

How do GreenHouse gases affect people in different regions across the globe?

Reason: people only talk about how global warming would affect Canada, the USA, and other well-known countries. We must realize that countries like Mali or Taiwan will also be affected. For example: Who knew that Sao Tome And Principe would get flooded by sea level rise?

What is a GreenHouse gas?

Greenhouse Gases are gasses that raise the surface temperature across the world

How much?

In Canada, more than 500 million metric tons of greenhouse gasses are produced every year

How are they produced?

When combustion of fossil fuels such as coal, oil, and natural gas they produced

How long has greenhouse gas been produced?

A surprising 800,000 years!

<https://www.climaterealityproject.org/blog/how-climate-crisis-impacting-south-korea#:~:text=Flooding,2010%2C%E2%80%9D%20the%20IEA%20writes>. This is the site that I couldn't put of cyst

What is Global warming?

It is when Earth starts warming up

Why are these important?

Several countries have different effects but it's important to realize that Greenhouse gasses could kill lives

What are the possible consequences, impact

Floods, Droughts, extreme rain, melting of glaciers, melting of icebergs, etc. They all could kill people and make them lose their lives

Questions I be answering

How do GreenHouse gases affect people's body temperature in different regions across the globe?

North America

North America has 23 countries. I will be reviewing the 3 regions

1. Canada
2. USA
3. Mexico
4. Guatemala
5. Belize
6. Nicaragua
7. El Salvador
8. Costa Rica
9. Panama
10. Honduras
11. Bahamas
12. Cuba
13. Dominican Republic
14. Jamaica
15. Haiti
16. Barbados
17. Dominica
18. St Lucia

19. **St Kitts And Nevis**
20. **Antigua And Barbud**
21. **St Vincent and The Grenadines**
22. **Trinidad and Tobago**
23. **Grenada**

Legend

Yellow= Northern America (Mexico, USA, and Canada)

Blue= Caribbean

Green= Central America

South America (they only have 1 region)

Brazil

Argentina

Chile

Ecuador

Bolivia

Uruguay

Paraguay

Venezuela

Peru

Colombia

Suriname

Guyana

Africa

1. **Egypt**
2. **Libya**
3. **Algeria**
4. **Tunisia**
5. **Morocco**
6. **Sudan**
7. **Burkina Faso**
8. **Benin**
9. **Togo**
10. **Ghana**
11. **Ivory Coast**
12. **Liberia**
13. **Sierra Leone**
14. **Guinea**
15. **Guinea Bissau**

16. Senegal
17. Mauritania
18. Mali
19. Niger
20. Nigeria
21. Gambia
22. Cape Verde
23. Chad
24. Central African Republic or (C.A.R
25. Cameroon
26. Equatorial Guinea
27. Sao Tome And Principe
28. Gabon
29. Democratic Republic of Congo
30. Republic Of Congo
31. Angola
32. Eritrea
33. Ethiopia
34. Somalia
35. Uganda
36. Kenya
37. Rwanda
38. Burundi
39. Tanzania
40. Mozambique
41. Madagascar
42. Comoros
43. Djibouti
44. Seychelles
45. South Sudan
46. Zimbabwe
47. Zambia
48. Malawi
49. Namibia
50. Botswana
51. South Africa

- 52. Eswatini
- 53. Lesotho

Europe (they have 4 regions)

- 1. Iceland
- 2. Norway
- 3. Sweden
- 4. Uk
- 5. Ireland
- 6. Finland
- 7. Denmark
- 8. Estonia
- 9. Lithuania
- 10. Latvia
- 11. Austria
- 12. Belgium
- 13. France
- 14. Germany
- 15. Liechtenstein
- 16. Luxembourg
- 17. Monaco
- 18. Netherland
- 19. Switzerland
- 20. Belarus
- 21. Czech republic
- 22. Hungary
- 23. Moldova
- 24. Poland
- 25. Slovakia
- 26. Ukraine
- 27. West Russia
- 28. Andorra
- 29. Italy
- 30. Malta

