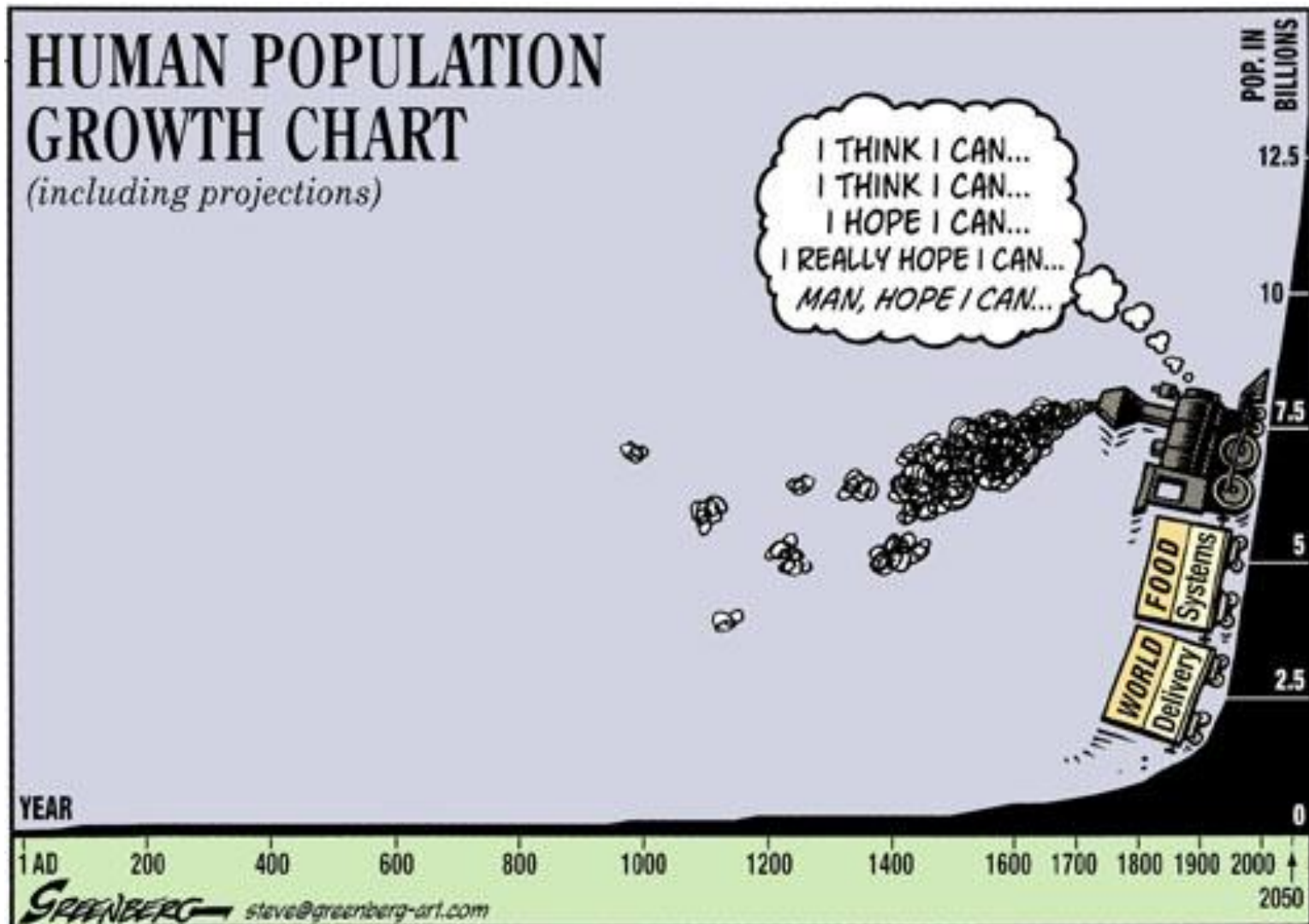


# Chapter 9, Lesson 1 Notes



# Chapter 9 : People and the Environment

1. Earth can support an unlimited number of people. **Disagree**
2. Humans can have both positive and negative impacts on the environment. **Agree**
3. Deforestation does not affect soil quality. **Disagree**
4. Most trash is recycled. **Disagree**

5. Sources of water pollution are always easy to identify.

**Disagree**

6. The proper method of disposal for used motor oil is to pour it down the drain.

**Disagree**

7. The greenhouse effect is harmful to life on Earth.

**Disagree**

8. Air pollution can affect human health.

**Agree**

# Population Clock

<https://www.census.gov/popclock/>

Thinking questions...

