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RESEARCH PAPER

Study of cost effective layout of drip for brinjal (*Solanum melongena* L.)

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Abstract : The treatment combination $S_3I_1F_1$ [planting geometry S_3 175 - 50 x 50 cm with irrigation level I_1 100% ET_{crop} and fertigation level F_1-100% RDF through drip (WSF)] recorded higher values of fruit yield (49.8 t ha^{-1}), highest grosss income (Rs. 4,48,420 ha^{-1}) and maximum B:C ratio (2.61) over the rest of treatment combinations. The lowest values of fruit yield (27.4 t ha^{-1}), gross income (Rs. 2,46,360 ha^{-1}) and B:C ratio (1.31) was noticed under treatment combination of $S_1I_3F_2$ of plant spacing 75x75cm with irrigation level 60 per cent ET_{crop} and fertigation level 80 per cent RDF through drip (WSF). While the control C_2 (surface irrigation with 1.0 IW/CPE ratio) showed lowest average values of fruit yield (12.8 t ha^{-1}), gross income (Rs. 1,15,310 ha^{-1}) and B:C ratio (1.04).

Key Words : Cost, Gross income, B:C ratio, Planting density, Irrigation levels, Fertigation levels, Brinjal

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