

## عنوان مقاله:

اثر تاریخ کاشت و تراکم بوته بر ویژگی های کیفی، عملکرد و اجزای عملکرد گوار (Cyamopsis tetragonoloba (L.)) در استان گیلان (Taub)

## محل انتشار:

مجله فرآیند و کارکرد گیاهی، دوره 9، شماره 39 (سال: 1399)

تعداد صفحات اصل مقاله: 18

## نویسندگان:

محدثه حیدرزاده - University of Guilan

سید محمدرضا احتشامی - *Rasht, ۶th km of Rasht Road, Tehran, Guilan University Campus, Faculty of Agriculture, - Department of Agriculture and Plant Breeding*

محمد ربیعی - *Researcher of Rice Research Institute, Rasht*

## خلاصه مقاله:

In order to investigation the effect of planting date and plant density on some quantitative and qualitative traits, yield and yield components of Guar in Guilan province, an experiment was conducted in a factorial experiment in a randomized complete block design with three replications in a research station of Rice Research Institute located in Gilpardesar village at Sangar in ۲۰۱۷. Experimental treatments included Planting dates at four levels (۱۲ May, ۲۶ May, ۹ June, ۲۳ June) and plant density at three levels (۲۰, ۴۰ and ۶۰ plant.m<sup>-۲</sup>). Results showed to delay in planting date from ۲۶ May to ۲۳ June, protein percentage, galactomannan percentage, plant height, dry weight at flowering stage, Number pods per plant, ۱۰۰ seed weight, seed yield and biological yield were decreased ۴۲.۵۵%, ۴۵.۰۹%, ۲۵.۲۶%, ۶۲.۴۲%, ۶۲.۷۲%, ۱۳.۸۲%, ۷۷.۱۴% and ۵۸.۹۶%, respectively. The highest of seed yield (۶۹۸۷.۲۵ Kg.ha<sup>-۱</sup>), protein (۲۸.۲%) and galactomannan (۲۷.۵%) was obtained from ۲۶ May sowing date and plant density of ۴۰ plant.m<sup>-۲</sup>. The above traits also increased with increasing in density from ۲۰ to ۴۰ plant.m<sup>-۲</sup>. But a further increase in density to ۶۰ plant.m<sup>-۲</sup> resulted in a decrease in these traits. Carbohydrate also increased with delay in planting. The number of seeds per pod and fat percentage was not affected by different planting dates and densities. The results also showed to delay in planting reduced the length of the growing season. The results of the present study indicate that proper planting date and plant density play an important role in yield enhancement and quality characteristics of guar seed and planting date of ۲۶ May and density of ۴۰ plant.m<sup>-۲</sup>, due to longer growing season and appropriate climatic conditions. In addition, pod yield and seed weight, were higher seed yield than other treatments

## کلمات کلیدی:

,Cluster bean, Galactomannan, Planting date, Planting intervals, Protein, Yield  
پروتئین، تاریخ کاشت، عملکرد، فواصل کاشت، گالاکتومانان، لوبیای خوشه ای

## لینک ثابت مقاله در پایگاه سیویلیکا:

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