## Response of Some Cotton Gossypium Hirsutum L. Properties to the Tillage Systems and Fertilizers

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## ABSTRACT

A field experiment was conducted at the farm of the college of Agriculture, Baghdad University during the two seasons of 2006 and 2007 on cotton Gossypium Hirsutum L.. The objective of this study was investigated to response of some cotton properties to tillage systems and fertilizers. A split plot design under randomized complete block design with three replications was used. Tillage systems (moldboard plow, chisel plow and no-tillage) were represent main plot treatments, fertilizers ( cow and chicken manure, chemical fertilizer and no fertilizer) as sub plot. L.S.D (0.05) for comparing the means of properties was used in this experiment. Leaf area, Plant height, length of inters nodes, number of sympodia per plant, dry root weight and lint yield were studied in this research. The experimental results showed the following: \* Tillage moldboard treatment was significant increased percentage of leave area, plant height, and length of inter nodes, number of sympodia per plant, dry root weight for the two seasons, also increased lint yield percentage during seasons 2006 compared with other treatments. \* Cow and chicken manure fertilizers treatments, increased in leaf area, plant height, length inter nodes, number of sympodia dry root weight and lint yield for the two seasons compared with other treatments. \* The interaction between tillage moldboard and fertilizer include cow treatment was significant increased all the properties were studies in this research compared with other treatments.