

PERSPECTIVES OF PLANTS GROWTH REGULATORS USAGE IN THE GROWING OF SUNFLOWER IN NORTH-EASTERN REGIONS

Ilyina Vira, a student of the 2nd course of plant protection,
biotechnology and ecology, National university of life
and environmental sciences of Ukraine

The urgency of the topic lies in the fact that the growth regulators of plants positively affect the growth and development of plants of sunflower. During the entire period of vegetation there was an active plant growth. The height of plants, the weight of one plant, the diameter of the heads in variants, where the seeds before sowing were treated with plant growth regulators, were significantly higher than controls without processing.

Oiliness is a very important qualitative indicator. By increasing the amount of oil in the seed you can get more produce without increasing the yield of sunflower. This problem can be positively solved by applying plant growth regulators. At the same time, the energy expenditure on cultivating the crop is not significantly increased.

Thus, in the not very favorable for the formation of high yield sunflower weather conditions in 2018, this indicator was 65.2% on average in the experiment, 64.4% in 2017. On average, over the two years of research, the oil content in sunflower varied from 65.2% in the control variant to 67.9% when sprayed with the Neutron growth regulator.

The use for spraying sunflower seeds of plant growth regulators on average over the years of research allowed to obtain 19,0-22,7 centners per hectare of oil, which is 0,1-3,8 centners/hectare (0,5-20,1%) more than on the control, except for the Vegestim variant, in which the oil collection was 2.9 c / ha less against the site of the experiment that was not sprayed.

Thus, as can be seen from the data presented, the use of most plant growth regulators for spraying crops in the 5-6 leaf stage of sunflower provides a significant increase in yields, especially in extreme weather conditions, they significantly increase both oil content and the amount of oil per unit area of sown sunflower. The use of Vegestim helps to reduce both the productivity of the crop and the collection of oil per unit area.