## How much Water can your new garden Save?

## Calculate your landscape watering need in Gallons.

## Our Front Yard Landscape Water Need:

Our front yard is 875 Square Feet (Landscape SF). In order to calculate the Landscape Water Need, we will keep climate zone (ET Inches) and irrigation efficiency (IE Percentage) constant, but change the plant selections (PF Percentage). See how much water could be saved every year by switching from cool season grass and replacing the area with climate-appropriate MODERATE, LOW, or VERY LOW water requirement plants.

## Landscape SF = 875 Annual ET Inches = 45" Irrigation Efficiency \% = 70\%

 Landscape SF x ET Inches x Plant Factor \% \% Irrigation Efficiency \% x 0.62 = Landscape Water Need in GallonsHIGH Water Need Plant Factor $=100 \%=1.0$

875 SF x 45 " $\times 1.0 \div 0.70 \times 0.62=$ 34,875 Gallons Annually
New Front Yard Water Need: MODERATE

MODERATE Water Need Plant Factor $=50 \%=0.50$

875 SF x $45^{\prime \prime} \times 0.50 \div 0.70 \times 0.62=$ 17,438 Gallons Annually

In our 875 SF Front Yard, replacing cool season grass with MODERATE climate-appropriate plants saves 17,437 gallons of water annually, without changing irrigation efficiency.


LOW Water Need Plant Factor $=20 \%=0.20$
875 SF x $45^{\prime \prime} \times 0.20 \div 0.70 \times 0.62=$
6,975 Gallons Annually
Replacing cool season grass with LOW Water Need plants saves 27,900 gallons of water annually, without changing irrigation. Change irrigation to drip with $\mathrm{IE}=90 \%$ and save 29,450 gallons annually.


VERY LOW Water Need Plant Factor $=10 \%=0.10$
875 SF $\times 45^{\prime \prime} \times 0.10 \div 0.70 \times 0.62=$ 3,488 Gallons Annually

Replacing cool season grass with VERY LOW Water Need plants saves 31,387 gallons of water annually, without changing irrigation. Change irrigation to drip with $I E=90 \%$ and save 32,162 gallons annually.

## Sleep in summer, Grow in winter: Mediterranean climate-appropriate plants

Since many climate-appropriate plants from Mediterranean climates have MODERATE, LOW or VERY LOW water needs, planting them saves water when compared to cool season grass. However, most of these plants don't want water in the summertime when they are dormant; they want water in the winter, when they can grow their roots in cool soil using rainwater. Irrigation needs can be reduced by directing rainwater to the garden from the roof and other surfaces in the winter months. But beware the dry winter -- these plants will need supplemental irrigation in winter if they are to survive the following summer.


