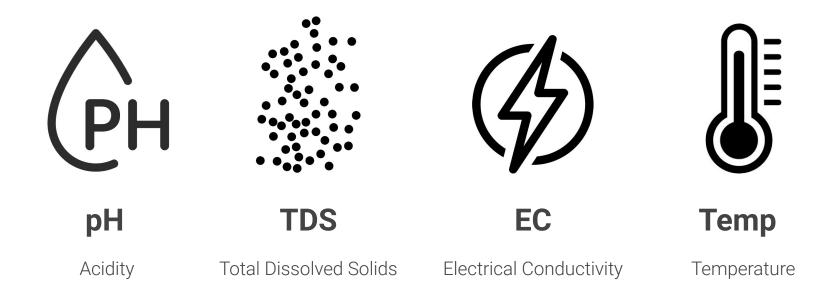
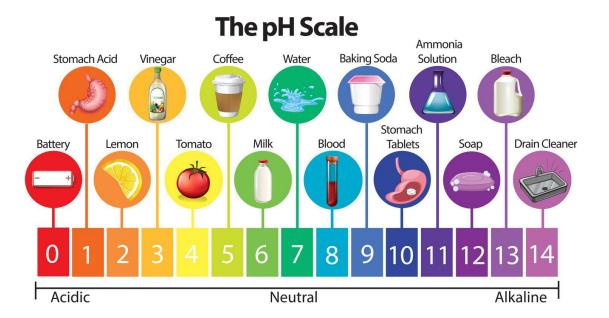


There are many water quality factors that can be tested. With these factors, conclusions can be made as to how safe water is and what is possibly causing water contamination.



Acidity (pH)

pH is a measure of how acidic/basic water is. The range goes from 0-14, with 7 being neutral. pHs of less than 7 indicate acidity, whereas a pH of greater than 7 indicates a base.

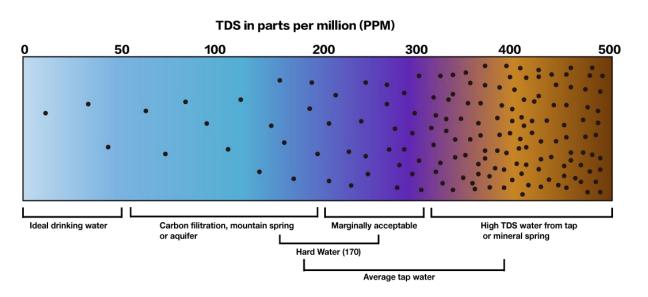




Total Dissolved Solids

(TDS)

Total dissolved solids, or TDS for short, are dissolved ions, including salts, minerals and metals, that can be found in all non-pure water sources.

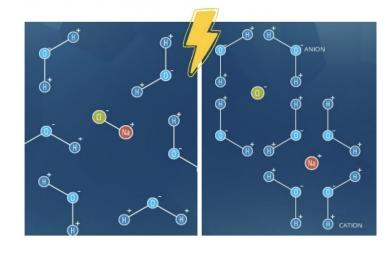




Electrical (EC) **Conductivity**

The conductivity of water is a measure of the capability of water to pass electrical flow. This ability directly depends on the concentration of conductive ions in the water.

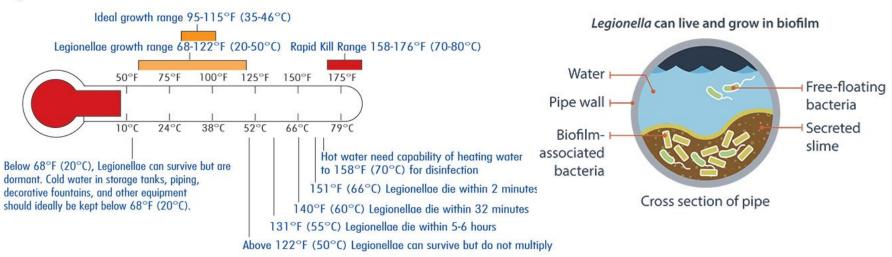
Water type	μS/cm
Distilled Water	0.5 – 3
Melted Snow	2 – 42
Tap Water	50 – 800
Potable Water in the US	30 – 1,500
Freshwater Streams	100 – 2,000
Industrial Wastewater	10,000
Seawater	55,000



Temperature (°C)

Most people complain about tap water at 19°C or higher. The intensity of taste is greatest for water at room temperature and is significantly reduced by chilling the water. It is also possible that warm water leads to fungi and bacteria (such as legionella) growing inside plumbing systems of buildings, leading to mouldy tastes and odours if the temp. rises above 16°C.

Legionellae Growth Chart



The **testing** of water quality from many different sources can result in interesting comparisons between the testing factors. Make **predictions** and **compare** results after testing and **recording**.





