

The effect of some Tillage system and Fertilizers on Yield and Yield components of Cotton

Abdul-Razzak A. Jasim	Mohammed M. Ali M.Hameed	Rajaa
Professor	Lecture	Lecture
University of Baghdad	University of Baghdad Diyala	University of

Abstract

The experiment was conducted during the two seasons of 2006 and 2007, to evaluate the effect of tillage systems and fertilizers on yield and yield components of cotton at the college of Agriculture field, university of Baghdad.

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 replication and L.S.D (0.05) were used to compare the means of treatments, total bolls number, number of open bolls, seedindex, weightbolls, lint percentage and seed cotton were studied in this research . The experimental results showed the following:-

1-Tillage moldboard resulted in a significant increased in number of open bolls (17.88 and 18.55 boll/plant) , total bolls number (27.42 and 28.30 boll/plant) seed cotton yield (33.90 and 36.25%), weight boll, seedindex for the two season and lint percentage for the second season.

2- Fertilizers treatments including, cow and chicken manure, increased in total bolls number , number of open bolls, weight bolls, and seed cotton yield for the two agriculture seasons.

3- The interaction between tillage systems and organic fertilizers include cow in all the properties were studied in this research.