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RESEARCH ARTICLE :

Effect of planting geometry on cane yield and water productivity under sub-surface drip fertigation system

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SUMMARY : Field experiments were conducted at Agricultural Research Station, Bhavanisagar, Tamil Nadu from 2008 to 2011 to optimize the row spacing and planting geometry under sub-surface drip fertigation system. The experiment was laid out in a Randomized Block Design and replicated thrice. The treatments imposed were Lateral spacing of 120 cm, 135 cm, 150 cm, 165 cm and 180 cm of either single row or dual row planting. The result indicated that among the different crop geometry lateral spacing of 180 cm planted in dual row recorded significantly the higher cane yield (165.2 t ha^{-1}) and was comparable with both single and double row planting of 150 lateral spacing than the lateral spacing of 120 cm planted in single row (101.6 t ha^{-1}).

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KEY WORDS :

Sub surface, Planting geometry, Yield, Yield attributes, Sugarcane

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