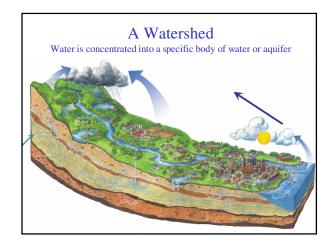
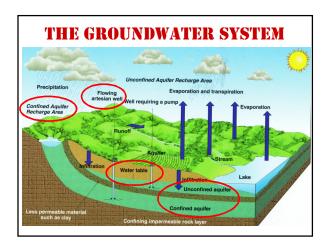
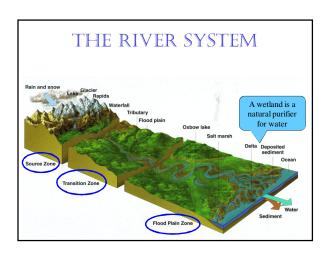
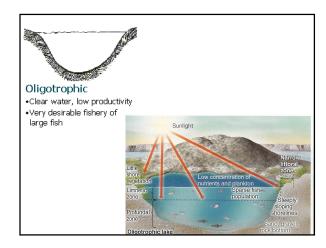
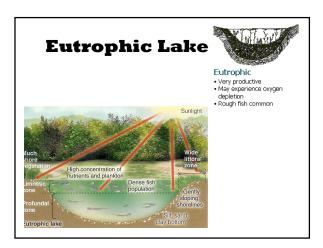
Miller Chapter 14	
Water Resources	
Will it be the new	
resource we have wars over?	
The World's water in a 1 Liter flask	
■ 97.5% ocean ■ How much fresh water?	
■ 19 ml ■ How much in aquifers?	
■ 5 ml about 50% is available to use ■ How much in lakes, rivers, and streams?	
■4 drops ■ How much in soil moisture?	
■ 2 drops ■ In the atmosphere?	
■ exhale	
Facts about the distribution of Water	
<b>97.4%</b> is in the ocean, it is too saline to	
drink or use for irrigation. What about desalination?	

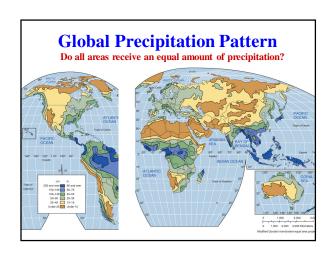


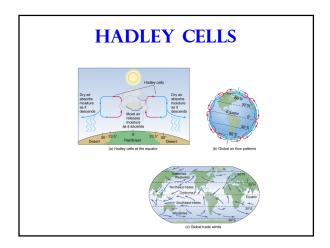


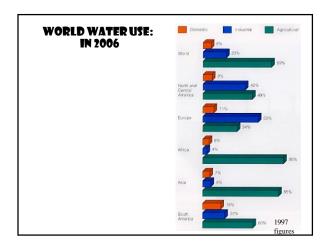


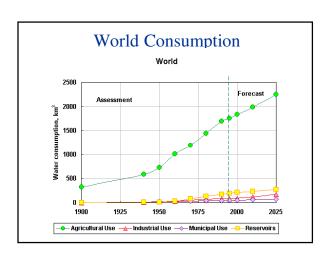






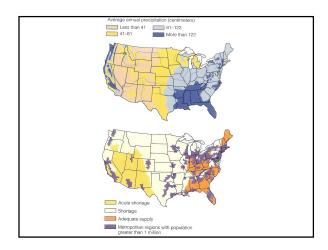


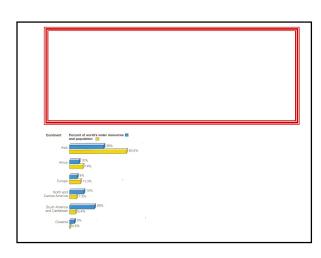


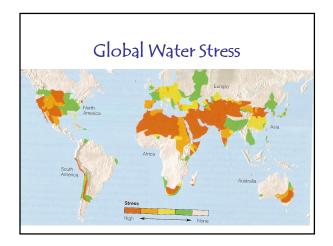


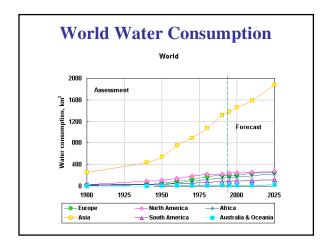
#### Indoor domestic use in U.S.

- ➤ Flushing toilets 38%
- ➤ Bathing 31%
- Laundry and dishes 20%
- ➤ Drinking and cooking 6%
- ► Brushing teeth and shaving 5%







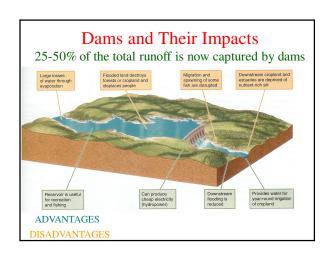


# HOW HAVE WE AFFECTED THE WATER CYCLE

## How do we capture, control, and protect the water that we have?

- Channelizationcontrol flow, what are the biological impacts of this method?
- ▶ Reservoirs & Dams- capture the rain water- how does it effect the earth's rotation and gravitational water.
- Transferring water- aqueducts





## Wild and Scenic Rivers

## Aqueducts The State Water Project

- Majority of people do not live in areas supplied by local water sources
- Availability of water determines how many homes can be built.
- The State water project opened up southern California for major expansion



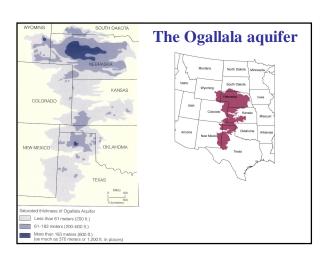
### What causes freshwater shortages?

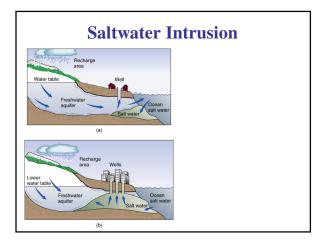
- Drought
- Too many people living in a dry climate
- Largest rivers are far from agricultural and population centers
- Overdrawing water from aquifers before they can recharge, causes.....

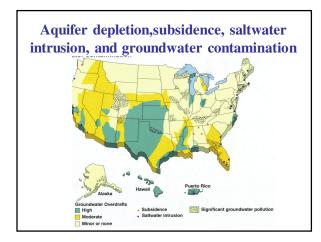
#### Tapping into the Groundwater

- Aquifers provide almost one-fourth of the world's water.
- How is habitat alteration affecting the recharge areas?
- Six states depend upon groundwater for 90% of their supply!

# Groundwater Overdrafts Groundwater Overdrafts: Groundwater Overdrafts: High Moderate Minor or none







#### Ideas to deal with water shortage?

- **■** Conservation
- Cloud seeding- Silver iodide is dispensed into clouds, creates nuclei carries moisture to surface. Common in Thailand, Philippines, Israel, and Santa Barbara County.
- **■** Towing icebergs
- **■** Capturing storm water
- **■** Water recycling; toilet to tap