

Not Just For Backpacking

Water treatment systems allow you to have safe, convenient, inexpensive drinking water for your full range of outdoor pursuits - including day hikes, paddling, mountain biking, fishing, hunting, climbing, group and family camping - and even help prepare you for emergencies.



Camping/Backpacking



Travel



Fishing/Hunting



Emergencies



Water Treatment Guide



Do You Need A Drinking Water System?

Every outdoor enthusiast has asked this question. Microorganisms generally come from human and animal waste and are spread by rain and run-off. A pristine stream may be safe one day and contaminated the next. It all depends upon what's happening upstream. The EPA reports that 90% of the world's fresh water supply is contaminated. Since you never know what's in the water, it makes sense to always protect yourself with a quality water system.

"We highly recommend treating water from every source in the backcountry. You don't know what's upstream - not just people but animals - and you can get infected."

Center for Disease Control and Prevention, U.S. Government

Beware Of These 3 Types Of Microorganisms



Cysts (1 micron+) - Every water system should remove protozoan cysts since they are present in most water sources. Their relatively large size makes them easy to filter but their protective shell strongly resists most chemical treatments.

Example: Giardia, Cryptosporidium



Bacteria (.2 micron +) - Bacteria is a common threat in untreated water. Most quality water microfilters remove bacteria from outdoor water.

Example: E.Coli, Salmonella

Viruses (.018 micron +) - Viruses are the least common microorganism in outdoor water, however they can also be a serious health risk. Viruses are typically too small to be removed by a water microfilter.

Example: Polio, Hepatitis A, Norwalk Virus

A human hair is approximately 100 microns in width.

What Is Cryptosporidium?

Crypto is a common cyst like Giardia. It was not identified until the 1980's. In 1996, the Safe Water Drinking Act was updated to require Crypto removal from municipal drinking water. It is estimated that Cryptosporidium is present in up to 90 percent of all surface water sources in America. While there is no cure, people with healthy immune systems may recover naturally. For people with weakened immune systems (like HIV), the disease can be fatal.

For more information, go to www.katadyn.us or call 1-800-755-6701 (in Canada 1-877-962-1919).

KATADYN
MAKING WATER DRINKING WATER



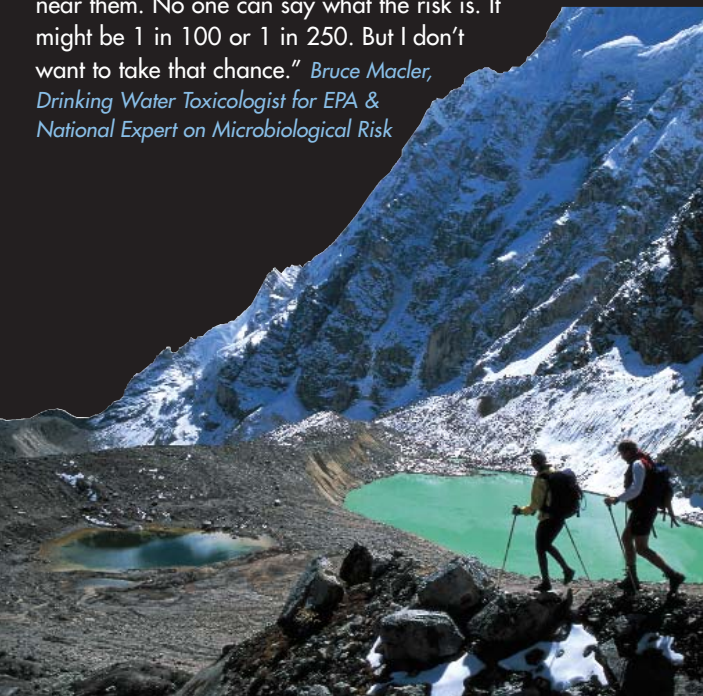
What Do The Experts Say?

"No matter how pristine the setting, backcountry users should never assume that a particular water source is free from viral, bacterial, or parasitic contamination. Purification of water is a must." *Gary Rosenlieb, National Park Service Water Quality Program Head*

"During the past 2 decades, Crypto has become recognized as one of the most common causes of waterborne disease in humans in the United States. The parasite is found in every region of the United States and throughout the world." *Center for Disease Control and Prevention, U.S. Government*

"Wildlife can be chronic carriers of Giardia, which is why we tend to find it most of the time. Crypto is much more erratic. Some years levels are very high." *Joan B Rose, PhD Homer Nolin Chair in Water Research, Michigan State University*

"I don't trust any surface water any longer. Other people are the issue - and there are few places that haven't had people near them. No one can say what the risk is. It might be 1 in 100 or 1 in 250. But I don't want to take that chance." *Bruce Macler, Drinking Water Toxicologist for EPA & National Expert on Microbiological Risk*



What are the Priorities in a Water System?

- Makes water safe to drink
- Dependable & reliable
- Cleans particles from water
- Easy to use
- Improves water taste & reduces chemicals



Is A Disinfectant As Good As A Water Filter?

Products that disinfect the water (tablets, liquid, "pen") require a wait time and do not remove dirt and particles from water. On the plus side, they are usually less expensive and lighter weight. Most people prefer a water filter because it makes fresh water immediately, removes sediment and makes a lot of water in a short time. For many, an ideal solution is to use a water filter as standard equipment and have a disinfectant as a back-up system.

Is A Ceramic Water Filter Better Than A Pleated Glassfiber Filter Media?

It depends on how the product will be used. Pleated water filters are easier to pump, have higher water output and do not require frequent cleaning. They produce approximately 200 gallons (800 liters) of water before the filter needs replacement. Katadyn's ceramic filters have the advantage of extended life and extreme durability. They produce up to 13,000 gallons (52,000 liters) before filter replacement. They also have silver in the ceramic to control the bacteria growth within the filter. Katadyn's ceramic products are extremely durable and are the favored choice for remote locations or extended trips.

Should You Use A Pump?

BENEFITS:

1. Fast and easy to use
2. Treats water instantly - no wait times
3. Performs in all water conditions
4. Makes water clean by removing dirt and particles
5. Pumps with carbon reduce chemicals and improve water taste



DISADVANTAGES:

1. Some pumps are heavy for backpacking
2. Pumps cost more than most disinfectants
3. Pumps need to be maintained

Should You Use A Disinfectant?

BENEFITS:

1. Typically inexpensive
2. Lightweight
3. Some are premeasured for accurate dosage and are simple to use



DISADVANTAGES:

1. Require a wait-time - from 30 minutes to 4 hours
2. Few disinfectants effectively control Cryptosporidium
3. Do not remove dirt and particles from your drinking water
4. Sometimes adds bad taste to drinking water

What are the Advantages of Carbon?

Carbon is a key part of a quality water system. Carbon reduces chemicals from your drinking water and makes the water taste fresh. Ask your retailer which systems include carbon or read packaging details.

