



Studies concerning the influence of some mutagen agents on the production of inflorescences at *Calendula officinalis* L. species

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The economic importance of the pot marigold is increased due to considerable broadening spectrum of raw material use (*Flores calendulae*, *Herba calendulae*) in the cosmetics manufacture and in particular the use of the seeds as a source for obtaining the oil used for industrial purposes. In this moment *Calendula officinalis* L. is in top ten, of the most cultivated herbs in Europe. The aim of this paper was to see the impact of the mutagenic substances on the production of inflorescences at *Calendula officinalis* L. in the year 2006 conditions. Applying the treatments on the top of the vegetation have led to obtain variables production of inflorescences, close to some treatment variants by the production obtained on untreated witness sample. The analysis of the results obtained on the year 2006 conditions, has allowed us to say that, the differences of the production that we obtained were due on the one hand for the different concentrations used, but also due to the implementation of the treatment and a different time of action on the material used in the experiment. The productions were significant as increasing the concentration in the case of colchicine but decreased in light of the treatment implementation and the extent of increasing the time of action.