

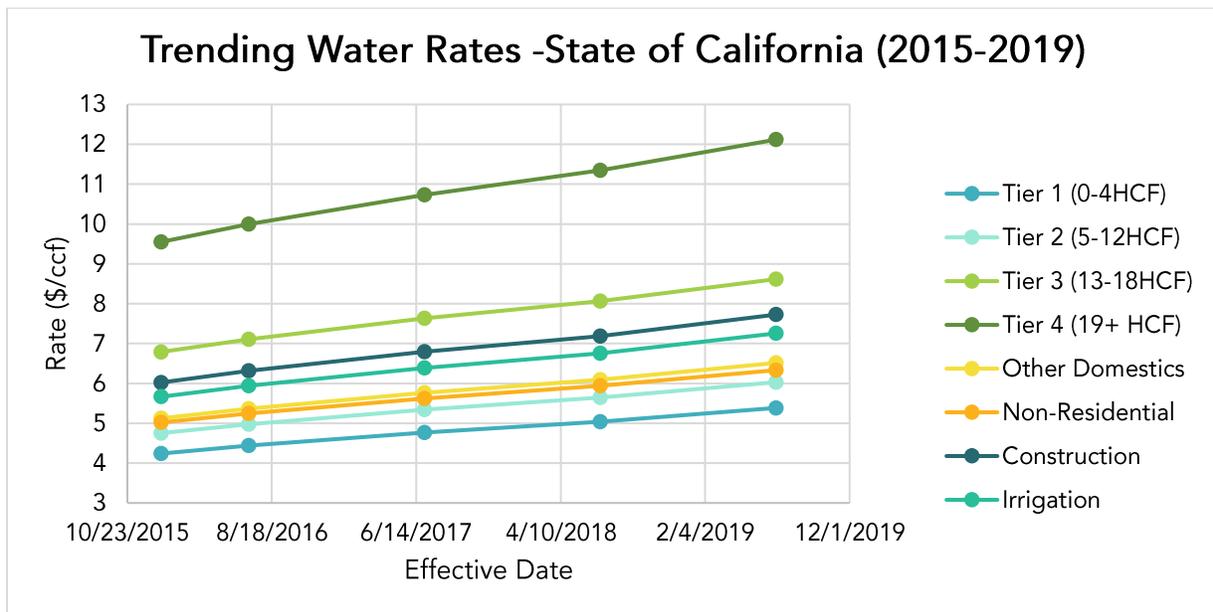
# Silver Bullet Water Treatment

## Saving Water During Rate Increases



As communities and industries grow, competition for local resources becomes more evident. As a result, water rates in many parts of the nation are steadily rising. A central element to the Controlled Environment Agriculture (CEA) industry, water use management and associated costs are of primary concern. A recent [article](#) detailed the steady increase in water costs in California and those rates are given in the table below:

Class	Existing Rates	WATER COMMODITY RATE				
		Proposed Rates				
Effective Date		FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
	\$/ccf	1/1/16	7/1/16	7/1/17	7/1/18	7/1/19
		\$/ccf	\$/ccf	\$/ccf	\$/ccf	\$/ccf
<b>Single Family</b>						
Tier 1 (0-4CCF)	3.896	4.240	4.443	4.770	5.042	5.385
Tier 2 (5-12CCF)	4.364	4.754	4.976	5.342	5.647	6.031
Tier 3 (13-18CCF)	6.234	6.791	7.108	7.632	8.067	8.616
Tier 4 (19+ CCF)	8.766	9.550	9.996	10.732	11.344	12.117
Other Domestics	4.650	5.125	5.365	5.763	6.091	6.515
Non-Residential	4.470	5.020	5.243	5.622	5.941	6.333
Construction	4.947	6.023	6.316	6.795	7.183	7.727
Irrigation	4.947	5.666	5.941	6.390	6.755	7.256



The table and chart above shows that all tiers of water use have steadily increased with time, upwards of 30%+ over the last 4-5 years. That trend is expected to continue, if not accelerate in the future.

By treating, capturing and reusing process water commonly considered a waste stream, Silver Bullet Water Treatment (SBWT) is able to safely and efficiently reduce fresh water demand and save

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grows money. Using condensate water from HVAC and dehumidification systems as an example, cultivators applying SBWT treatment solutions routinely reduce their fresh water demand by 33% or more with that one source of often discarded process water.

As a general case example, assume a medium-sized grow operation that uses 5,000 gallons per day, 300 days out of the year for irrigation and other processes. At the "irrigation" tier rate of \$7.256/ccf, by incorporating treated condensate an expected 33% reduction in water demand adds up to nearly \$5,000 per year in direct savings (see calculations below).

### Annual Estimated Water Cost Savings Treating Condensate (*\$7.256/ccf irrigation tier rate*)

$$\left(\frac{5,000 \text{ gal}}{\text{day}}\right) \left(\frac{300 \text{ day}}{\text{yr}}\right) 0.33 = \frac{495,000 \text{ gal}}{\text{yr}}$$
$$\left(\frac{495,000 \text{ gal}}{\text{yr}}\right) \left(\frac{\text{CCF}}{748 \text{ gal}}\right) \left(\frac{\$7.256}{\text{CCF}}\right) = \$4,801.76 \text{ per yr}$$

Reducing waste and demand for additional natural resources such as water is not only the responsible and environmentally correct thing to do, it also can make great business sense when done correctly.

Contact SBWT to learn how we can apply similar water management solutions to your grow operation so that you can start seeing the savings for yourself!