How many people live on Earth?

How many people live in the United States?

How are the numbers changing?

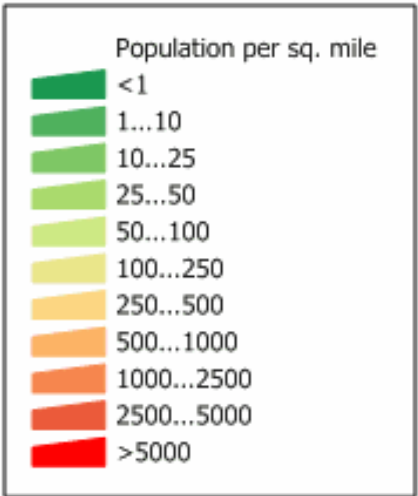
# Define:

Population:

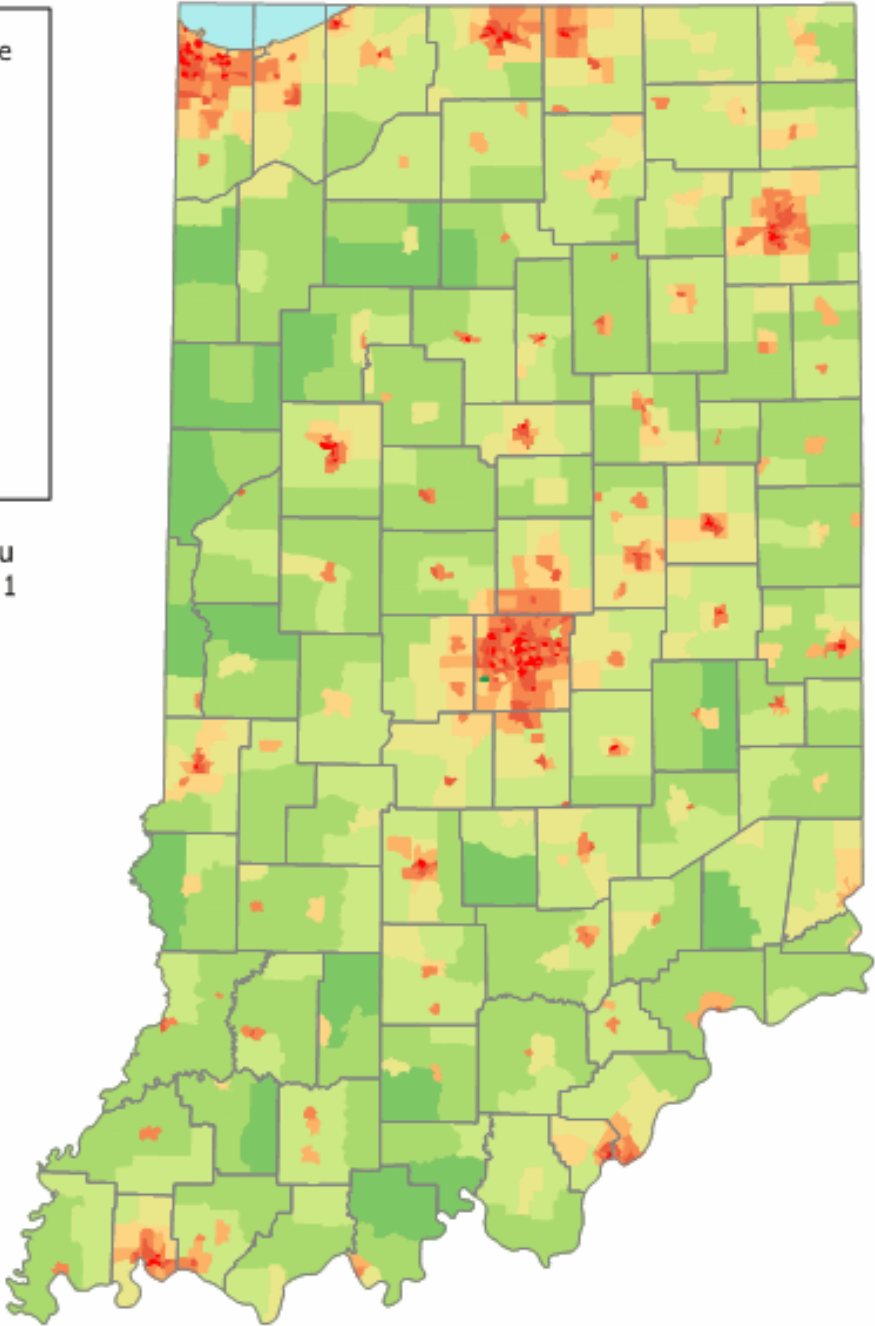
All the members of a species living in a given area

Carrying Capacity:

The largest number of individuals of a species that the Earth can support



Source: U. S. Census Bureau  
Census 2000 Summary File 1  
population by census tract.



