PHYSIOLOGICAL PARTICULARITIES OF PORTULACA OLERACEA L. PLANTS

ARIAL 14, BOLD, CAPITALS, CENTERED

Author(s)First name FAMILY NAME¹, First nameFAMILY NAME² ARIAL 12, Bold, Align Text Right

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author email: author_email@gmail.com Arial 11 Align Text Right

antioxidants. ARIAL 12,

Corresponding author email: Arial, 11 point font, bold, small letters, alignment centered.

Abstract Arial 11, Bold, alignment left

Portulaca oleracea L., considered by many a weed, is in fact a plant with multiple food and medicinal values, and with a specific adaptation to stress conditions.

Grown in water supply option conditions, the plant has a C4 type metabolism, but in drought conditions, it uses the way of closing the stomata during the day, achieving a CAM type metabolism. The high values of the stomatal conductance recorded in the dark and the high contentof malic acid in the leaves especially in the morning, indicate this adaptation. Plants exposed to water stress also showed higher values of suction force and higher percentages of bound water. Arial 11, Italic, justified, no indentation, minimum 100 and maximum 250 words

Key words: purslane, photosinthesis, transpiration, stomatal conductance -Arial 10, Italic, no indentation, maximum 5 words

INTRODUCTION ARIAL 12 Bold, alignment left, at one space row down from the text.

Common purslane, Portulaca oleracea, is a highly variable, weedy plant in the (Portulacaceae) family with а wide distribution. Although it is likely native to North Africa, the Middle East, and the Indian subcontinent, it had reached North America by pre-Columbian times and was in Europe by the late 16 th century. It is now naturalized in most parts of the world, both tropical and temperate - equally at home in flower beds, cultivated fields, and roadsides or other disturbed or waste places. It has been grown for more than 4,000 years as a food and medicinal plant and is still cultivated in many places today. It is considered quite nutritious because it is unusually high in omega-3 fatty acids (found mostly in fish and flax seeds) and contains significant amounts of vitamins A C, calcium. and as well iron. and potassium and magnesium

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MATERIALS AND METHODS ARIAL 12	
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The experiments carried out between June	
and September 2021 aimed at knowing the	
physiological particularities of the	
Portulaca oleracea plants	
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DECLUTO AND DISCUSSIONS ADIAL 40	
RESULTS AND DISCUSSIONS ARIAL12	
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The total water content of leaves	
The total water content of the leaves	
showed insignificant variations in the plants	
grown on irrigated land. On dry soil, the	84
percentage of total water was 83% in June,	
but reached 79% in August (fig. 1) ARIAL	82
12, Justify, no indentation (the row starts	80 dry soil
right from the left margin)	78 watering soil
	June July August
	June July August
	Figure 1.
	Table 1. Evolution of plantsARIAL 10, alignment
	centered and 6 pt spacing paragraph after
	Specification 2017/
	ARIAL 10 or 2017 2018 2019 2020 2021 2021 smaller (%)
	Plants first 7,554 6,830 4,654 3,050 2,890 29.50
	location:
	Plants
	location:

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Table 3. Portulaca oleracea......ARIAL 10, alignment centered

	Control		
Plant 1	0.2	12.6	13.2
Plant 2	0.5	1	01.5
Plant 3	0.7	0.6	0.7
Plant 4	0.9	6.4	8.2
Plant 5	0.8	0.5	0.7
Plant 6	0.9	0.3	0.6

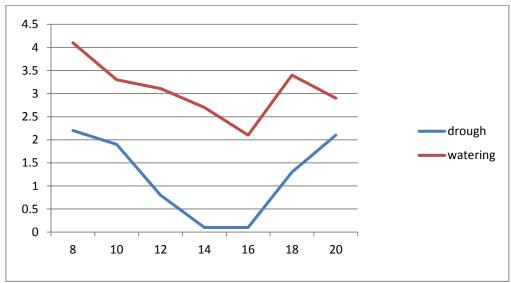


Figure 2. The diurnal variation of leaves transpiration (mmol / m ² / s) ARIAL 10, alignment centered and 6 pt spacing paragraph before



Figure 3. Portulaca oleracea

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CONCLUSIONS ARIAL 12 alignment left, at one space row down from the text.

Portulaca oleracea L. is a species adapted to drought conditions.

The high percentage of total water in the leaves gives that juiciness of the leaves, characteristic of plants with adaptation to drought.

indicates an increased resistance capacityARIAL 12, no indentation (the row starts right from the left margin), alignment justified.	
ACKNOWLEDGEMENTS ARIAL 12 alignment left, at one space row down from the text.	ARIAL 12, no indentation (the row starts right from the left margin), alignment justified.
This research work was carried out with the support of Ministry of Agriculture and Rural Development, financed from Project PN II Partnership No	REFERENCES ARIAL 12 alignment left, at one space row down from the text. Boldor, O., Raianu O., Trifu M. (1983). Fiziologia plantelor, Lucrari practice. Bucharest, RO: Ed. Did. și Ped. Publishing House. El-Keblawy, A., Al-Ansari, F. (2000). Effects of site of origin, time of seed maturation, and seed age on germination behavior of Portulacaoleracea from the Old and New Worlds. Canadian Journal of Botany, 78(3),279-287,https://www.cabi.org/isc/ Garti, N., Slavin, Y., Aserin, A., (1999). Surface and emulsification properties of a new gum extracted from Portulaca oleracea L. Food Hydrocolloids, 13(2),145-155. Grieve, C.M., Suarez, D.L., (1997). Purslane (Portulaca oleracea L.): a halophytic crop for drainage water reuse systems. Planta and Soil, 192(2), 277-283. ARIAL 12, indentation hanging 0.5 cm,
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