Study on cost economics of drip and micro sprinkler irrigation systems for tomato crop

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Abstract: Field experiment was conducted to find out the economic feasibility of drip and micro sprinkler irrigation system for tomato crop. Once the selective merit and demerits of drip irrigation, micro sprinkler irrigation and surface irrigation method in terms of yield, quality of produce, water saving etc., are established, the cost economics of all the three were studied under the experiment. The major constraint in adopting drip irrigation is its economic feasibility. The analysis of the data revealed that, the installation cost of sprinkler irrigation was less (Rs. 94225/-), B-C ratio was high (3.49) and yield also high (54.2 t/ha) as compared to the drip irrigation system which shown very high installation cost (Rs.101891/-) with lower B-C ratio (3.37) and lower yield (53.6 t/ha).

Key words: Drip irrigation, Micro sprinkler, Surface irrigation, Cost benefit ratio