

THE PHENOTYPIC EVALUATION OF WHITE LUPINE CULTIVARS (*LUPINUS ALBUS* L.) FROM THE COLLECTION OF U.S.A.M.V IASI

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Abstract

The white lupine collection from Plant Breeding Department of USAMV Iasi includes more than 40 lineal varieties and land races. These cultivars were collected from different sources and were studied from many different aspects in last years. This paper reveals the behavior of 15 from them, in the conditions of 2011, at Ezareni Farm (Didactic Station Iasi). Thirty plants from each cultivar were taken for laboratory analysis and the following characters were studied: height, number of main ramification, number of floors with pods, pods/ floor, pods/ plant, weight of pods per floor and plant, average length of pods, number of seeds per plant, average weight of seeds per floor and per plant and TKW.

The experimental data were statistically evaluated for obtaining the average and the variability of the characters. The results obtained in 2011 shows the yield potential of the cultivars, related especially at yield seeds. Knowing the different way of the lupin uses, seed, green manure or dry culms and the satisfactory yield and the complete missing of that specie from The Official Catalog of Cultivars from Romania (the only Romanian cultivar were available till 2009) we can appreciate that the data from this paper could be useful for the breeding activity at this species.

Key words: phenotypic characters, variability, *Lupinus albus* L.

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