# GRAIN PRODUCTIVITY AND QUALITY OF THE WINTER BARLEY VARIETY *ZIMOVYI* IN MULTIFACTORIAL FIELD EXPERIMENTS

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**Abstract**

The paper presents the results of 3 year research studies on the productivity, content and amount of crude protein recorded by the winter barley variety Zimovyi in multifactorial field experiments. It has been established the effect of forerunner plants on the productivity of winter barley crops which was of 72.37%. On average, over 2 years of research, it was recorded the yield of 3609 kg/ha after the forerunner grain peas, while after the forerunner vetch-oat it was of 2507 kg/ha. The effect of planting dates constituted 24.55%. The highest grain yield was obtained on the optimal planting dates - 3750 kg/ha after the forerunner grain peas and 2631 kg/ha on the admissible planting dates after the forerunner vetch-oats.The amount of crude protein in the winter barley grains is higher after the forerunner vetch-oats – 12.13%, exceeding the value of 0.16% obtained after the forerunner grain peas.

**Key words*:*** winter barley, forerunner plant, planting dates, productivity, crude protein.