

YIELD AND AMOUNT OF LAVENDER ESSENTIAL OIL (*LAVANDULA ANGUSTIFOLIA* MILL.) IN THE FLOWER NURSERY "PERIĆ" DURING 2021.

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Abstract

Lavender (*Lavandula angustifolia* Mill.) is a perennial shrub from the Lamiacea family. The yield and quality of lavender flowers, as well as the essential oil content, are affected by many factors such as the age of the plant, environmental factors, and cultivation technology. The aim of the work was to examine the yield of fresh and dried lavender flower mass, as well as the essential oil content per hectare in a 6-year-old plantation. The research was conducted in the flower nursery "Perić" in Orašac. The yield of fresh mass of flowers was measured immediately after harvesting and was 873.6 g per plant (bush), i.e. 6987.2 kg/ha (8000 plants per ha). For the dry flower yield, it was necessary to dry the harvested flowers at room temperature in a dark room for a period of 20 days. After that, weighing was carried out and the dry flower mass was 97.06 g per plant (bush), i.e. 776.48 kg/ha. The amount of essential oil in lavender (*Lavandulae flos*) was measured with a Clevenger-type apparatus (Clevenger 1928). 55-60 kg of fresh flower mass is needed to extract one kilogram of essential oil. The amount of essential oil obtained was 116.45 kg/ha, i.e. 14.56 g of essential oil per plant (bush). This research was supported by the Ministry of Science, Technological Development and Innovation of the Republic of Serbia Grant No: 451-03-47/2023-01/200003.