

# The City of Bozeman Drought Equation

## TRUE OR FALSE?

**With record snowfall this past winter, Bozeman has no chance of drought this summer.**

**FALSE.** If we experience warmer than normal temperatures in the spring and/or rain instead of snow, we could end up short on water when we need it later in the summer.

**The City relies on rainfall to boost its water supply in the spring.**

**FALSE.** While rainfall does bolster streamflows immediately during and after rain events, the City relies on snowpack to serve as stored moisture to gradually melt throughout the spring and into summer months.

**We have plenty of storage capacity for our water supplies.**

**FALSE.** The City's only stored water comes from Hyalite Reservoir, which is used to support increased water demands associated with outdoor watering of lawns and landscapes during the summer months. The reservoir is fed by snowmelt in the spring.

**DID YOU KNOW?** The City of Bozeman relies on **SNOWPACK** for **100%** of its **WATER SUPPLY**.

**50%** of Bozeman's summertime water use **GOES INTO LAWNS AND LANDSCAPES.**

## What is the Drought Equation?



## Other Factors in the Drought Equation



Below normal snowpack leads to reduced overall water supplies.



Early spring melt leads to decreased late summer streamflows.



Decreased late summer streamflows increase our reliance on Hyalite Reservoir.



Higher than normal summer temperatures lead to increased outdoor water use and reduced Hyalite Reservoir levels.



Reduced levels in Hyalite Reservoir lead to higher likelihood of seasonal water use restrictions.

Our water is limited, but by staying water-smart, we ensure our snowpack lasts us through the summer. Visit [www.bozemanwater.com](http://www.bozemanwater.com) for tips, rebates, and more information about drought.