31. Portugal
32. San Marino
33. Spain
34. Vatican City
35. Slovenia
36. Croatia
37. Bosnia and Herzegovina
38. Albania
39. Montenegro
40. North Macedonia
41. Greece
42. Serbia
43. Kosovo
44. Romania
45. Bulgaria
46. Turkey
47. Cyprus

Asia (They have 6 regions)

Northern Asia Yellow

Western Asia=Red

Eastern Asia= Purple

Southern Asia= Blue

Central Asia=Green

South East Asia Light Blue

1. Russia
2. Georgia
3. Azerbaijan
4. Armenia
5. Turkey
6. Syria
7. Lebanon
8. Israel
9. PALESTINE
10. Jordan
11. Iraq
12. Oman
13. Yemen
14. Kuwait
15. Bahrain
16. Qatar
17. Saudi Arabia
18. China
19. Mongolia
20. North Korea

21. South Korea
22. Japan
23. Taiwan
24. Sri Lanka
25. Maldives
26. Pakistan ZINDABAD
27. India
28. Afghanistan
29. Bhutan
30. Nepal
31. Bangladesh
32. Iran
33. Tajikistan
34. Uzbekistan
35. Turkmenistan
36. Kazakhstan
37. Kyrgyzstan
38. Brunei
39. Cambodia
40. Indonesia
41. Laos
42. Malaysia
43. Myanmar
44. Philippines
45. Singapore
46. Thailand
47. Timor Leste
48. Vietnam

Oceania (They have 1 region)

1. **Australia**
2. **New Zealand**
3. **Vanuatu**
4. **Micronesia**
5. **Fiji**
6. **Tuvalu**
7. **Papua New Guinea**
8. **Solomon Islands**
9. **Palau**
10. **Kiribati**
11. **Marshall Islands**
12. **Nauru**
13. **Samoa**
14. **Tonga**

Northern Africa- Yellow

Western Africa- Purple

Middle Africa- Green

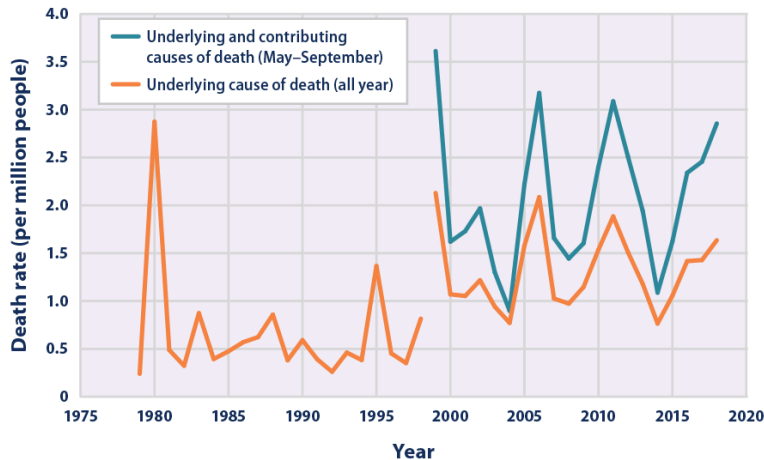
Eastern Africa- Red
Southern Africa- Blue

FIRST REGION!! Northern America

How do GreenHouse gases affect people in Northern America?

In the USA extreme heat causes more deaths than other extreme disasters. The yearly deaths caused by heat is 1300+ in the United States of America. The July 1995 heat wave in Chicago caused 700 lives to pass away. About 65,0080 heat-related issues are seen in emergency rooms in the summer in the USA. In Canada, it has increased by 1*c since 1880. In

Northern Canada, the temperature has increased by 2.3*c between 1948 and 2016!!!



This is a picture of the causes of death in the USA

2.

How do GreenHouse gases affect people in the Caribbean?

