



Effect of fertilizing system to weed infestation

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The effect of the fertilizing system on weed infestation in conditions of field crop rotation, as well as uptake of macronutrients from *Cirsium arvense* and *Sinapis arvensis* were studied. Four variants were included in field experiment . organic, organic-mineral, mineral system and unfertilized control. The weed infestation was the highest at the organic system (about 80 numbers of weed per m²), followed from the organic-mineral (about 65 numbers of weed per m²), and the mineral (about 60 numbers of weed per m²). The weeds blocked considerable amounts of nutritional elements for cultivated crops. One kilogram dry mass *Cirsium arvense* collected at the beginning of the vegetation contained about 36 g N, 5.3 g P₂O₅ и 33 g K₂O. The *Sinapis arvensis* take up 30 – 50 g nitrogen, or 1.1 - 6.3 g phosphorus and 45 . 53 g potassium per kilogram dry mass, depending on the level of fertilization.