

عنوان مقاله:

اثر توامان تاریخ کشت و زمان تک آبیاری بر بهره وری آب عدس در شرایط دیم

محل انتشار:

مجله تحقیقات آب و خاک ایران، دوره 43، شماره 3 (سال: 1391)

تعداد صفحات اصل مقاله: 7

نویسندگان:

مسعود سلطانی - دانشگاه تهران

عبد المجید لیاقت - دانشگاه تهران

عباس ستوده نیا - دانشگاه امام خمینی (ره)

خلاصه مقاله:

Supplementary irrigation is one of the most effective field management practices to improve water productivity and crop yield in rainfed conditions. Time of supplementary irrigation is another important parameter affecting the enhancement of yield. In order to study the effect of supplementary irrigation time as well as planting date, two factors, namely: ۱) supplementary irrigation (No irrigation as control (T۱), single irrigation at grain filling stage (T۲), and single irrigation at pod filling stage (T۳)); ۲) Planting date (planting on April ۴ (D۱) vs. ۱۴ (D۲)) were considered and a field experiment carried out at the Research and Training Farm of Imam Khomeini International University, Qazvin, Iran in spring ۲۰۱۱. The field experimental design was a factorial one based upon RCBD of six treatments and three replications. Treatments consisted of: D۱T۱ (Planting date on ۴th April - without irrigation as control), D۱T۲ (Planting date on ۴th April - single irrigation at grain filling stage), D۱T۳ (Planting date on ۴th April - single irrigation at pod filling stage), D۲T۱ (Planting date on ۱۴th April - non-irrigated), D۲T۲ (Planting date on ۱۴th April - single irrigation at grain filling stage), D۲T۳ (Planting date on ۱۴th April - single irrigation at pod filling stage). The effect of single irrigation time on yield, biomass and number of grains in unit area was significant as planting on ۴th April and single irrigation at grain filling stage resulted ۲۸۰ and ۲۱۰ percent increase in yield and in biomass respectively, as compared to single irrigation at pod filling stage. The planting date factor showed a significant effect on yield and yield components as the yield decreased from ۱۰۵۷.۶ (kg/ha) for a single irrigation at grain filling stage and planting on ۴th April to ۱۹۰.۹۳ (kg/ha) for a single irrigation at the same stage and planting on ۱۴th April. This means that the delay in planting date caused a reduction of ۸۲ percent in yield for a single irrigation at grain filling stage. This reduction for single irrigation at pod filling was equal to ۸۲ percent and the amount of yield decreased from ۳۷۱.۶ (Kg/ha) for planting on ۴th April to ۶۸.۲ (Kg/ha) for planting date of ۱۴th April.

کلمات کلیدی:

آبیاری تکمیلی، افزایش بهره وری، زمان کاشت، کشت دیم، مدیریت های زراعی

لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/1806247>

