



Ecological Footprint

Go to <https://www.footprintnetwork.org/our-work/ecological-footprint/> and read the overview of an ecological footprint.

1. What is an ecological footprint?
2. What are the six categories of productive surface areas the Ecological Footprint tracks the use of?
3. What is biocapacity?
4. How are the ecological Footprint and biocapacity expressed?
5. What is the difference between an ecological deficit and a reserve?
6. What is ecological overshoot?
7. Today humanity uses the equivalent of _____ Earths to provide the resources we use and absorb our waste.
8. Earth Overshoot Day has moved from late September in 2000 to August 1 in 2018. Why do you think the date is getting earlier?

Go to <http://data.footprintnetwork.org/#/>

Click around, and answer the following questions about the graphic

Click on Ecological Deficit/Reserve

1. What is Ecological Deficit/Reserve (definition at bottom)?
2. What do the colors mean?

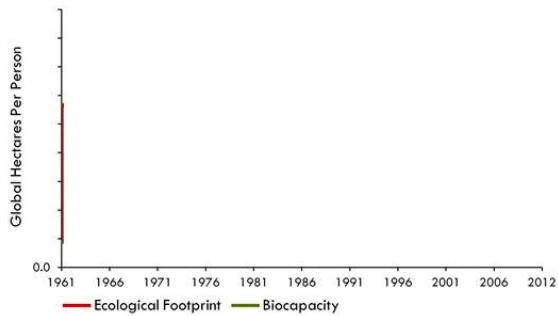


3. Do you notice a pattern in the data?
4. List three countries that have an ecological deficit:
5. List three countries that have an ecological reserve:
6. Do you notice a pattern between the countries that have a deficit vs. a reserve?

Find three countries trends and answer the following:

Find a country that is an ecological creditor:

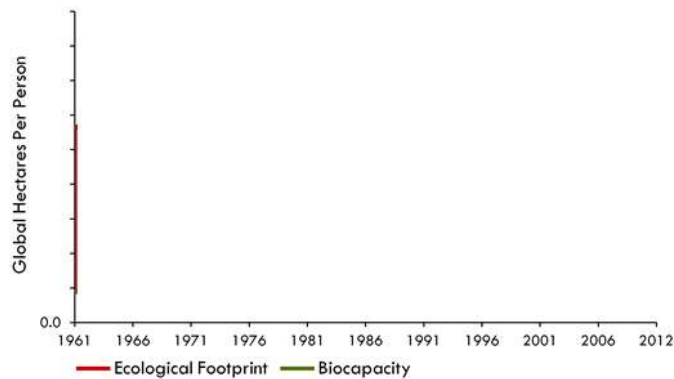
Country _____ Sketch the graph:



1. Why do you think this country is an ecological creditor?

Find a country that is an ecological debtor:

Country _____ Sketch the graph:



1. Why do you think this country is an **ecological debtor**?
2. Has the **biocapacity** changed over time? What are some ways that can happen?

Complete the ecological foot print activity and answer the questions.

<http://www.footprintnetwork.org/en/index.php/GFN/page/calculators/>

1. What is your personal Overshoot day? _____
 - a. Is it earlier or later than the Earth's overshoot day of August 1, why do you think that is?

2. If everyone lived like you, how many Earth's would we need? _____
 - a. Is that greater or less than the global number of 1.6 Earths? why do you think that is?

Click on See details

1. What is the greatest consumption by land type? _____
2. What is your greatest by consumption category? _____
3. What is your Ecological footprint? _____
 - a. Is that greater or less than the global per person foot print of 2.8 hectares? Why do you think that is?

4. What is your carbon footprint? _____
 - a. Is that greater or less than the global per person carbon emissions of 4.5 metric tons? Why do you think that is?

Go to Explore solutions; describe a solution for each of the following: click on learn more for more information

1. City

2. Energy

3. Food

4. Population

One the other side

- **On the footprint on the other side, represent the number of "Earth's" (maybe on the toes if it fits?)**
- **Illustrate your overshootday in a fun and creative way**
- **Describe and draw a picture for each of the three things you would be willing to change to reduce your ecological footprint.**
- **The entire foot must be filled with color, words and pictures.**

