SCRIPT: IWAC IRRIGATION DESIGN STANDARDS VIDEO DRAFT 1 8/29/18



VIDEO	Len	AUDIO
Irrigation sprinkler on center pivot and in lawn. Sound of a Rain-bird (pivot sprinkler).		Lush green lawns. Vibrant flowers. From April to
Outdoor lawns, flower beds, etc.		October, they provide the backdrop for outdoor
		activities in the Inland Northwest.
Present data graph of municipalities pumping and the seasonal increase. Months on x axis.		During this time, irrigation rates in our area rise
Millions of gallons on y axis; animate an arrow rising?		dramaticallyin fact, half of the water we use
TISHE:		annually is applied to landscapes.
5-mile prairie overwatering photos – Dan Kegley. Sprinkler watering hardscapes.		But how much of that water is necessary?
Water being used for showers, washing dishes.		And how do our irrigation practices affect the
		Spokane Valley-Rathdrum Prairie Aquifer, our
		main source of water
Spokane River, outdoor camping? Or Rafting, fishing.		and the Spokane River, one of the main
		reasons we and many visitors to our area love
		the Inland Northwest.
	:03	NATS water on the falls, or someone enjoying
		the river (fishing or rafting).

Map of the SVRP aquifer area.	:45	The SVRP aquifer stretches 370 square miles
Person drinking water.		and is the designated sole source of drinking
		water for over half a million residents in the
		Spokane and North Idaho area.
River/water path from aquifer to Lake Spokane. Could be animation; Start with Idaho.		Water from our aquifer flows into and out of
		the Spokane Riveron to the Little Spokane
		Riverand ultimately into Lake Spokane.
Images/animation of water flowing into lakes, or seeping out.		Area lakes are also fed by, or through ground
		seepage restock, our aquifer.
Home or business construction	:03	NATS FULL
Graphs showing rates of new home development.		Our population is growing, and so is demand for
development.		water to support that growth.
Construction sites: Rathdrum Prairie, Spokane Valley.		
Water delivery pipes, storage systems.		Water providers have limited water rights, and
Drilling rig in action.		creating new delivery systems, and drilling wells
		is expensive.
Housing construction.		While water supply and cost aren't much of an
		issue yet, efficient use of water is critical to
		ensure it will be available at a reasonable price,
		and healthy enough to sustain growth.
Outdoor recreation on river, lakes. Include Idaho. Low river water just east of Sullivan.		Spokane and North Idaho's outdoor recreation
		industry is boomingit brings millions of dollars
		into our local economy each year. Full and
	:55	healthy rivers and lakes are key to maintaining

**Commented [TMS1]:** I'm working on securing an actual figure, for more impact.

		and growing that revenue, so important to our
		future.
Worker installing irrigation.	:03	NATS FULL
Person working on irrigation system.		One way to protect our water resources is to
		refine irrigation practices.
Sullivan reach area of Spokane River.		Irrigation water is drawn from, and flows back
		into the aquifer, area lakes, and Spokane River,
		affecting both their volume and health.
Water runoff, sprinklers spraying on the road, water carrying oil into storm drains.		A well-designed system is efficient. It uses only
water carrying on into storm drains.		enough water to sustain healthy plants. And it
		doesn't produce runoff that might carry harmful
		waste, fertilizer, herbicides or other chemicals
		into our water system.
Closeup of the most efficient types of sprinkler heads.		Through education and planning, it's estimated
		that landscapes can be well maintained using
		20-50% less water than is being used now.
Companies installing sprinklers.		Currently, irrigation installation is the only part
		of the construction process that doesn't require
	:57	a permit, certificationor any experience.
Person observing, checking their irrigation system, adjusting timers.		Model design standards for irrigation systems
system, aujusting timers.		are being developed. But other steps can be
		taken immediately to improve systems,

