

## RESEARCH AND COMPARISON OF SOME GRAIN VARIETIES (*TRITICUM AESTIVUM* L.) FROM THE REGION UNDER THE AGRO- ECOLOGICAL CONDITIONS OF KOSOVO

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### ABSTRACT

The study object is the research of the suitability of some wheat cultivars (*Triticum aestivum* L.) from Croatia, Slovenia and Hungary. There were six cultivars of wheat: from Hungary (Mv Marshall, Mv Kolo), Croatia (Super Zhitarka Pancake Justus) and Slovenia (Lara) while as comparator cultivars in Europe 90. Wheat (*Triticum aestivum* L.) in Kosovo is a strategic crop that is grown annually on an area of 70000 to 90000 ha, carrying about 45-55% the needs for this culture. The average yield realized over the last years is around 3.4 3.6 t / ha. Based on agro-climatic data, research on grain varieties and their testing in the two regions of Kosovo for 2016, 2017 and 2018 were carried out in these parcels and the morphological characteristics of those varieties, which compete for the national list, were monitored. Research has been carried out in two locations of plots where they represent different agro-climatic and differences in Arbesh, at the research farm of the Kosovo Agricultural Institute, 6 km far from Peja. The type of soil, brownish brown soil, on reddish sediments, and the altitude is 488 meters (Dukagjin Plain), as well as in Pestovo - Kosovo Plain, the private property of the company "Pestova". The altitude is 550 meters and the soil type is smonic. The agro-climatic and pedological data of Kosovo compared to the yields obtained in the grain culture show that the cultivation of cultivated genetic potential is not exploited. Tests were conducted in a laboratory environment (Weight, 1000 head, hectoliter weight, protein content), according to the International Association for ISTA Seed Testing, 1996 (which is International Seed Association, 1996). The data collected were analyzed using an F-Est variance analysis, the significance of which for  $p < 0.0$  or  $P < 0.01$  level is taken as a condition for LSD-test comparison.

**Key words:** hectoliter weight kg, humidity, protein content, winter wheat, yield kg/ha.