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# Effect of methods and time of sowing on growth indices in rice fallow blackgram (*Phaseolus mungo* L.) under machine transplanted rice system

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**ABSTRACT :** The field experiments was conducted at Agricultural College and Research Institute, Madurai during *Kharif* 2012 and *Rabi* seasons 2012-2013 to study the effects of methods and time of sowing on soil moisture per cent in rice fallow blackgram. The treatments such as in main plot, three method of sowing, line dibbling ( $M_1$ ), random dibbling ( $M_2$ ), broadcasting ( $M_3$ ) and sub plot, time of sowing 10 ( $T_1$ ), 7 ( $T_2$ ), 4 ( $T_3$ ) and 1 ( $T_4$ ) days before rice harvest. The soil moisture percentage was significantly influenced by methods and time of sowing. The results were observed line dibbling recorded more in case of growth indices like CGR, RGR and NAR. Random dibbling was the next best method of sowing for getting the increased plant growth indices of rice fallow blackgram during *Kharif* and *Rabi*, respectively when line dibbling combined with the time of sowing of 10 days before rice harvest ( $M_1T_1$ ). The sowing method of line dibbling coupled with 10 days before rice harvest ( $M_1T_1$ ) realized higher seed yield of 685 kg ha<sup>-1</sup> during *Kharif* and  $M_2T_1$  622 kg ha<sup>-1</sup> during *Rabi* season.

**KEY WORDS :** Rice blackgram, Transplanted rice system

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