HOW TO INSTALL A WATER PAN

Water is a precious resource for livestock and crops.

Water pans catch and store safe, unused rainwater so you can irrigate high-value crops.

WHY WATER PANS?

- Simple to construct
- Provides water for livestock and irrigation
- Simple to use and maintain
How to install a water pan

**CHOOSING THE RIGHT WATER PAN SIZE**

1. What is your financial capacity?
2. What is the size of the area that you will be collecting rainfall from?
3. What is the number of days you will need to irrigate?
4. How much water do you need per day for your crops and livestock?

**BUILD YOUR WATER PAN**

1. **Mark out an area** with wooden pegs and strings and establish a reference for elevation. This will help measure the elevation of dykes, canals and other structures during construction.
2. **Dig the pit** for the water pan to the desired depth. Cart away and spread the soil.
3. **Make gentle slopes on the walls**
   - Should be able to resist water pressure
   - High enough to keep the pond water from overflowing
4. **Compact** the all the surface areas
5. **Install the pan lining** and anchor all sides

**WHERE TO PUT THE WATER PANS**

- **Place water pan downslope** from where water is being collected
- **Place water pan upslope** from the fields being irrigated

**RECOMMENDED WATER PAN SIZES**

<table>
<thead>
<tr>
<th>dimension</th>
<th>width x length x depth</th>
<th>volume</th>
<th>liner width x length</th>
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<td>Bottom</td>
<td>5m x 15m x 1m</td>
<td>100m³</td>
<td>8m x 18m</td>
</tr>
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<td>6m x 16m x 1m</td>
<td>100m³</td>
<td>8m x 18m</td>
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