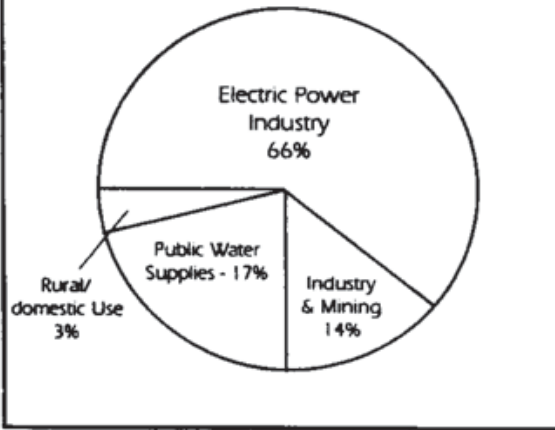


# Virginia's Water Resources

## Who consumes what?



### Jobs that work with water:

**Forest and Conservation Workers**-build erosion and water control structures  
**Forest and Conservation Technicians**-Assist conservation scientists in the conservation of soil, water, and related natural resources.

**Environmental Scientist**-Collects and analyzes data from soil or water samples.

**Environmental Science Technician**-Under direction of an environmental scientist or specialist, may collect samples of gases, soil, and water for testing.

**Forester**-Determines how to conserve wildlife habitats, creek beds, water quality, and soil stability.

**Geologist**-Assesses ground and surface water movement.

**Hydrologist**-Researches the distribution, circulation, and physical properties of underground and surface waters.

Water is vital to Virginia's well-being, as it is to communities across the globe. Water supports virtually every human endeavor-from farming and forestry to the generation of electric power and all types of manufacturing processes. Water sustains human "habitat" as it does for the millions of plants and animals that share the planet with us. Here in our little corner of the world, fresh water use currently totals more than 5,467 million gallons per day (mgd), or approximately 826 gallons daily for each Virginia resident.

**Surface water** is the kind we can easily see-streams, lakes and reservoirs, springs, and wetlands. Virginia has:

- Rivers: 49,000 miles of streams in 9 major river basins
- Lakes: 450 public and private covering 322,000 acres
- Springs: 1,600 (100 of them yield > 450 gallons per minute)
- Wetlands: 1,000,000 acres, decreased from 1.8 million acres in 1780

**Ground water** is found beneath the soil mantle in rock fractures and sediment formations. About 2 million Virginians, or 34%, depend entirely on wells for drinking water.

1. What job looks at ground and surface water movement?

2. What industry uses the most water in Virginia?

3. What jobs work with conserving water resources?

4. What jobs collect water samples for testing? \_\_\_\_\_

5. What jobs build structures to prevent erosion and control water? \_\_\_\_\_

6. What percentage of water does the public use according to the graph above? \_\_\_\_\_%

7. How many river basins are in Virginia? \_\_\_\_\_

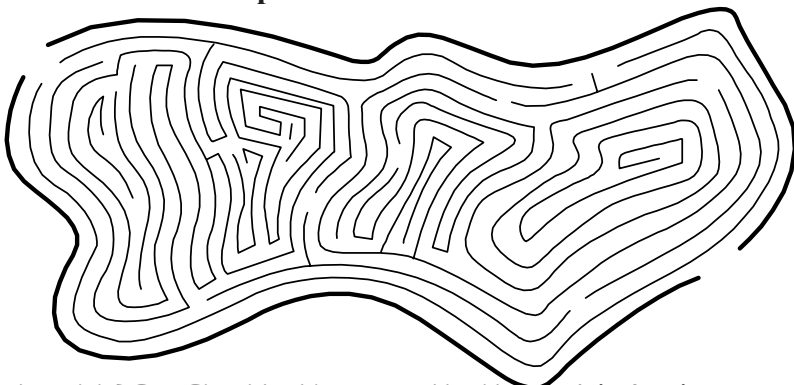
8. Were there more wetlands in Virginia in 1780 or now? \_\_\_\_\_

9. Do people that work with water work outside? \_\_\_\_\_

10. Would you like a job that works outside? \_\_\_\_\_

Why or why not? \_\_\_\_\_

Complete the water maze below:



Source: <http://www.deq.state.va.us/vanaturally/>