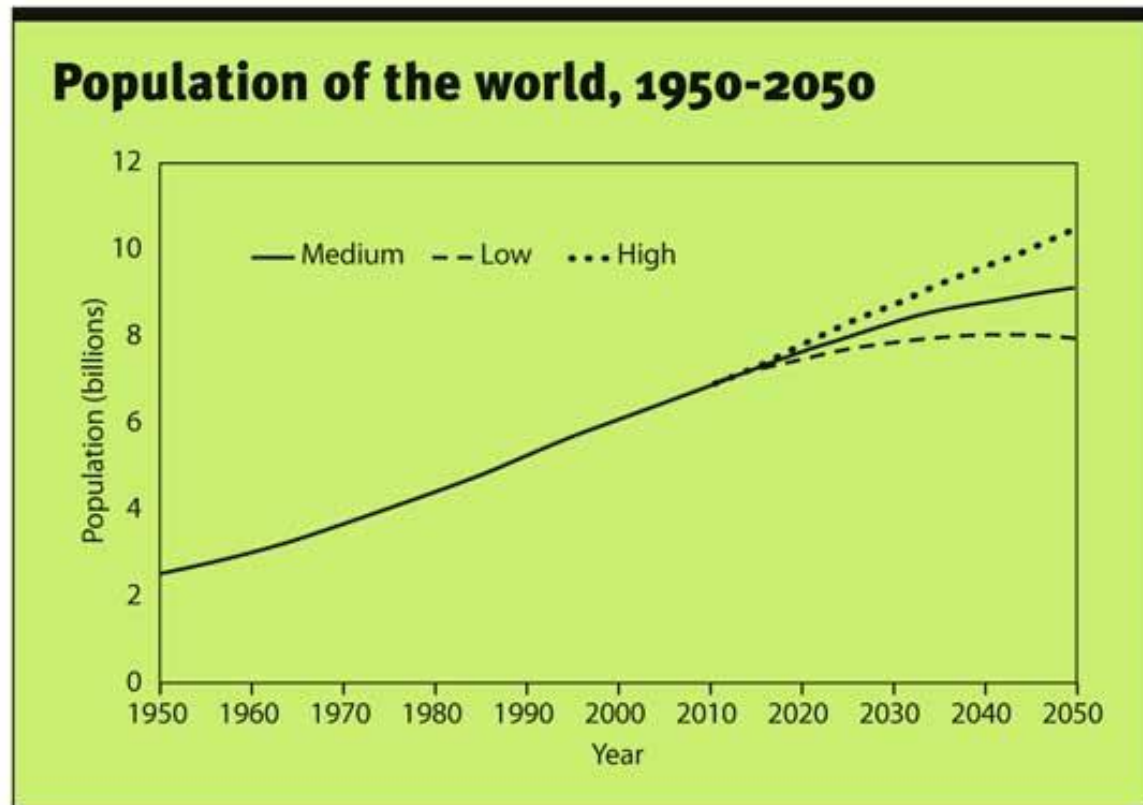
What might happen if a species reaches its carrying capacity? List 3 (or more) possibilities.

Not enough food or clean water, more diseases, lower quality of life, and ultimately increased death rate.



Do you know the human population  
on Earth today?  
More than 7 billion!!

[Check out the Population Clock](#)



Source: Population Division of the Department of Economic and Social Affairs of the United Nations



Why did the human population explode in the 1800s? List 3 reasons.

Better medicine and health care, access to clean water, and other technological advancements.



According to your book, approximately how many babies will be born in an hour?

