PHYSIOLOGICAL PARTICULARITIES OF *PORTULACA OLERACEA* L. PLANTS

TNR 14, BOLD, CAPITALS, CENTERED

Author(s)First name FAMILY NAME[1], First nameFAMILY NAME[2] TNR 12, Bold, Align Text Right

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Abstract TNR 10, Bold, Italic, justified, no indentation

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. TNR 11, Italic, justified, no indentation, minimum 100 and maximum 250 words

***Key words**: -TNR 10, Italic, no indentation, maximum 5 words*

INTRODUCTION TNR 12 BOLD

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MATERIALS AND METHODS TNR 12

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RESULTS AND DISCUSSIONS TNR 12

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Table 1. Evolution of Dairy Cows during the period 1990-2010 (thousand heads)TNR 10,alignment centered and 6 pt spacing paragraph after

Specification TNR 10 or smaller	1990	1995	2000	2005	2010	2010/ 1990 (%)
Cattle, of which :	5,381	4,100	3,520	3,050	2,680	49.80
Dairy cows	3,200	2,200	1,830	1,600	1,440	45.00

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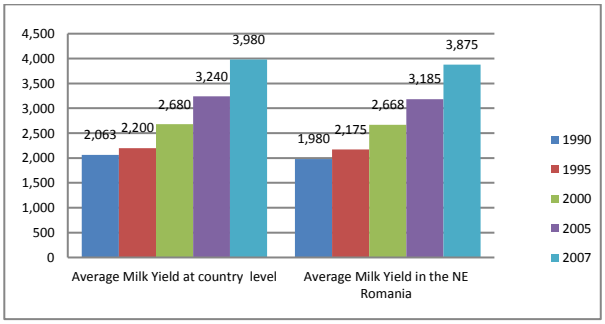

Figure 1.

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Table 3.Mycotoxin concentrations in experimental diets (mg/kg) TNR 10,alignment centered

Mycotoxin[1]	Control	Contaminated grains	Contaminated grains + GMA[2]
Hens			
DON 0.2 12.6 13.8	0.2	12.6	13.2
15-acetyl-DON ND3 1.0 1.2	ND	1	01.5
ZearalenoneND 0.6 0.5	ND	0.6	0.7
Roosters			
DON 0.9 6.4 9.2	0.9	6.4	8.2
15-acetyl-DON ND 0.5 0.7	ND	0.5	0.7
ZearalenoneND 0.3 0.4	ND	0.3	0.6

[1]Other mycotoxins, including T-2 toxin, zearalenol, aflatoxin,were also measured, but they were below thelimits of detection. DON = deoxynivalenol.

[2]GMA = polymeric glucomannanmycotoxin adsorbent.

[3]ND = not detectable.

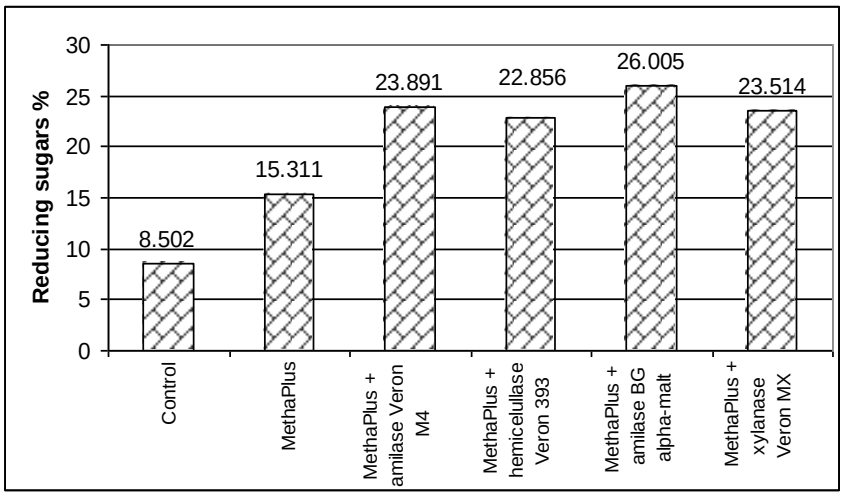

Figure 2. Concentration of reduced sugars after hydrolysis with enzymatic mixturesTNR 10, alignment centered and 6 pt spacing paragraph before

Figure 3. *Portulaca oleracea*

CONCLUSIONS TNR 12

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ACKNOWLEDGEMENTS TNR 12, Centred, Bold

This research work was carried out with the support of Ministry of Agriculture and Rural Development, Department of Statistics and also was financed from Project PN II Partnership No. 2365/2007. TNR 12, Justify

REFERENCES TNR 12, Centred, Bold

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