

RESEARCHES REGARDING THE INFLUENCE OF THE TECHNOLOGICAL FACTORS ON THE BIOLOGY OF THE SPECIES AND SEED YIELDS AT *CARTHAMUS TINCTORIUS* L. IN A.R.D.S. SECUIENI

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Abstract

The paper aims to highlight the influence of technological factors on the biology of the species and seed production at *Carthamus tinctorius* L. (safflower). The research were carried out in 2019, in the experimental field of A.R.D.S. Secuieni. Due to the higher temperatures from the third epoch and the precipitations recorded in the sowing to emergence period, the plants had a faster evolution. It was necessary 117 days from sowing to harvesting the seeds, the sum of the accumulated temperatures was 2241.9 ° C and the precipitation amounted to 230.7 mm. Under the conditions of A.R.D.S. Secuieni, at the first sowing epoch, there was an increase in production of 156 kg/ha compared to the control of the experience. The interaction of the studied factors influenced the seed production, obtaining the highest seed production at the sown variant at 70 cm between rows and 25 cm between plants per row (1688 kg/ha).

Key words: seed, safflower, epoch of sowing.