evapotranspiration	-	-13.1
Number of Rainy Days	8.0	3.0
Number of Dry Days	3.0	9.0

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

Diagram of Accumulated Precipitation and Accumulated Reference Evapotranspiration



Agrometeorological Data

May 2025

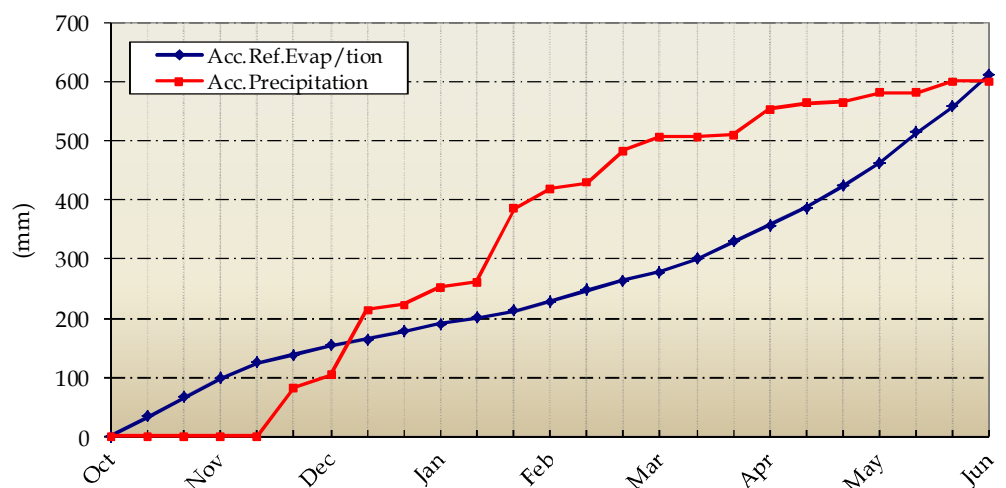
Kalamata

3rd 10-day period (21-31/05/2025)		21	22	23	24	25	26	27	28	29	20	31	Mean Value or Sum	Previous Year Value	Past Years Mean Value
Temperature	Max	25.1	26.6	30.2	29.1	26.2	27.0	26.0	28.3	26.2	25.5	29.3	27.2	28.6	26.2
	Min	12.2	13.8	13.2	14.2	17.3	13.4	11.7	13.2	14.4	15.2	13.8	13.9	14.3	13.9
Relative Humidity	Max	97	97	97	96	97	92	91	91	94	90	91	94	88	92
	Min	41	41	21	32	51	23	32	40	47	42	31	36	32	41
Soil Temperature at 10 cm	06 UTC	-	-	-	-	-	-	-	-	-	-	-	-	-	20.3
	12 UTC	-	-	-	-	-	-	-	-	-	-	-	-	-	23.0
Sunshine Duration		11.7	12.1	6.5	9.9	3.5	12.8	12.9	10.7	7.5	3.4	7.9	9.0	10.1	9.7
Precipitation				0.2		0.8				0.0	0.0		1.0	2.2	7.6
Evaporation		-	-	-	-	-	-	-	-	-	-	-	-	-	57.6
Growing Degrees	5	13.7	15.2	16.7	16.7	16.8	15.2	13.9	15.8	15.3	15.4	16.6	171.0	181.1	151.1
	10	8.7	10.2	11.7	11.7	11.8	10.2	8.9	10.8	10.3	10.4	11.6	116.0	126.1	101.3

3rd 10-day period (21-31/05/2025)		Previous Year Value	Past Years Mean Value
Reference Evapotranspiration	54.3	-	45.9
Precipitation - Reference Evapotranspiration	-53.3	-	-38.3
Number of Rainy Days	2.0	4.0	1.5
Number of Dry Days	5.0	10.0	-

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

Diagram of Accumulated Precipitation and Accumulated Reference Evapotranspiration

