



Planting for a Rainy Day



THE UNIVERSITY OF ARIZONA
Cooperative Extension

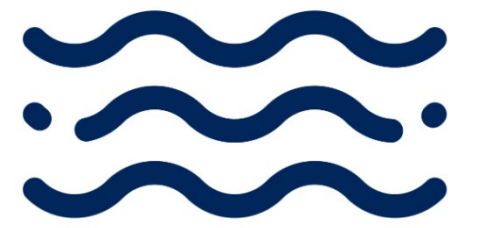
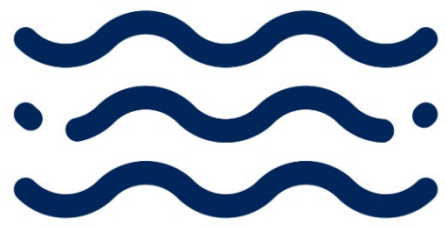
2025-2026



ARIZONA

project WET

WATER EDUCATION TODAY



Lesson 2: Wrap Up Smart Landscapes

Investigative Questions

- How can you harvest rainwater to transform an impermeable plot of land on your school grounds into a water-efficient oasis?

Smart Landscape Design: Lesson 2 Wrap Up

Lesson 2: Wrap Up:

- After each group has finished their design discuss answers to calculations of Rainwater Harvesting worksheet
- Have each group share their design and have the class vote according to rubric
- Discuss what were some of the challenges presented by different areas the groups chose around the school? Are there concepts that they have learned through doing this activity that they can apply at home?
- Will you be more likely to notice green infrastructure around your neighborhoods and community now?
- Send pictures to APW!



SUSTAINABILITY & STEWARDSHIP:

We all have a role:

- The quality of water in a river, lake or in our groundwater is influenced by both natural factors and how people use the land around it.
- Everyone is responsible for the health of the watershed and the water systems within it.
- Our actions, good or bad, have an impact on our water supply.



SUSTAINABILITY & STEWARDSHIP:

My Water Footprint

Investigative Questions

- How much water do I use daily?
- Why is water use called a water footprint?
- How can I be a better water steward?

Indirect Water Use

The water used to produce the goods and services we all enjoy. It is the water hidden or not seen by the end-user during the process or manufacturing of a good or service.



Direct Water Use

Water you use directly to do something immediately. Water that is seen, felt and used at that given time, when you turn on your faucet or hose for water.

SUSTAINABILITY & STEWARDSHIP:

What is a Water Footprint?

- It reveals water use patterns, from the individual level all the way to the national level.
- It shines a light on the water used in all the processes involved in manufacturing and producing our goods. It also accounts for water contaminated during manufacturing and production.
- A water footprint is measured in terms of the volume of water consumed, evaporated and polluted.



[What's Your Water Footprint - Water Calculator](#)

SUSTAINABILITY & STEWARDSHIP:

BE THE TIDAL WAVE OF **CHANGE!**

Your daily choices and actions can add up to make a positive difference.

WATER STEWARDSHIP PUZZLE

Use the clues to fill in the words above. Words can go across or down. Letters are shared when the words intersect.

ACROSS

1. I can make sure all of my _____ goes where it belongs, either in the trash or in the recycle can.
4. What types of plants are best to put in your garden and landscape with to save water?
5. An underground bed of saturated soil or rock that yields significant quantities of water.
11. It is your _____ to pick up after your dog.
12. The water _____ is at the top of an unconfined aquifer; indicates the level below which earth materials are fully saturated with water.
13. This adds air and water together to create more pressure and use less water in your sinks.
15. While waiting for your shower to heat up or cool down, collect the water in a _____ and water your plants with it instead of letting it go down the drain.
16. Replace this in your toilet tank every so often to prevent silent leaks.
17. Chemicals like _____ and herbicides, when not used properly can poison our groundwater.

