

Effect of Date Different Irrigation After Flowers And Nitrogen Levels on Growth  
Character And Yield of Cotton ( *Gossypium hirsutum* L. )

Rajaa M . Hameed

Mamed A . Abod

University of Diyala

Abstract

Field experiment was carried out in Diyala during growing season 2008 , to investigate the effect of three irrigation date ( 7 , 14 ,21, Day ) after flowering and two application of Nitrogen ( 100 , 200 kg.N .h-1 ) on Growth character and yield of cotton (cv .lashata ) . The experimental design was randomized complete block design with three replications . The results showed that ..

.1) The irrigation date at 21 day gave higher percentage of plant height (43.55%) number of nodes ( 44.85 % ) ,leaf area ( 55.44 % ) ,leaf number ( 42.86 % ) as compared of irrigation date at 7 days , and gave length of inter nodes (5.47 cm ) , number of sympodia branch per plant ( 27.78 ) per plant as compared of irrigation date 7 days (13.94 branch ) respectively, and gave higher percentage of cotton yield ( 68.20 % ) as compared of irrigation date 7 days .

.2) Nitrogen application of 200 kg.N .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 perplant(69.08%), and cotton yield(84.39%)as compared of application ( 100kg.N .h-1.3 ) Significant effect of interaction between irrigation date at 21 and Nitrogen applied at (200 kg.N .h-1 ) in all studied characters.