

Water conservation in the home...

1. Check faucets and pipes for leaks

A small drip from a worn faucet washer can waste 20 gallons of water per day. Larger leaks can waste hundreds of gallons.

2. Don't use the toilet as an ashtray or wastebasket

Every time you flush a cigarette butt, facial tissue or other small bit of trash, five to seven gallons of water is wasted.

3. Check your toilets for leaks

Put a little food coloring in your toilet tank. If, without flushing, the color begins to appear in the bowl within 30 minutes, you have a leak that should be repaired immediately. Most replacement parts are inexpensive and easy to install.

4. Use your water meter to check for hidden water leaks

Read the house water meter before and after a two-hour period when no water is being used. If the meter does not read exactly the same, there is a leak.

5. Install water-saving shower heads and low-flow faucet aerators

Inexpensive [water-saving low-flow shower heads](#) or restrictors are easy for the homeowner to install. Also, long, hot showers can use five to ten gallons every unneeded minute. Limit your showers to the time it takes to soap up, wash down and rinse off. "Low-flow" means it uses less than 2.5 gallons per minute.

You can easily install a [ShowerStart](#) showerhead, or add a ShowerStart [converter](#) to existing showerheads, which automatically pauses a running shower once it gets warm.

Also, all household faucets should be fit with [aerators](#). This single best home water conservation method is also the cheapest!

6. Put plastic bottles or float booster in your toilet tank

To cut down on water waste, put an inch or two of sand or pebbles inside each of two plastic bottles to weigh them down. Fill the bottles with water, screw the lids on, and put them in your toilet tank, safely away from the operating mechanisms. Or, buy an inexpensive [tank bank](#) or float booster. This may save ten or more gallons of water per day.

Be sure at least 3 gallons of water remain in the tank so it will flush properly. If there is not enough water to get a proper flush, users will hold the lever down too long or do multiple flushes to get rid of waste. Two flushings at 1.4 gallons is worse than a single 2.0 gallon flush. A better suggestion would be to buy an [adjustable toilet flapper](#) that allow for adjustment of their per flush use. Then the user can adjust the flush rate to the minimum per flush setting that achieves a single good flush each time.

For new installations, consider buying "low flush" toilets, which use 1 to 2 gallons per flush instead of the usual 3 to 5 gallons.

Replacing an 18 liter per flush toilet with an ultra-low volume (ULV) 6 liter flush model represents a 70% savings in water flushed and will cut indoor water use by about 30%.

7. Insulate your water pipes.

It's easy and inexpensive to [insulate your water pipes](#) with pre-slit foam pipe insulation. You'll get hot water faster plus avoid wasting water while it heats up.

8. Take shorter showers.

One way to cut down on water use is to turn off the shower after soaping up, then turn it back on to rinse. A four-minute shower uses approximately 20 to 40 gallons of water.

9. Turn off the water after you wet your toothbrush

There is no need to keep the water running while brushing your teeth. Just wet your brush and fill a glass for mouth rinsing.

10. Rinse your razor in the sink

Fill the sink with a few inches of warm water. This will rinse your razor just as well as running water, with far less waste of water.

11. Use your dishwasher and clothes washer for only full loads

Automatic dishwashers and clothes washers should be fully loaded for optimum water conservation. Most makers of dishwashing soap recommend not pre-rinsing dishes which is a big water savings.

With clothes washers, avoid the permanent press cycle, which uses an added 20 liters (5 gallons) for the extra rinse. For partial loads, adjust water levels to match the size of the load. Replace old clothes washers. New Energy Star rated washers use 35 - 50% less water and 50% less energy per load. If you're in the market for a new clothes washer, consider buying a water-saving [frontload washer](#).

12. Minimize use of kitchen sink garbage disposal units

In-sink 'garburators' require lots of water to operate properly, and also add considerably to the volume of solids in a septic tank which can lead to maintenance problems. Start a [compost pile](#) as an alternate method of disposing food waste.

13. When washing dishes by hand, don't leave the water running for rinsing

If you have a double-basin, fill one with soapy water and one with rinse water. If you have a single-basin sink, gather washed dishes in a dish rack and rinse them with a spray device or a panful of hot water. [Dual-swivel aerators](#) are available to make this easier. If using a dishwasher, there is usually no need to pre-rinse the dishes.

14. Don't let the faucet run while you clean vegetables

Just rinse them in a stoppered sink or a pan of clean water. Use a [dual-setting aerator](#).

15. Keep a bottle of drinking water in the fridge.

Running tap water to cool it off for drinking water is wasteful. Store drinking water in the fridge in a [safe drinking bottle](#). If you are filling water bottles to bring along on outdoor hikes, consider buying a [LifeStraw](#) personal water filter which enables users to drink water safely from rivers or lakes or any available body of water.

Water conservation in the yard and garden...

16. Plant drought-resistant lawns, shrubs and plants

If you are planting a new lawn, or overseeding an existing lawn, use drought-resistant grasses such as the new "[Eco-Lawn](#)".

Many beautiful shrubs and plants thrive with far less watering than other species. Replace herbaceous perennial borders with native plants. Native plants will use less water and be more resistant to local plant diseases. Consider applying the principles of [xeriscape](#) for a low-maintenance, drought resistant yard.

