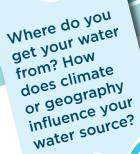
HOW DO PEOPLE AROUND THE WORLD

GET WATER?



Geography and climate play a huge role in how and where people access water. While there are many different ways to get it, not all provide the same quality of water. Surface water, or water that collects on top of the ground (like lakes and rivers), is more likely to be contaminated than ground water (like wells and aquifers), which has a chance to filter through layers of earth to become clean. Even ground water sources can be contaminated if they are too shallow, or are not filtered or treated correctly. In some places, people have to walk several miles to the nearest water source and carry water back to where they live.



Country

Cambodiaiii

India

Honduras

Pakistan

Nigeria



Number

access

to safe

wateri

million

million

800.000

16

57

million^v

millioniv

3.8

Water resources

to drink

Cambodia has plenty of

available groundwater;

the problem is that not

much of it is safe enough

India has about 4 percent

among the top ten water-

scarce region" due to rapid

urbanization, and unsafe

Rural communities face

the most challenges, as

many people obtain their

water from small springs

contaminated and often

without water during the

The geography of Pakistan

(arid deserts and remote

mountain regions) makes

difficult for the poorest

accessing safe water every

Niger has over two billion

cubic meters of drinkable

desert. The problem is, few

can afford to build systems to bring it to the surface.

water available under a

that are unprotected,

dry season

people.

of world's freshwater

resources, ranking it

rich countries. Despite

this, India is a "water

hygiene practices.

obstacle to the people of developing nations.

Populationⁱ

15 14

million

2.002.33

44,911.81

173 6

million

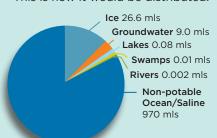
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1.311.050.53 77

To many of us in the United States, potable (safe to drink) water may seem so ubiquitous that it is hard to comprehend that it is actually one of our most precious resources. Water is essential for our survival—it exists around us, even inside of us in large quantities. We work with, play in and consume water constantly. And yet, the amount of potable water in our world is actually minuscule. It is even speculated that past civilizations became extinct without sufficient water access (Kolbert, 2009). Despite 70 percent of our planet being covered by water-only 2.5 percent of this water is fresh, and even less of it (around 1 percent) is accessible for drinking. Some estimates project that by 2050, "a third of people on earth may lack a clean, secure source of water" (Freshwater Crisis, 2017).

"If all the water in the world were 1000 mls"

This is how it would be distributed:



Even though the amount of water on earth remains same, the way that it is distributed around globe is increasingly imbalanced. Water scarcity is exacerbated by global shifts in weather patterns due to climate change. In the United States we are lucky that our infrastructure provides the large majority of our population with sustainable access to drinking water1 yet we are not immune to the impacts of climate change or other sustainability problems in growing urban populations. The frequency of water safety-related incidents in the U.S. has increased in recent years.2

In the Pacific Northwest, a large portion of water comes from snowfall and melts into rivers and streams. This water is monitored by scientists, who take samples year-round to make sure that the water remains clean and safe for drinking¹.

In the Northeast/Mid Atlantic, a large portion of our water comes from rivers and aguifers. Annual precipitation, as well as the frequency and intensity of heavy precipitation events, has increased.

In the Midwest. The Ogallala aguifer underlies parts of eight different states acting like "a giant underground sponge made of a jumble of gravel, silt, sand and clay." Extended droughts in recent years have resulted over-pumping of the aquifer, and many fear that it will eventually become depleted^{2, 3}.

In the West/Southwest people depend on rivers, with 74 percent of the people living in the greater Los Angeles and San Diego areas being served by aqueducts and dams transporting and storing Colorado river water.

http://www.seattle.gov/util/myservices/water/water_quality/ 2 http://www.nationalgeographic.com/magazine/2016/08/vanish ing-midwest-ogallala-aquifer-drought/

http://www.nationalgeographic.com/magazine/2016/08/vanish ing-aquifer-interactive-map/









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