

INFLUENCE OF FOLIAR FERTILIZATION ON YIELD AND GRAIN QUALITY OF CORN

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We examined the influence of foliar fertilization on the yield and grain quality of corn in 2018. The experiment was set in three replications, random blocks on the area of Tangazdaság Ltd. in Hódmezővásárhely. The soil of the experiment was meadow chernozem. We sprayed out three different foliar fertilizer products individually and combined with each other as well, so there were six treatments and the control to be examined. The year 2018 was not favourable for corn production. In 2018, the amount of precipitation in the vegetative period of corn was lower by 54.2 mm than the average. The monthly average temperature in the vegetative period of corn was higher by 4 °C than the average of several years. We evaluated the obtained data by single factor analysis of variance. We obtained 10.33 t/ha in the control treatment, and with the foliar fertilization the yield ranged between 10.52-11.40 t/ha. The foliar fertilization products increased the yield of corn, but this difference was not significant. By the application of foliar fertilization, the crude protein and starch content of corn grain did not changed significantly. Our scientific results showed, that the foliar fertilization has positive effect on the yield of corn and small effect on the examined grain quality parameters.