The Behavior of Some Local Wheat Varieties in the Specific Conditions of South Western Oltenia

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Keywords: variety, wheat, climatic conditions, yields, comparative crop.

SUMMARY

Wheat is the most cropped plant in the world. In our country it occupies around 25% of the arable land and 40% of the cereals. Choosing of a wheat variety must comply with the soil and clime conditions of the zone as well as the biological features of the variety in order to gain constant and high yields (Soimu Valentina, 2007). This papers presents the results of the behavior of 15 wheat varieties in two successive years (2007 and 2008) that are different as climatic conditions. The experiment unfolded at the DARS Caracal in rainfed conditions using the blocks method with 3 replications. During 2007 year was a less favorable year for the wheat crop because of severe drought (excepting February and March) in comparison with the 2008 year that was favorable. There have been researched the yield, height, disease resistance (rust, blight, septoriosys) and precocity. For the disease resistance evaluation there were used marks from 1 (very resistant) to 9 (very sensible) and the yield data were calculated through the analysis of variance (Săulescu N. A., 1967). The yields in 2007 have been between 3,883 kg/ha (Izvor) and 5,095 kg/ha (Simnic 30), reaching in 2008 yields of 5,354 kg/ha (Flamura 85) and 6,097 kg/ha (Dor). As average on the two researching years all varieties have overcome the control (Flamura 85) yet the Litera, Dor and Simnic 30 varieties have given the highest outputs. The plant height, the main morphological element that influences the bending resistance and indirectly influence the wheat yielding capacity have been between 75.5 cm (Flamura 85) and 88 cm (Simnic 30). The disease marks were between 2 and 4 which emphasize a good and very good resistance in both years. As regard the precocity of earing, in 2007 there were recorded differences between minus 3 days (Lovrin 34, Glossa, Litera) and plus 3 days (Alex, Romulus, Dor) over the control and in 2008 the differences were between minus 4 days (Simnic 30) and plus 3 days (Alex, Delabrad, Dor, Faur).

REFERENCES