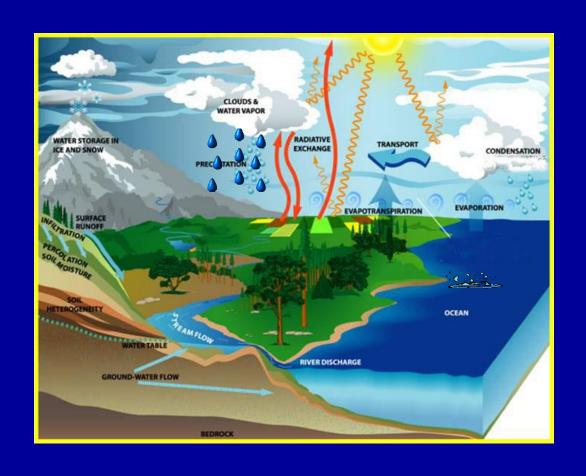
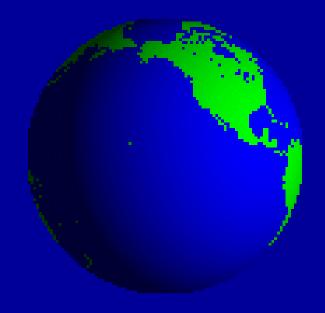
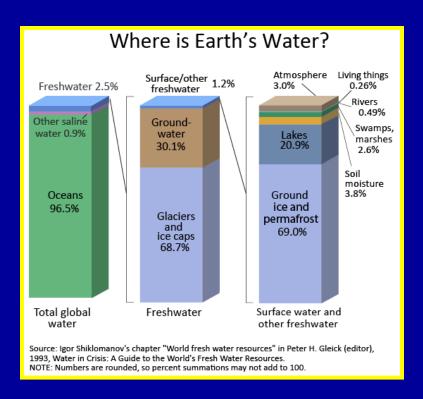
WATER CYCLE



71% of Earth is covered with water



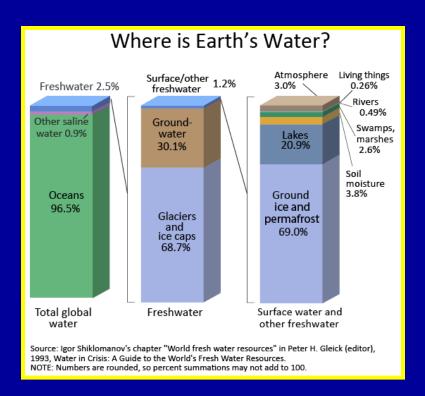
96.5% of that water is saltwater in the oceans and seas



Only 2.5% of Earth's water is freshwater.

68.7% of the freshwater is frozen in glaciers and ice caps.





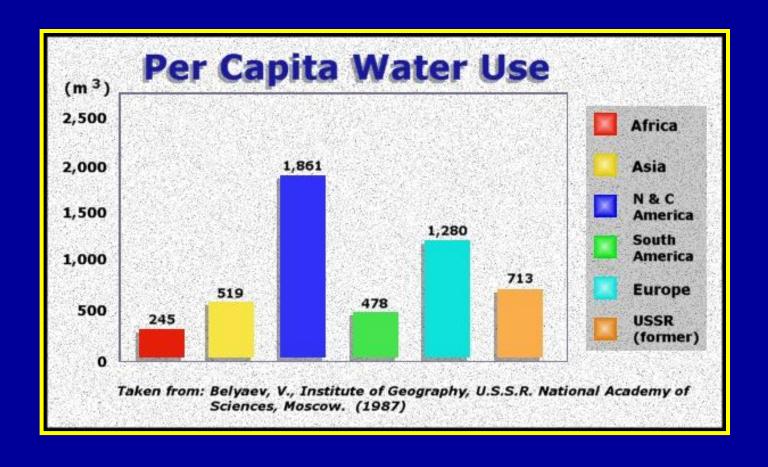
30.1% of the freshwater on Earth exists as ground water.

