

Water Footprint

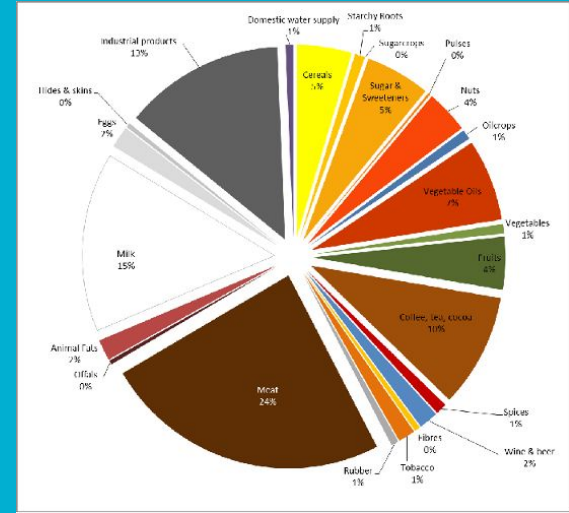


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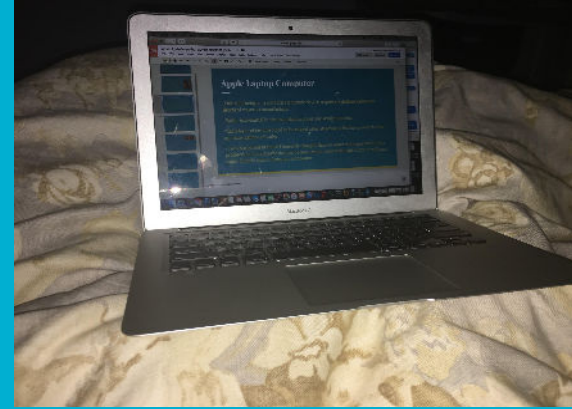


Denim Jeans- clothing

- Jeans require **1 kg of cotton**
- To produce that amount of cotton, **10,000 liters (about 2,642 gallons)** of water are used for growing, washing, and dying
- Most of the cotton comes from China and India (the world's largest producers), who are each on the verge of water crises
- I wear jeans almost everyday (I own 3 pairs), and am shocked to discover the immense amount of water needed to create something that seems so simple



Apple Laptop Computer- education



- One microchip in a modern electronic device requires **8 gallons (about 30 liters)** of water to manufacture.
- Water is essential in the manufacturing of any semiconductor.
- Each layer of circuits need to be rinsed after attaching a few layers which takes up many gallons of water.
- I was surprised because I honestly thought that no water will be needed in the production of electronic devices because water causes damage to the circuit and cause electric shock if reacted with water.

Milk- diet



- The average water required in cow milk production is 2000 gallons of water per gallon of milk.
- 95% of the water required to produce milk is used to grow cow feed. The cow needs to be given proper nutrition in order for there to be a regular amount of milk produced.
- I was surprised at the amount of water used but I knew that water was somehow used in the process of milk production.
- To save the water, I would need to change my behavior, but I can do this by drinking different kinds of milk that does not include dairy from livestock or take calcium supplements to ensure I get the same nutrients.

Yellow School Bus- Transportation



- Each gallon of gasoline requires about 1 to 2.5 liters of water and the manufacturing of a car requires 3,090 gallons of water. The act of driving and manufacturing is very water intensive because of the materials, such as steel, that must be processed and the refining of gasoline for fuel.
- I was surprised because I would have assumed that with nearly every family in industrial countries owning at least one vehicle and children driving to school, the technology would have been such that the cars used less water in their manufacturing.
- Riding a bicycle or walking instead of taking the school bus, or washing the vehicle by hand are all ways to conserve water in any vehicle.

Dishwasher- technology



- the average dishwasher uses 6 gallons per load and emits between 1 and 2 pounds of carbon dioxide, according to the Department of Energy
- I am not surprised by this fact because the essence of a dishwasher is to use water to clean the dishes, and therefore a lot of water must be used.
- If there are only a few dishes to be washed, handwashing, if it can be completed under two minutes, can be more efficient in conserving water than a dishwasher.
- If a dishwasher must be used, try and only use full loads to use the water most effectively and not wastefully consume it.