DOWN

2. Water used in the process of making something else or to provide a service is called _____ water use.
3. Even if it is dripping very slowly, a _____ can waste a lot of water and needs to be fixed.
6. A _____ bag is better than using a single use plastic bag when possible.
7. On average one person uses 120 _____ of water in a day?
8. Water found in spaces and pores between earth materials.
9. What can waste up to 9-30 gallons a minute when water is left running?
10. What materials must be disposed of properly so harmful chemicals don't get into our water?
14. What kind of _____-friendly products can you try to buy that use less water and are more sustainable for our planet?

SUSTAINABILITY ACTIONS

Place a check ✓ next to each item YOU can do to help conserve and keep our water clean.

<input type="checkbox"/> Water plants instead of pouring water down the drain.	<input type="checkbox"/> Make sure family's car isn't leaking oil in driveway.
<input type="checkbox"/> Try to take shorter showers.	<input type="checkbox"/> Let my trash blow away in the wind.
<input type="checkbox"/> Pick up after my dog and remind others to do the same.	<input type="checkbox"/> Be a detective and always be aware of possible leaks.
<input type="checkbox"/> Bring my own reusable water bottle.	<input type="checkbox"/> Always use a hose nozzle on my hose.
<input type="checkbox"/> Plant native and drought-tolerant plants that belong here.	<input type="checkbox"/> If I wash my car at home, let the hose run the whole time.
<input type="checkbox"/> Run the washing machine even when it isn't full.	<input type="checkbox"/> Recycle whenever possible.
<input type="checkbox"/> Always leave the water running when brushing my teeth.	<input type="checkbox"/> Don't care about the dangerous chemicals my family uses.

I PLEDGE to become a **water steward** and to do my best to make smart choices and take actions that help conserve and keep our water supply clean.

Name: _____ Date: _____

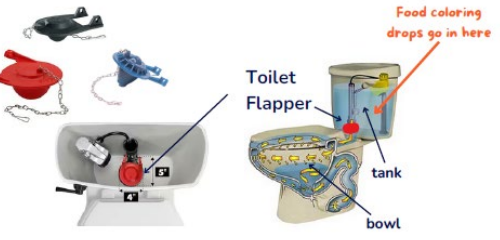
Water Wise Technologies
These are things you can try to use at home!

 <p>High Efficiency Shower Head</p>	<p>Did you know? The average person uses up to 40 gallons per day just by showering. That's 14,560 gallons of water per year!</p>  <p>Uses 2.0 gallons per minute.</p>
<p>Did you know? A garden hose could release anywhere from 9 gallons to 30 gallons per minute that water is running!</p>  <p>Hose Nozzle</p> <p>Hose nozzles save water by temporarily stopping the flow of water and you can also adjust the pressure for your need.</p>	
 <p>Aerator</p>	<p>Did you know? Aerators are found at the head of a faucet. They mix air and water together to create more pressure and to use less water.</p>  <p>no aerator vs. aerator 2.2 gal vs. 0.5 gal</p> <p>If water flows steady with air bubbles that looks white, then you have one, but if water is clear then you may need one.</p>
<p>Did you know? A toilet flapper stores water in the tank. When you flush, the handle lifts the flapper and lets water into the toilet bowl, then closes back up tightly like a door between two rooms. Flappers are made of rubber and can weedy dry out causing a leak. It can waste up to 200 gallons a day!</p> <p>Toilet Flapper</p>  <p>Want to be a detective and try an experiment? See how on the next page!</p>	

LIMITING LINGERING LEAKS

Toilet Leak Experiment:

- Let's make sure your toilet flapper isn't leaking! This experiment can be done several times a year or whenever you suspect a leak.
 - With permission from an adult, you can put some food coloring in the toilet tank.
 - Set a timer and do not flush your toilet for 30 minutes.
 - Then go back and see if the colored water flowed into the toilet bowl.
 - If you saw any color in your bowl then your flapper is leaking and it is time to replace it.
 - With assistance, measure the size of your current flapper so you know what size to replace it with. Then your family can purchase a new one.



