Plants: Don’t overwater your houseplants. More plants die from over-watering than from drying out. Collect rainwater or recycle water from fish tanks to water your plants.

DON’T WAIT TO FIX LEAKS!

Leaks can account for 10 percent or more of the water bill and waste both water and energy if the source is a hot water faucet. In the average household, water lost through leakage can be 9.5 gallons per person per day. For example, a toilet with a silent leak can waste 2,700 gallons of water a month.

Toilet Leaks: Most of the water lost to leaks is attributable to toilet leakage. Approximately 25 percent of all toilets leak. To determine if the toilet is leaking, remove the tank lid after the tank has stopped filling. You may be able to see a leak or hear water running. If not, you may still have a "silent leak." To test for a silent leak, mix a few drops of food coloring or place a dye capsule or tablet (available from home improvement centers and many utilities) into the water in the toilet tank. Do not flush the toilet. Wait about 10 minutes, and if the dye appears in the toilet bowl, the toilet has a silent leak. The most common causes of toilet leaks are: worn or improperly seated flappers, worn or broken ballcocks (try replacing washers and tightening screws first), leaking refill valves, broken or improperly adjusted lift chains and handle rods, or poorly sized replacement parts. Toilet parts can deteriorate faster when automatic toilet bowl cleaners are used. Check each item, replace worn parts with good quality parts as necessary, and retest to make sure the leak has been fixed. Universal parts often do not work, so you may need to ask for replacement parts specific to your toilet brand.

Faucet Leaks: Faucet leaks are usually caused by worn washers or "O" rings (for a washerless faucet), which are inexpensive and can be replaced with a screwdriver and an adjustable wrench. If that doesn’t work, you may need to replace the entire stem assembly. Note the faucet brand and take the original part with you to a home improvement center.

Other Leaks: The water meter can be used to check for invisible or unnoticed leaks. Turn off all faucets and water-using appliances. Read the dial on the water meter and record the reading. After 15 to 20 minutes, recheck the meter. If no water has been used and the reading has changed, a leak is occurring somewhere in the plumbing system. The services of a plumber or trained water utility employee are often required to locate and fix these invisible leaks. The water meter is often located along the property line near the street.

Developed by the Texas Water Development Board. Some reference material was adapted from the Handbook of Water Use and Conservation by Amy Vickers (WaterPlow Press, 2001).

WATER IQ
Know your water.

WaterIQ.org

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WHY?
According to the Texas State Water Plan, Texas’ existing water sources will meet only 75 percent of the projected water demand by 2050. Single-family residential indoor water use in the U.S. is an average of 69 gallons per person per day. You can easily save 20 gallons per day just by installing water efficient fixtures and reducing leaks. Practicing good water use habits can save even more. Using water more efficiently will also save energy and money, and protect the quality of life for future generations. We must be responsible and save water now.
**WHAT CAN YOU DO?**

**Install Water-Efficient Appliances**

Toilets: Standard toilets manufactured before 1980 usually require 5 to 7 gallons per flush (gpf), and toilets sold during the 1980s use 3.5 gpf. Since 1992 in Texas, new toilets must use no more than 1.6 gpf. Replacing older, larger-use toilets with the newer models can result in significant water and sewer savings. If you replace a 3.5- or 5-gpf toilet with a 1.6-gpf toilet, you can save about 9,740 to 17,300 gallons per year! It’s a myth that low-volume flush toilets don’t work as well. In fact, the operating and cleaning performance of many models of low-volume fixtures is better than that of the older fixtures. Water can also be conserved in the later-use toilets by installing displacement devices such as a plastic bottle or bag (do not use a brick—it can crush and damage the fixture). These devices can save 0.5 to 1.5 gpf in older fixtures, and although they are much cheaper than replacement of high-volume toilets, they save significantly less water and do not last as long.

