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RESEARCH ON THE PRODUCTIVITY AND QUALITY OF SOME VARIETIES OF WHEAT IN THE PEDOCLIMATIC CONDITIONS OF THE EASTERN BOTOSANI COUNTY, ROMANIA

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The main purpose of the research was to test the productive and qualitative potential of 20 Romanian and foreign wheat varieties, from seven seed producers. The researches were carried out in the agricultural year 2021/2022, in the vegetable farm belonging to the company „Samis Urban” SRL, in Mihalaseni, Botosani county, in non-irrigated regime.

The applied technology was conventional, the distance between the rows was 25 cm, the sowing rate was 170 kg/ha seed (400 grains/square meter), the fertilization ensured an agrofund of 170 kg nitrogen/ha active substance (a.s.), 90 kg phosphorus/ha a.s. and 180 kg potassium/ha a.s.

The wheat crop was protected by the use of herbicides, fungicides and insecticides, according to the technological norms used in the farm. The highest production of wheat was recorded for the „Absalon” variety (Limagrain) being 6.189 kg/ha and „Complice” (Axereal) variety – 5.923 kg/ha.

Regarding the quality of wheat production, two varieties from the Fundulea Agricultural Research and Development Institute are on the first two places: „Voinic” with 14.3% protein and 36.9% wet gluten and „Pitar” with a protein content of 13.2 % and a percentage of 35.2% gluten.

Keywords: winter wheat, yield, quality, field crop.