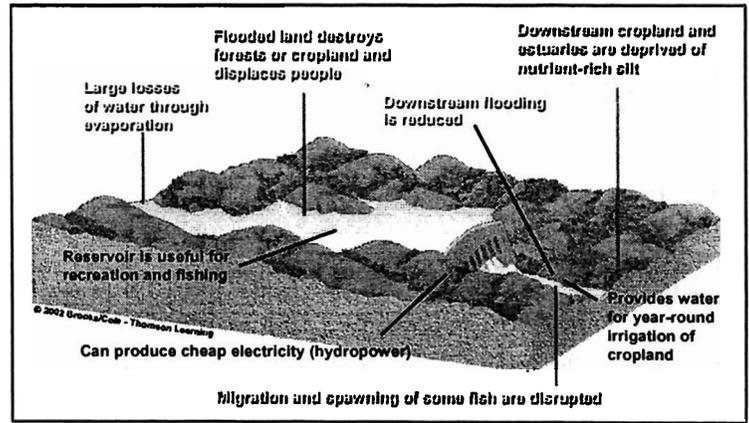


**Ch. 14 review questions**

1. List 2 major advantages and disadvantages of building large dams and reservoirs to supply fresh water.
2. List the major advantages and disadvantages of (a) building numerous dams along the Colorado River basin and (b) China's Three Gorges dam.
3. Describe the controversy over (a) the California Water Transfer Project and (b) the James Bay water transfer project in Canada.

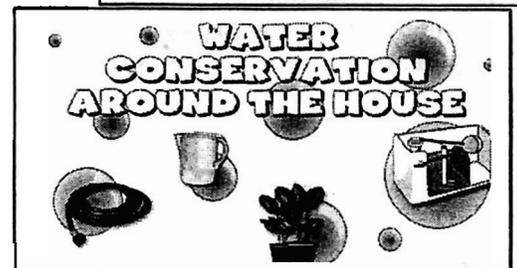
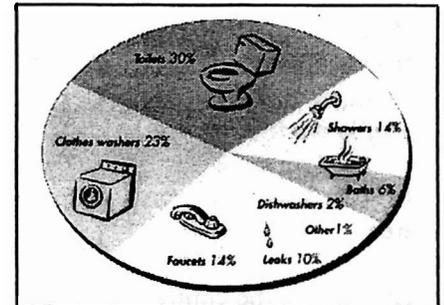


4. List 2 advantages and disadvantages of supplying more water by withdrawing groundwater. Explain why excessive groundwater withdrawal can be viewed as an example of the tragedy of the commons.
5. What is *saltwater intrusion*, and what harm does it cause?
6. Summarize the advantages and disadvantages of withdrawing groundwater from the Ogallala Aquifer in the United States.
7. List 3 ways to prevent or slow groundwater depletion.
8. What are two major concerns about withdrawing water from huge, very deep aquifers?

9. List the advantages and disadvantages of increasing supplies of fresh water by desalination of salt water. How useful are seeding clouds and towing icebergs in increasing to increase water supplies in water-short areas?

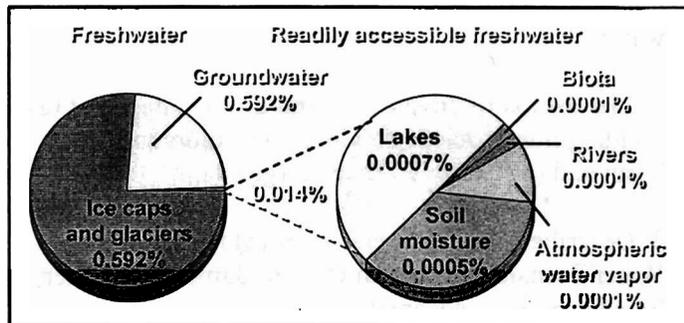
**Ch. 14 Review questions**

1. About what percentage of the water used by people throughout the world is wasted? To what percentage could we reduce such waste? List two major causes of water waste
2. Describe three major irrigation systems and list them in order of their efficiency of water use.
3. List 3 ways to reduce water waste in irrigation and 3 ways to reduce water waste in industry, homes, and businesses.
4. List five principles for reducing the use of water to remove industrial and household wastes.
5. List the major benefits and disadvantages of floods. List four ways in which humans increase the damages from floods. Describe the nature and causes of the flooding problems in Bangladesh.
6. List 5 ways to use the world's water more sustainably.
7. List 5 ways you can reduce your individual use and individual production waste of water.



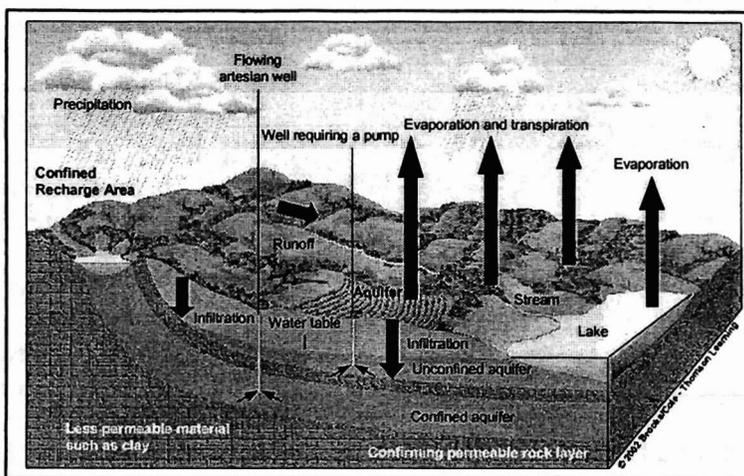
### Ch. 14 Review questions section

- Explain why there is a danger of water wars or economic competition between countries for food imports in the Middle East.
- List 4 unique properties of water and explain the importance of each property.
- What percentage of the earth's total volume of water is easily available for use by people?
- Distinguish among *surface runoff*, *reliable runoff*, *watershed*, *groundwater*, *zone of aeration*, *zone of saturation*, *water table*, *aquifer*, and *natural recharge*. Explain how the water in some aquifers can be depleted.



- Distinguish between *water withdrawal* and *consumptive water use*.

- Since 1900, how much has the total use and per capita use of water by humans increased? About what percentage of the world's reliable surface runoff is used by humanity and what percentage are we projected to be withdrawing by 2025?



- About what percentage of the water we withdraw each year is used for (a) irrigation, (b) industry, and (c) residences and cities?

- What are the major water uses and problems of (a) the eastern United States and (b) the western United States?

- List four causes of water scarcity. Distinguish between *water stress* and *water scarcity*. About how many people live in countries that are water-water stressed or water scarce? How many people are likely to be living in such countries by 2025?

- List 3 ways to increase the supply of fresh water in a particular area.

- Discuss the controversy over whether freshwater resources should be owned and managed by governments or by private corporations.

