

Abstract

Considering the importance of corn and the effect of weed reducing on its function, an experiment was conducted to investigate the effect of weed weeds, chemical and organic fertilizers and their combinations on quantitative and qualitative yield of single grain cereal forage in the form of A randomized complete block design with three replications was conducted at the Zabul University-New Campus Educational Field. The main factors of the fertilizer type include: recommended fertilizer 250, 150, 200 kg ha⁻¹, nitrogen, phosphorus, potassium, manure 40 ton / ha and combine livestock and chemical (manure 20 tons per hectare, nitrogen fertilizer, phosphorus, Potassium included: 125, 75, 100 kg / ha). The weed control factor of weeds included: weeding, weeding (one month after planting), two barrowing (one month and two months after planting). Characteristics of the study included: plant height, fresh weight, dry weight of forage, biological yield, 1000 grain weight, grain number per ear, grain nutrients (nitrogen, phosphorus, potassium, calcium, magnesium), nutritional elements of forage (nitrogen, phosphorus , Potassium, calcium, magnesium), NDF, ADF, Ash, soil nutrient elements (nitrogen, phosphorus, potassium, magnesium), crude protein and fodder. The results showed that the interaction of fertilizer and weeding at 5% level was significant for biological yield. By interaction of fertilizer and weeding, 1000-grain weight, forage phosphorus concentration, forage nitrogen concentration, calcium grain concentration, soil ec, grain crude protein, protein Crude fodder, magnesium concentration, soil magnesium concentration, NDF (100% weed manure, 32/35%), ADF (100 % non-weed manure, 32.35%), grain phosphorus concentration and soil phosphorus concentration at 1% level were significant. The results of mean comparison indicated that organic carbon and grain potassium concentration were significant for weed effect and phosphorus concentration for fertilizer effect at 1% level.

Keywords: Corn, Fertilizer, Biological Function, Food Elements



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