The majority of problems caused by greenhouse gasses in the US Virgin Islands are related to water. Climate change impacts water because now in the Caribbean, the average temperature is rising and could go to 35c+. Also now a decrease in precipitation, more often floods and droughts and also more intense weather. The leaders of Trinidad and Tobago believe that oil and gas production is a vital thing for the country but, Imtiaz Khan said that the rains of his childhood were peaceful and light. Mr. Khan said that the rains are more regular and there is serious flooding every year. Also said by Mr. Khan is that Clams, Oysters and many species of fish are in decline. " Fish go where there is more food and where they can reproduce," Mr. Khan said. " That's not here anymore"

3.

How do GreenHouse gases affect people in Central America?

The biggest weather threats to Costa Rica are tropical and subtropical weather storms. Somehow an extreme hurricane has never hit Costa Rican territory. When climate change does happen, El Nino is going to be common in Costa Rica. While Panama only produces 0.045 of greenhouse gas emissions (Good job Panama!). Climate has increased the chances of extreme weather events like storms, floods, and droughts. For Panama, this is bad because now it will affect the lives of the poorest people of Panama and Central America.

4. How do Greenhouse gasses affect people in South America

In South America, more than 99% of our world's tropical glaciers and 71% percent of the glaciers are in Peru! These glaciers are crucial to Peru's water supply. The glaciers slowly release water into rivers which provide drinking water, water for agriculture, and hydroelectricity. Studies also show that, since 1970, Peru's glaciers have lost a third of their surface area. Now it's unavoidable that glaciers that are melting will affect the lives of the water-poor country because even MORE water supplies are going to be taken away from the people.

5

How do Greenhouse gases affect people in North Africa?

Climate change affects North Africa because Libya's floods have a really big thing to do with climate change. It's not normal for Libya to have such heavy rain which could be because of climate change. The annual temperature in Morocco has increased in Morocco. One problem with this is the heat waves, Morocco is already a hot country but climate change will make Morocco way hotter.

6.

How do greenhouse gases affect people in West Africa?

In West Africa, greenhouse gases are already affecting people's agriculture and coastal economic activities. The World Bank has identified rising sea levels which could flood entire CITIES. Also, coastal erosion is way worse because cities could just be cut off from land and sink!!! In 1962 Cabo Verde produced the least CO2 emission per capita with only 0.1t!!! Comparing it to 2011 each was 1.2t.

7.

How do greenhouse gasses affect people in Middle Africa?

Middle Africa affects people because people already are using way too much water in middle Africa so climate change could change lives. Also, it makes it way worse because Middle Africa is already growing in population, so water is going to be a big resource needed. In middle Africa, there is a special country!!! Sao Tome and Principe, are the islands underneath Nigeria and Benin. The problem with Sao Tome and Principe is that it will SINK because of climate change. So approximately 223,000 people could die. Sao Tome and Principe is a country to take a lot of care of!

8.

How do Greenhouse gases affect people in East Africa?

In East Africa, Greenhouse gasses could potentially affect people by the increase and intensity in precipitation. This could affect water availability and will lead to less agriculture, which is not good considering that the GDP per capita of Kenya (the country with the biggest economy in East Africa) is only 2081 USD which is

327632.64 Kenyan Shilling! Well in East Africa there are many island countries so let's see how Greenhouse gases affect them. In Madagascar (NOT THE MOVIE) it will affect because less rain means dryer soils which will affect animals and humans!!!

9. How do Greenhouse gases affect people in Southern Africa?

In South Africa, it has become a BIG problem and now it can not be ignored. The annual temperature has doubled (0.7c)! Hot and cold extremes have increased. Now, rainfall is getting intense and it will affect everyone. Rainfall has also changed in seasonality!!! Heat waves come more and South Africa is already hot! The biggest problem is crops, now fewer crops are getting farmed which could affect the diet of people in Southern Africa. Since 1980 there have been 86! weather-related disasters in South Africa which have affected 22 million people, and greenhouse gasses play a big part in them.

10. How do Greenhouse gases affect people in Northern Europe

The UK's greenhouse gas emissions were at 959 million tons, in 2007 it was 39% lower than 959 million tons. This shows how greenhouse gasses have become in the UK. Greenland wasn't so green because of its Ice and snow but, since greenhouse gasses are a thing the Ice is melting. Did you know? That the Arctic is getting warmer way faster because of climate change?

