

## Supplementary material

**Tabela S1.** Climatic variables for the reference period (1991-2020) and the research period (2010-2023 and January-May 2024) and previous time series 1981-2010, 1971-2000, and 1961-1990, for the MMS Rimski Šančevi.

Months Period	Mean air temperature (°C)												$\bar{x}$
	1	2	3	4	5	6	7	8	9	10	11	12	
$\bar{x}$ 2024	2.7	9.7	11.5	15.3	18.9	-	-	-	-	-	-	-	-
$\bar{x}$ 2010/2023	1.5	3.4	7.5	12.7	17.2	21.7	23.5	23.3	18.2	12.6	7.8	3.0	12.7
$\bar{x}$ 91/2020	0.7	2.3	7.0	12.4	17.3	20.9	22.5	22.4	17.2	12.0	6.8	1.8	11.9
$\bar{x}$ 81/2010	0.2	1.6	6.4	11.8	17.3	20.1	21.9	21.6	16.9	11.8	5.9	1.5	11.4
$\bar{x}$ 71/2000	0.1	1.8	6.3	11.3	16.8	19.7	21.3	21.0	16.8	11.3	5.4	1.6	11.1
$\bar{x}$ 61/1990	-1.0	1.5	6.0	11.4	16.6	19.6	21.1	20.6	16.9	11.5	5.9	1.2	10.9
	Mean maximum air temperature (°C)												
	1	2	3	4	5	6	7	8	9	10	11	12	
$\bar{x}$ 2024	7.3	15.7	17.6	22.5	24.9	-	-	-	-	-	-	-	-
$\bar{x}$ 2010/2023	5.1	8.0	13.3	18.8	22.8	27.5	30.0	30.2	25.2	18.9	12.5	6.7	18.3
$\bar{x}$ 91/2020	4.3	6.9	12.7	18.4	23.1	26.6	28.8	29.2	23.9	18.3	11.5	5.1	17.4
$\bar{x}$ 81/2010	3.7	6.1	12.0	17.7	23.0	25.7	28.1	28.3	23.6	18.0	10.5	4.9	16.8
$\bar{x}$ 71/2000	3.6	6.3	12.0	17.0	22.4	25.3	27.4	27.6	23.5	17.5	9.7	5.0	16.5
$\bar{x}$ 61/1990	2.5	5.7	11.5	17.2	22.2	25.1	27.2	27.2	23.7	18.0	10.4	4.5	16.3
	Mean minimum air temperature (°C)												
	1	2	3	4	5	6	7	8	9	10	11	12	
$\bar{x}$ 2024	-1.1	4.8	5.6	8.0	12.9	-	-	-	-	-	-	-	-
$\bar{x}$ 2010/2023	-1.7	-0.6	2.3	6.7	11.6	15.7	16.9	16.6	12.7	7.7	4.1	-0.1	7.7
$\bar{x}$ 91/2020	-2.5	-1.7	1.9	6.6	11.4	14.9	16.1	16.1	11.8	7.3	3.2	-1.2	7.0
$\bar{x}$ 81/2010	-3.1	-2.4	1.5	6.2	11.3	14.1	15.5	15.3	11.4	6.9	2.2	-1.5	6.5
$\bar{x}$ 71/2000	-3.1	-2.0	1.3	5.8	10.9	13.8	14.9	14.8	11.2	6.4	1.8	-1.5	6.2
$\bar{x}$ 61/1990	-4.5	-2.3	1.2	5.8	10.6	13.6	14.7	14.2	11.2	6.3	2.2	-1.9	5.9
	Mean relative humidity (%)												
	1	2	3	4	5	6	7	8	9	10	11	12	