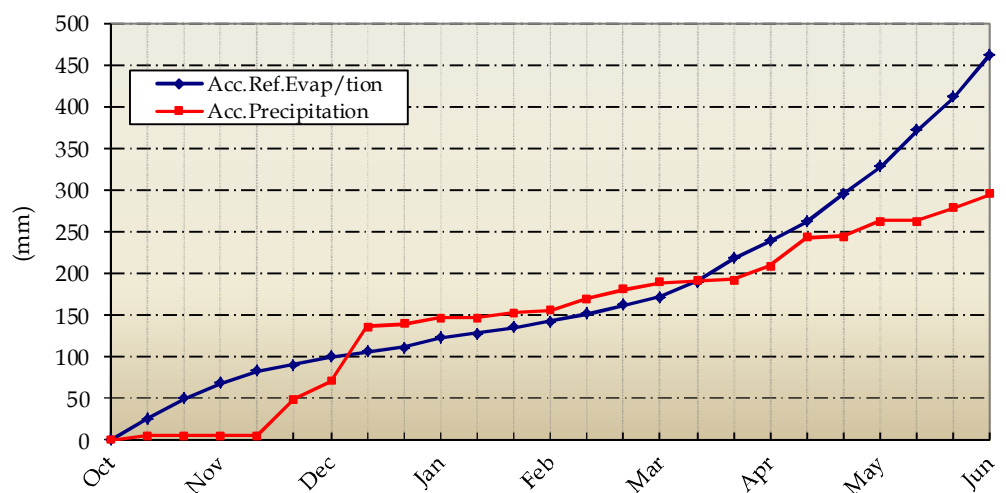


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3rd 10-day period (21-31/05/2025)		21	22	23	24	25	26	27	28	29	20	31	Mean Value or Sum	Previous Year Value	Past Years Mean Value
Temperature	Max	29.9	31.4	31.0	30.8	22.8	26.4	30.2	28.0	28.6	26.4	25.4	28.3	30.2	28.0
	Min	11.2	14.0	12.0	13.0	13.0	6.8	9.0	15.2	11.2	16.0	15.6	12.5	13.1	13.5
Relative Humidity	Max	98	99	95	100	100	100	100	100	100	83	100	98	93	89
	Min	29	28	30	33	49	25	23	27	23	38	37	31	24	31
Soil Temperature at 10 cm	06 UTC	-	-	-	-	-	-	-	-	-	-	-	-	-	20.6
	12 UTC	-	-	-	-	-	-	-	-	-	-	-	-	-	22.2
Sunshine Duration		8.1	11.4	6.2	9.4	0.5	12.1	11.4	10.2	8.2	4.9	5.6	8.0	10.2	8.7
Precipitation				0.0		13.2	0.1		0.1		0.3	2.8	16.5	0.7	15.6
Evaporation		-	-	-	-	-	-	-	-	-	-	-	-	-	84.1
Growing Degrees	5	15.6	17.7	16.5	16.9	12.9	11.6	14.6	16.6	14.9	16.2	15.5	169.0	183.2	161.9
	10	10.6	12.7	11.5	11.9	7.9	6.6	9.6	11.6	9.9	11.2	10.5	114.0	128.2	110.9

3rd 10-day period (21-31/05/2025)		Previous Year Value	Past Years Mean Value
Reference Evapotranspiration	51.4	60.1	50.9
Precipitation - Reference Evapotranspiration	-34.9	-59.4	-35.3
Number of Rainy Days	5.0	1.0	2.9
Number of Dry Days	7.0	12.0	-

Diagram of Accumulated Precipitation and Accumulated Reference Evapotranspiration

