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**CORRELATION OF HUNTING MASS WITH REPRODUCTIVE
POTENTIAL OF FEMALE HARE (*Lepus Europaeus P.*)**

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Summary: Within the scope work of a group of authors a total of 80 female hares *lepus europaeus p.* was included, from different parts of Vojvodina (from Bačka, Banat and Srem areas) during the hunting season of 2012./2013. Correlation of hunting mass with reproductive potential of female hare was investigated. All females were divided into three groups according to the hunting mass, as follows: up to 4 kg, 4-4.5 kg and over 4.5 kg, and examined in the Laboratory for reproduction of the Faculty of Agriculture in Novi Sad. Placental uterus scars were counted as the evidence of the last litters before harvesting. Placental scars were observed *in situ* using magnifying glass based on contours of placenta which could be noticed as scars on endometrium. The results obtained prove that the bigger harvesting mass, (the group over 4,5 kg) had, according to the statistical model, significantly better reproductive potential of females, which was determined upon a greater number of obviously present placental scars with the average number of 3,57, in comparison with females which had smaller harvestig mass in the groups of 4 kg and 4-4,4,5 kg with average number of 1,14 and 2,08, respectively.

Key words: *lepus europaeus p.*, body mass, placental scars, reproduction

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**POVEZANOST ODSSTRELNE MASE SA REPRODUKTIVNIM
POTENCIJALOM ŽENKI DIVLJEG ZECA (*Lepus Europaeus P.*)**

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Summary: U okviru istraživanja grupe autora obuhvaćeno je 80 ženki divljeg zeca *lepus europaeus p.* sa geografski različitih terena Vojvodine i to Bačke, Banata i Srema tokom lovne 2012./2013. godine. Ispitivana je povezanost odstrelne mase sa reproduktivnim potencijalom ženki zeca. Sve ženke bile su kategorisane u tri grupe po odstrelnoj masi i to , do 4 kg, 4-4.5 kg i preko 4.5 kg, a pregledane u Laboratoriji za reprodukciju Poljoprivrednog fakulteta u Novom Sadu, gde su brojani placentalni ožiljci nastali po poslednjem koćenju pred odstrel. Placentalni ožiljci su očitavani *in situ* putem lupe na osnovu obrisa placente koji su ožiljačno ostali ocrtni na endometrijumu. Dobijeni rezultati govore da veća odstrelna telesna masa, grupa (preko 4.5 kg), ima po statističkom modelu značajno bolji reproduktivni potencijal ženki , što je ustanovljeno po većem broju evidentno prisutnih placentalnih ožiljaka čija je prosečan broj iznosio (3.57), od ženki koje su imale manju odstrelnu masu iz grupa do 4 kg i 4-4.5 kg gde je prosečan broj bio (1.14 i 2.08).

Key words: *lepus europaeus p.*, t. masa, placentalni ožiljci, reprodukcija

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