Food coloring drops go in here

Splashing into Solutions

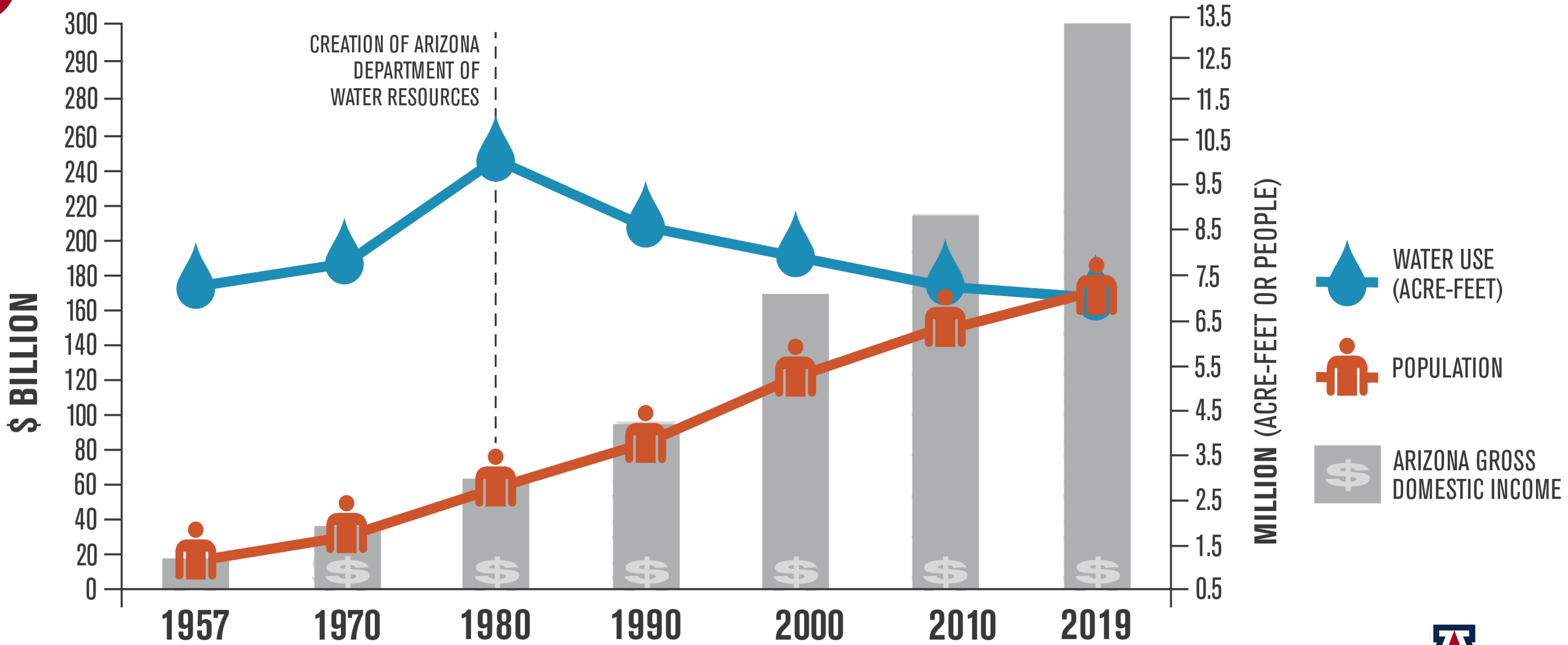
You Have the Power!

What is Water Conservation?

- Beneficial reduction in water loss, waste or use by changing behavior to use less water.

What is Water Efficiency?

- Minimize the amount of water used to accomplish a function or task. Doing more with less water. Normally relies on well-engineered products and fixtures or technology.



SOURCE: ADWR, 2020





Take the PLEDGE:

I PLEDGE to be a water steward,
to do my best to make smart
choices and take actions that help
conserve and keep our water
supply clean.