Influence of variety and plant spacing on productivity of Okra

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Abstract:

The present experimental work was carried out in the Vegetable Research Farm, Faculty of Agriculture, Assiut University in two summer seasons (2006 and 2007) to study the effect of two varieties; Balady Quena and Emerald, and their interaction plant spacing; 15, 30 and 45 cm between hills within ridge on productivity of okra plants. Results of the two seasons, noticed that Emerald cultivar showed earlier flowering, longer green pod, higher number and weight of green pods/plant and heavier total yield of green pods/fed. While, Balady Quena showed later flowering, longer plant height and higher branches/plant. The results exhibited that all the yield components and total yield were significantly affected by plant spacing. The wider spacing (45 cm) increased branch number/plant, and number and weight of pods/plant. However, plants grown at 15 cm produced the tallest plants and the highest yield of green pods/fed. The high total green yield may be attributed to higher plant density/fed., at plant spacing of 15 cm, compared to wider spacing. The interaction between varieties and plant spacing was significant in both seasons for plant height, number and weight of green pods/plant and total green yield/fed.

Keywords:

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Published In:

Alex. J. Agric. Res. , 56 -2 , 21-27