

Effect Of Row Spacing On Growth And Yield Of Sesame

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Soybean planted in 38?cm row spacing yielded 248 kg ha ?1 greater than soybean planted in 76?cm rows after adjustment for differences in final plant populations. Maximum yield at all locations was attained at a final harvest population of 462,200 plants ha ?1 but >95% of the maximum yield was achieved with final populations as low as 258 600 plants ha ?1 .

Effect of Row Spacing and Seeding Rate on Soybean Yield ...

The aim was to evaluate yield and yield parameters, such as number of capitula, floret yield, and carthamidin content for (i) two cultivars grown with (ii) two row spacing (12 and 33 cm) using (iii) two sowing densities (40 and 75 plants m⁻²), and (iv) five harvest dates. Results showed that lower sowing densities resulted in a significantly larger number of branches and capitula per plant and higher yields of florets and carthamidin.

Agronomy | Free Full-Text | Effect of Row Spacing, Sowing ...

Transgenic, herbicide-resistant cultivars and equipment to spindle-pick 38-cm rows has renewed interest in narrow-row cotton production. Field

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experiments were conducted at four locations in North Carolina during 2004 and 2005 to evaluate weed management systems in glufosinate-resistant cotton planted in 38- and 97-cm rows. Weeds included broadleaf signalgrass, goosegrass, fall panicum, large ...

Effect of Row Spacing on Weed Management in Glufosinate ...

No significant effects of row spacing and plant density were detected. The yields for 0 and 40 kg N ha⁻¹ rates were similar, while applying 20 kg N ha⁻¹ reduced, on average, soybean yield by 14.5%. The planting densities, row spacing, and N rates did not affect wheat yield, or oil and protein content in soybean seeds.

Effect of Nitrogen, Row Spacing, and Plant Density on ...

The extinction coefficient showed a linear decrease as row spacing increased. For each crop, the effect of row spacing on k was described by one linear regression for most data. Stage of crop development and stage of development \times row spacing interaction did not significantly affect k during the period of measurements. The effect of time of day was significant for all four crops, and the time of day \times row spacing interaction was significant for soybean and sunflower.

Row Spacing Effects on Light Extinction Coefficients of ...

The results showed that using of different row spacing had no significant effect on parameters that have been taken except the plant height; however plant height, number of tiller per plant, spikelet. per spike, grains per spike, biological yield, grain yield and straw were significantly affected by different seed.

Effects of Seed Rate and Row Spacing on Yield and Yield ...

The effect of row spacing showed that the highest biological yield of 14.13 t ha⁻¹ was obtained from cross sowing of 30 x 30 cm² apart while lowest 7.88 t ha⁻¹ was obtained from 45 cm apart rows. The results obtained agree with Nazir et al. (1987) who reported that cross sowing increased biological yield. Grain yield (t ha⁻¹)

Effect of Row Spacing on the Grain Yield and the Yield ...

The combined main effect of inter- and intra-row spacing was highly significant ($P < 0.01$), while their interaction had no significant effect on plant height (Table 1). The maximum plant height (79.83 cm) was recorded at inter-row spacing of 20, 30 and 40 cm (Table 2).

Effect of inter- and intra-row spacing on yield and yield ...

Significant effect of seed rate and row spacing on different parameters was recorded. Row spacing at 45cm produced the highest number of cobs/m², number of cobs/plant and 1000 grain weight. In each row spacing increase in seed rate resulted in increase in plant height. Increase in the seed rate and row spacing resulted in decreased stem diameter. Maximum yield was recorded with 45cm spacing and 35kg/ha seed rate.

Effect of seed rate and row spacing on grain yield of ...

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On the other hand, row spacing effects on k ($P < 0.05$) were only detected at the lowest plant population, where a more square planting pattern (wide-row spacing) promoted a significant increase in k . The light attenuation–GLAI relationship (Fig. 4) fitted to our data at this stage did not provide evidence of a direct effect of leaf azimuthal distribution on light interception.

Plant population density, row spacing and hybrid effects ...

