

عنوان مقاله:

Evaluation of the Effect of seed rate and Nitrogen Fertilizer Management on Agronomic Characteristics and Grain Yield Components in guinoa Summer Cultivation in Fars Province

محل انتشار:

دومین کنگره بین المللی مهندسی کشاورزی، منابع طبیعی و محیط زیست (سال: 1399)

تعداد صفحات اصل مقاله: 16

نویسندگان:

Tahreh Owji - PhD student, Department of Agriculture, Fasa Branch, Islamic Azad University, Shiraz, Iran

Farhad Mohajeri - Assistant Professor, Department of Agriculture, Fasa Branch, Islamic Azad University, Shiraz, Iran

Mahdi Madandoust - Associated Professor, Department of Agriculture, Fasa Branch, Islamic Azad University, Shiraz, Iran

Masoumeh Salehi - Assistant Professor, National Salinity Research Center, Agricultural Research, Education and Extension Organization (AREEO), Yazd, Iran

خلاصه مقاله:

In order to investigate the effect of seed rate and nitrogen fertilizer management onquinoa trait, a two-year factorial experiment based on randomized complete blockdesign was done during the summer of 2017 and 2018 in Kharameh region. Experimental factors included seed rate at five levels of 6, 7, 8, 9 and 10 kg ha-1 and nitrogen at six levels of 120, 150 and 180 kg ha-1 nitrogen divided into 2 (twoleaf, Budding) and 3 times (two leaf, budding and pollination initiation), respectively. With increasing seed rate, grain yield increased from 1716.33 to3622.92 kgha-1 and increasing nitrogen from 120 to 180 kg ha-1 increased the grainyield in the 2 and 3-time split treatments by 17.2% and 17.1%, respectively. Regarding the interaction between seed rate and nitrogen on grain yield, thehighest yield was obtained at 10 kg ha-1 seed with 180 kg ha-1 N per hectaredivided at 3 times with average yield of 3740 kg ha -1 and the lowest grain yieldwas obtained from interaction of 6 kg ha-1 seed with 120 kg ha-1 of nitrogen splitat two times with average yield of 1305 kg ha-1. With increasing seed rate, number of sub panicles per plant significantly increased from 6.95 to 14.6. Among nitrogenlevels, the highest 1000-seed weight was obtained by treatment with 180 kg usingthree times (2.8 g). Whit increasing the number of nitrogen application times at each application level significantly increased grain .yield and other measured indices

کلمات کلیدی: Nitrogen Spilit, Quinoa, Seed Amount

لینک ثابت مقاله در پایگاه سیویلیکا:

https://civilica.com/doc/1127833

