A Comparative Evaluation of the Effect of Row Width on the Yield of Soybean. (C03-christmas124726-Poster)

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Abstract:

A study was carried out from 2000 to 2002 to evaluate the effect of 19, 38, and 76-cm row spacing, utilizing a drill, and 38 and 76-cm row spacing, utilizing a corn planter, on the yield of soybean in a rotational corn-soybean production system. Three seeding rates were utilized for each row spacing, consisting of 1) the recommended seeding rate of 495,000, 410,000, and 335,000 seeds/ha respectively for the 19, 38, and 76-cm row spacing, 2) the recommended seeding rate minus 25% and 3) the recommended seeding rate plus 25%. The mean yields for the first two years of the study were 3674, 3551, and 3369 kg/ha respectively for the 19-cm row spacing using the drill, 38-cm row spacing using the planter and 76-cm row spacing using the planter. The 19-cm row spacing yielded 9% more than the 76-cm row spacing while the 38cm row spacing gave a 5% increase in yield when compared to the 38cm row spacing. A 25% reduction in seeding rate had the greatest negative effect at the 19cm row spacing while a 25% increase in seeding rate had the greatest positive effect at the 76-cm row spacing.

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