Only 1.2% of all the freshwater on Earth is on the <u>surface</u> in streams, ponds, and lakes.



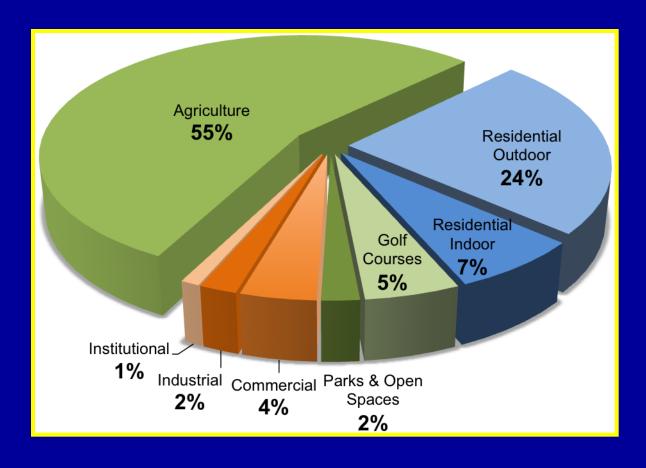
Water Use

Worldwide, the <u>United States uses</u> the <u>most</u> freshwater per capita, followed by Europe.



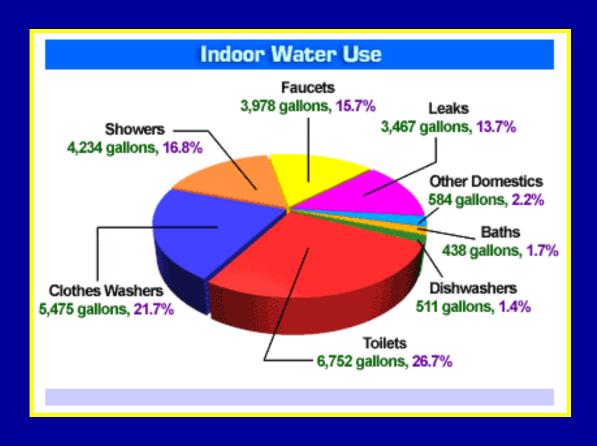
Water Use

Within the United States, <u>over half</u> of the freshwater used is for <u>agriculture</u>, followed by residential <u>outdoor use</u>.



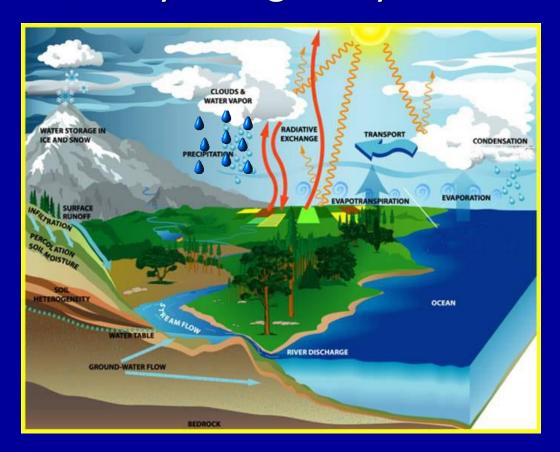
Water Use

Within an average American home, flushing toilets use the most freshwater, followed by washing clothes and taking showers.



Water Cycle

Earth's fresh water supply is continuously <u>recycled</u> in a process called the Water Cycle, also known as the hydrological cycle.

