

WELCOME TO THE 2021 H2O VIRTUAL BREAKFAST

For more information, please contact us at iwacinfo4@gmail.com

Welcome from IWAC.

- Idaho nonprofit organization
- Formed in 2013
- Identified as a collaborative need between Idaho and Washington over

the SVRP

RPCAMP





What is IWAC's purpose and who is involved?

- Purpose is to promote Bi-State protection of our sole source aquifer through education
- 19 current Water & Wastewater members
- Board Members from Idaho and Washington

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EFFICIENT IRRIGATION AND LANDSCAPE DESIGN GUIDELINES

- WHO IS OUR TARGET AUDIENCE?
- WHAT IS THE OBJECTIVE?
- HOW CAN THIS HELP?
- POTENTIAL COSTS?
- REDUCTION GOAL?

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WHAT'S THE PROBLEM?

- Irrigation inefficiencies waste billions of gallons of valuable water.
- Most systems only 30% to 40% efficient.
- What about landscape alternatives?



REDUCTION GOAL!



- IWAC has established a desirable goal to reduce of consumption over the SVRP.
- IWAC has recently mailed out nearly 400 guides to public utilities, elected and appointed officials, City Councils, Boards, Planning Groups, etc.
- A letter was included suggesting an initial goal for a region wide (SVRP) 30% reduction in peak use.

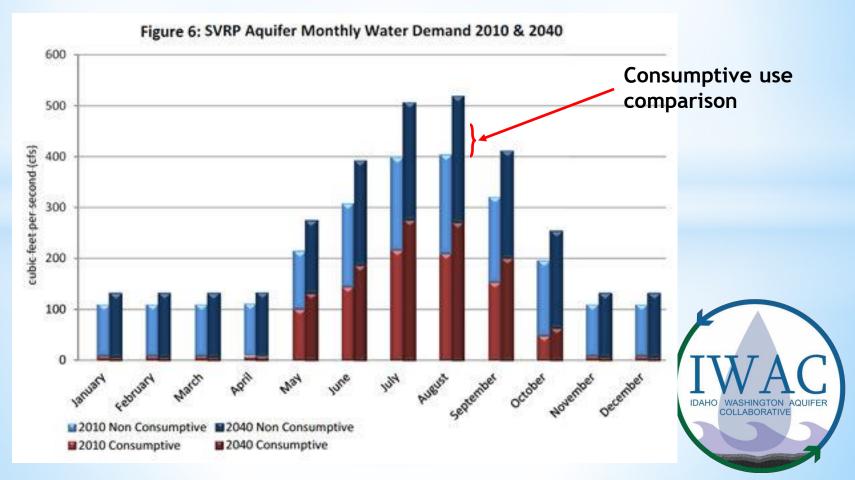


"BUT WE HAVE PLENTY OF WATER!"

IT'S A MATTER OF CONSERVATION!

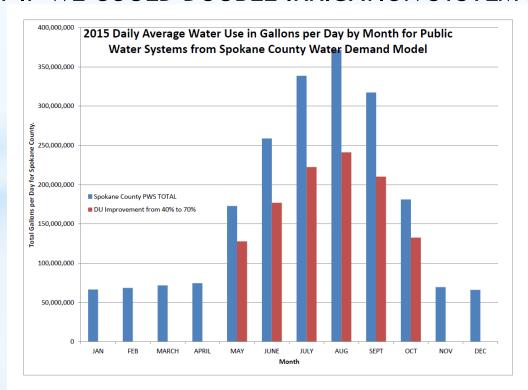
- Water rates are inexpensive. No incentive to conserve.
- Growth is inevitable. Will result in increased demand.
- Look at California, Arizona and Florida!
- Efforts for significant reduction now will ensure adequate supplies for the foreseeable future.

PROJECTED GROWTH ACROSS THE SVRP AQUIFER (2010 TO 2040)



REDUCTION?

WHAT IF WE COULD DOUBLE IRRIGATION SYSTEM EFFICIENCY?



WE COULD CUT OUR PEAK USE BY A THIRD



IS A 30% REDUCTION REALISTIC?

