

ZBORNİK APSTRAKATA

X SIMPOZIJUMA DRUŠTVA SELEKIONERA I SEMENARA REPUBLIKE SRBIJE

i

VII SIMPOZIJUMA SEKCIJE ZA OPLEMENJIVANJE ORGANIZAMA
DRUŠTVA GENETIČARA SRBIJE

BOOK OF ABSTRACTS

X SYMPOSIUM OF THE SERBIAN ASSOCIATION OF PLANT BREEDERS AND
SEED PRODUCERS

and

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SECTION OF THE BREEDING OF ORGANISMS

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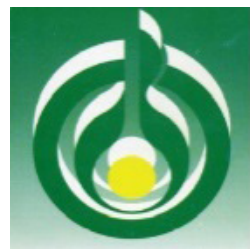
SERBIAN ASSOCIATION OF PLANT
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PRODUKTIVNOST I KVALITET CRNOG OVSA *Avena strigosa* SCHREB. I BENEFIT ZA ZDRAVLJE

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Crni ovas *Avena strigosa* Schreb. se u svetu i kod nas gaji na malim površinama. Zahvaljujuću visokoj nutritivnoj vrednosti, visokovrednim proteinima, vitaminima B grupe, i nutrijentima (kalcijum, kalijum, magnezijum, natrijum, silicijum, gvožđe, mangan, cink i bakar) kao i flavonoidima i skrobu, koristi se za ishranu ljudi i stoke, za industrijsku preradu, a u farmaceutskoj industriji i medicini kao prirodan lek. Ovas povoljno deluje na kvalitet kostiju, jača imunitet, povoljno utiče na prostatu, nesanicu, anksioznost, depresiju, nervozu, promuklost, snižava nivo holesterola i telesnu masu, visok krvni pritisak i šećer u krvi. Čaj od ovasa se posebno preporučuje obolelima od multiple skleroze i kod lečenja dijabetesa. U ovoj studiji ispitivana je produktivnost crnog ovasa u dve varijante: V1-kontrola-bez prihrane i u V2-varijanti sa folijarnom prihranom, na proizvodnim parcelama Instituta za ratarstvo i povrtarstvo u Bačkom Petrovcu. Rezultati ispitivanja su pokazali da je crni ovas ispoljio visoke prinose zrna po biljci u nepovoljnoj godini za proizvodnju, a da je u varijanti sa prihranom ostvaren statistički značajno veći prinos u odnosu na kontrolu. Analiza varijanse pokazuje da postoje značajne razlike između varijante prihrane i prinosa (Fekp= 11,605), varijante i mase biljaka (Fekp= 63,258), varijante i visine biljaka (Fekp= 107,700) i varijante prihrane i dužine korena (Fekp= 77,780). Utvrđene su pozitivne korelacione veze između prinosa zrna i mase biljke ($r=0.92$), visine biljke ($r=0.92$) i dužine korena ($r=0.99$). Rezultati pokazuju da crni ovas može uspešno da se gaji i u nepovoljnim godinama uz primenu folijarne prihrane i adekvatne tehnologije gajenja. Prihrana je poželjna u usevu crnog ovasa u cilju povećanja prinosa i ostvarenja profitabilne proizvodnje.

Ključne reči: crni ovas, parametri rodosti, folijarna prihrana, uticaj na zdravlje

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PRODUCTIVITY AND QUALITY OF BLACK OATS -*Avena strigosa* SCHREB. AND HEALTH BENEFITS

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Black oats *Avena strigosa* Schreb. is grown in the world and in our country in small areas. Thanks to its high nutritional value, high-value proteins, B group vitamins, and nutrients (calcium, potassium, magnesium, sodium, silicon, iron, manganese, zinc and copper), as well as flavonoids and starch, it is used for human and livestock nutrition, for industrial processing, in the pharmaceutical industry and medicine as a natural medicine. Oats have a beneficial effect on the quality of bones, strengthen immunity, have a beneficial effect on the prostate, insomnia, anxiety, depression, nervousness, hoarseness, lower cholesterol levels and body weight, high blood pressure and blood sugar. Oat tea is especially recommended for patients with multiple sclerosis and in the treatment of diabetes. In this study, the productivity of black oats was examined in two variants: V1-without nutrition (control) and in V2-variant with foliar nutrition, on the Institute of Field and Vegetable Crops experimental field, in Bački Petrovac. The results showed that black oats showed high grain yields per plant, in an unfavourable year for production, and that in the variant with top dressing, a statistically significantly higher yield was achieved compared to the control. Analysis of variance shows that there are significant differences between the variants of nutrition and yield (Fekp= 11.605), the variants of nutrition and the plant weight (Fekp= 63.258), plant height (Fekp= 107.700) and root length (Fekp= 77.780). There were positive correlations between grain yield and plant mass ($r=0.92$), plant height ($r=0.92$), and root length ($r=0.99$). The results showed that black oats can be successfully grown even in unfavourable years with the application of foliar fertilisation, followed with proper and timely cultivation technology. Therefore, in order to increase yield and achieve profitable production foliar fertilisation is desirable in the black oat crop production.

Key words: black oats, fertility parameters, foliar fertilisation, impact on health

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