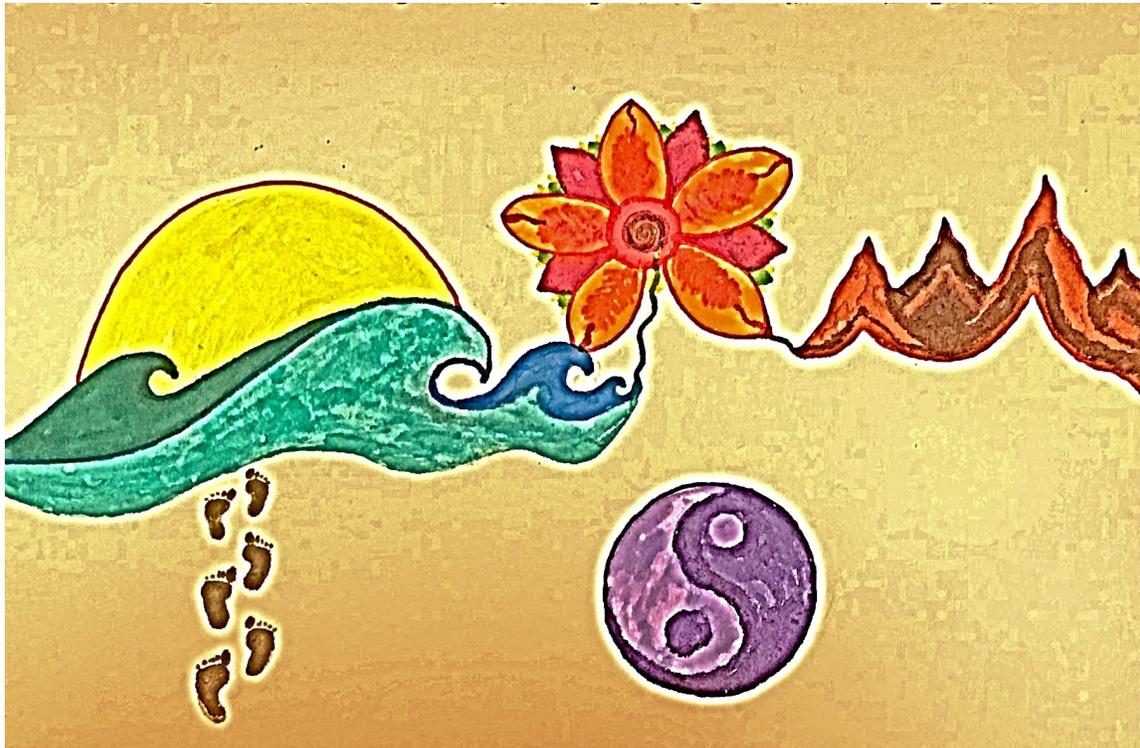


# Footprint

## Day 2-Project Green Challenge

### Team-SEEDS of Honua



Original art pieces

## Green:

### Video:

2 facts you learned-

### Sabastian

- Since 1961, 200 countries have exceeded their biocapacity
- China has the largest carbon footprint on the planet

## **Tyler**

- Today, more than 80% of people in the world live in countries that demand more than the ecosystem can sustain
- The ecological footprint measures humans demand on nature in comparison with biocapacity (the productivity of a regions ecological assets)

## **Calculate footprint:**

### **Sabastian:**

**If everyone lived like I do we would need 3 Earths**

**My ecological footprint is 5.1**

- **Food:** 0.8 (gha)
- **Shelter:** 0.5 (gha)
- **Mobility:** 2.1 (gha)
- **Goods:** (gha)
- **Services:** 0.7 (gha)

**My carbon footprint: 9.9 (CO2 emissions-in tonnes per year)**

**My carbon footprint is 66% of my total ecological footprint.**

**Three main contributors to my carbon footprint:**

- Transportation
- Food
- Commodities

**The most challenging of these to change is transportation:** Mainly because my large family has multiple activities and commitments within the community. Our main supermarket is also a considerable distance from our home.

**The easiest of these to change would be food consumption:** I feel I have more power to eat more locally sourced unprocessed food by doing such things as growing more in my garden and attending farmers' markets. One of the main challenges to this is how expensive local food can be.

**Action:** There are so many areas of life that I can change. Composting, growing my own food, recycling waste products, and conserving energy and water are but a few of many actions that I can personally take to make a positive impact on the Earth.

**Composting** is one such action that I can take to decrease my carbon footprint. By composting you are recycling waste, increasing soil health and fertility, and providing plants with the habitat needed to grow and thrive, which in turn can increase your health and food security.



