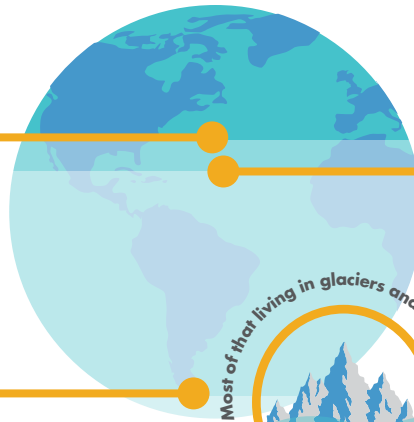




WATER AVAILABILITY



70%
of our Planet
is water



97.5%

of that water on our
planet, is salt water



Most of that living in glaciers and groundwater.



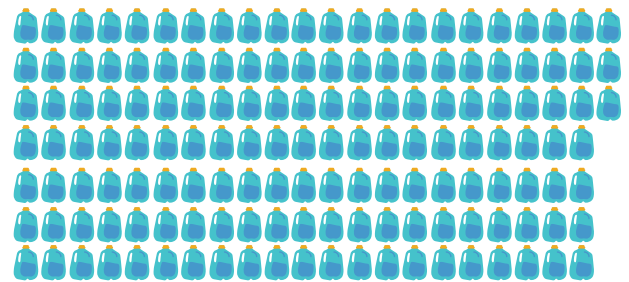
2.5%

is fresh water
available for
consumption



5 GALLONS

per person, per day,
is needed to survive.



150 GALLONS

of water is used by the
average American daily.



Across the world there are many countries that lack access to clean water. Up to **70%** of people in these communities are living without the **5 gallons** of water (per day) that we need to survive.



663 million people on our planet still lack access to safe, clean drinking water.



Imagine having only **5 gallons** for everything we use water for in one single day. We shower, cook, clean, drink, wash our hands, and flush the toilet.

WATERBORNE DISEASE

TYPHOID FEVER

Contracted through drinking contaminated water, specifically containing the feces of an infected person or animal.

Symptoms: Fever, Headache, Abdominal and Intestinal Pain, leads to dehydration, Diarrhea.

E. COLI

Contracted through drinking contaminated water, more specifically containing fecal coliform.

Symptoms: Fever, Headache.

SCHISTOSOMIASIS

Contracted through direct contact with water contaminated with parasitic worms.

Symptoms: Bleeding when urinating, Diarrhea, Abdominal Pain.

GUINEA WORM

Contracted through drinking contaminated water containing a parasitic worm.

Symptoms: Blistering of the skin once the worm has reached maturity, typically on the lower limb.

RIVER BLINDNESS

Contracted through the bite of a blackfly that breeds in fast flowing streams.

Symptoms: Itching and rashes around the eyes with eye lesions at times.

CHOLERA

Contracted through ingestion of contaminated water.

Symptoms: Diarrhea and Dehydration.

HEPATITIS A

Contracted through drinking contaminated water.

Symptoms: Loss of Appetite, Jaundice, Nausea.

DIARRHEA

Contracted through drinking contaminated water

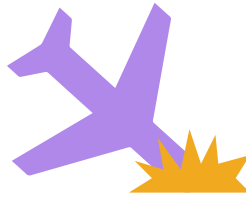
Symptoms: Passage of 3 or more liquid or loose stools per day.



Waterborne Disease kills more children every year than AIDS, Malaria, and all world violence combined.



88% of all disease in the world is caused by a lack of access to safe, clean water.



The water crisis is the equivalent of a jumbo jet crashing every hour and a half on end non-stop 365 days a year.

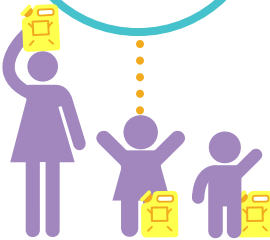


4,100 Children will die today from drinking contaminated water.

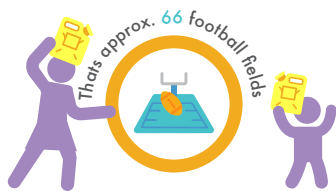
WALKING FOR WATER

This is a **JERRY CAN**
it's used in in
developing countries
to transport water.

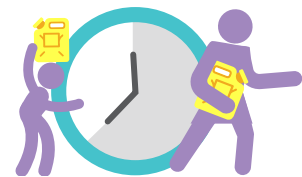
A full jerry can is
5 GALLONS
of water and weighs
44LBS.



Women and children, typically between the ages of **8-13**, are the ones tasked with transporting water.



The average distance walked by women and children to fetch water is **3.75 miles**.



It takes on average of **6-8 hours** per day for women and children to fetch water.



Children can't go to school to improve their education and women can't get jobs to provide for their families.



Walking for water is very physically demanding. Women who are pregnant can even have **spontaneous miscarriages** as a result of collecting and carrying water.



Children can develop **spinal and pelvic deformities**, from carrying water on their heads.



THE SOLUTION: A DEEP BOREHOLE WELL

In the areas we work, there is a sufficient amount of groundwater for communities in need. Groundwater, compared to surface water sources (rivers, streams, lakes, and ponds) is naturally protected from the parasites and bacteria that often times contaminate open and unprotected water sources. Due to the quantity and quality of groundwater, building a deep-borehole well is the best sustainable solution for the majority of developing communities we work in.



Clean Water changes everything! Once a well is built in a community...



Economics:

Women can get jobs and financially provide for their families, they don't spend hours a day walking to their nearest water source.



Education:

Kids can go to school and get an education when they don't have to walk 3-4 miles a day to fetch water for their families.



Food Security:

Food security is attainable. It is impossible to achieve food security without water security.



Health and Sanitation:

Health and Sanitation levels increase. If everyone in the world had clean water, we could cut global disease by 80%.



Disease rates can drop upwards of 88% overnight.



Child mortality rates drop upwards of 90% overnight.



Sanitation:

Every time Thirst Project builds a well, we make sure that each community we build in has pit latrines for proper sanitation and safe waste disposal in order to eliminate open defecation practices. This can reduce water related deaths by up to 37.5%.



Hygiene:

Every community we work in gets trained on proper hand washing techniques to stop the spread of waterborne diseases. Our hygiene workers' teachings can reduce water-related deaths by up to 35%.



Water:

Clean, safe water can reduce water related deaths by up to 21%.



W.A.S.H. Programs:

Every freshwater well constructed is considered a W.A.S.H. Program (Water, Sanitation and Hygiene).