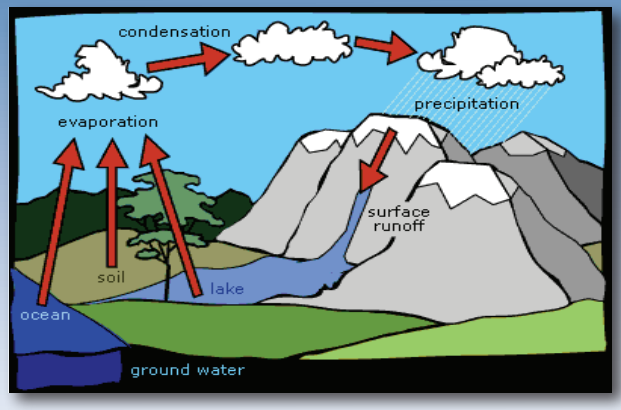
THE WATER CYCLE

HOW WATER MOVES AROUND THE WORLD



The Water Cycle is the endless movement of water around the planet. The sun's heat provides energy to evaporate water. Plants also lose water to the air through transpiration. The water vapor can condense which causes precipitation. Some precipitation percolates into the groundwater while some flows into rivers and lakes. And then, the whole cycle starts over again as the water evaporates!

Evaporation is when the sun heats up the water in a water body and turns it into vapor. The water vapor leaves the water surface and goes into the air.

Condensation is when water vapor in the air gets cold and changes back into liquid, forming clouds.

Precipitation occurs when so much water has condensed that the clouds cannot hold it anymore and it falls to the earth as rain, hail, sleet, or snow.

Surface runoff is when precipitation lands on the earth's surface and runs over the soil, collecting in oceans, lakes, or rivers.

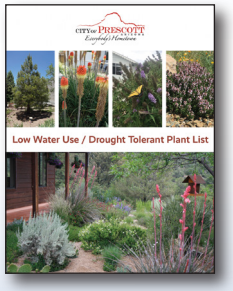
Groundwater is water stored below the land surface in rock formations called aquifers.

Transpiration is when plants lose water out of their leaves.

ARE YOU WATER CYCLE SMART?

Conserving water and preventing dirty runoff are two ways you can help the natural water cycle *and* the Prescott water cycle. And it all starts in YOUR yard! It's as easy as...

1 Visit **www.prescottwater.com** to tour local water smart landscapes and browse native plants to get ideas for your unique water smart yard.



◀ SCAN TO VIEW!

2 Apply for rebates through the **Water Conservation Rebate Program** for turf replacement, drip irrigation, rainwater harvest installation, and more...

3 Enjoy the water and money savings from your new Water Smart yard!

FOR MORE INFO, VISIT:
https://prescottwater.com
OR CALL:
(928) 777-1130 EXT. 5012

CITY OF PRESCOTT ARIZONA

PRESCOTT WATER

WHERE DOES IT COME FROM?

On a global scale and in natural environments, the **Water Cycle** moves water around the planet continuously. But on a local scale, the natural water cycle is altered by man-made systems, designed to provide water to homes and businesses, prevent flooding, store the water for later use, and many more benefits!

Just as water circulates continuously in the global water cycle, water in Prescott also circulates continuously in the **Prescott Water Cycle.** The City's water cycle is unique and efficient, designed to maintain a sufficient water supply for our community now and into the future!

LOOK INSIDE TO FOLLOW THE CITY'S WATER CYCLE

City of Prescott - Water Conservation
We are on the web!
https://prescottwater.com

CITY OF PRESCOTT WATER CYCLE

HOW WATER MOVES THROUGH THE CITY

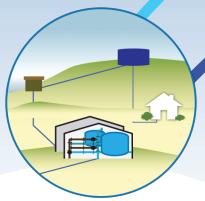
Water Use and Conservation: The water we use in our homes is a precious resource. Practicing a low water-use lifestyle is a way everyone can help ensure a long-term, sufficient water supply. Reducing pollutants, such as debris and chemicals from our yards,will keep our water healthy.

Wastewater Collection: Once water leaves your home it enters the sewer system and is transported to one of two City wastewater treatment plants.