<i>X</i> 2024	83.4	68.6	67.4	65.5	70.2	-	-	-	-	-	-	-	-
<i>X</i> 2010/2023	86.3	81.5	71.1	67.4	70.2	69.0	66.2	66.1	71.2	77.6	83.7	87.0	74.8
<i>X</i> 91/2020	85.7	80.5	71.1	66.8	68.2	69.8	68.3	67.5	72.6	77.3	82.4	86.8	74.8
<i>X</i> 81/2010	85.1	79.2	70.9	67.0	66.4	69.2	67.5	67.6	72.3	75.6	82.1	85.7	74.0
<i>X</i> 71/2000	85.0	79.4	70.8	68.1	67.1	69.0	67.5	68.0	72.6	75.8	83.0	85.6	74.3
<i>X</i> 61/1990	85.7	81.2	73.1	68.8	68.2	69.9	67.7	69.0	72.4	74.8	83.1	86.4	75.0
Sums and mean precipitation sums (mm)													
Period	1	2	3	4	5	6	7	8	9	10	11	12	Σ
2024	36.7	9.1	15.0	21.5	78.0	-	-	-	-	-	-	-	-
2010/2023	42.7	46.1	38.7	49.4	98.1	80.5	59.5	64.3	58.3	52.3	45.9	44.2	679.9
<i>X</i> 91/2020	39.0	36.4	38.7	46.6	78.2	93.0	69.5	59.7	58.9	58.6	51.5	49.1	679.1
<i>X</i> 81/2010	39.1	31.4	42.5	49.2	63.8	92.1	65.7	57.5	53.8	52.7	53.8	48.8	650.5
<i>X</i> 71/2000	36.3	29.2	38.9	47.9	59.8	84.2	65.2	58.8	43.0	48.4	49.8	43.4	604.7
<i>X</i> 61/1990	37.7	34.7	40.7	47.6	57.0	82.5	61.2	55.3	36.1	35.2	45.9	46.0	580.0
Sums and mean of sunshine duration (h)													
2024	99.1	130.7	172.3	275.9	278.7	-	-	-	-	-	-	-	-
2010/2023	71.7	96.2	171.3	214.0	242.1	288.6	333.4	313.4	214.5	166.4	94.3	64.5	2270.5
<i>X</i> 91/2020	67.9	100.6	164.1	205.8	257.3	284.8	316.2	299.3	207.1	161.2	94.7	59.4	2218.4
<i>X</i> 81/2010	64.8	99.0	154.9	190.1	250.8	269.1	303.6	286.2	205.7	160.6	92.4	58.4	2135.6
<i>X</i> 71/2000	67.1	98.9	154.2	178.6	235.6	256.9	287.9	274.7	205.7	158.4	84.3	63.4	2065.5
<i>X</i> 61/1990	68.3	88.6	146.0	175.2	228.0	249.4	289.7	271.4	207.2	169.7	83.2	57.3	2034.1
Sums and average number of days with precipitation >= 0.1 mm													
2024	13	5	11	5	15	-	-	-	-	-	-	-	-
2010/2023	13.6	11.2	10.3	11.1	14.0	10.2	8.6	7.4	9.6	10.1	9.6	12.4	128.0
<i>X</i> 91/2020	12.1	10.5	10.6	11.2	13.5	11.2	10.0	8.1	10.1	10.1	10.8	12.9	131.1
<i>X</i> 81/2010	11.8	10.0	11.0	12.1	12.9	12.2	9.9	8.7	9.9	9.0	11.4	13.2	132.1
<i>X</i> 71/2000	10.9	9.6	10.9	12.5	12.7	12.7	10.4	8.9	9.4	9.0	11.6	12.0	130.6
<i>X</i> 61/1990	12.0	11.3	11.7	12.1	12.1	13.0	9.8	8.7	8.6	7.5	11.8	12.9	131.4
Sums and average number of days with precipitation >=1.0 mm													
2024	9	4	4	4	10	-	-	-	-	-	-	-	-
2010/2023	7.8	7.7	6.6	7.6	11.1	7.4	5.4	5.3	6.6	6.6	6.6	6.9	85.7
<i>X</i> 91/2020	6.8	6.7	6.8	7.3	9.5	8.2	6.7	6.0	7.2	6.8	7.0	7.4	86.4

