PP21. INFLUENCE OF POLYPRENOL OF PAVLOVNIA TOMENTOSA ON FORMATION OF WINTER WHEAT YIELD

E.R. KURBANOVA¹*, S.M. TURAEVA¹, P.A. NURMAKHMADOVA¹, U.B. MAMAROZIKOV¹, A. SHOYMURADOV², R.P. ZAKIROVA¹

¹Acad. S.Yu. Yunusov Institute of the Chemistry of Plant Substances AS RUz st. Mirzo-Ulugbek, 77, 100170 Tashkent

²Southern Agricultural Scientific Research Institute, Karshi, Uzbekistan

*Corresponding Author. E-mail: ilichkakurbanova@mail.ru

In the Republic of Uzbekistan, winter wheat occupies the main areas of crops. The useof plant growth regulators in winter wheat crops is an environmentally safe method of increasing yields and product quality.

The studies were carried out in 2022-2023 in the "Muslimakhon oltin kuz khosili" farm of the Tashkent region, with a total area of 2 hectares. Winter wheat variety - Thunder.

The aim of the study was to establish the effect of polyprenol of *P.tomentosa* on the productivity of winter wheat plants.

In the course of the work, an increase in the number of productive stems was revealed - 362.2 pcs/m^2 in the polyprenol of the *P.tomentosa* plant variant, while in the controlit was 352.7 pcs/m^2 , and in the standard Uchkun it was 365.1 pcs/m^2 . Additional foliar processing of the experimental variant had little effect on the number of productive stems.

It was established that the use of presowing treatment with polyprenol of the *P.tomentosa* plant had a positive effect on the indicators of the crop structure. Thus, the mass of grain from one ear in the experimental variant of the presowing treatment was higher than the control variant by 14% and in the variant with additional foliar treatment by 15.9%, as well as the weight of 1000 grains by 5.5-9.8%, respectively. In the standard Uchkun, these indicators exceeded the control by 9.5%, and the weight of1000 grains by 4.5%, respectively. The increase in the yield of winter wheat in the experimental variants was 4.1 c/ha and 5 c/ha, while in the standard Uchkun, the increase was 1.6 c/ha.

Thus, the use of polyprenol of *P. tomentosa* in the technology of cultivating winter wheat by the method of presowing treatment and additional foliar treatment in the booting phase contributes to an increase in grain yield.