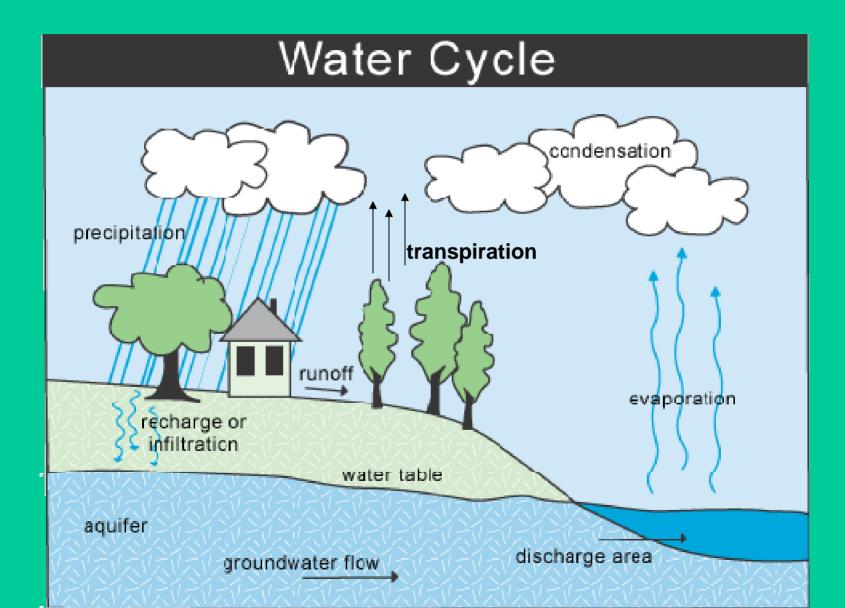




Watersheds

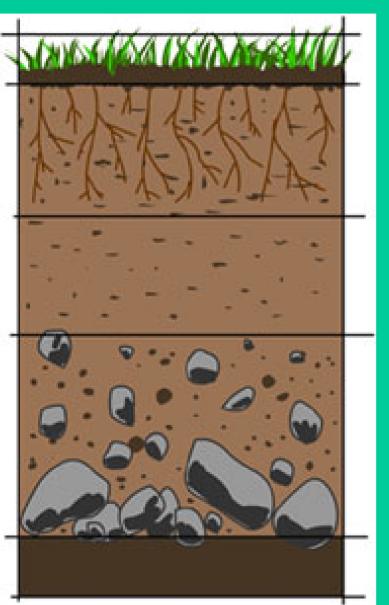
The Water Cycle



Precipitation



Recharge or Infiltration



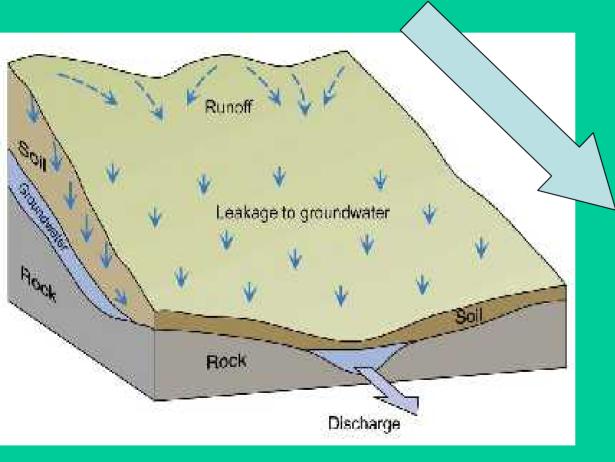
Precipitation can soak into the soil where it may be absorbed by plants or becomes

GROUNDWATER!

