THE INFLUENCE OF TREATMENTS WITH VARIOUS PHYTOSANITARY PRODUCTS (FUNGICIDES) ON THE ATTACK OF SOME PHYTOPATHOGENIC FUNGI ON WHEAT HARVEST – GLOSA VARIETY - IN 2023 PEDOCLIMATIC CONDITIONS OF THE EASTERN BARAGAN

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Abstract

This study aims at monitoring the dynamics of the occurrence and evolution of the attack of some pathogens to Glosa Romanian wheat variety, among which we mention: *Puccinia recondita* f. sp. tritici (sin. *Puccinia triticina*) which produces wheat's brown rust and *Septoria* sp. which produces wheat's brown leaf spotting (septoriosis). The influence of applying these fungicides on the harvest, as compared to the untreated control variant, has also been monitored. One experiment with 5 variants (4 variants with phytosanitary treatment, plus one control variant not treated) was taken into consideration for this study, for which the following phytosanitary products were used, as follows: NATIVO PRO 325 SC (prothioconazole 175 g/l + trifloxystrobin 150 g/l) and RETENGO (Pyraclostrobin 200 g/l). The treatment variants were the following: V1 – NATIVO PRO 325 SC 0.7 L/HA, 1 treatment applied at booting – flowering phase; V2 - RETENGO 0.5 /L/HA, 1 treatment applied at booting – flowering phase, V3 - NATIVO PRO 325 SC – 0.7 L/HA, 1 treatment applied at straw's extension + 1 treatment applied at kernel filling; V4 - RETENGO 0.5 L/HA, 1 treatment applied at straw's extension + 1 treatment applied at kernel filling and V5 – Control variant not treated. The experiment was placed in Latin square, the 5 variants being placed in 5 repetitions. The year 2023 was a year with a relatively wet spring and early summer. The experiment was irrigated in the spring of 2023 with the norm of 600 m^2 of water / ha. The experiment was established after rapeseed. The climatic conditions were favorable to the attacks of some wheat pathogens, at higher values than in 2022, year which was very dry. The yields of the variants were as follows: V1 – 7,056 t/ha, V2 – 7,287 t/ha, V3– 6,783 t/ha, V4 – 6,783 t/ha and V5 (control variant not treated) – 6,720 t/ha.

Key words: *Puccinia*, *Septoria*, Latin square