

## Chapter 21 review questions

1. What percentages of water are salt, fresh, frozen, available.
2. Look at Figure 21.1 on page 435 - What are some of the major process and reservoirs of water on earth?
3. Read the "Water Use" section on page 440 what are the differences between, and examples of, off-stream use, consumptive use, and in-stream use of water.
4. Look at the graphs on page 443, what are the major sources and major uses of water in the US.
5. Using Figure 21.2 and the text on page 436, review the meanings of aquifer, water table and recharge zone, and describe the difference between "inflow streams" and "outflow streams."
6. Use Figure 21.3 Identify some of the interactions between groundwater and surface water.
7. Page 438. What is average water use in the United states and how does it relate to water flow in the Missouri River?
8. Why is it not possible to store all of the runoff produced by rainfall?
9. Page 439 - What percent of people in the United states use groundwater for drinking water. Why is the Ogallala aquifer a good example of the impacts of groundwater overdrafting?
10. Abbreviate the bullet lists describing methods of water conservation in Agriculture, domestic use, and Industry.
11. Why is the contrast between Tucson and Phoenix a good example of how perception affects water use?
12. What are the three principal types of water use?
13. What relationship is there between runoff and water usage in the state of California?
14. Summarize patterns shown in figure 19.10
15. How could water be better conserved in agriculture?
16. Describe the "variable source approach" to water management.
17. THIS QUESTION IS NOT IN THE BOOK. How is sustainable management of water in the future probably very similar to sustainable energy use in the future?
18. What ecosystem functions do wetlands perform?

19. How are wetlands affected by issues of water supply?
20. How are wetlands restored?
21. What are the environmental effects of dams?
22. What are the adverse effects of channelization?
23. Summarize the hazards presented to humans from flooding and how we can adjust to it.
24. Why is the Colorado river a good example of the complex issues of water supply and management?