

Response of Some Properties Cotton of the Tillage System and Fertilizers

Mohammed M. Ali

Rajaa M. Hameed

Abdul-Razzak A. Jasm

Lecture

Lecture

Professor

University of Baghdad

University of Baghdad

University of Diyala

Abstract

A field experiment was conducted at the college of Agriculture, Baghdad University during the two seasons of 2006 and 2007. The objective of this study was investigate to responses of some properties cotton of tillage system and fertilizers.

The tillage systems treatments including, moldboard plow, chisel plow and no-tillage and four fertilizers treatments including cow and chicken manure, chemical fertilizers with control treatments were used in this study. Split plot design under randomized complete block design with three replications and L.S.D (0.05) were used to compare the means of treatments, plant height , length of inter nodes leaf area , number of sympodia preplant, dry root weight and lint yield were studied in this research . The experimental results showed the following:

Tillage moldboard treatment was significant increased percentage (33.08 , 31.06%) , plant height (32.23 , 25.10%) , length of inter nodes (17.75 , 16.46%) , number of symodia preplant (62.49 , 57.51%), dry root weight (71.11, 65.05%) for the two seasons , also increased lint yield percentage 32.10% during seasons 2006.

Fertilizers treatments including , cow and chicken manure , increased in leaf area, plant height , length inter nodes , number of sympodia dry root weight and lint yield for the two seasons.

The interaction between tillage moldboard and fertilizer include cow treatment was significant increased all the properties were studies in this research.