X	81/2010	7.1	5.8	6.9	7.9	8.5	9.1	6.7	6.4	7.0	6.4	7.4	8.0	87.2
X	71/2000	6.8	5.4	6.8	8.3	8.3	9.3	6.9	6.7	6.1	6.0	7.7	7.2	85.4
X	61/1990	7.4	6.4	7.5	8.0	8.2	9.3	6.8	6.7	5.5	4.9	7.8	8.4	86.8
Sums and average number of summer days (Tmax ≥25°C)														
2024		0	0	2	13	17	-	-	-	-	-	-	-	-
2010/2023		0.0	0.0	0.2	3.4	11.4	21.3	27.9	27.3	15.9	5.1	0.0	0.0	112.4
X	91/2020	0.0	0.0	0.2	2.8	11.9	19.6	25.9	26.2	13.0	3.8	0.0	0.0	103.4
X	81/2010	0.0	0.0	0.2	2.0	11.4	17.4	24.4	24.7	12.3	2.8	0.0	0.0	95.3
X	71/2000	0.0	0.0	0.4	2.0	10.3	16.5	22.9	23.1	12.1	2.6	0.0	0.0	89.8
X	61/1990	0.0	0.0	0.3	2.1	9.7	16.3	22.5	22.0	12.6	2.9	0.1	0.0	88.6
Sums and average number of tropical days (Tmax ≥30°C)														
2024		0	0	0	1	0	-	-	-	-	-	-	-	-
2010/2023		0.0	0.0	0.0	0.3	1.1	8.9	15.8	16.3	5.7	0.0	0.0	0.0	48.1
X	91/2020	0.0	0.0	0.0	0.2	1.4	7.5	12.6	13.5	3.2	0.0	0.0	0.0	38.4
X	81/2010	0.0	0.0	0.0	0.0	1.3	5.6	11.2	11.2	2.2	0.0	0.0	0.0	31.6
X	71/2000	0.0	0.0	0.0	0.0	0.7	4.2	8.9	9.2	2.1	0.0	0.0	0.0	25.1
X	61/1990	0.0	0.0	0.0	0.0	0.8	4.1	8.3	8.4	2.5	0.0	0.0	0.0	24.0
Sums and average number of tropical nights (Tmin ≥20°C)														
2024		0	0	0	0	0	-	-	-	-	-	-	-	-
2010/2023		0.0	0.0	0.0	0.0	0.0	1.9	3.8	2.9	0.1	0.0	0.0	0.0	8.6
X	91/2020	0.0	0.0	0.0	0.0	0.0	1.1	1.7	1.9	0.1	0.0	0.0	0.0	4.8
X	81/2010	0.0	0.0	0.0	0.0	0.0	0.7	1.1	1.2	0.0	0.0	0.0	0.0	3.0
X	71/2000	0.0	0.0	0.0	0.0	0.0	0.2	0.6	1.0	0.0	0.0	0.0	0.0	1.7
X	61/1990	0.0	0.0	0.0	0.0	0.0	0.1	0.5	0.5	0.0	0.0	0.0	0.0	1.2
Sums and average number of frosty days (Tmin <0°C)														
2024		21	2	2	0	0	-	-	-	-	-	-	-	-
2010/2023		18.7	13.8	9.2	1.4	0.0	0.0	0.0	0.0	0.0	1.0	4.6	14.7	63.4
X	91/2020	20.9	16.5	10.0	1.3	0.0	0.0	0.0	0.0	0.0	1.6	7.1	17.3	74.8
X	81/2010	22.1	18.2	10.3	1.5	0.0	0.0	0.0	0.0	0.0	2.1	9.2	17.8	81.3
X	71/2000	22.5	17.6	10.5	1.6	0.0	0.0	0.0	0.0	0.0	2.4	10.0	17.5	82.2
X	61/1990	23.9	17.8	10.6	1.4	0.0	0.0	0.0	0.0	0.1	2.1	9.2	18.6	83.7
Sums and average number of ice days (Tmax <0°C)														

2024	3	0	0	0	0	-	-	-	-	-	-	-	-
2010/2023	5.4	2.4	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	2.9	11.2
$\bar{x}$ 91/2020	20.9	16.5	10.0	1.3	0.0	0.0	0.0	0.0	0.0	1.6	7.1	17.3	74.8
$\bar{x}$ 81/2010	22.1	18.2	10.3	1.5	0.0	0.0	0.0	0.0	0.0	2.1	9.2	17.8	81.3
$\bar{x}$ 71/2000	22.5	17.6	10.5	1.6	0.0	0.0	0.0	0.0	0.0	2.4	10.0	17.5	82.2
$\bar{x}$ 61/1990	23.9	17.8	10.6	1.4	0.0	0.0	0.0	0.0	0.1	2.1	9.2	18.6	83.7

**Tabela S2.** Descriptive statistics and ANOVA of quantitative parameters at the population level of globe flowering ash

Stat. parameter	IL	IW	NFC	NS
Mean	8.27	9.70	4.53	423.56
Min	4.50	5.50	3.00	180.00
Max	12.00	16.00	8.00	700.00
Stand. dev.	1.42	1.88	0.94	120.67
Std.error	0.06	0.09	0.04	5.90
Coeff. var.	17.16	19.40	20.86	28.49
F	1.31	1.05	3.60	7.86
p-value	0.2471	0.4028	0.0033*	0.00*

\* Abbreviations: Inflorescens length-IL; Inflorescens width-IW; Number of flower clusters-NFC; Number of stamens-NS

\*\*Statistically significant differences at the population level ( $p < 0.05$ ).