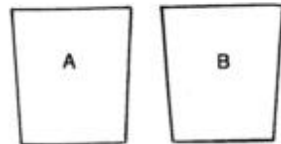


Basic Survival Rain Water Filter System

You must add 10 drops of household bleach, (chlorine) to each gallon of filtered water, to kill bacteria and deter bacteria growth during storage.

Basic Survival Rain Water Filter System

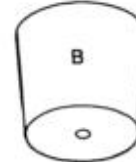
J. GALANTE '97



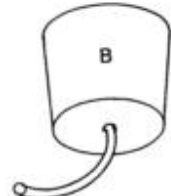
You will need two clean containers such as buckets or wastebaskets, preferably of flexible white plastic. We used new 4 gal. paint buckets.



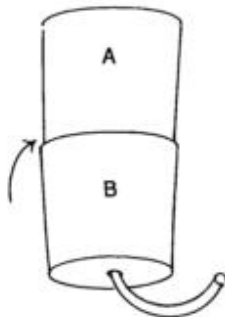
Cut bottom out of container "A" and discard.



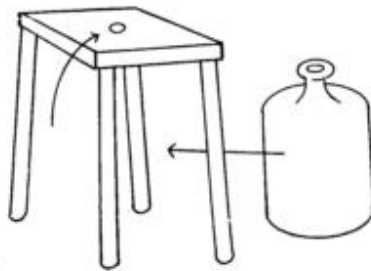
Cut a hole in center of "B" the size of the vinyl tube you have purchased. We used 1/2" diameter non-toxic vinyl, 12" long.



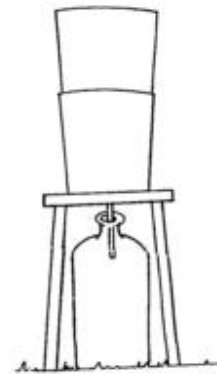
Attach and seal hose into hole in bottom of "B" with silicone sealant.



Container "A" should fit into "B" at about this level. You can glue wedges on sides of "A" to hold at desired level if needed.



Use a table high enough to allow water bottle to fit underneath. Cut hole for tube to pass through.



Finished rain water filter system will look like this.

Filtering Material

1. You will need at least 15 to 20 lbs of granulated activated carbon (charcoal, but NOT the barbecue pit type), which we found at an aquarium supply store. Be sure there are *no chemical additives!* This *must* be *thoroughly* flushed and rinsed before use, until water runs clear, to remove carbon dust. Charcoal must be changed after a while (after 1 month with constant use) because it becomes saturated with contaminants and can release them back into the water
2. You will also need a large package of 100% pure polyester quilt batting (padding), which can be found at most fabric stores. Don't compromise with cotton, it can mildew and rot!

I checked several sources for the amount of chlorine to add to each gallon of filtered rainwater to kill and deter bacteria, and all agreed--10 (ten) drops per gallon.

Option: in step 2 of the diagram above you can leave the bottom of bucket A in place (not cut it out) and poke holes in the bottom with a hot nail. This allows the activated carbon and quilt batting to be kept separated.