- The City's Parks Dept. single biggest consumer for irrigation.
- Challenged them to reduce usage to achieve a better user rate.
- Just through improved management practices, including the addition of moisture sensors and smart controllers, reduced use
 33% in 2019 over 2018 seasons.

UPDATE TO EFFICIENT IRRIGATION



Utilize more efficient, less water consuming heads such as the MP Rotators. Use matching heads. Adjust pressures. Too much is as bad as too little.



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Idaho/Washington Aquifer Collaborative

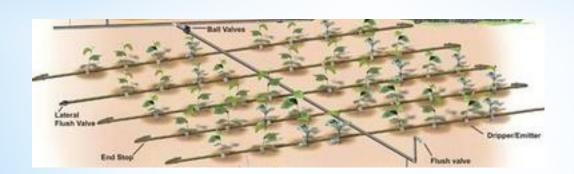
ALTERNATIVE DRIP IRRIGATION SYSTEMS

This system is good for a small yard or for watering individual plants. Drip **irrigation** is highly effective at supplying one to four gallons of water per hour directly to the soil. The advantage of drip **irrigation** over sprinklers is that there is little water loss due to evaporation or runoff.



wateruseitwisely.com > landscape-care > principles-of-xeriscape-design

Efficient Irrigation | Water Saving Irrigation Methods





XERISCAPE LANDSCAPE DESIGNS



Xeriscaping



Xeriscaping is the process of landscaping or gardening that reduces or eliminates the need for supplemental water from irrigation.

Wikipedia

Consider alternatives to water hungry turf. There are an abundance of attractive, low water use landscaping methods.

NATURAL LANDSCAPE METHODS



Natural landscaping may be another attractive alternative to turf by using native species specific to your location.





Case Study: SpokaneScape

- The City of Spokane established a turf replacement rebate program for water customers in 2018
 - Incentivizes customers to replace turf with drought tolerant plantings, efficient irrigation and mulch.
 - Offers \$0.50/square foot for converted space, up to \$500

SpokaneScape is water-efficient landscape that has been designed specifically for the unique climate of the Inland Northwest- it's a landscape that works for where you live.



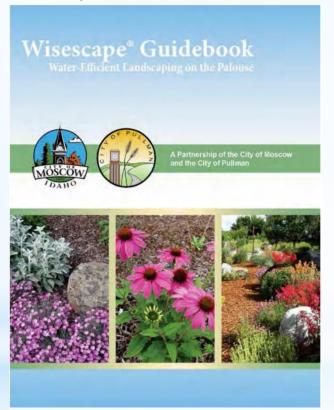
FEATURED LANDSCAPE ON BROCHURE

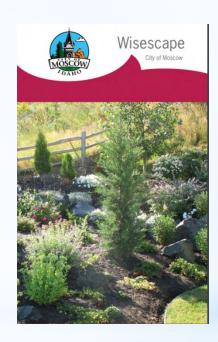


This is a home in Spokane featured on their brochure.



*Case Study: Moscow/Pullman Wisescape Program





*Moscow/Pullman Wisescape Program

Wisescape Demo Garden Established in 2009

Before After





*Moscow/Pullman Wisescape Program

Lawn to Wisescape® Rebate Savings

Traditional Lawn = 0.623 gal per ft²/wk

Wisescape = 0.263 gal per ft²/wk





Annual household water savings for transitioned $1200 \text{ ft}^2 = 9,300 \text{ gallons}$



COEUR D'ALENE PILOT PROJECTS

- Atlas Mill Site Park White Clover
- US95 Swale installation
- Ramsey Rd. Swale Micro Clover
- Water Dept. Office MP Rotators
- Planning and Zoning changes



US 95 DRAINAGE SWALE CONSTRUCTION



Took 210 acres off of a 215 acre drainage outfall to the Spokane River.



PLANNING AND ZONING REQUIREMENTS



Requires 10% managed open space for new subdivision development.



The **Inland Northwest is different**—our weather, precipitation, climate, and even culture are unique from other parts of the country. So, it only makes sense that to grow right, **our landscapes need to be different too**.





Thank you!

For more information, please contact us at iwacinfo@gmail.com tpickel@cdaid.org