

Water and Climate Change



Rahaf Elkadiki 1869
 Amena Hammuda 2022
 Faraj Suliman 2127
 Nesma Alasbah 1874
 Khadija Attia 2713
 Esraa Elkasseh 2262

Fatima Elnahwi 2070
 Mohammed wanes 2117
 Murad Walid 2131
 Safa anwr 2120
 Faiza Khalil 2077
 Khadeja Mohammed 2261

Tareq Elferjani 1753

2021-2022

What Is Climate change?

- ✓ During the Earth's history, the climate has changed many times and has included ice ages and periods of warmth.
- ✓ Before the Industrial Revolution, natural factors such as volcanic eruptions, changes in the Earth's orbit, and the amount of energy released from the sun were the primary factors affecting the Earth's climate.
- ✓ Climate change is already affecting water access for people around the world, causing more severe droughts and floods.
- ✓ Increasing global temperatures are one of the main contributors to this problem.
- ✓ It causes water to evaporate in larger amounts, which will lead to higher levels of atmospheric water vapor and more frequent, heavy, and intense rains in the coming years.

What is Causes and Effects of Climate Change?

☐ Causes

- Rapid industrialization
- Energy use
- Livestock
- Deforestation
- Transport
- Resource extraction
- Pollution

☐ Effects

- Rising temperatures
- Rising sea levels
- Unpredictable weather patterns
- Increase in extreme weather events
- Land degradation
- Loss of wildlife and biodiversity

☐ What are the social impacts of climate change?

- Displaced people.
- Poverty.
- Loss of livelihood.
- Hunger.
- Malnutrition.
- Increased risk of disease.
- Global food and water shortage.



Management of water resources with climate changes

- Implement water use efficiency.
- Use climate-smart water management tools.
- Prioritize multi-beneficial approaches.
- Integrated regional water management.
- Factor in energy use.
- Water system reoperation.
- Factor climate change into feasibility analyses and project design.
- Incorporate the need for flood management.



Is it too late to prevent climate change?

- ✓ The effects of human activities on Earth's climate are irreversible on the timescale of humans alive today, every little bit of avoided future temperature increases results in less warming that would otherwise persist for essentially forever.
- ✓ Without major action to reduce emissions, global temperature is on track to rise by 2.5 °C to 4.5 °C by 2100.
- ✓ But it may not be too late to avoid or limit some of the worst effects of climate change, will involve a two approach:
 - ✓ Mitigation: reducing the flow of greenhouse gases into the atmosphere
 - ✓ Adaptation: learning to live with, and adapt to, the climate change that has already been set in motion.



Water in Climate Change

9,700

Liters in 2020

8,030

Liters in 2019



6,800

Liters in 2018

7,568

Liters in 2017

Expenditures in the World Economy