11. How do greenhouse gases affect people in Western Europe?

Greenhouse gases affect the Dutch because now the Netherlands is experiencing an increase in droughts, and when it rains it is severe. So precipitation is a bad thing

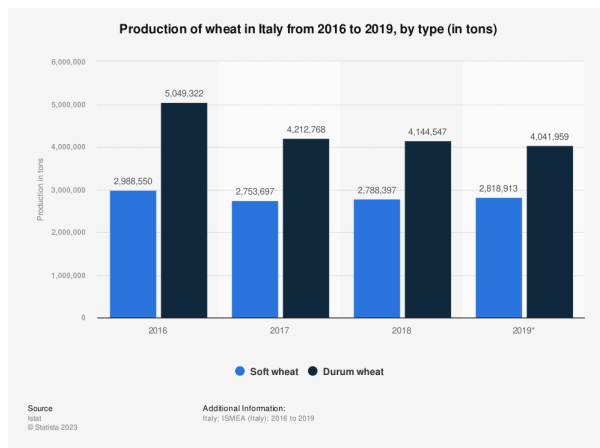
for the Netherlands but they need it! It has already affected the Netherlands with the extreme droughts of 2018 and 2019, and when the Netherlands finally got rain it caused flooding because it was so extreme.

12. How do greenhouse gasses affect people in East Europe

In Eastern Europe, it affects them with an increase in precipitation, longer winters and fewer Summers. This can be bad because Eastern Europe is already a region that receives precipitation normally.

13. How do greenhouse gasses affect people in Southern Europe

In Southern Europe, the second largest country Italy would have some problems that could impact Italy in a lot of ways. Heatwaves, droughts, fires, brutal storms, and floods. These affect Italy's people in more ways, agriculture, infrastructure, fisheries, tourism and more! I think that agriculture is an impactful problem, most people would know that Italy is famous for spaghetti, lasagna, pasta and all those foods come from wheat. Well in Spain it could affect people with higher temperatures, average sea level rise, and less water!



How many tons of durum and soft wheat were produced

14 How do greenhouse gases affect people in Southeast Europe?

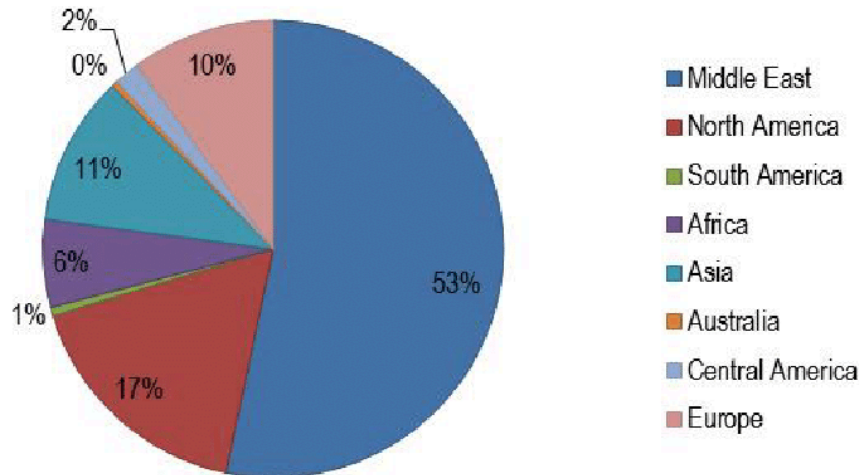
In Southeast Europe, one of the countries Bosnia and Herzegovina would have temperature increases and more extreme weather. We have seen by now the damage of these effects like heat waves and extreme rain. Albania, a country also in Southeast Europe, has already seen the impacts because over the last 2 decades (20 years) the frequency of natural disasters has increased and wildfires have also.

