

EFFECT OF ORGANIC AND NITROGEN FERTILIZERS ON QUALITY AND QUANTITY CHARACTERS OF WHEAT (*Triticum aestivum* L.)

By

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ABSTRACT

The experiment was conducted in large pots size 8 kg soil, using complete random design (CRD) with three replicates in Biology Department, College of Education for Pure Science, Al-Anbar University, Iraq, to study the effect of organic (sheep manure) and nitrogen fertilizer (urea 46%) and the interaction on quantity and quality characters of two wheat varieties (Abu-Ghraib and Ibaa 99) under normal conditions. Results showed superiority of urea and organic fertilizer treatments for all studied characters. The interaction treatment between nitrogen fertilizer (400kg/ha) and Organic fertilizer (18 ton/ha) scored high significant percentage compared with control treatment, for Abu-Ghraib variety was: no. of grains/spike (136%), total grain yield gm/pot (246 %), total weight of 1000grains (75 %), protein in grain (232 %) and starch (33 %). While for Ibaa variety was: 142%, 240%, 89%, 248% and 38% respectively. Ibaa variety was more response than Abu-Ghraib variety.

Key words: Wheat, Organic, Nitrogen Fertilizer, Quality Characters.