Water Use & Management

- Global water use
- Residential Water Use
- Industrial Water Use
- Agricultural Water Use
- Water Management Projects
- Water Conservation loss of resource increase of cost
- Future Solutions

Global water use

- depends on
 - supply
 - population
 - economic conditions
 - agriculture highest for all of world except europe highest in industry

Residential Water Use

- uses in home
 - drinking, cooking, washing, flushing
 - watering grass, washing the car
 - USA=avg person uses 300 liters/day vs. India 41 liters/day
- Water Treatment
 - potable safe to drink
 - pathogens organisms that cause illness
 - water must be treated
 - physical and chemical filtration
 - chemical filtration w/ air, chlorine & fluorine

Industrial Water Use

- manufacture goods
 - make paper
 - 1000 liters required to produce 1kg of aluminum
- dispose of waste
- power plants
 - hydroelectric
 - cooling systems

Agricultural Water Use

- 67% of world water use
 - i.e. 300 liters to make one ear of corn
- Irrigation way of providing water to plants
 - sprinklers water is lost to evaporation
 - flooding from rivers

Water Management Projects

- water diversion
- dams and reserviors
- Consider...
- Environmental Impact
- Political Consequence

Water Conservation - loss of resource - increase of cost irrigation drip systems industry recycle water instead of dumping back into river at home water use habits list some examples technologies list some examples

Future Solutions desalination transport of water ships pipeline towing ice?