

THE EFFECT OF THE WAY AND TIME OF APPLICATION OF THE NATURAL BIOREGULATOR AGROSTEMIN ON THE CROP AND QUALITY OF SUNFLOWER SEEDS

*Stanojević D. *)*

Summary

During the 1980, 1981 and 1982, the exact field experiment was conducted on the experimental field of the Institute in Zajecar, with aim to investigate the effects of bioregulator Agrostemin on the crop and qualitative characteristics of sunflower. The experiment was conducted in five repeats. Agrostemin was applied in three variants: (a) in phases of preparation of seeds for seeding (seed spraying), (b) combining 1/2 dosage for seed spraying and 1/2 dosage through the leaves (foliar), and (c) the whole dosage applied foliar (through the leaves).

The results of three years investigations have shown that bioregulator Agrostemin affected on the dynamics of phenological phases of sunflower development. The period from the sprouting to the blooming was shortened for 3-5 days, and consequently the period of oil synthesis was extended for the same period. The result of that effect was the larger content of oil in seeds which increased depending on the conditions of that year (rainfalls etc.) in range of 0,40 - 1,73% in regard to the control.

The increase of seeds crop ranged from 55 to 221 kg per hectare. The increase of kernels crop was not significantly longer per each year regarding the control.

The most distinct effect of Agrostemin on the crop of kernels and oil of sunflower was found out by application in process of preparation of seeds for seeding - by spraying and in the drought years, and its effects are significant for the increase as well as for the stability of crop.

COMPLETELY HARMLESS FOR PEOPLE, ANIMALS (INCLUDING BEES) AND ENVIRONMENT;
IT DOES NOT REQUIRE SPECIAL SAFETY MEASURES OF HYGIENIC AND TECHNICAL PROTECTION **)

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*) Stanojević Dr Desimir, Agricultural Institute, Zajecar, Yugoslavia.

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