

THE INFLUENCE OF TREATMENTS WITH VARIOUS PHYTOSANITARY PRODUCTS (FUNGICIDES) ON THE ATTACK OF SOME PHYTOPATHOGENIC FUNGI ON WHEAT HARVEST – GLOSA VARIETY - IN 2024 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 some fungicides on the harvest, as compared to the untreated control variant, has been monitored. One experiment with 7 variants (6 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: CYDELI TOP (125 g/l difenoconazole, 15 g/l cyflufenamid), EVALIA (250g/l azoxystrobin) and MYSTIC GOLD (250 g/l tebuconazole). The treatment variants were the following: V1 – CYDELI TOP 0.5 L/HA - treatment applied at straw's extension + 1 treatment at the filling of a wheat grain, V2--CYDELI TOP -0.5 L/HA - treatment applied in booting phase, V3 - EVALIA 1.0 L/HA - treatment applied at straw's extension + 1 treatment at the filling of a wheat grain; V4 - EVALIA 1.0 L/HA - treatment applied in booting phase, V5 - MYSTIC GOLD 1.0 L/HA - treatment applied at straw's extension + 1 treatment at the filling of a wheat grain, V6- MYSTIC GOLD 1.0 L/HA - treatment applied in booting phase and V7 - Control variant not treated. The experiment was placed in Latin square, the 7 variants being placed in 7 repetitions. The year 2024 was a year with a relatively wet spring and early summer for the area where the experiment was performed. The experiment was established after corn. The climatic conditions were favorable to the attacks of some wheat pathogens, especially those of *Septoria* sp. genus. The yields of the variants were as follows: V1 – 8.565 to/ha, V2 – 8.421 to/ha, V3- 8.579 to/ha, V4 – 8.351 to/ha, V5 8.584 to/ha, V6 – 8.345 to/ha and V7 (control variant not treated) – 7.587 to/ha.

Keywords: *Puccinia*, *Septoria*, latin square experimental design