

CPSG 101 Carbon Footprint Infographic - Eli Friedman

Present Footprint:

- My Footprint in tons CO₂/yr: 12.63 Metric Tons CO₂
- My carbon footprint is equivalent to how many hectares of tropical forest: 4.59 hectares
- Household and food footprint: 7.01 metric tons of CO₂
- Transportation footprint: 2.2 metric tons of CO₂
- Air Travel footprint: 0.6 metric tons of CO₂

I live in an Apartment Building with 5+ units, and the size of housing is over 4,000 sq ft. Some (1-49%) of the power in the dorm is from solar/wind/hydropower/nuclear, and there are 6+ residents including myself. My diet is mostly average omnivore and I only travel on the bus around 5 miles per week. My average total distance traveled is 1000 miles and the average fuel economy (mpg) is 25 mpg. I do not use the over ground or underground transportation railway.

Future Footprint (4 residents including myself):

- Footprint in tons CO₂/yr: 25.09 Metric Tons Co₂
- Household's footprint is the carbon equivalent of how many hectares of tropical forest: 9.12 hectares
- Per capita Household and food footprint: 15.62 metric tons of CO₂
- Per capita Air Travel footprint: 1.5 metric tons

In the future, I will live in a detached single family home that is around 2000-2500 sq ft. Some (1-49%) of the power in my house will be from solar/wind/hydropower/nuclear. Our household diet will be mostly average omnivore, and I will own an electric vehicle. My average annual distance traveled will be over 10,000 miles, and my average fuel economy (mpg) will be 30 mpg. My wife and I will own two electric cars, averaging 30 mpg and 20,000 miles annually. We will fly 7500 miles annually and will not use the over ground or underground transportation railway.

Differences in Footprint:

The differences between present and future account for the differences in the living situation between a dorm and a detached single family residence, the number of residents which is a large number in a dorm but four residents in the future, the distance traveled by car which is presently very few but significantly more in the future, the distance traveled by plane which is currently fewer than a family of four residents will be, and finally how much food is being consumed on a daily basis will be significantly greater with a family of four.

