

**THE EFFECTS OF THE NATURAL PLANT GROWTH BIOREGULATOR AGROSTEMIN  
ON THE CROP, QUALITY AND HEALTH CONDITIONS  
OF SOME SORTS OF SOYBEAN**

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**Summary**

With expansion of the application of bioregulator Agrostemin to the main farm cultures, arose the need for the investigation of its effects on soybean whose production increased very much in Yugoslavia. Regarding that, the comparative micro experiments were conducted in period 1980-1983. The experiments were conducted in two agroecologically different localities (Srem and Pomoravlje).

The aim of the experiments was the investigation of the effects of Agrostemin on the crop, quality and health conditions of the following sorts of soybean: Evans, Corsoy, Zvecka and Wells.

The following results of those investigations were obtained:

- depending on the sort, year and locality, the increase of crop of the variants with Agrostemin in regard to the control was in range from 130 to 1197 kg/ha.
- regarding the quality of kernels (content of proteins and oil) there were not significant differences between the variants with Agrostemin and control.
- the general habitus of the plants treated with Agrostemin in regard to untreated plants shows the better condition, larger leaves and more developed root system.
- seeds of soybean treated before the seeding have much more germination energy than untreated seeds.
- the plants treated with Agrostemin were less attacked by pathogens (*Sclerotinia Sclerotiorum*, *Sclerotium Bataticola*, *Peronospora*, *Diaporthe Phaseolorum* etc.) than untreated plants. The differences were significant.

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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