

Kid Zone



Hey Kids! Need information for science projects?

Science projects are always a challenge; that is why we have dedicated an entire section on our website just for children.

Your children can now log on to nwwater.com, click on Kid Zone, and learn all about the water they drink and use every day. Teaching proper water stewardship is a goal of the Authority and our website is an excellent way to communicate this.

Special features of the site include:

- How to Conserve Water
- Water Glossary
- Water Treatment
- The Water Cycle
- Careers in the Water Industry
- Water Distribution
- How a Water Meter Works
- Water Related Reading List
- Water Links
- Scholarships
- Coloring and Activity Pages
- Frequently Asked Questions

We also have a number of experiments on hand and will gladly share them; simply call our public relations department for more information.

Don't delay, log on to nwwater.com and click on Kid Zone today!

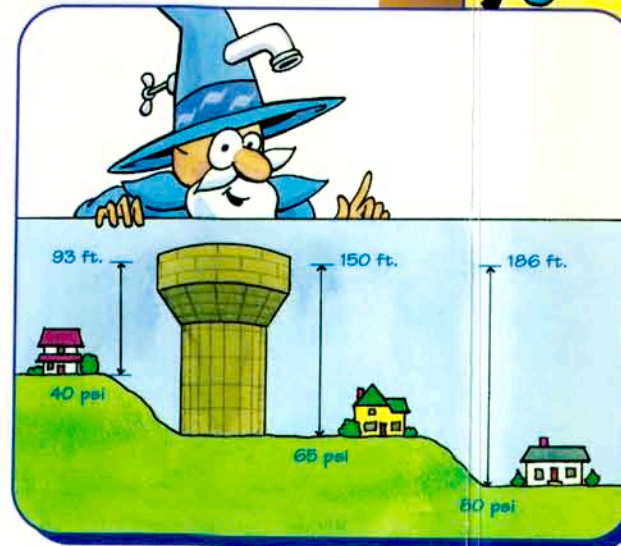
NWWA's New "Water Pressure Brochure"

The North Wales Water Authority's distribution system is a gravity system. This means that the Authority pumps water from individual sources into the NWWA water tower which maintains an adequate level of pressure throughout our water distribution system. The water pressure experienced at any home within our system is solely determined by the geographic location of that home relative to our water tower.

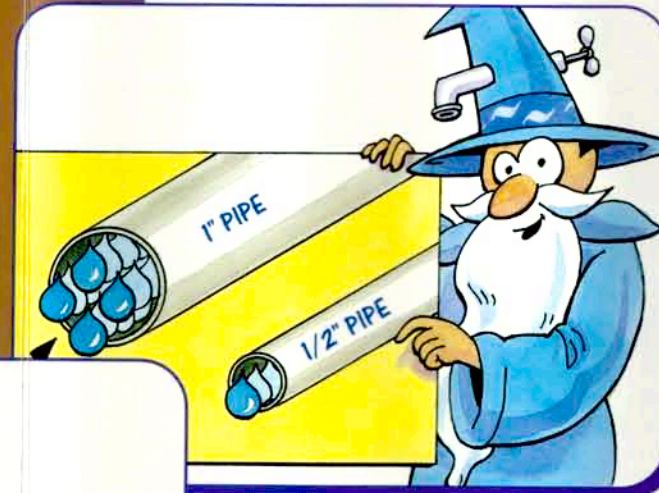
Since NWWA relies on the force of gravity to deliver water to our customers, water pressure increases or decreases depending on how far a home is below the level of the water in the storage tank that serves that home. The further a home is below the water level in the tank, the higher the water pressure will be in that home. It is important to remember that vertical distance or elevation determines water pressure, physical distance from a storage tank does not. This is why customers with homes in low-lying areas experience higher water pressure than customers who live on the hilltops and ridges in our service territory.

Most low-pressure problems are created in the home. In such cases, the home has adequate water service pressure but pressure at fixtures drops off dramatically when another fixture is turned on. This situation is most commonly encountered when someone flushes a toilet when another person is in the shower. Usually the problem is that the water volume is lowered or restricted, therefore reducing the amount of water that comes out of the fixture.

Here are some common causes of low water volume. You may have a combination of these problems.



Why low pressure happens and what you can do



4. Pipe "arteries" are getting clogged
Rust and minerals can build up in older, galvanized plumbing and restrict the flow of water.

1. Internal plumbing pipes are too small
NWWA water arrives at your home in a 1" pipe which can provide a lot of volume and pressure. But, in many homes, internal piping is only 1/2" or less. This reduces the volume of water by 75% and unfortunately cuts the pressure by 75% as well.

2. Small pipes and a long way to go
In addition to smaller pipes (see #1), the problem is worse when water has to go up more floors or travel long distances. This often happens when an additional bathroom and fixtures are added to an older home, but the smaller pipe size is not upgraded. If you're planning to remodel, be sure to have the water pipe diameter increased to an adequate diameter.

3. Devices that can effect the volume
Devices such as water softeners, water filters, flow restricting fixtures and decorative faucets can further restrict the volume of water flow in a home.

5. High on a hill
If your home is at a higher elevation, your water pressure may be below average. If it is below 40 pounds per square inch, a plumber can offer tips for increasing the volume of water to your fixtures.
You may have one or a combination of problems. Our best advice is to talk to a reputable plumber. Use our "Where's my water pressure?" brochure as a starting point and discuss each scenario. Usually your plumber can recommend solutions that can enhance your water volume.

For more important information, log on to nwwater.com

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Serving 25,000+ customers in 7 municipalities in 2 counties.

"What's in my water?"

2000 Water Quality Report