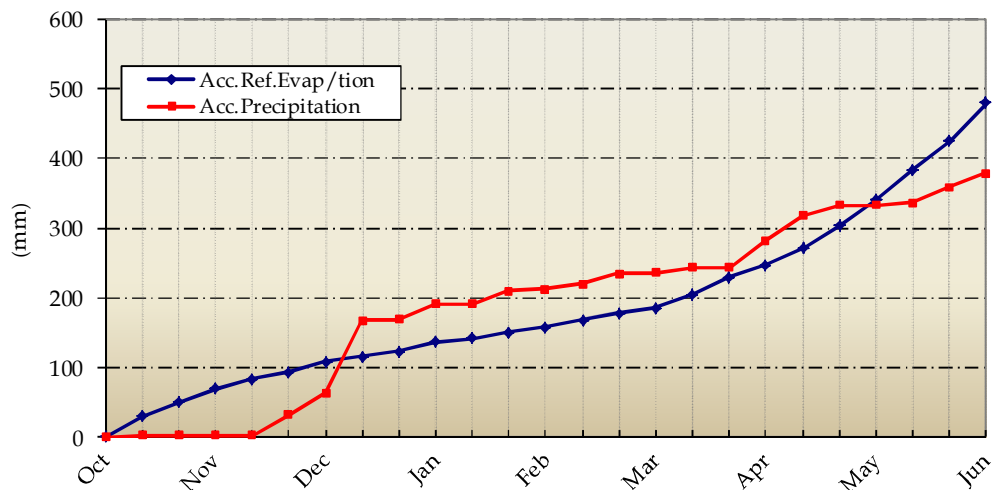


3rd 10-day period (21-31/05/2025)		21	22	23	24	25	26	27	28	29	20	31	Mean Value or Sum	Previous Year Value	Past Years Mean Value
Temperature	Max	23.4	27.4	28.0	28.0	22.6	23.6	26.8	25.3	27.4	24.2	25.2	25.6	27.5	26.3
	Min	13.6	15.0	14.6	17.6	13.0	13.0	18.2	17.9	12.1	16.8	18.2	15.5	15.5	15.3
Relative Humidity	Max	100	100	100	82	100	65	67	65	86	83	85	85	89	83
	Min	57	46	38	43	67	34	34	38	32	49	43	44	35	37
Soil Temperature at 10 cm	06 UTC	19.0	18.4	19.8	21.0	20.6	16.4	18.2	19.2	19.4	20.6	20.4	19.4	21.0	21.5
	12 UTC	23.2	23.2	24.0	25.2	21.0	25.4	25.2	22.8	25.8	24.0	24.4	24.0	24.8	26.5
Sunshine Duration		3.5	11.9	9.4	10.9	1.2	13.6	12.8	12.8	12.8	7.1	6.0	9.3	11.5	9.0
Precipitation			4.0			13.6					0.3	1.4	19.3	4.4	13.8
Evaporation		-	-	-	-	-	-	-	-	-	-	-	-	-	79.3
Growing Degrees	5	13.5	16.2	16.3	17.8	12.8	13.3	17.5	16.6	14.8	15.5	16.7	171.0	181.1	157.4
	10	8.5	11.2	11.3	12.8	7.8	8.3	12.5	11.6	9.8	10.5	11.7	116.0	126.1	107.7

3rd 10-day period (21-31/05/2025)		Previous Year Value	Past Years Mean Value
Reference Evapotranspiration	55.4	61.7	42.2
Precipitation - Reference Evapotranspiration	-36.1	-57.3	-28.4
Number of Rainy Days	4.0	1.0	2.7
Number of Dry Days	4.0	9.0	-

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

Diagram of Accumulated Precipitation and Accumulated Reference Evapotranspiration



Agrometeorological Data

May 2025

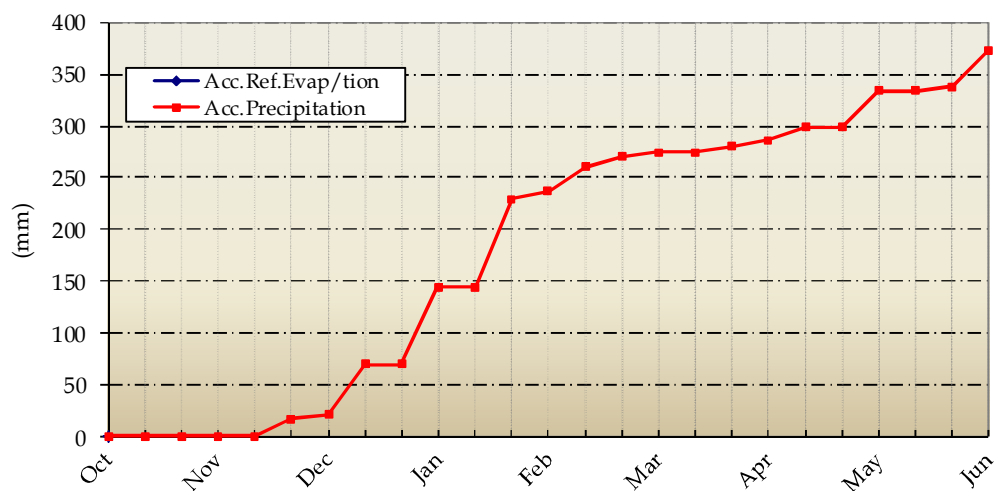
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3rd 10-day period (21-31/05/2025)		21	22	23	24	25	26	27	28	29	20	31	Mean Value or Sum	Previous Year Value	Past Years Mean Value
Temperature	Max	29.1	30.6	31.2	31.7	23.8	23.6	27.8	26.0	26.6	21.4	22.9	26.8	27.5	26.6
	Min	13.2	13.0	13.0	14.5	17.4	11.0	10.0	14.8	13.0	14.6	15.7	13.7	14.2	14.0
Relative Humidity	Max	76	75	88	76	99	94	83	81	86	93	97	86	71	85
	Min	26	20	20	20	50	21	23	25	21	47	42	29	25	35
Soil Temperature at 10 cm	06 UTC	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	12 UTC	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sunshine Duration		11.6	9.4	8.1	8.7	2.4	13.4	12.8	6.8	9.4	4.4	8.4	8.7	10.8	9.2
Precipitation			0.0			0.4	23.9		0.5		6.2	3.7	34.7	0.6	12.4
Evaporation		-	-	-	-	-	-	-	-	-	-	-	-	-	65.5
Growing Degrees	5	16.2	16.8	17.1	18.1	15.6	12.3	13.9	15.4	14.8	13.0	14.3	167.5	174.4	144.3
	10	11.2	11.8	12.1	13.1	10.6	7.3	8.9	10.4	9.8	8.0	9.3	112.5	119.4	97.5

