

Sustainable Water

November 28 & 29, 2012



Why Is Water Important?

Life is not possible without water!

Water is in every living thing.

Our body is nearly 65% water.

An ear of corn is nearly 70% water, a potato is about 80%, and a tomato is about 95%.

In order for living things to carry out life processes, we must keep our water supply clean and healthy. We can live without food for two months, but we cannot live without water for more than a week.

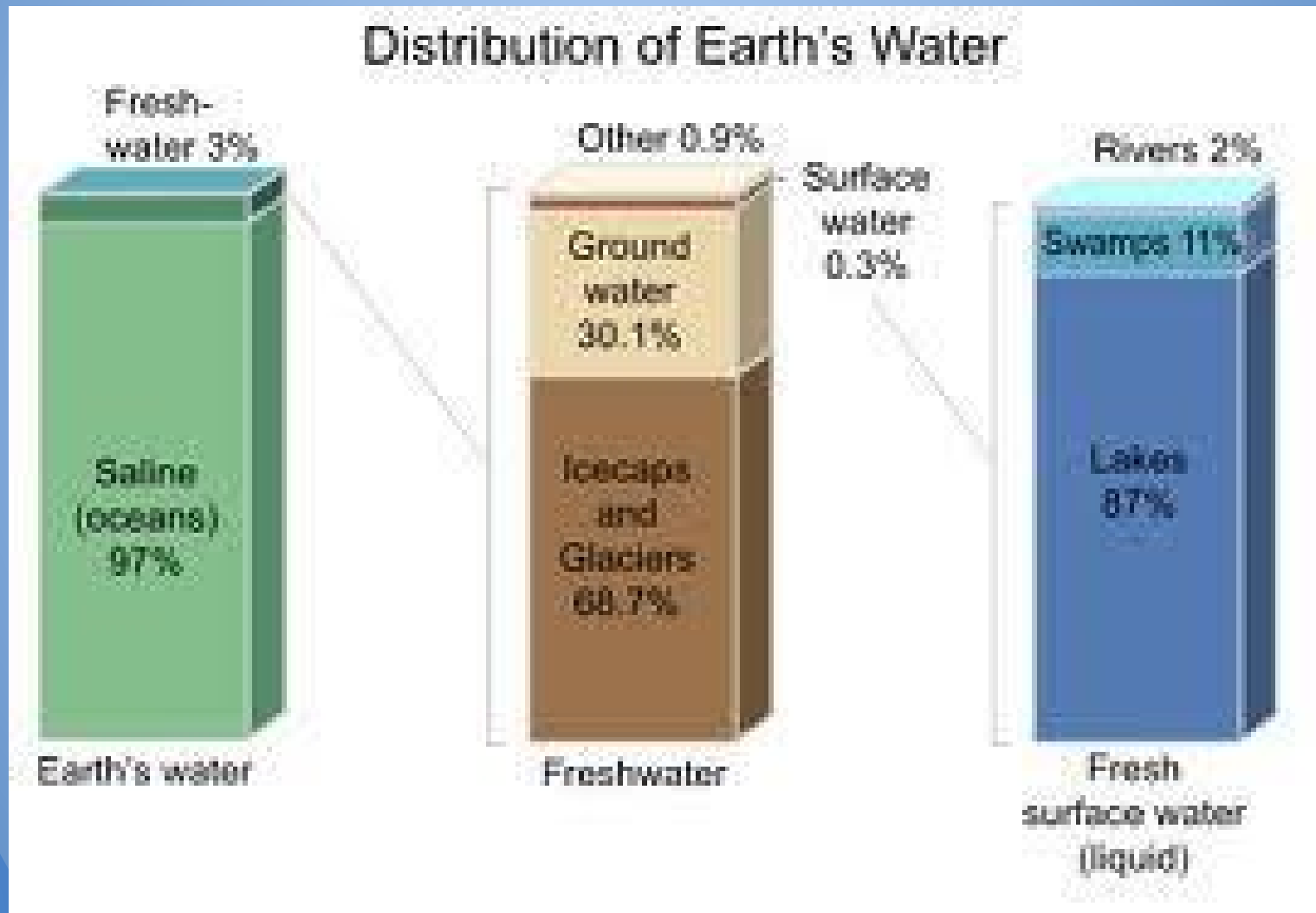


What do we use it for?

Drinking
Agriculture
Washing
Transportation
Recreation
Hydroelectricity
Industrial uses
Food Processing
Scientific/Chemical uses



How Much Do We Have?



Let's look at the numbers!

