

A photograph of a hillside covered in green vegetation, with several large, dark, curved nets strung across it to collect fog. The sky is overcast and foggy. The text is overlaid on the center of the image.

Collecting Water From Fog

A DIY GUIDE

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Have you ever considered that the fog that comes around your space could be collected for use as water? Fog is more than just something that might cloud your line of sight as you travel. It is also something that you could use for your water needs.

Fog consists of small water droplets suspended in the air at or close to the earth's surface. Fog appears mainly as a low-lying cloud.

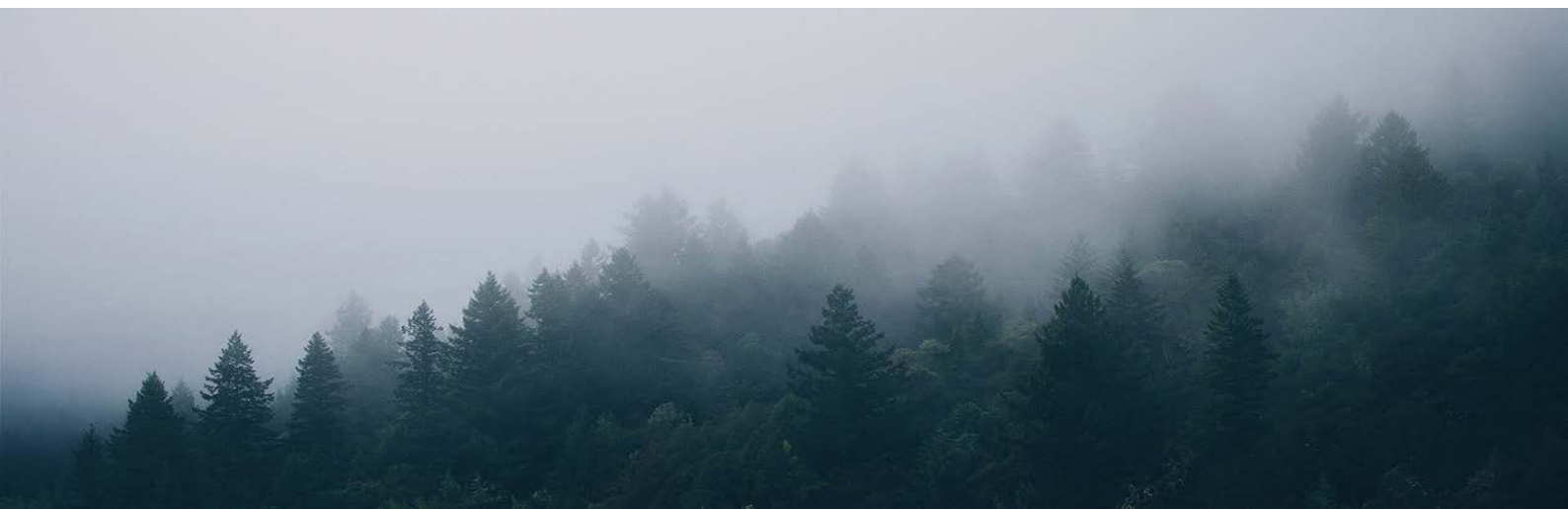
On the surface, fog appears to be something that only hovers in the air. But fog is also something that can be gathered and used for water purposes.

You can collect the fog in your area through the use of a fog catcher. This is a unique material that can be assembled in your backyard and can be stretched out to gather more water.

The General Concept

A fog catcher is a stretched-out mesh material. The design can be about a meter in length on each side. The sheet will work with a copper pipe to collect fog. The fog will condensate into drops of water on the catcher. The drops will flow down to a barrel that links to the fog catcher.

A fog catcher can help you with gathering water from this prominent source. The process for creating a fog catcher is easy to follow.



Materials You Require

You'll need the appropriate items on hand to produce a fog catcher. You can find many of these products from your local Home Depot or Ace Hardware location among other spots.

Your fog catcher will require the following:

- *Two 1-inch by 10-foot galvanized pipes for outside support*
- *Two ¾-inch by 10-foot galvanized pipes as connecting pieces between each pipe on the outside*
- *One additional ¾-inch pipe in the middle for collecting the water*
- *Two ½-inch by 10-foot copper tubes; this produces the structure supporting the catcher*
- *Four 90-degree copper tube elbows; these should be ½-inch each*
- *5/16-inch by 6-inch threaded rod*
- *16 5/16-inch nuts and washers; these should hold the frame and support the post*
- *3x4-foot galvanized sheet metal*
- *14 gauge 500-foot steel cable (you'll need about 120 feet of cable to support the collector, although you can get more cable for many collectors)*
- *3/8-inch Rebar stock for mounting the support cable*
- *1/16-inch and 1/8-inch wire rope clips (you need 16 of these clips to secure the mesh)*
- *2.5 square meters of mesh material*
- *Glue materials for your pipes; you can use epoxy cement if preferred*

There are a few things to notice when it comes to your equipment for the catcher. Make sure the pipes you use are non-corrosive and that the material is smooth enough to allow the fog you collect to flow into a container.

Also, the mesh that you place around the setup should have a firm body. This includes a surface that supports the natural flow of the water produced by the fog.

Assembling the Items



The assembly process will entail the following steps:

1. Secure the outer frame with the 1-inch and $\frac{3}{4}$ -inch by 10-foot galvanized pipe materials.
2. Stretch out the mesh material along the frame that you plan on using.
3. Be sure you use the wire rope clips to support the mesh material.
4. Secure the 90-degree copper elbows along the corners of the frame.
5. Plan the copper pipe around the space. Secure the pipe for collecting the water gently.
6. Secure the 10-foot copper tubes on the bottom for getting

the fog catcher to stand out.

7. Review the cable for supporting the fog catcher. Make sure the cable is linked up to the ground as gently as possible.

8. Apply some cable materials to the top part of the mesh. The cables can be secured with some rope clips to ensure the fog catcher will not tilt or slip.

9. Make sure the pipe in the middle is secured accordingly. This includes ensuring that the pipe can move water accordingly.

10. Use the rebar stock for mounting and apply added cement or other adhesive to the mesh frame to secure the space.

11. Link the threaded cable through the pipe that you will collect the water with.

12. Allow the cable to move towards a secure water collector. Be sure that collect is clean and designed to handle water. Don't forget to keep a secure lid on top.



The process for getting your fog catcher ready will not be hard to complete. You'll need to look at how well your fog catcher works so you can get the moisture from the air without problems. The design of a fog catcher can be worthwhile and can help you get water from a unique source with ease.