3rd 10-day period (21-31/05/2025)		Previous Year Value	Past Years Mean Value
Reference Evapotranspiration	-	-	
Precipitation - Reference Evapotranspiration	-	-	
Number of Rainy Days	5.0	1.0	1.9
Number of Dry Days	8.0	15.0	-

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

Diagram of Accumulated Precipitation and Accumulated Reference Evapotranspiration

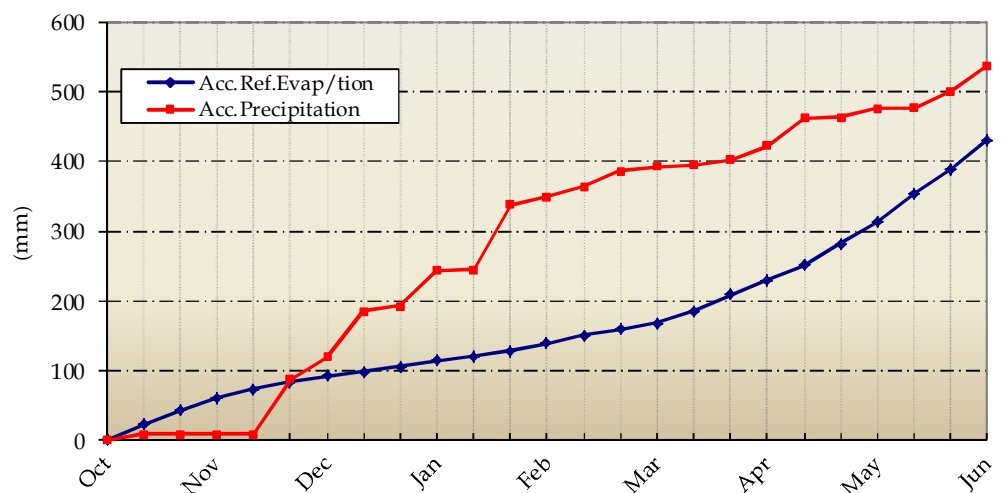


3rd 10-day period (21-31/05/2025)		21	22	23	24	25	26	27	28	29	20	31	Mean Value or Sum	Previous Year Value	Past Years Mean Value
Temperature	Max	27.4	25.4	28.1	28.4	23.5	23.6	24.8	23.4	22.9	20.5	20.7	24.4	25.2	24.7
	Min	9.2	8.6	8.2	9.4	12.5	7.6	5.5	7.7	6.8	11.3	12.8	9.1	8.9	9.7
Relative Humidity	Max	96	93	90	94	95	97	92	98	99	97	84	94	91	88
	Min	17	26	25	23	40	28	25	30	33	41	46	30	21	34
Soil Temperature at 10 cm	06 UTC	-	-	-	-	-	-	-	-	-	-	-	-	-	19.1
	12 UTC	-	-	-	-	-	-	-	-	-	-	-	-	-	23.4
Sunshine Duration		11.0	12.1	7.0	10.0	1.8	13.1	12.1	5.9	5.4	6.2	5.6	8.2	10.0	9.2
Precipitation						1.4			8.9	25.6	0.9	0.1	36.9	43.5	13.7
Evaporation		-	-	-	-	-	-	-	-	-	-	-	-	-	49.7
Growing Degrees	5	13.3	12.0	13.2	13.9	13.0	10.6	10.2	10.6	9.9	10.9	11.8	129.2	132.3	115.5
	10	8.3	7.0	8.2	8.9	8.0	5.6	5.2	5.6	4.9	5.9	6.8	74.2	77.3	68.7

3rd 10-day period (21-31/05/2025)		Previous Year Value	Past Years Mean Value
Reference Evapotranspiration	42.7	-	27.7
Precipitation - Reference Evapotranspiration	-5.8	-	-14.0
Number of Rainy Days	5.0	4.0	2.5
Number of Dry Days	8.0	9.0	-

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)

UTC (Universal Time coordinates) in Greece

- ◆ Winter : Time(UTC) = Local time - 2
- ◆ Summer : Time(UTC) = Local time - 3

Mesurements Units

- ◆ Temperature : °C
- ◆ Relative Humidity : %
- ◆ Soil Temperature : °C
- ◆ Sunshine Duration : Hours
- ◆ Precipitation : mm
- ◆ Evaporation (Pan) : mm
- ◆ Growing Degrees : °C

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