



**3. Drought resistant Crops and Seeds**

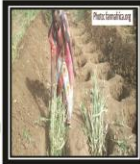
Plant crops which are more tolerant to drought like finger millet, pearl millet, Guinea millet, cowpea, lentils, amaranth, various sorghums, African rice, Ethiopian oats, irregular barley, mung beans and many grasses.

Drought tolerant crop seeds are available both through biotechnology and from native seed varieties.

1. Zai planting pits are hand-dug holes about ten inches wide, ten inches deep, and three feet apart (25cm x 25cm holes one meter apart).

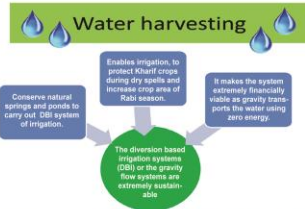
**4. ZAI PITS**

2. They are used to trap water and increase soil fertility, especially in arid regions with degraded, crusty soils. The pits are planted with a mixture of crop residues, manure, and seeds, and covered with a mulch of grass or leaves.



**FLOOD RESISTANT CROP**

Having the right, reliable, and quality seeds in hand for a new planting season is of utmost importance.



**Rain Water Harvesting**

- Some of the benefits of collecting and storing rainwater include-
- Diminishing flooding, erosion and the flow to storm water drain by reducing peak storm water runoff.
  - Reduces demand on wells.
  - Reducing water bills and demand on your community's drinking water supply by using rainwater for flushing toilets, washing clothes, watering the garden and washing cars.
  - Improving plant growth by using rainwater for irrigation because stored rainwater is free from pollutants as well as salts, minerals, and other natural and man-made contaminants.

**Rain Harvesting**



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**Agriculture Water Management**

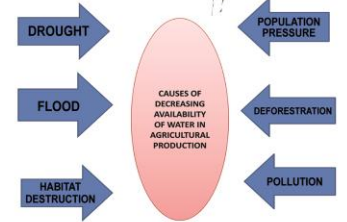


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**"Improving Water And Land Resource Management For Food, Livelihood And Nature"**

**SAVE WATER AND SAVE LIFE**



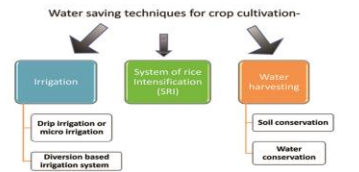
- Stick to the mantra "per drop more crop" during your cultivation period .i.e. from the point of sowing to the point of harvesting.
- Save water per crop cultivation switching onto water saving farm techniques.
- Growing more food with less water usage.

**Save both time and labor**

Drip irrigation delivers water (and fertilizer) either on the soil surface or directly to the roots of plants through systems of plastic tubing with small holes and other restrictive outlets.

Drip irrigation delivers small amounts of water directly to the plant root, resulting in more crop per drop.

**Impact**  
Small farmers adopting drip irrigation increased their incomes by 50-70% within one harvest. As a result, they are able to feed their children more nutritious food and spend more on their education.



**2. Bottle Irrigation and Pitcher (Olla) Irrigation**

• Bottle irrigation and pitcher irrigation are simple techniques that require logical thinking.

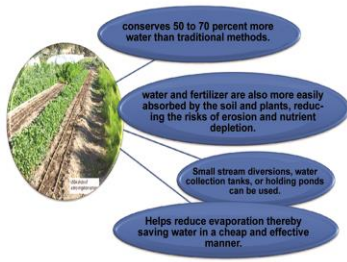
• Drip irrigation is a slow drip system for the soil. It has a small hole with water to infiltrate the soil. It is a simple and easy to use system.

• Water seeps out of the bottom of the pitcher and infiltrates the soil. It is a simple and easy to use system. It is very suitable for the plants which require a lot of water.

**Use of canal water for Rabi crops – one of the important aspect of Diversion based Irrigation System**



**1. Drip or Micro-Irrigation**



**SRI and its prospects**