**Tyler:**

**If everyone lived like me we would need 1.1 earths**

**My ecological footprint: 1.9 (gha)**

- **Food: 0.4 (gha)**

- **Shelter:** 0.5 (gha)
- **Mobility:** 0.1 (gha)
- **Goods:** 0.4 (gha)
- **Serves:** 0.5 (gha)

**My carbon footprint: 2.6 (CO2 emissions-tonnes per year)**

**My carbon footprint is 46% of my total ecological footprint**

**Three main contributors to my carbon footprint:**

- Shelter
- Food
- Commodities

**Shelter:** As a family, we draw upon green and renewable energy. We are conscious of our ecological footprint and conserve anywhere we can.

Solar is the main source of power that runs our household.

However we still source 25% of our energy from electricity, and about 5% on propane. We live in Hawaii on the island of Oahu. Temperatures rarely dip below 70 degrees or rise above 90 degrees, so our house does not need any insulation, air conditioning, or heating systems.

**Food:** Whenever fresh and local food is available and affordable, I make an effort to choose this as my nourishment. However, the reality is that the Hawaiian islands are one of the world's most isolated regions. Ninety percent of our resources are shipped in. At this time, there is a very limited supply of local food to sustain our growing population. Thus more container ships need to travel here from far away places. Creating more pollution and utilizing even more precious resources. Truly a huge environmental price is paid to be so reliant on this system of transoceanic supply.

**Commodities:** My family and I try to limit our reliance on non essential goods. However, we live, study, and work in a thriving modern town.

Daily life includes use of computers, phone, tablets, printers, internet, television and the list goes on. Our intent is to not support industries that contribute to major pollution. The reality is that this is all intertwined, and we are above average spenders and users. Ultimately supporting our societies propensity to consume and potentiate climate change.

### **Of these activities, which would be the hardest to change?**

#### **Share why-**

My place is in the natural world. I am at home in the garden amongst the plants and trees. However, to connect during these times to create and be a part of change, I need to be able to use a computer. I need to understand modern tools of communication and have the means to “log on”. Thus, I find it challenging to change my use of “goods”. Most of the goods I utilize for school and communication originate from outside sources and require technical expertise. Though these changes are more than possible, I would have to start small, such as not buying single use plastics- (Bill 40 here in Hawaii).

### **Which would be the easiest to change? Share why-**

We are all connected, thankfully I am very rooted into a beautiful network of local Oahu farms and farmers. This means that I have the privilege of eating more local foods. My goal to eat more locally grown food by way of (as Sabastain said) farmers markets, locally owned stores, growing our own food at home and within the community. One day I hope to share this bounty with the rest of Hawaii building a more sustainable and resilient future.

## **Action:**

### **I take on food waste...**

In the future I hope to grow a worm farm... Composting is a sacred cycle of nature. Besides the facts that compost will improve soil drainage and water retention and add organic matter, nutrients, and essential living organisms to the garden. By actively contributing to this natural circle of reciprocity and by blessing your soil and plants with this compost you are also fighting against climate change. Because you are improving the soil's ability to stabilize carbon and improve plant growth. In order to restore the earth to balance we need to restore the soil this starts with compost. (I love vermicomposting!!!!)



## **Greener:**



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## Effects of Covid-19 -

What a whirlwind, it's all about perspective right? My grandparents have not left their house in 7 months. I missed my little cousins growing up. Friends and family have been lost. And my aunt, who is a lung sergeant at a hospital in San Antonio, Texas has witnessed horrors beyond your darkest nightmares.

For many humans on this earth it is a very uncomfortable and unknown time. And everyday I send my prayers to all who have felt the indescribable darkness of covid-19 and social unrest. Here on the island

of Oahu, there are not as many cars on the road or visitors. There is a new silence, like the beginning of a new day.

They say that Hawaii's economy is going to collapse due to the lack of tourism and financial support that comes from it. But I believe we will grow stronger and adapt to thrive on our island home during this time of change. There is a shift in consciousness as more people have actually stopped to consider their place and footprints on this earth.

"I am breathing, I am healing and I am awakening, just as this world is...The cries of the mother earth have faded, and only the whispers of her wounded past are carried in the wind. Now when I listen, I can hear her singing with resilience.

Though I feel great sadness for the people of this earth, it is time to awaken. We need to take a stand and peacefully fight for the future of this land."-Tyler Levine

## Take action together:



**We chose to nurture nature:**





**Mahalo nui- Sabastian and Tyler**  
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