Recharge Areas



Runoff



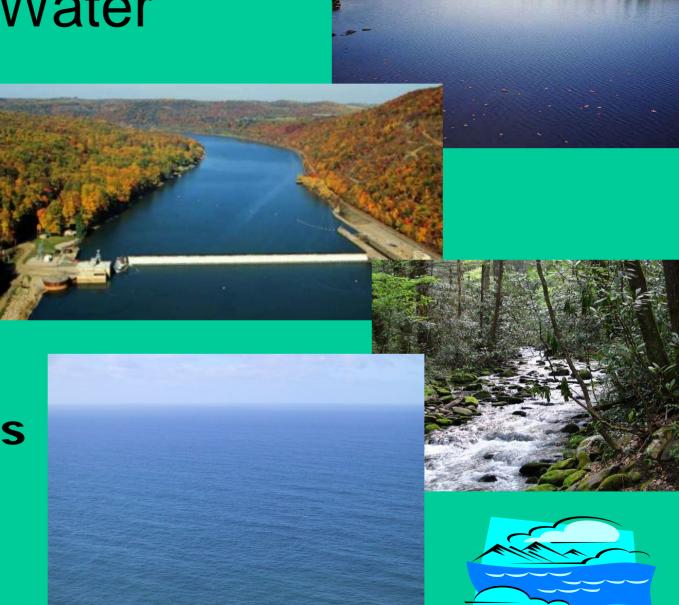
When precipitation cannot infiltrate it runs off the land and becomes SURFACE WATER!

Poor Recharge Areas



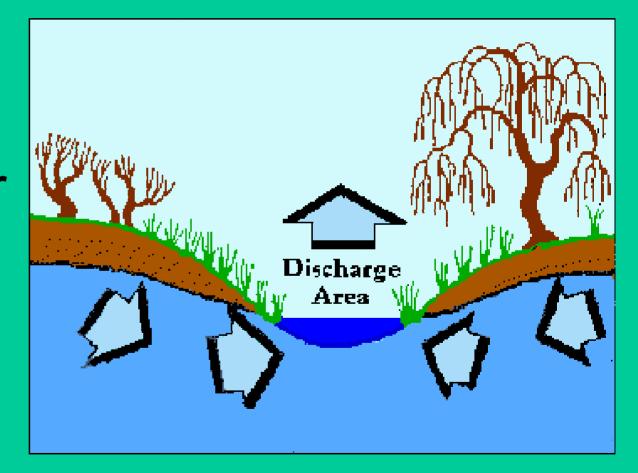
Surface Water

Lakes **Rivers Streams** Ocean Reservoirs **Puddles**

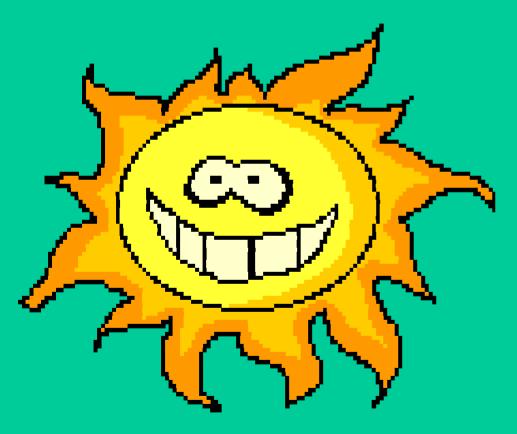


Discharge Areas

Where groundwater becomes surface water



Evaporation



A process where the water is heated and turned into a water vapor. The sun is the main heat source.

