Ninth Annual Iowa Hunger Summit

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Health and Global Change

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Health and (Global) Climate Change

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What would life be like without coffee?

Most consumed coffee species, Arabica, could be extinct in the wild by 2080.
“Climate change is the biggest global health threat of the 21st century.”

See The Lancet Commissions page 1593
Sculpture by Issac Cordal in Berlin

"Politicians discussing global warming"  Source Sierra Club
Impact of Climate Change on Human Health

- Heat-related illness and death, cardiovascular failure
- Injuries, fatalities, mental health impacts
- Asthma, cardiovascular disease
- Malaria, dengue, encephalitis, hantavirus, Rift Valley fever, Lyme disease, chikungunya, West Nile virus
- Respiratory allergies, asthma
- Forcéd migration, civil conflict, mental health impacts
- Extreme heat
- Air pollution
- Changes in vector ecology
- Increasing allergens
- Increasing CO2 levels
- Rising sea levels
- Rising temperatures
- Severe weather
- Extreme weather
- Environmental degradation
- Water and food supply impacts
- Water quality impacts
- Malnutrition, diarrheal disease
- Cholera, cryptosporidiosis, campylobacter, leptospirosis, harmful algal blooms

CDC Climate and Health Program
Water Quality Impacts

Water and Food Supply Impacts
MOST VULNERABLE AT MOST RISK
It would take 3 billion gallons of water per day to support 6 billion people.

Which is the equivalent of the amount of water used to irrigate the world’s golf courses.

http://www.un.org/
Agriculture is the largest user of water, accounting for **70%** of total water use.

By 2050, agriculture will need to produce 60% more food globally and 100% more in developing countries to feed the world.
Climage change negatively impacts freshwater sources.

780 million people — 11% of the world — do not have access to an adequate water source.
The average American uses 176 gallons of water per day. The average African family uses 5 gallons a day.

http://www.lboro.ac.uk
Did you know that the AVERAGE AMERICAN uses 2,000 gallons of water a day?

50%

OUR DIETS

- 634 gallons to make one burger
- 37 gallons for one cup of coffee
The U.S. footprint is 2X THE GLOBAL AVERAGE.
Over 40 billion work hours are lost in Africa each year-fetch water

African Women walk an average of 3.7 miles to collect water each day and carry 44 pounds of water home on their heads.

http://www.lboro.ac.uk
Diarrhea related to unsanitary water has killed more children than all people lost in battle in World War II.

2,200 children die every day as a result of diarrheal diseases. This amounts to 11% of the 7.6 million deaths of children under the age of five.