



Research of some Varieties of Winter Barley (*Hordeum vulgare*) from Croatia in Agro-ecological Condition of Kosovo

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Abstract: The object of study is an exploration of the eligibility of some winter barley cultivars (*Hordeum vulgare*), originating from Croatia. The research results are included 5 cultivars of barley: Bingo, Zllatko, Vannesa, Esterel and Rex as comparative. Surveys were conducted in two regions of agro-climatic of Kosovo (in Arbnes, research farm Kosovo Institute of Agriculture, Peje-Dukagjin Plain, and Pestova-Kosovo Plain, privately owned company "Pestova". Research, performance tested (kg / ha), 1000 seed weight (gr.), hectoliter weight (kg), protein content (%), humidity (%), and starch. With the study of these parameters are taken, many authors from around the world. Pedological data and agro-climatic of Kosovo, compared with yields obtained in the culture of winter barley show for not utilizing the genetic potential of cultivars that are cultivated in our. For this reason should be applied to a modern agro genetic potential used, and get higher yields. The obtained results showed that there were significant statistical differences at different levels for all traits investigated cultivars involved in plots compared with the standard (Rex) and between localities.

Key words: *Winter barley, 1000 seed weight, hectoliter weight kg, yield kg/ha.*

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