		conserve and protect water, and reduce water
		cost.
Video/voiceover of BiJay explaining		Distribution Uniformity tests evaluate the
Importance of Distribution Uniformity		performance of an established irrigation system.
Nr. 51 Watering 1 Effective -		
Distribution uniformity table from BiJay's presentation. (Slide 7)		
Aerial examples of poor water distribution.		
BiJay on cam, then VO with graphs/Slides of before and after water distribution is corrected.	:10	
		Once you've done the testing, you can match
		sprinkler heads with your coverage needs,
		improving system performance.
WaterSense label, irrigation components with the label.		You can also retrofit irrigation systems with EPA
		"WaterSense" products, "certified to use at
		least 20 percent less water, save energy, and
		perform as well or better than regular models."
Pivot sprinklers being replaced, drip lines and rotor heads in use.	:47	Evaporation is a primary source of water waste.
		Replace less efficient pivot sprinklers with drip
		and rotator heads, which produce larger drops
		of water less susceptible to evaporation.
		Adapt your irrigation system for the
		microclimate where you are watering.
Drier land around a building or home.		For example, sun and wind exposure lead to
		higher rates of evaporationit's more efficient
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Soaker hoses and drip systems in use.		to use soaker hoses and drip systems under
		these conditions.
Hot, sunny conditions; sprinkler going.		Avoid watering in the heat of the day, 11:00
		a.m. and 6:00 p.m., when evaporation rates are
		the highest.
Sprinkler	:03	NATS FULL
Various soil conditions.		The Inland Northwest is home to a wide variety
		of soil types. Each retains and transports water
		differently. System components, and watering
		schedules, should match the specific soil type
		where you are watering.
Cutaway graphic of water running through		For example, water runs quickly through sandy
sandy soil, past the plant roots.		soil or thin topsoil, so heavy watering isn't
		necessary to reach plant roots. But you may
		need to water lightly and more often to keep
		plants healthy.
Freshly-planted lawn		Watering programs should encourage plants to
		grow deep root systems that reach down for
Mature lawn	:53	water, requiring less frequent top irrigation. As
		plants mature, adjust irrigation systems to avoid
		water waste.
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Seasonal changes, how can we show water need changes?		Also adjust system controls several times
		throughout the irrigation season, to match
		climate changes that affect watering needs.
Smart sensors, rain sensors, controllers being		Or install smart controllers, which automatically
adjusted.		adjust sprinkler run times based on local
		weather conditions, reducing water usage, and
		cost.
Broken components, watering sidewalk or street,		Check systems regularly during the watering
		cycle for broken heads, leaks, and inefficient
Video/voiceover of Ron White story of water recovery in East Greenacres allowing for more		watering. The amount of water recovered can
homes to be built.		add up, and have a significant impact.
Backflow device, maybe graphic showing how it works?		A well-designed irrigation system should also
		include a backflow device, which prevents water
		from bringing contaminants into your household
		water.
Smartscape/Spokanescape/Wisescape example?	:03	NATS FULL
Smartscape/Spokanescape example, before and after.		If refining your irrigation system can reduce
		water usage by 20-50%, conservation
		landscaping can reduce your water bill even
		moreand also reduce time spent on landscape
Chart showing cost before and after, time spent on maintenance before and after.		maintenance.
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Native plants, trees and shrubs in landscaping. Hardscaped areas.	Remove lawn, and introduce native plants that
	thrive in your area's climate and natural soil
	conditions. Or install hardscapewhich requires
	no water at all.
Spokane County bar chart use of water by months now and 2040.	Water use is rising. Efficient use of water is
	critical to keep costs as low as possible.
Inland Northwest landscape, people active outside.	The Inland Northwest isn't really a well-kept
	secret anymore. Its beauty, range of outdoor
	activities, and lower cost of living continue to
	draw people here to visitand entice them to
	stay.
Sprinkler planning (people discussing?).	A thoughtful approach to irrigation is a way to
	help extend the benefit, and joy, we get from
	our region's natural water resources, into the
River rafting, camping, other water activities.	future.