15. How do greenhouse gasses affect people in Northern Asia

Northern Asia has only 1 country and that is Russia. Russia will have the impact of the increase in droughts, bad precipitation, floods, and fires. This could affect the people through house damage and isolation

16. How do greenhouse gases affect people in Western Asia?

In West Asia one big effect that has already happened, they have problems with water resources which is a big problem for West Asia because West Asia is a dry region. But luckily UAE has found a solution with desalination. Which is when they take out the minerals that could affect living things. So in conclusion Western Asia isn't that vulnerable with all the solutions like using dirty water.



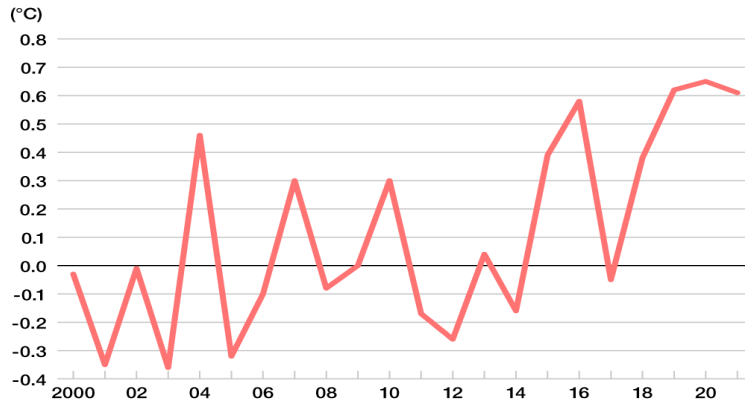
Amount of desalination

water used by regions and continents

17. How do Greenhouse gases affect people in East Asia?

Japan, an island country in East Asia already has big problems like a rise in sea level and tsunamis, now the increase in temperature with water evaporating more Japan is not a safe country. More evaporating water also means that rain is going to fall harder which could affect poorly-made buildings. The Koreas have problems with the amount of rain. If greenhouse gas emissions increase without anyone stopping, by 2071 to 2100 the average precipitation will increase by 172.5 mm!

Japan's Average Annual Temperature

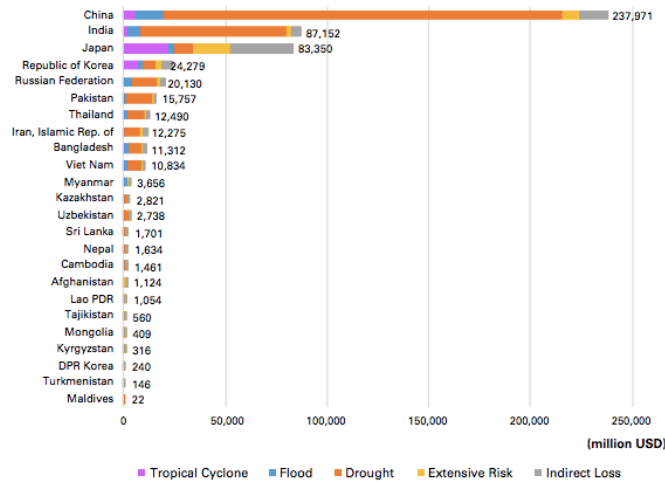


Created by Nippon.com based on statistics from the Japan Meteorological Agency.



18. How do Greenhouse gasses affect people in Southern Asia and South Eastern Asia

South and Southeastern Asia are some of the most impacted by greenhouse gasses, which include intense heatwaves, cyclones, droughts, and floods making the government make a lot of changes. It has been so bad that over the last 2 decades, half of all South Asians have been affected by the disasters.



19. How do greenhouse gasses effect people in Central Asia

In Central Asia they are having hotter days with more droughts, floods, heatwaves, and forest fires. So Europe and Central Asia are similar. This affects people because now water supply is going to be less and fires are going to be dangerous. Also heat waves can burn lots of things.

20. How do greenhouse gasses affect people in Oceania

Since Oceania is an island region, rise in sea level is a big problem mostly for countries that are third world. Oceania is one of continents to look out for a lot because people are going to be drowned if they can't get out of there sinking country.