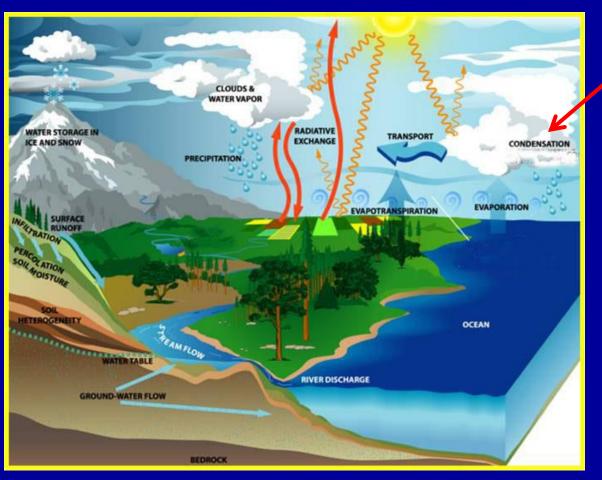


Powered by <u>radiation</u> from the <u>Sun</u>, water changes from a liquid to a gas during evaporation



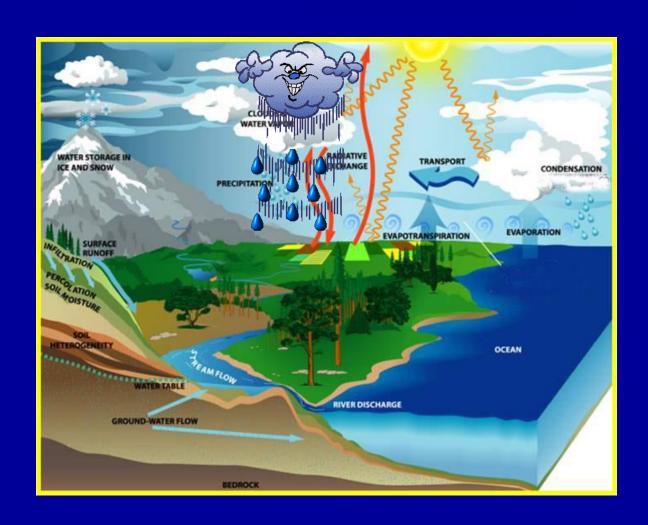


Water vapor rises in the atmosphere, collects to form <u>clouds</u>, and cools back into liquid water during <u>condensation</u>





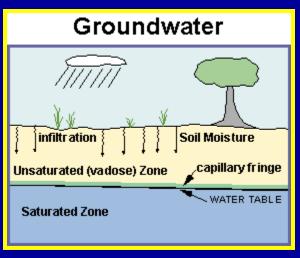
Once enough water condenses in the clouds, water and <u>falls</u> back to Earth as <u>precipitation</u>



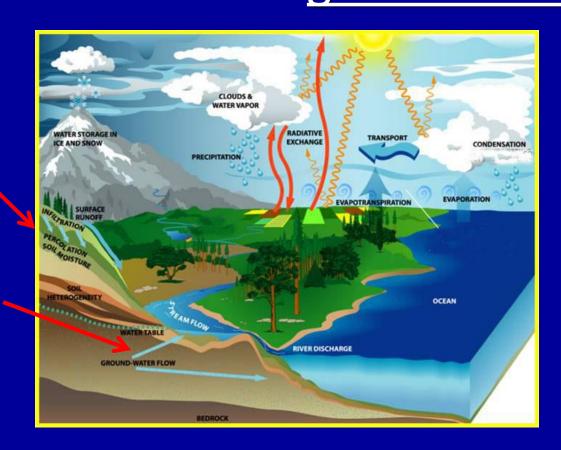
Rain Sleet Snow Hail

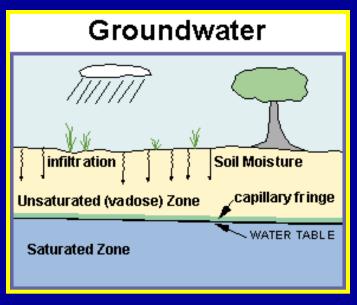
When precipitation reaches the ground, some of the water <u>soaks</u> into the ground through infiltration





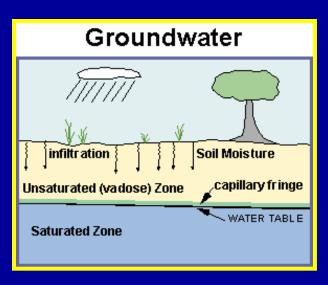
While the infiltrated water <u>percolates</u> through the ground, it is filtered, cleaned, and purified, before it becomes part of the groundwater.



