

CHAPTER 13: WATER RESOURCES

13-1 Will We Have Enough Usable Water?

- Freshwater is an Irreplaceable Resource

- Most Freshwater is Not Available

- Groundwater and Surface Water – Critical Resources

- We Use Much of the World's Reliable Runoff

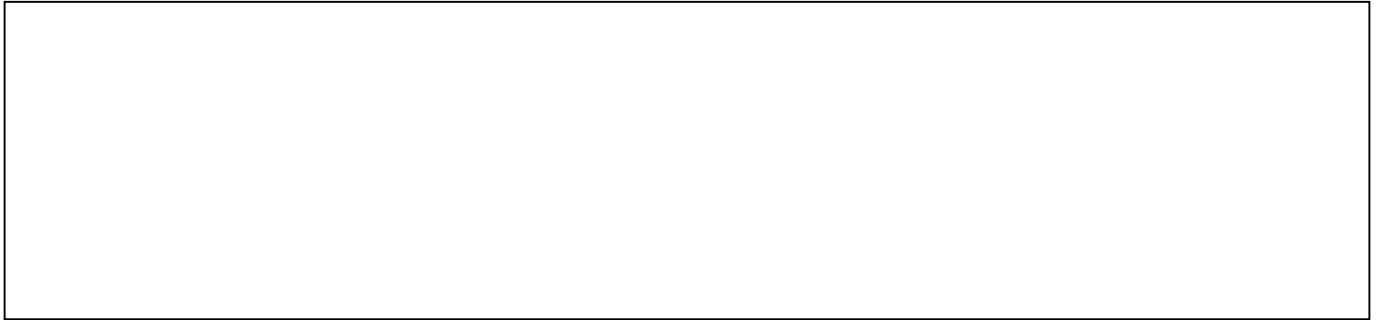
● Freshwater Resources in the US

● Water Shortages

● Ways to Increase Freshwater Supplies

13-2 Extracting Groundwater

- Groundwater is Being Withdrawn Faster Than it is Replenished



- Aquifer Depletion in the US



- Overpumping Aquifers



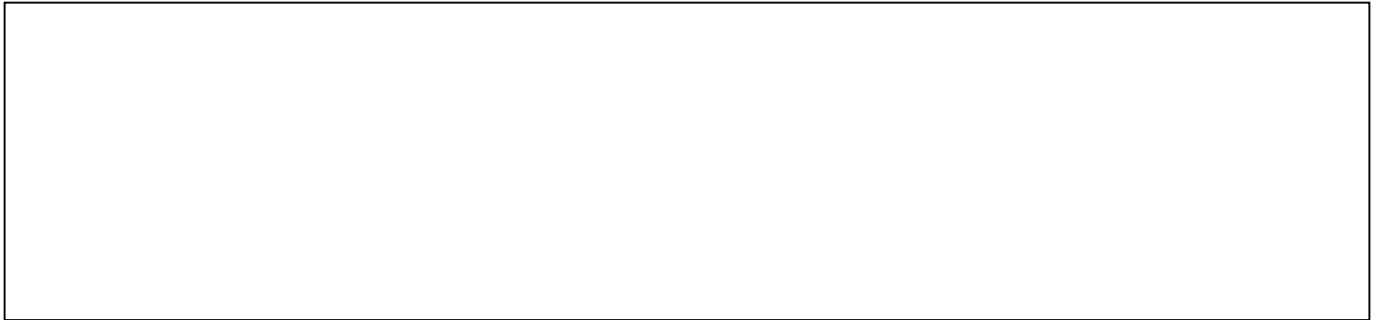
- Deep Aquifers



Diagrams:

13-3 Building Dams

- Large Dams and Reservoirs: Advantages and Disadvantages



- The Overtapped Colorado River Basin



13-4 Transferring Water

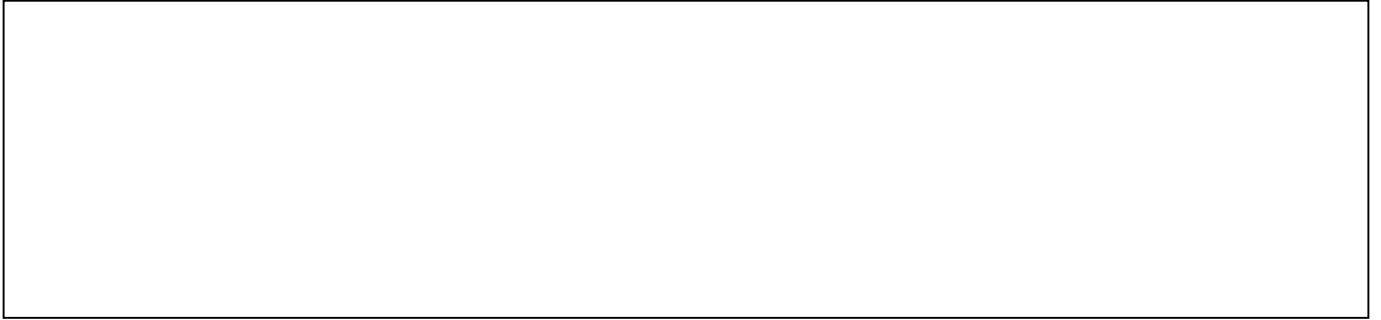
- Wasteful and Environmentally Harmful

- California: Water-Rich to Water-Poor

- The Aral Sea Disaster

13-5 Converting Saltwater to Freshwater

- Removing the Salt From Seawater



13-6 How Can We Use Water More Sustainably?

● Reducing Water Waste: Benefits

● Cutting Water Waste in Irrigation

● Less-Developed Countries, Low-Tech Methods

● Cutting Water Waste in Industry and Homes

● Use Less Water to Remove Wastes

• We Need to Use Water More Sustainably



Diagrams:

13-7 How Can We Reduce the Threat of Flooding?

- Too Much Water From Flooding

- Floodplains in Bangladesh

- Reducing Flood Risks