

Chapter 18 Objectives: "Water"

1. Compare amounts of *salt water* and *fresh water*.
2. Compare amounts of frozen fresh water and water available for human use.
3. Define *watershed* and *groundwater*.
4. Summarize *water use* in the United States and the world. List four causes of *water scarcity*. Assess the significance of water resources for *international relations*.
5. Describe the factors which play into a *positive feedback loop creating water stress*.
6. List three ways humans contribute to *flooding*.
7. List four strategies humans employ to *minimize the risks of flooding*.
8. Describe the *water problems* of Bangladesh.
9. List five ways to *increase the water supply* and list *advantages* and *disadvantages* of each strategy.
10. Summarize a *key lesson learned* from the following case studies:
 - Colorado River;
 - Egypt's Aswan High Dam;
 - California Water Project
 - San Joaquin River / Friant Dam-Millerton Lake (**not in text**);
 - James Bay Project;
 - Aral Sea disaster;
 - Three Gorges Dam-Yangtze River, China (**not in text**).
11. Describe the role of *groundwater* in supplying fresh water.
12. Assess the *sustainability* of our current use of groundwater.
13. Determine which principles are best illustrated by the *Ogallala Aquifer experience*.
14. Distinguish between *riparian rights* and *prior appropriation* as to regulating water use.
15. Why is such a large percentage of water *wasted* throughout the world? Briefly describe measures which can be taken to *reduce water losses* through *irrigation, industry, and home (domestic) use*.
16. Describe strategies for *sustainable water use*.