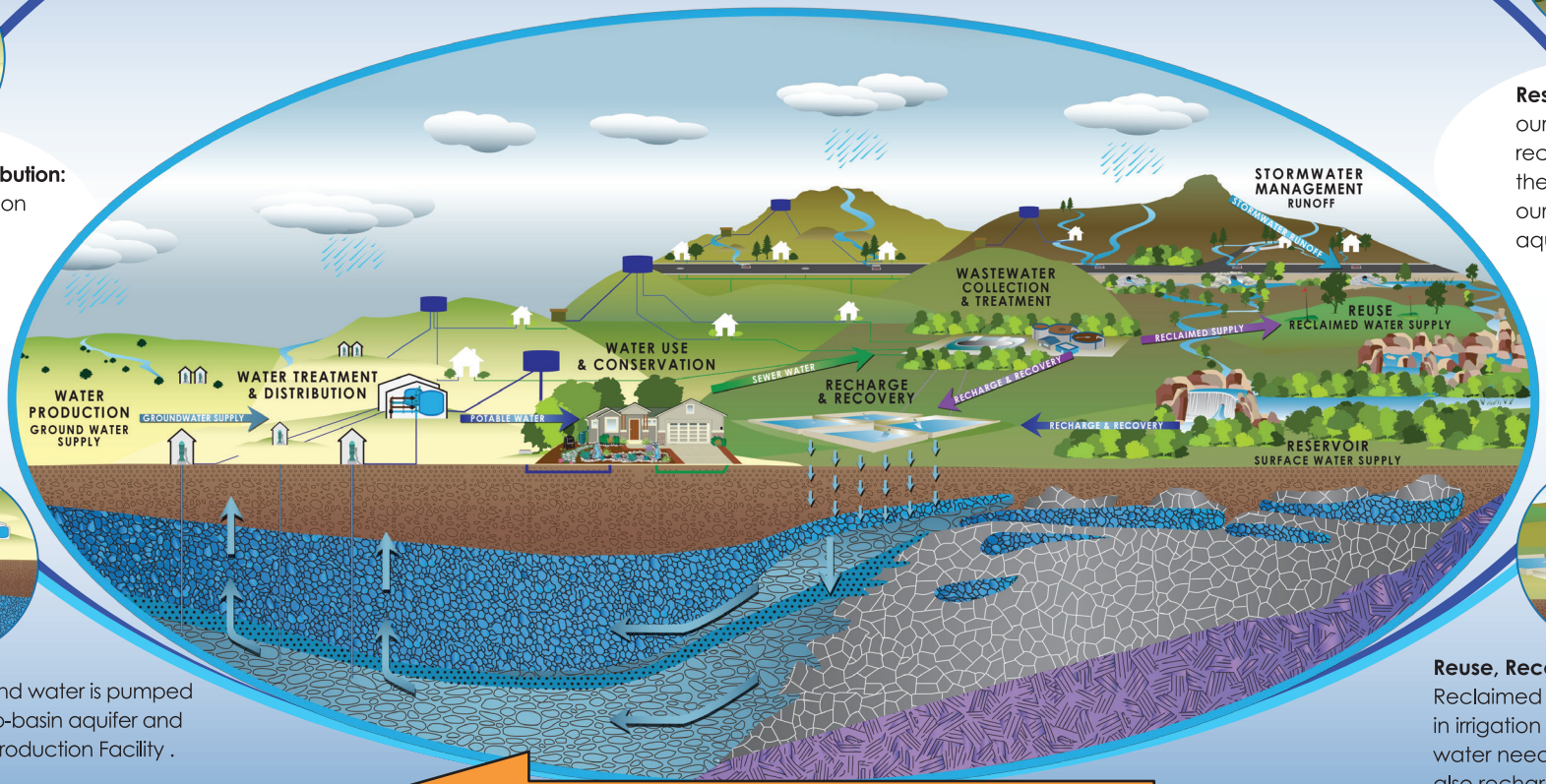
Wastewater Treatment: Wastewater that flows to the wastewater treatment plants is reclaimed. This means it is treated to a high quality to remove solids and impurities.

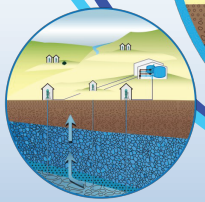
Stormwater Management: Stormwater runoff enters the City's storm sewer system, which consists of gutters, ditches, storm drains, and creeks. Eventually it enters and fills the lakes.

Reservoirs: Water from our lakes is sent to a recharge facility where the water percolates into our local groundwater aquifer.



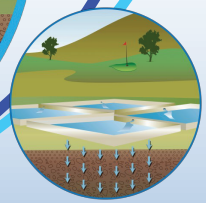
Water Treatment & Distribution: From the City's Production Facility, pumps convey water to Prescott via high-pressure water mains.





Water Production: Ground water is pumped from the Little Chino Sub-basin aquifer and delivered to the City's Production Facility .

The reclaimed water will either recharge the aquifer or be recovered for use, starting the Prescott Water Cycle all over again!



Reuse, Recovery, & Recharge: Reclaimed water is used directly in irrigation and to meet industrial water needs. Reclaimed water is also recharged to our ground-water aquifer for recovery or to be "banked" for future use.