

THE EFFECT OF DIFFERENT WEED CONTROL TECHNOLOGIES ON YIELD OF MAIZE AND PROFITABILITY OF MAIZE PRODUCTION

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In our investigation we used different weed control technologies in the different phenology states of the maize. The farm experiment have been carried out in 2017, in Hungary, Kunágota, on good quality chernozem soil, on 20 x 50 m plots.

The experiment can be regarded as 9 weed-control strategies where, in addition to the untreated control, two chemicals are applied (*Laudis*, *Capreno*) in different doses, two mechanical weed-control technologies, and two combination of chemicals and mechanicals weed-control technologies were used. Mechanical weed-control place connected to the herbicide treatments in different times: until 4-6-leave age weedless, in 4-6-leave age hoed once, in 4-6-leave age cultivation once.

Our farm experiment were assessed the number of plant, length of plant, leaf number of maize, corncob-number, corncob-lengt, line number of corncob, thousand seed weight yield and profitability of maize production. Our results were evaluated by a one-factor analysis of variance.