Showers: Showers installed in the 1980s use 3 to 4 gallons per minute and pre-1980 showerheads use 5 to 8 gallons per minute. Since 1992 in Texas, and 1994 nationally, new showerheads must use a maximum of 2.5 gallons per minute at 80 pounds per square inch. Currently available water efficient showerheads work much better than early models produced in the 1980s, and even good 1.5 gallon per minute models are available. Installing a water efficient showerhead is the single most effective water-saving step that you can take inside your home.

Sinks: Installing faucet aerators on lavatory and kitchen sinks can save up to one-half the amount of water used by sinks without aerators. Since 1992 in Texas, new faucets must use a maximum of 2.2 gallons per minute at 60 pounds per square inch. Aerators are inexpensive and do not require any special adapters. Faucets that do not have aerators can use up to 7 gallons per minute. The flow rate of bathroom faucets does not need to be as high as kitchen faucets. Bathroom faucets need only 1 to 1.5 gallons per minute.

Washing Machines: When buying a washer, look for one that has adjustable or automatically adjusting water levels for different load sizes and ideally one that is a high-efficiency washer. High-efficiency clothes washing uses 15 to 25 gallons per load, while conventional washers manufactured in the 1980s used about 39 gallons each. High-efficiency washers use 35 to 55 percent less water and 50 percent less energy. In addition, high-efficiency washers are capable of extracting more water from clothes during the spin cycle, reducing the time and energy required for drying. They also require less detergent, rinse more thoroughly, are less abrasive on clothes, and can fit larger capacity loads in the same size drum.

Dishwashers: Water-efficient dishwashers use a maximum of 7 gallons per load, but some use as little as 4.5 gallons. Although dishwasher use may be a small percentage of household use, dishwashers manufactured before 1990 use about 14 gallons per load, so replacing an older model with a water-efficient model could cut dishwasher water use in half.

**PRACTICE GOOD WATER-USE HABITS**

In the bathroom: Don’t use your toilet as a trash can for paper and facial tissues.

At the sink: Turn the water off when you aren’t using it. Instead of allowing the tap water to run while brushing, run it just to wet and rinse the toothbrush. Apply the same idea when washing your hands. Use only as much water flow as you really need. Fill the sink with water instead of letting the water run continuously while shaving.

In the shower: Take shorter showers and take a shower instead of a bath. Showers with water-efficient showerheads often use less water than a bath. Turn off the water while you are shampooing your hair.

When washing dishes: Only run the dishwasher with a full load. This practice will save water, energy, detergent, and money. If your dishes are only lightly soiled, use the short wash cycle. Dry scrape dishes instead of rinsing them and do not pre-rinse dishes if you are using the dishwasher. When washing dishes by hand, fill a basin or the sink with soapy water instead of letting the water run continuously. Soak pans rather than scrubbing them while the water is running.

Fill the other basin with rinse water or at least run the water at minimum volume during rinsing.

While cooking: Rinse produce in a pan of cold water instead of letting the water run while you rinse it. Instead of letting hot water run over frozen foods, transfer them to the refrigerator the night before you need them. Keep a container of water in the refrigerator rather than running tap water until it is cool enough to drink. Use garbage disposals only for really messy stuff, not a hoard of peels that can easily be dumped in the garbage.

In the laundry room: Wash only full loads. If you must wash partial loads, match the load setting with the amount of laundry to be washed. Pretreat stains to avoid re-washing. Use the shortest wash cycle for lightly soiled loads as it uses less water than other cycles.

**Around The House:**

Pipes: Know where your master water shut-off valve is in case a pipe bursts. Insulate hot water pipes.

You won’t waste water waiting for it to heat up and you will save energy too. Install under-the-counter instant water heaters so you don’t waste water while waiting on it to get hot. Use aerators on faucets.

Water Softeners: Install water-softering systems only when necessary and if you have one, save water and salt by running the minimum amount of regenerations necessary to maintain water softness. Turn softeners off while on vacation.

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*Source: Handbook of Water Use and Conservation, 2001.*