



## Drip Irrigation Advantages Disadvantages

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### INTRODUCTION

#### Drip Irrigation introduction:

'Drip Irrigation', Traps irrigation or drop-drop irrigation is a type of irrigation method which is used for saving water and fertilizers. As you can know from its name that water is dripped drop by drop on the roots of the plants. To take advantage of this, a network of valves, pipes, tubes and emitters has to be installed. With this irrigation method, water is delivered in small amounts, at short intervals, directly to the roots of the plants through plastic drains.



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**Salient Features of Drip Irrigation System:**

1. Sufficient amount of water is always maintained in the root zone of the plants.
2. Due to maintaining proper amount of water and air in the ground through this medium, the growth of the crop remains fast and uniform.
3. In this method the crop is watered every day or every other day.
4. Water is given to the crops very slowly.

**Advantages of Drip Irrigation**

The main advantages of drip irrigation system are:

- Water saving
- Enhanced plant growth and yield
- Uniform and better quality of produce
- Efficient and economic use of fertilizers
- Less weed growth

- Possibility of using saline water
- Energy saving
- Can be automated
- Improved production on undulating land conditions
- No soil erosion
- Flexibility in operation
- Labor saving
- No land preparation
- Minimum disease and pest infestation.

**Disadvantages**

- Expensive initial cost can be more than overhead systems (commercial system)
- The sun can affect the tubes used for drip irrigation, shortening their usable life.
- If the water is not properly filtered and the equipment not properly maintained, it can result in clogging.