

EFFECT OF QUALITY OF IRRIGATION WATER AND NITROGEN FERTILIZER ON MILLET CROP

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ABSTRACT

Factorial experiment was conducted with randomized complete design at College of Agriculture during (2001- 2002), (10Kg) of silty loam soil was put at each pot, (10plants) of millet were planted per pot. The first factor was nitrogen levels (80,160, and 240 Kg N.ha⁻¹), while second factor was quality of irrigation water (Dijla Deraa and Abu Ghraib rivers).

Results showed that reduced yield of green forage percentage (15.93 %)when irrigated with Dijla Deraa river in comparison with Abu –Ghraib river, leaf flag area was increased percentage (44.06 %, 45.50%) when used second and third levels of nitrogen fertilizer in comparison with the first, high percentage protein in grain of millet was (12.55 %) when interaction between third nitrogen level with Abu – Ghraib river.