

Effect of planting methods on cane yield, water productivity and economics of spring planted sugarcane (*Saccharum officinarum* L.) in Ambala (Haryana)

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■ **ABSTRACT** : An experiment was conducted at farm of Krishi Vigyan Kendra-Ambala to assess the impact of different planting methods of sugarcane *i.e.* planting methods *viz.*, T₁-conventional planting (60 cm row spacing), T₂-paired row trench plantation method (60:120 cm spacing) and T₃-paired row ridge and furrow plantation method (100:120 cm spacing) on cane yield, water productivity and economics. The cane yield in conventional planting (T₁) was 77.53 t ha⁻¹, 82.50 t ha⁻¹ in paired row trench plantation technique (T₂), and 86.20 t ha⁻¹ in paired row ridge and furrow plantation technique (T₃), which was significantly higher in T₃ than in (T₁) and (T₂). The water productivity was 2.82 in T₁, 3.37 in T₂ and 3.79 in T₃, respectively. The gross return in farmer practice, paired row trench and modified paired row plantation method was 175150.00 Rs. ha⁻¹, 186450 and 194812 Rs. ha⁻¹, respectively. Simultaneously, the BCR was high in paired row trench plantation (2.70) and paired row ridge and furrow plantation method (2.90) than 2.30 in conventional planting.

■ **KEY WORDS** : Sugarcane planting methods, Yield, Water productivity, Economics

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