The interaction effect of variety and inter row spacing were highly significant on number of primary branches, on crop stand count percentage at harvest, grain yield and harvest index, number of pods per plant, grain yield

Effect of Inter Row Spacing on Yield Components and Yield ...

In most cases, there is no difference between 7.5, 10, 15, or 20 inch row spacing and anything less than 30 inch is therefore consider narrow row spacing. Most of these studies have concluded that planting soybean in narrow rows will increase yields with the largest increases in yield occurring in the northern Corn Belt.

Row Spacing is important to maximize your yield ...

afield experiment was conducted at Addis Ababa university, selale campus horticulture department demonstration farm to assess the effect of plant density (intra-row spacing) on growth (days to maturity, plant height, leaf length and leaf number) and

(PDF) Effect of Intra-Row Spacing on Growth and Yield ...

All 3 varieties tested in 2012 had greater average yield in 7.5-inch row width than 15-inch row width. Yield response to row width in 2012 was similar to results observed in 2010. 2011 was an unusual year in which 15-inch row width had greater yields than 7.5-inch row width. 25R40 had the highest yield across both row widths.

Row Spacing Effect on Yield of Wheat Varieties | Pioneer Seeds

Jason L. De Bruin, Palle Pedersen, Effect of Row Spacing and Seeding Rate on Soybean Yield, *Agronomy Journal*, 10.2134/agronj2007.0106, 100, 3, (704-710), (2008). Wiley Online Library Jason L. De Bruin, Palle Pedersen, Soybean Seed Yield Response to Planting Date and Seeding Rate in the Upper Midwest, *Agronomy Journal*, 10.2134/agronj2007.0115, 100, 3, (696-703), (2008).

Effect of Plant Population and Row Spacing on Soybean ...

The low productivity of maize is attributed to many factors such as poor agronomic practices like inappropriate seed rate, row and plant spacing, poor soil fertility, drought, insects, diseases and weeds, farmers' limited access to fertilizers, and low access to seeds of improved maize varieties [5].

Effect of Inter and Intra Row Spacing on Growth, Yield ...

The productivity of common bean is low due to use of inappropriate inter and intra row spacing for varieties with different seed sizes and growth habits in

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the study area.

Effect of Plant Spacing on Yield and Yield Related Traits ...

Abstract and Figures To determine the effect of row spacing on earliness in cotton, 3 cultivars viz., NIAB-111, CIM-496 and FH-901 were grown with three row spacings of 60, 75 and 90 cm following a...

Plants are important for a permanent ecosystem, because in the ecological pyramid plants support all the other living organisms at the base. Very important organization is thought to be the integral process of resource, transport, partitioning, metabolism, and production, which involves yield, biomass, and productivity in plants. Accordingly, it is important to obtain more information about the knowledge concerning yield, biomass, and productivity in plants. Soybean is one of the main crops largely contributing to our life, which is thought to be connected to our ecosystem through the above-mentioned integral process. This book focuses on the soybean, and reviews and research concerning the yield, biomass, and productivity of soybean are presented herein. This text updates the book published in 2017. Although there are many difficulties, the main aim of this book is to present a basis for the above-mentioned integral processes of resource, transport, partitioning, metabolism, and production, which involves yield, biomass, and productivity in plants (soybean), and to understand what supports this basis and the integral process. It is hoped that this and the preceding book will be essential reads.

The present study is the research work of my M.Sc. which titled "optimizing row spacing in different wheat cultivars" was conducted at Agronomic Research Farm, Department of Agronomy, Faculty of Agricultural sciences and technologies, Bahauddin Zakariya University, Multan. Three row spacings viz. 10, 20 and 30 cm and five wheat genotypes viz. Sehar-2006, FS-2008, Lasani-2008, AS-2002 and TD-I were included in the study. The experiment was laid out in randomized complete block design (RCBD) with split plot arrangements having net plot size of 5 m x 1.8 m and replicated three times. Row spacings were kept in main plots while wheat genotypes were kept in sub plots.

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