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The Effects Of Row Spacing

Row spacing had a varying effect on yield depending on the year, but it appears 36-inch rows are too wide and reduce yield. 'Shawnee' switchgrass had greater nutritive value than 'Liberty' switchgrass. Row spacing did not appear to affect forage nutritive value. Figure 1.

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Effect of Row Spacing on Switchgrass Yield and Nutritive ...

The study did not show any practical, short-term effects of row spacing on weed control that could not be managed with well-timed herbicide applications. With that in mind, row spacing effects on weed control put more pressure on

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herbicides and may be of much greater importance when dealing with hard to kill or herbicide-resistant weeds.

Studying row spacing effects - Top Crop Manager

Regarding the effect of intra-row spacing, the aboveground dry biomass increased with a decrease in intra-row

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spacing where the highest aboveground dry biomass yield (4009.92 kg ha⁻¹) was recorded at narrow intra-row spacing of 5 cm, which had a significant difference with 10 cm, while the lowest aboveground dry biomass yield (3296.67 kg ha⁻¹) was recorded at wider intra-row spacing of 15 cm (Table 8).

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

The effects of row spacing (10, 20, 30 cm), sowing rate (54, 108, 161 kg/ha for barley; 67, 134, 202 kg/ha for spring wheat) and seed-placed phosphorus (0, 8, 16 kg/ha) on root diseases in spring wheat and barley were studied using a zero-tillage production system at Indian

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Head, Saskatchewan (heavy clay) and Rapid City, Manitoba (clay loam) in 1993 and 1994.

Effects of row spacing, seeding rate and seed-placed ...

The extinction coefficient showed a linear decrease as row spacing increased. For each crop, the effect of

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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

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Row Spacing Effects on Light Extinction Coefficients of ...

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.

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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 ...

No significant effects of row spacing and plant density were detected. The yields

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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,

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and Plant Density on ...

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

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

Row spacing requirements of wheat depend on architecture and growth pattern of the varieties. For higher yield, higher proportion of incident radiation at the soil surface must be intercepted

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by crop canopy [5]. If a row distance is too wide, solar radiation that falls between crop rows remains un- utilized.

Effect of row spacing and direction of sowing on yield and ...

effects of inter and intra row spacing on yield and yield related traits of common bean varieties. The two common bean

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varieties [Hawassa dume (small seed sized) and Ibbado (large seed sized)], three inter (30 cm, 40 cm and 50 cm) and three intra (7 cm, 10 cm and 13 cm) row spacing were factorially combined in randomized complete block design ...

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

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Row spacing primarily influenced stem density, where the 19 cm row spacing produced the highest stem densities for all site-years.

The effect of row spacing and seeding rate on biomass ...

All 3 varieties tested in 2012 had greater average yield in 7.5-inch row width than

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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

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Wheat Varieties | Pioneer Seeds

Such micro-environment could be enhanced by proper configuration of row direction and row spacing, e.g., row spacing of 70 cm and 50 cm had greater photosynthetic production potential than row...

Effects of row direction and row

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Linear mixed model analyses were performed to evaluate the effects of N, row spacing, and fungicide timing on leaf rust, Fusarium head blight (FHB), and deoxynivalenol (DON), and to quantify ...

Effects of Row Spacing and Nitrogen

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Rate on Wheat Grain ...

Average bulb weight loss during storage also was higher at the intra-row spacing of 5 cm than 7.5 cm. Moreover, the result revealed that 'Melkam' and 'Bombay' Red varieties were superior in yield and an intra-row spacing of 7.5 cm can gave

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An investigation on the influence of intra-row spacing and ...

Row spacing had no effect at the lowest population, while at the higher populations, more grain was produced with the wider (76.2 cm) row spacing. With the wider rows, plants within each row were spaced closer together, leading to increased competition at high

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established populations.

Row Spacing and Population Effects on Yield of Grain ...

The data were collected from middle rows of a net plot area where the two outer most rows of each treatment were left as border effects. In addition, 0.05, 0.075, 0.1 and 0.12 m length in both

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ends for 5, 7.5, 10 and 12 cm intra row spacing, respectively, of each harvestable row were also left as border effects. Statistical analysis

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

Wider row spacings tended to increase grain yield. Defoliation increased grain

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yield in the first 2 yr, but may have decreased stand vigor in later years. Neither management practice fundamentally mitigated yield decline. The main cause of yield decline was the reduction in grain num-

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