



Toilet Leak

To Check for A Leak: Carefully remove the tank lid and set aside where it cannot drop or be stepped on. Drop food coloring or dye tablets into the tank. **DO NOT FLUSH!** Wait 30 minutes. If you see colored water in your toilet bowl, your tank is leaking.

First:

- Check the float arm. Reach in and lift it up.
- If the water stops running, you have found the problem.
- Adjust the screws or bolts to the inlet float valve until the water stops flowing.

Second:

- If water continues to run, turn off the water supply valve to the tank.
- Flush toilets to drain out the water.
- Examine the inlet float valve by removing the two screws or bolts and lifting the top of the valve housing out.
- Check the diaphragm. If it is even slightly damaged or worn, replace it.

Third:

- If the toilet continues to run, examine the ball stopper or flapper valve. It should fit flush in its seat.
- If not, look at the lever and guide rods that operate the ball stopper. If they are crooked, gently straighten them.
- For toilets having a chain pull attached to the flapper valve, make sure the chain is slack when the valve is seated to insure a snug fit.
- If the ball or flapper valve itself is worn out, replace it.
- Check for corrosion or deposits on the seat and the ball stopper or flapper valve. Using steel wool to remove this build up will allow the stopper to set well in the seat.

Fourth: Inspect small refill tube that connects the fill valve to the refill-overflow tube to be sure the smaller tube ends slightly **above** the standing water level of the completely filled tank. If necessary, gently pull the small tube upward until its end is correctly placed.

| Water Loss in Gallons Leak this size | Loss per Day | Loss per Month |
|--------------------------------------|--------------|----------------|
| • | 120 | 3,600 |
| • | 360 | 10,800 |
| • | 693 | 20,790 |
| • | 1,200 | 36,000 |
| • | 1,920 | 57,600 |
| • | 3,096 | 92,880 |
| • | 4,296 | 128,980 |
| • | 6,640 | 199,200 |

| Water Loss in Gallons Leak this size | Loss per Day | Loss per Month |
|--------------------------------------|--------------|----------------|
| ● | 6,984 | 200,520 |
| ● | 8,424 | 252,720 |
| ● | 9,888 | 296,640 |
| ● | 11,324 | 339,640 |
| ● | 12,720 | 381,600 |
| ● | 14,952 | 448,560 |
| 50ft ½" garden hose | 14,000 | 420,000 |

Faucet Leaks

Another common source for leaks is the faucet. A leaking faucet can waste up to 20 gallons of water per day. Worn washers usually cause leaking faucets or "O" rings. If you have 60 psi (pounds per square inch) of pressure in your pipes your water loss is as follows:

1/32" leak can waste.....73,992 gallons per year
 1/16" leak can waste.....295,992 gallons per year
 1/8" leak can waste.....1,183,992 gallons per year
 ¼" leak can waste.....4,725,996 gallons per year

Other Interesting Facts & Statistics

Toilet flush.....5 to 7 gallons (non low-flush toilets)
 Shower.....7 to 10 gallons per minute
 Bath Tub.....36 to 60 gallons
 Dishwasher Load.....10 to 25 gallons
 Clothes Washer Load.....20 to 45 gallons
 Irrigation Systems.....12 to 17 gallons per minute per zone
 Running Garden Hose.....up to 600 gallons in an hour

- 50% of water consumed by households is used outdoors
- Evaporation loss can be 60% higher during the day
- Toilet Flappers should be changed every year