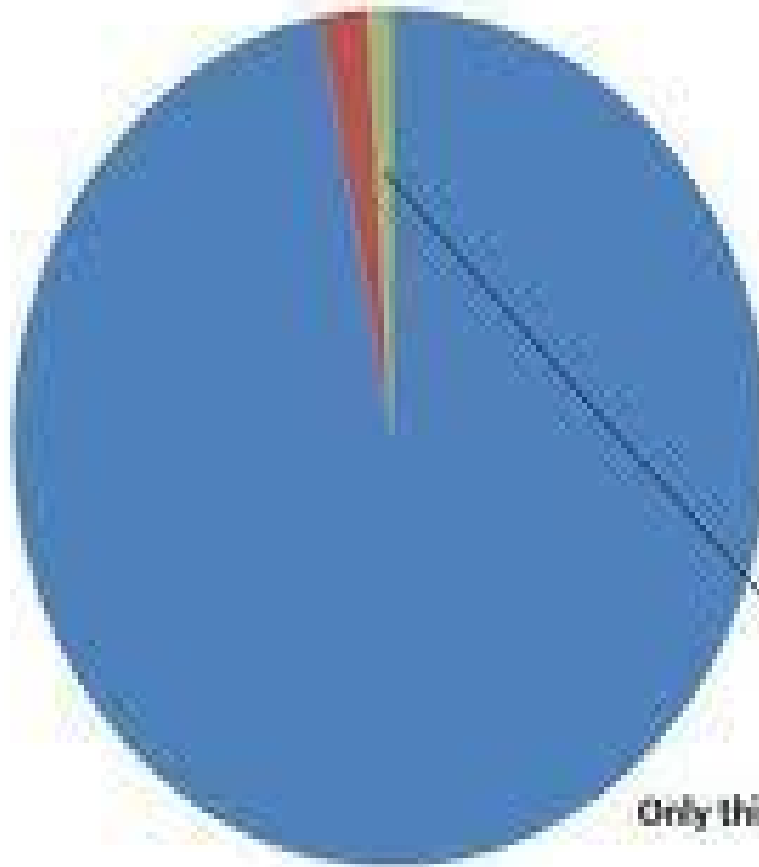
70% of the earth is water

97% is in the oceans

The fresh water available for us to use is about 3% of the earth's water supply.

Three-fourths of the fresh water is unavailable because it is in icecaps and other glaciers.

Water distribution on Earth



■ Saline water - about 97 %

■ Freshwater in glaciers and polar ice caps - about 2 %

■ Freshwater in ground, rivers and lakes - about 1 %

Only this much water is consumable by organism

More Numbers...

Americans use more than 400 billion gallons of water in one day, more than our total oil consumption in one year!

Every day 5,000 children die from diseases associated with inadequate water supply, sanitation and hygiene. All of which are preventable



**DO WE HAVE
ENOUGH?**

Yes, we do!

**But... We need to use
it more wisely!**

Sustainable Water

Sustainability means providing an **adequate** and **reliable** water supply of **desired quality** – now and for future generations – in a manner that integrates economic growth, environmental protection and social development.





What Can We
Do?

Blue Gold: World Water Wars

- How are humans affecting the Hydrological System, and contributing to the depletion of fresh water? List 4 things.
- What can we do to change what is happening to our fresh water supply?
- If this continues, what do you think will

Desalination

PROS:

- Creates clean water
- Better for the earth than pipelines and dams

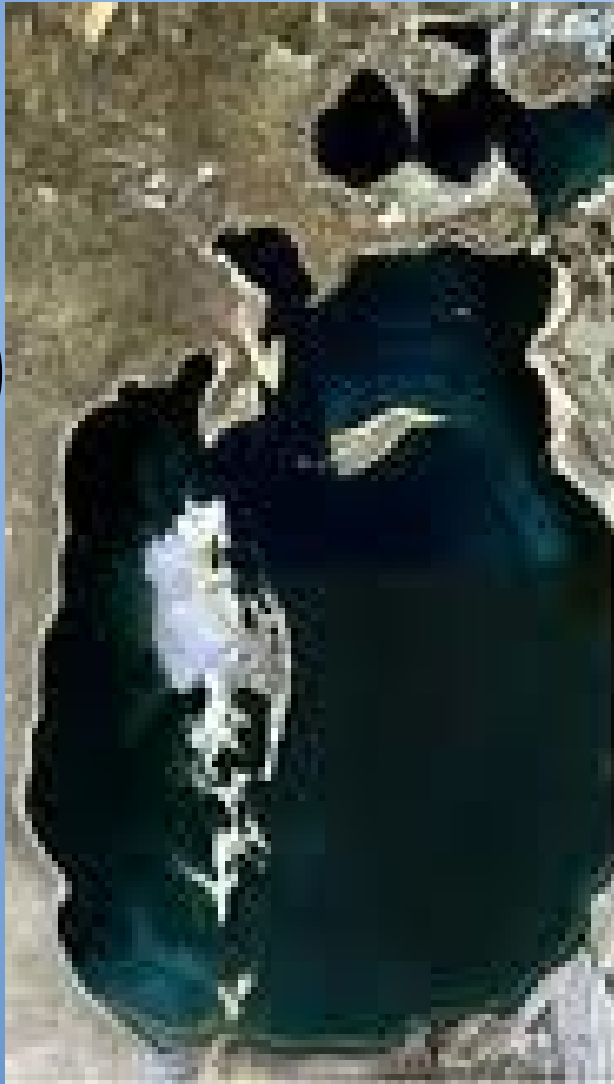
CONS:

- Energy
- Pollution
- Money
- Location
- Hurts marine life

**Is pumping and
transporting
water a good or
bad thing?**

Aral Sea

1989



2008



- 1. What are humans doing to affect the hydrological system, and how is it affecting the depletion of the freshwater supply? List 4 things.
- 2. What can we do to change what is happening to our water supply?
- 3. If we continue to use the water the way we are currently, what do you think will happen?

Research!

- Now research water in your MUN country. Write a one-paragraph solution on how your MUN country could solve some of the water problems that exist