

Economic analysis of seed production in transplanted pigeonpea [*Cajanus cajan* (L.) Millsp.]

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ABSTRACT

A field experiment was conducted at MARS, Dharwad to evaluate the effect of different age of seedlings and inter row spacing on plant growth, seed yield and economic parameters in transplanted pigeonpea seed production. The seedlings transplanted at 120 cm inter row spacing produced significantly more seed yield (22.46 q/ha), gross returns (Rs.88,760.00), net returns (Rs.72,007.59) and cost benefit ratio (5:28). The 28 days old seedling transplanted to main field produced significantly higher plant height (215.67), primary branches (25.49), secondary branches (30.98), thick stem (2.83 cm), number of pods per plant (300.00), seed yield per plant (269.33 g), seed yield (23.62 q/ha), gross returns (Rs.92,880.00), net returns (Rs.76,116.39) and cost benefit ratio (5:53). Treatment combination of 28 days old seedlings transplanted at 120 cm inter row spacing was found significantly superior with respect to seed yield (24.33 q/ha), gross returns (Rs.97,320.00), net returns (Rs. 80,565.34) and cost benefit ratio (5.80).

KEY WORDS : Economic analysis, Pigeonpea transplanting, Row spacing, Seedling age

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