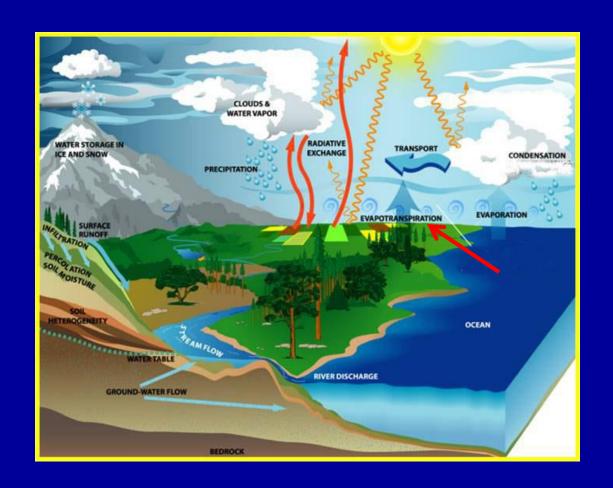


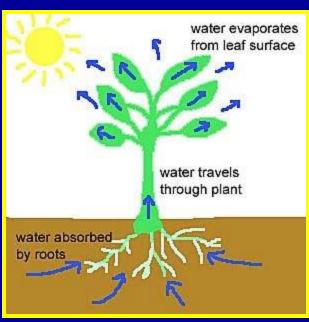
The top of the groundwater supply is called the <u>Water Table</u>. Whenever the water table reaches the surface of the ground, a <u>spring</u> is formed and the water flows out into streams, lakes, or the ocean.





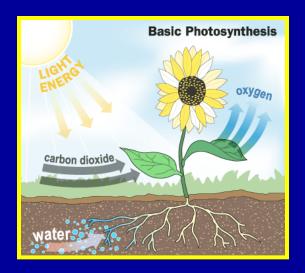
Some of the infiltrated water is taken up by <u>plants</u> during photosynthesis. On hot days, a lot of the water in plants, <u>evaporates</u> out <u>through</u> the <u>leaves</u> during a process called <u>transpiration</u>.



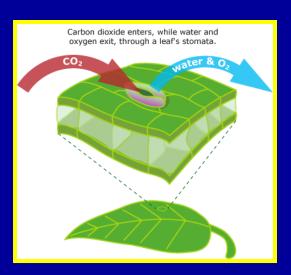




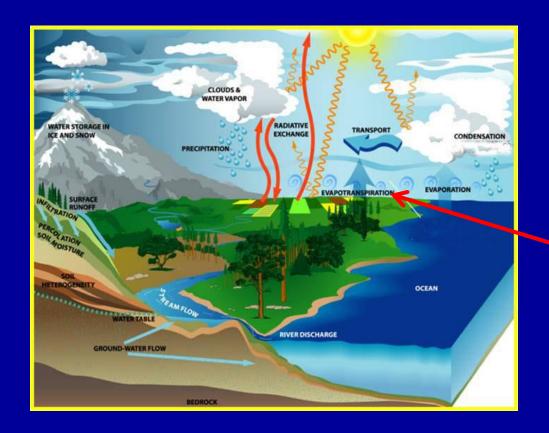
During photosynthesis, carbon dioxide flows into openings in the leaves of plants, called <u>stoma</u>, while oxygen and water vapor flows out.







At the same time, some of the infiltrated water evaporates out of the soil.



The combination of transpiration and evaporation from the soil is called <u>evapotranspiration</u>.

Water that does not soak into the ground through infiltration <u>flows over</u> the <u>surface</u> of Earth as <u>Surface</u> Runoff



Surface runoff water makes it way into <u>streams</u> that eventually flow into lakes and the ocean.



Once the water is in <u>lakes</u> and the <u>ocean</u>, the process begins all over again.

The End

