

Brushy Creek Mud Annual Water Hardness

The District's water hardness is recorded once a week by the Water Treatment Plant

| Year | Year Avg mg/L | Avg GPG Setting | Water Softener Setting Formula $\text{mg/L} \div 17.1 = \text{GPG}$ |
|-------------|---------------|-----------------|---|
| 2021 | 179 | 10.5 | It is very important that you follow the directions and manual provided by the manufacturer. Every water softener will have it's own controls and settings. |
| 2022 | 174 | 10.2 | |
| 2023 | 175 | 10.3 | |
| 2024 | 181 | 10.6 | |



| Water Hardness Scale | | |
|----------------------|--|-----------------|
| Grains Per Gallon | Milligrams Per Liter (mg/L) or Parts Per Million (ppm) | Classification |
| less than 1.0 | less than 17.1 | Soft |
| 1.0 - 3.5 | 17.1 - 60 | Slightly Hard |
| 3.5 - 7.0 | 60 - 120 | Moderately Hard |
| 7.0 - 10.5 | 120 - 180 | Hard |
| over 10.5 | over 180 | Very Hard |

Water is an excellent solvent and when in contact readily dissolves minerals. As water moves through soil and rock, it dissolves very small amounts of minerals and holds them in solution. Water "hardness" is caused by compounds of a variety of metals dissolved in water, calcium and magnesium are the two most common minerals that make water "hard".

The hardness of water is referred to by three types of measurements: Grains Per Gallon (GPG), Milligrams Per Liter (mg/L), or Parts Per Million (PPM). Hard water requires more soap and synthetic detergents and contributes to scaling in and on appliances and hot water heaters. To maintain your water softeners and not waste salt you will want to set your softener slightly above the District's current hardness.

Typically the water produced by the District is classified "hard" to "very hard", refer to the above table for more details to this classification. Adjust your water softener hardness setting accordingly during the year as the water quality hardness level changes.

Example: If the District water supply is recorded at 195 MGL after using the "Water Softener Setting" formula the water hardness average is currently 11.40 GPG. You will want to set your water softener hardness to 12 GPG (Hardness = $195 \text{ mg/L} \div 17.1 = 11.40$ Grains Per Gallon)

2024 Weekly Water Hardness in Milligrams Per Liter (mg/L)

