

1. MICESKA G.; KORUBIN-ALEKSOSKA A.; ALEKSOSKI J.

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Variability in some old tobacco varieties in the Republic of Macedonia

The studies were made with five old tobacco varieties of the types: Prilep, Djebel and Yaka, to study their quantitative traits: height of the stalk without inflorescence, number of leaves and green mass yield per stalk. The trial was set up in the experimental field at the Tobacco Institute-Prilep in 2010, 2011 and 2012, in a randomised block design with four replications. Traditional agro-technical measures were applied during the period of vegetation.

The purpose of investigations was to evaluate the variability of the above quantitative traits typical for

the old varieties by the use of biometric analysis and to give directions for their maintenance in future for selection purposes in tobacco.

The significant differences obtained between the traits of investigated variants indicate that they are different varieties adapted to agro-ecological conditions of the region. No significant differences were observed between the three years of investigation. It is an indication of highly heritable traits. The values of standard deviation and coefficient of variability are low, which is an indication of stable and homozygous genotypes. Results on the parameters of variability were lower in 2012, because the seed sown in this crop was obtained from one stalk for each variant isolated in 2010 and 2011. The lowest statistical data on variability of stalk height and leaf number in three years were registered in the varieties of type Prilep, and for green mass yield in the Yaka tobacco.

Scientific Tobacco Institute-Prilep, University St. "Kliment Ohridski"-Bitola, st. "Kicevski pat" bb,
7500 Prilep, Republic of Macedonia