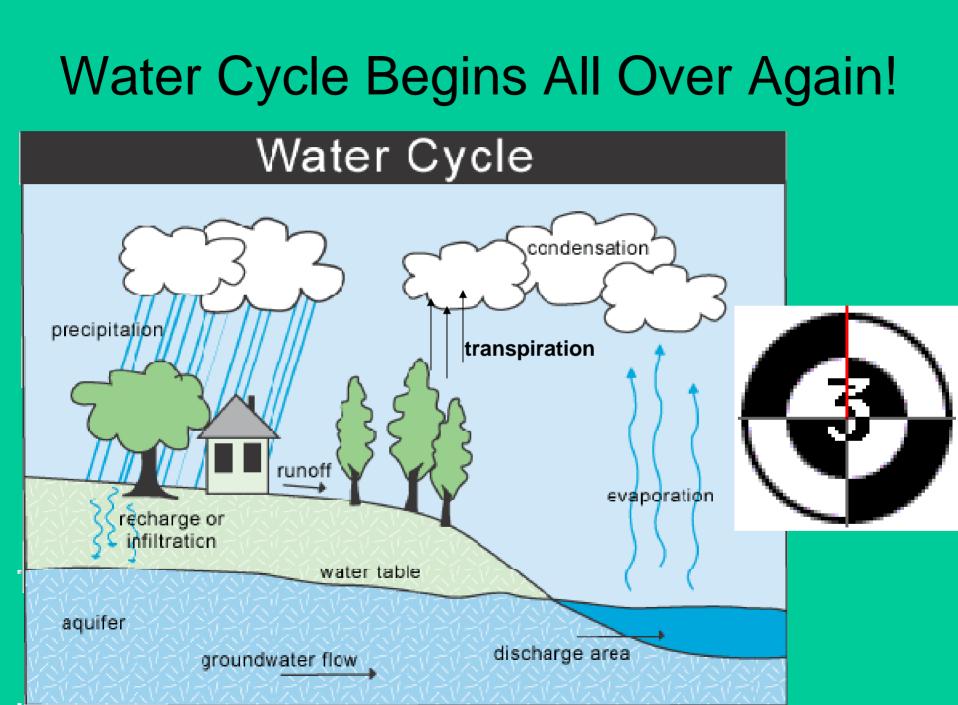
Transpiration



Process in which the water in plants become vapor



Where warm and cold air collide and form ice crystals that condense and form droplets of water, which eventually fall as precipitation.



Groundwater

Why is groundwater so important?



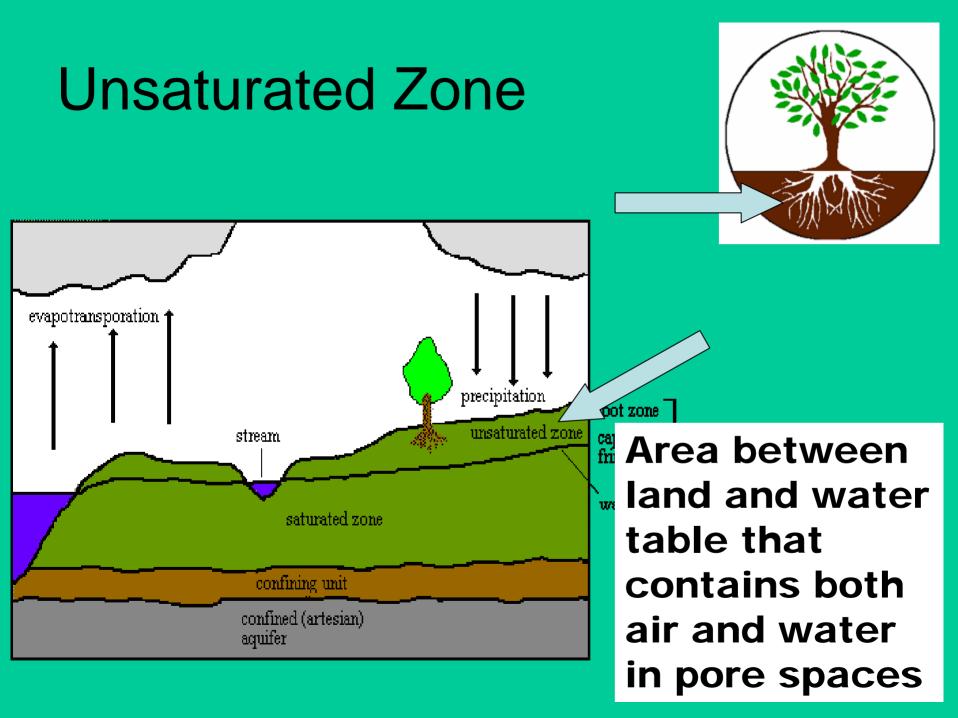
Groundwater

Drinking Water Supply

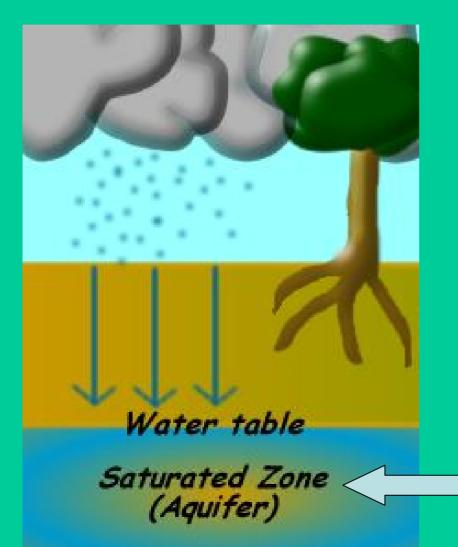




* Provides the Base Flow for our Surface Waters



Saturated Zone



Area below the water table where all available pore space is filled with water

Water Table

water

summer water table.

