

SURVEY ON RESISTANCE OF WHEAT GENETIC MATERIAL TO RUSTS IN (ATTC) IN LUSHNJE ALBANIA

Hekuran Vrap¹, Artan Memishaj², Hajredin Toca³, Thanas Ruci⁴

¹ Department of Plant Protection, Faculty of Agriculture and Environment, Agricultural University of Tirana, Albania, E mail: hvrapi@gmail.com

² Department of Plant Protection, Faculty of Agriculture and Environment, Agricultural University of Tirana, Albania, E mail: thanaslukaruci@yahoo.com

³ Department of Plant Protection, Faculty of Agriculture and Environment, Agricultural University of Tirana, Albania, E mail: tanimemishaj@gmail.com

⁴ Department of Plant Protection, Faculty of Agriculture and Environment, Agricultural University of Tirana, Albania, E mail: hajredintoca@yahoo.com

Abstract

During the period 2009-2012 different evaluations on resistance of wheat genetic material to the main airborne diseases have been carried out in on experimental fields of the State of Seed and Saplings in the Agricultural Technology Transfer Centre (ATTC) in Lushnje (Albania) where it is evaluated the collection, control, firm seedbed, preliminary tests and zonal tests both for bread wheat and durum wheat. The resistance to the Stem Rust (*Puccinia graminis*) and Brown Rust (*Puccinia recondita*) has been the purpose of our study under the conditions of Lushnje Albania. In total, 844 genotypes of bread wheat were evaluated for resistance to the Brown Rust and Stem Linear Rust during the period 2009-2012. Based upon the observations carried out during four years, it follows that 86 % of the lines of bread wheat demonstrate resistance to the stem linear rust in comparison to only 8% of durum wheat lines. However, 73% of durum wheat lines are resistant to the brown rust, compared to 57% of wheat bread lines. For the purpose of differentiation, only 9% of the durum wheat lines have higher levels of sensitivity to the brown rust, compared to 25% of bread wheat lines. Accordingly, it may be stated that the nature of the resistance manifested by both types of wheat, has differences, which is helpful for a better management of both diseases.

Keywords: *wheat, cultivar, resistance, foliage, diseases, bread wheat, durum wheat*