

**THE IMPACT OF ANNUAL CANES REGULARIZATION ON THE
PRODUCTIVITY AND QUALITY OF FLORICANE VARIETY
„PRZEHYBA”, GROWN IN THE OPEN FIELD AND
GREENHOUSE**

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The research has been carried out in the Central part of the Republic of Moldova, namely at the „Nasu Vasile” Farm founded in 2012. The object of the research was the raspberry plants of Przehyba variety, in the 1st and 2nd year of fruiting, cultivated in the open field and the greenhouse. The research has been carried out during period of March 2022 - August 2023, in the Central part of Moldova, Soldanesti city, planting made in 2021. The planting distances used in both plantations are of 2.3 m between rows and 0.45 m between plants per row. The density of two years canes established in those 4 variants was 8 plants per linear meter. The comparison of the obtained results was carried out by classifying the experiences in 4 variants. The investigations carried out highlighted the fact that in option 1, the year 2023, we obtained the best result of the 4 research experiences, where 288 fruits were harvested from one plant, followed by option 2, the year 2023 of fruiting with 252 fruits total harvested. The least fruits were obtained in variant 4, the year 2022 and 2023, 120 fruits in each variant from the research.

The better fruit size has been got in greenhouse than those obtained in open land. Also, following the organoleptic analysis, sunburn signs was observed on the raspberry fruits, in variant 1, 3 and 4, year 2023, which influenced the marketable qualities of the product. The highest percentage of dry matter/Brix was obtained from the fruits harvested from open field, year 2023, the lowest percentage were obtained from the fruits harvested from the greenhouse, 2022 year. If we make a mathematical calculation of the production volumes obtained in those 4 researched variants, at 1 ha area, we could potentially obtain 20.7 tons of raspberry fruits grown in greenhouse. In open field we could get 12 tons of raspberries, with a density of 8 suckers per linear meter. In 2023, the average purchase price of fresh raspberries from the field, the „Przehyba” variety, was 60 lei/kg, which is de facto 1.24 million lei sales revenue for raspberries grown in protected land, and in the variant of raspberry cultivation in open ground could be obtained a potential income of 0.72 mln. lei/ha.

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