Top of the Saturated Zone

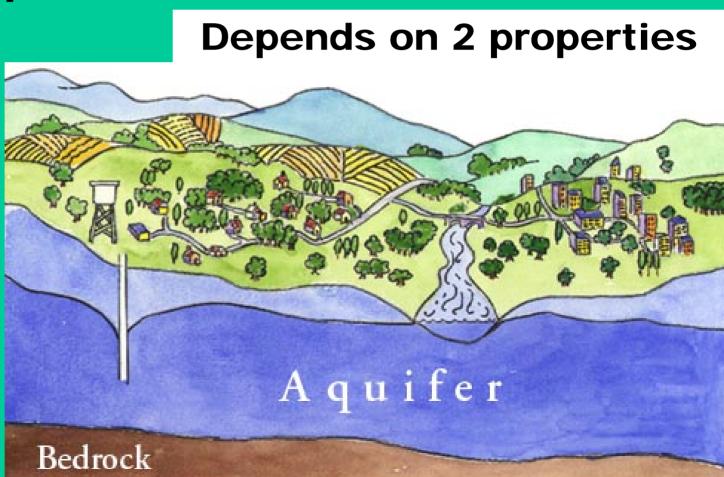
river

(dry in summer)

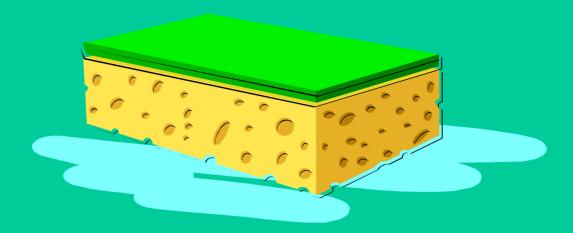
>one of intermittent saturation

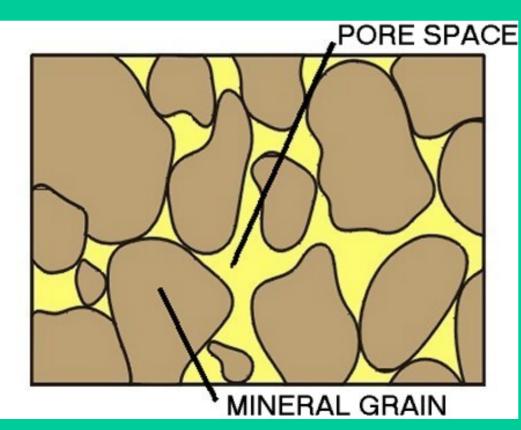
Aquifer

Formation capable of supplying useable amounts of water



Porosity

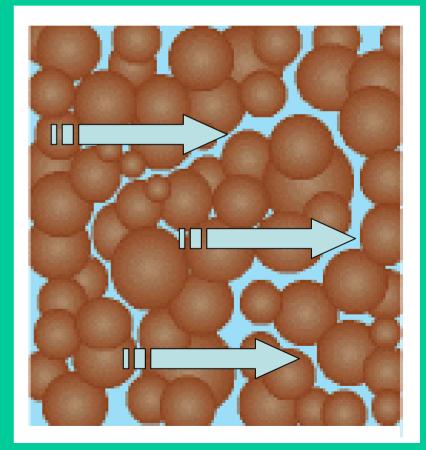




Amount of open spaces with rock or soil

Permeability

Relative ease with which water can flow through rock and soil





Wetlands





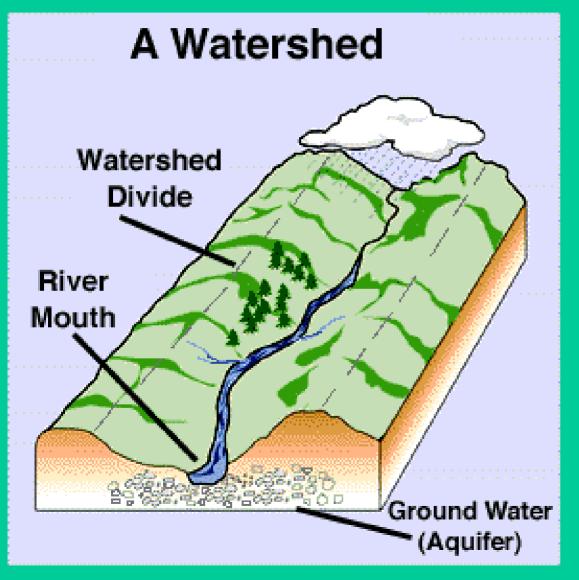
Helps Reduce Flooding

Acts as a Filter

Provides Habitat



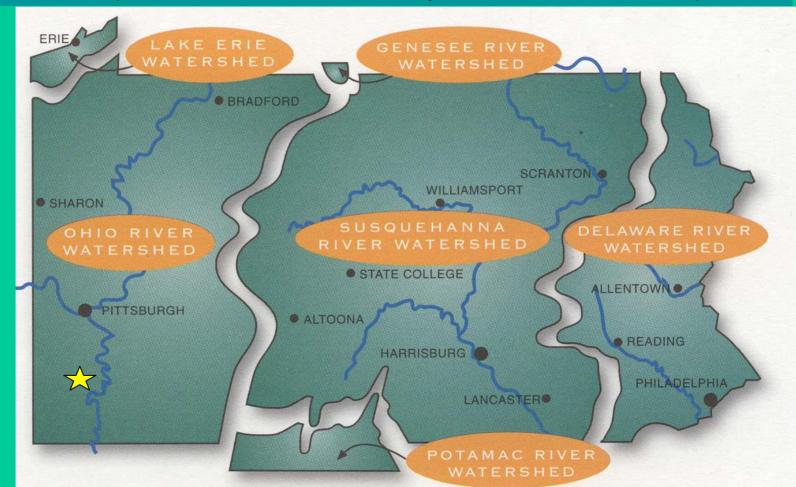
Watershed



An area of land in which all water drains to one common point

Watersheds

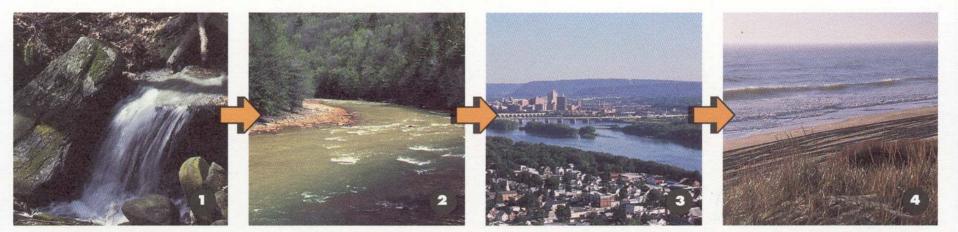
• PA has 6 major watersheds & every watershed is unique.