Plant slopes with plants that will retain water and help reduce runoff.

Group plants according to their watering needs.

17. Put a layer of mulch around trees and plants

Mulch will slow evaporation of moisture while discouraging weed growth. Adding 2 - 4 inches of organic material such as compost or bark mulch will increase the ability of the soil to retain

moisture. Press the mulch down around the dripline of each plant to form a slight depression which will prevent or minimize water runoff.

For information about different mulch materials and their best use, [click here](#).

18. Don't water the gutter

Position your sprinklers so water lands on the lawn or garden, not on paved areas. Also, avoid watering on windy days.

19. Water your lawn only when it needs it

A good way to see if your lawn needs watering is to step on the grass. If it springs back up when you move, it doesn't need water. If it stays flat, the lawn is ready for watering. Letting the grass grow taller (to 3") will also promote water retention in the soil.

Most lawns only need about 1" of water each week. During dry spells, you can stop watering altogether and the lawn will go brown and dormant. Once cooler weather arrives, the morning dew and rainfall will bring the lawn back to its usual vigor. This may result in a brown summer lawn, but it saves a lot of water.

20. Deep-soak your lawn

When watering the lawn, do it long enough for the moisture to soak down to the roots where it will do the most good. A light sprinkling can evaporate quickly and tends to encourage shallow root systems. Put an empty tuna can on your lawn - when it's full, you've watered about the right amount. Visit our [natural lawn care](#) page for more information.

21. Water during the early parts of the day; avoid watering when it's windy

Early morning is generally better than dusk since it helps prevent the growth of fungus. Early watering, and late watering, also reduce water loss to evaporation. Watering early in the day is also the best defence against slugs and other garden pests. Try not to water when it's windy - wind can blow sprinklers off target and speed evaporation.

22. Add organic matter and use efficient watering systems for shrubs, flower beds and lawns

Adding organic material to your soil will help increase its absorption and water retention. Areas which are already planted can be 'top dressed' with compost or organic matter.

You can greatly reduce the amount of water used for shrubs, beds and lawns by:

- the strategic placement of [soaker hoses](#)
- installing a [rain barrel water catchment system](#)
- installing a simple [drip-irrigation system](#)

Avoid over-watering plants and shrubs, as this can actually diminish plant health and cause yellowing of the leaves.

When hand watering, use a [variable spray nozzle](#) for targeted watering.

23. Don't run the hose while washing your car

Clean the car using a pail of soapy water. Use the hose only for rinsing - this simple practice can save as much as 150 gallons when washing a car. Use a spray nozzle when rinsing for more efficient use of water. Better yet, use a waterless car washing system; there are several brands, such as EcoTouch, which are now on the market.

24. Use a broom, not a hose, to clean driveways and sidewalks

25. Check for leaks in pipes, hoses, faucets and couplings

Leaks outside the house may not seem as bad since they're not as visible. But they can be just as wasteful as leaks indoors. Check frequently to keep them drip-free. Use hose washers at spigots and hose connections to eliminate leaks.

Water conservation comes naturally when everyone in the family is aware of its importance, and parents take the time to teach children some of the simple water-saving methods around the

Water Conservation Summary

In 1990, 30 states in the US reported 'water-stress' conditions. In 2000, the number of states reporting water-stress rose to 40. In 2009, the number rose to 45. There is a worsening trend in water supply nationwide. Taking measures at home to conserve water not only saves you money, it also is of benefit to the greater community.

Saving water at home does not require any significant cost outlay. Although there are water-saving appliances and water conservation systems such as rain barrels, drip irrigation and on-demand water heaters which are more expensive, the bulk of water saving methods can be achieved at little cost. For example, 75% of water used indoors is in the bathroom, and 25% of this is for the toilet. The average toilet uses 4 gallons per flush (gpf). You can invest in a ULF (ultra-low flush) toilet which will use only 2 gpf. But you can also install a simple tank bank, costing about \$2, which will save .8 gpf. This saves 40% of what you would save with the ULF toilet. Using simple methods like tank banks, low-flow showerheads and faucet aerators you can retrofit your home for under \$50.

By using water-saving features you can reduce your in-home water use by 35%. This means the average household, which uses 130,000 gallons per year, could save 44,00 gallons of water per year. On a daily basis, the average household, using 350 gallons per day, could save 125 gallons of water per day. The average individual, currently using 70 gallons per day, could save 25 gallons of water per day.

When buying low-flow aerators, be sure to read the label for the actual 'gpm' (gallons per minute) rating. Often, the big box retailers promote "low-flow" which are rated at 2.5 gpm, which is at the top of the low-flow spectrum. This may be needed for the kitchen sink, but we find that a 1.5 gpm aerator works fine for the bathroom sink and most water outlets, delivering the same spray force in a comfortable, soft stream. Eartheasy's [online store](#) carries a full range of low-flow aerators and showerheads.

Finally, it should be noted that installing low-flow aerators, showerheads, tank banks and other water-saving devices usually is a very simple operation which can be done by the homeowner and does not even require the use of tools. Water conservation at home is one of the easiest measures to put in place, and saving water should become part of everyday family practice.