All of these websites were used from November 30th 2023 to Feb 6th, 2024

Websites I used

<https://www.statista.com>

<https://www.epa.gov/ghgemissions/overview-greenhouse-gases>

<https://www.worldatlas.com/articles/which-countries-are-considered-to-be-part-of-northern-europe.html>

<https://www.worldatlas.com/geography/what-are-the-five-regions-of-asia.html>

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6994120/>

<https://www.epa.gov/climate-indicators/climate-change-indicators-heat-related-deaths#:~:text=Some%20statistical%20approaches%20estimate%20that,set%20shown%20in%20Fi>

<https://www.cpha.ca/climate-change-and-human-health>

<https://www.investopedia.com/articles/investing/092915/5-countries-produce-most-carbon-dioxide-co2.asp>

<https://www.statista.com/statistics>

<https://cgtc-usvi.org/climate-change>

<https://www.nytimes.com/2023/05/15/business/energy-environment/trinidad-tobago-climate-change.htm>

<https://www.remox-oceansurf-cr.com/climate-change-how-it-is-affecting-costa-rica>

<https://www.ccacoalition.org/partners/panama>

<https://climateandhealthalliance.org/resources/impacts/climate-change-and-health-in-south-america/>

<https://abcnews.go.com/International/climate-change-1-main-factors-led-catastrophic-flooding/story?id=103306663>

<https://www.iea.org/reports/climate-resilience-for-energy-transition-in-morocco>

<https://chinadialogue.net/en/climate/west-africas-climate-strategy-breaks-new-ground-but-is-vague/#:~:text=In%20West%20Africa%2C%20climate%20ch>

<https://carnegieendowment.org/2022/02/24/cascading-climate-effects-in-middle-east-and-north-africa-adapting-through-inclusive-governance-pub-86510>

https://wwfeu.awsassets.panda.org/downloads/east_africa_climate_change_impacts_final_2.pdf

<https://www.lemurconservationnetwork.org/learn/conservation-threats-and>

<https://www.ons.gov.uk/economy/environmentalaccounts/articles/climatechangeinsightsuk/august2022>

<https://scied.ucar.edu/learning-zone/climate-change-impacts/greenlands-ice-melting>

<https://klimaatadaptatienederland.nl/en/knowledge-dossiers/themes/climate-change/how-climate-netherlands-changing/#:~:text=Global%20warming%20is%20causing%20more,in%20the%20summer%20of%202021>

https://www.droughtmanagement.info/literature/ZOI_climate_change_eastern_europe_2012.pdf

<https://www.g20climaterisks.org/italy/#:~:text=Economic%20Impacts,of%20its%20GDP%20by%202050.>

<https://www.realinstitutoelcano.org/en/work-document/climate-change-in-spain-friend-and-foe-causes-consequences-and-response-wp/#:~:text=6%20References-,Summary,in%20water%20availability%2C%20among%20others.>

<https://www.climatelinks.org/countries/bosnia-and-herzegovina>

<https://www.unep.org/regions/west-asia/regional-initiatives/climate-action#:~:text=Climate%20change%20is%20a%20uniquely,resources%2C%20biodiversity%2C%20and%20health>

<https://u.ae/en/information-and-services/environment-and-energy/water-and-energy/water-#:~:text=It%20uses%20thermal%20desalination%20as,total%20production%20of%20desalinated%20water>

<https://www.nippon.com/en/japan-data/h01248/>

<https://www.worldbank.org/en/region/sar/brief/integrating-climate-and-development-in-south-asia/integrating-climate-and-development-in-south-asia-region>

<https://www.worldbank.org/en/region/eca/brief/climate-change-in-europe-and-central-asia#:~:text=The%20Europe%20and%20Central%20Asia,heat%20waves%2C%20and%20forest%20fires.>

<https://www.iyops.org/post/climate-change-effects-in-oceania#:~:text=Being%20a%20majority%20of%20coastal,low%20dying%20and%20vulnerable%20areas.>