Pennsylvania contains parts of six major watersheds, all of which eventually drain into the Atlantic Ocean. Locate the major watershed that you live in.

Water Movement

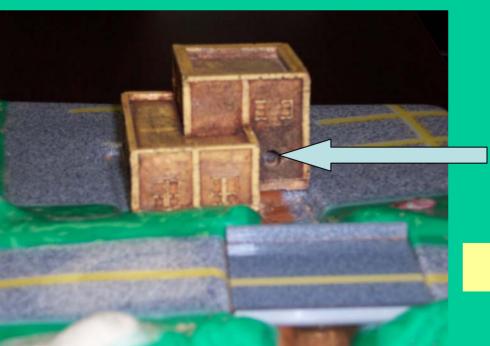
Water movement through a watershed



Within all watersheds, small streams (1) join together to form larger streams (2) and larger streams join together to form rivers (3). Rivers eventually empty into the ocean (4) where the water may stay for some time or evaporate and form precipitation. Some of this precipitation falls on the land and the process repeats itself endlessly.

Point Source Pollution

A single identifiable source





FACTORY



CONSTRUCTION







FOREST DESTRUCTION





PESTICIDES



20-2









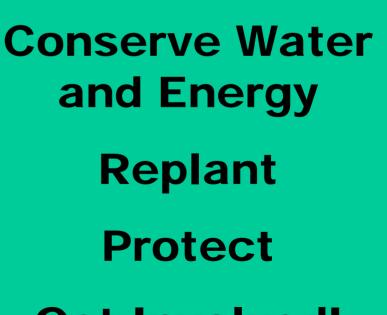
We Don't Want This!



What Can You Do?

Recycle Reuse





Get Involved!

The End

