

**EFFECT OF IRRIGATION INTERVALS FLOWERING AND NITROGEN
FERTILIZER LEVELS ON GROWTH CHARACTERS AND YIELD IN COTTON(**

Gossypium hirsutum L.)

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ABSTRACT

Field experiment was carried out in Diyala during growing season 2008 , to investigate the effect of three irrigation date (17,14,21,Day) after flowering and two Levels of Nitrogen (100,200 kgN .h-1) on growth characters and yield and yield component of cotton (var .lashata) . The experimental design was randomized complete block design in factorial experiment with three replications . The results were as follows:

1.The irrigation date at21 day gave higher percentage of plant height (43.55%) number of nodes (44.85 %) ,leaf area (55.44 %) ,leaf number (42.86 %) as compared with irrigation date at 7 days , an gave length of inter nodes (5.47 cm) , number of sympodia branch per plant (27.78) compared of irrigation date 7 days (5.40 cm +13.94 branch) respectively, and gave higher percentage of cotton yield (68.20%) as compound of irrigation date 7 days .

2. High level of nitrogen with 200 kgN .h-1 .gave higher percentage of plant height(11.38%),number of nodes (18.56%),length of inter nodes(6.56%), leaf area (62.35%), leaf number (38.06%), number of sympodia branch per plant (69.08%), and cotton yield (84.39 %) as compared of application (100kgN . h-1).

3.Significant interaction were observed between irrigation date at 21 and Nitrogen applied at (200 kgN .h-1) in all studied characters .