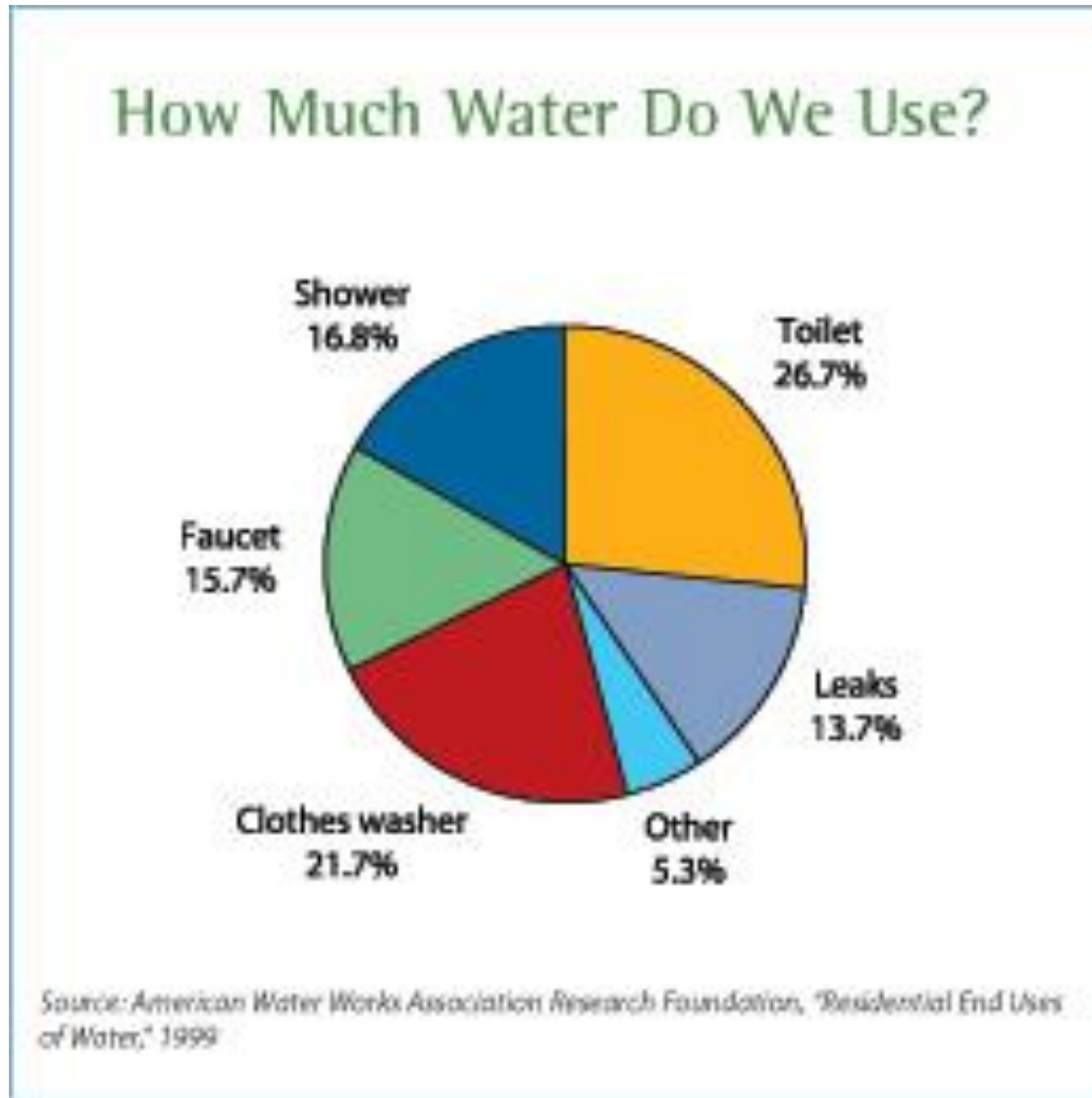
15,000 - WOW!



How can taking a shower be bad for the environment?



# How much water do you use in a day?



Calculate one day human population growth.

# How Long Does Trash Last Activity

Get out a piece of paper and number 1-12.

***Place the twelve items on the next slide  
in the order you think they would  
decompose in a landfill.***

# How Long Does Trash Last

Aluminum Can

Plastic Bottle

Banana

Rubber sole of shoe

Cotton Rag

Plastic Milk Jug

Glass Jar

Styrofoam Cup

Leather Boot

Tin Can

Paper Bag

Wool Hat

# The Correct Order

- Banana
- Paper Bag
- Cotton Rag
- Wool
- Leather Shoe
- Rubber Sole
- Tin Can
- Aluminum Can
- Plastic Bottle
- Plastic Milk Jug
- Styrofoam Cup
- Glass Bottle



# How Long (weeks, months, years) will they last in a landfill?

- Banana - 3 weeks
- Paper Bag – 1 month
- Cotton Rag – 5 months
- Wool – 1 year
- Leather Shoe – 40 years
- Rubber Sole – 50 years
- Tin Can – 80 years
- Aluminum Can – 300 years
- Plastic Bottle – 450 years
- Plastic Milk Jug – 1 million years
- Styrofoam Cup – unknown? Forever?
- Glass Bottle – unknown? Forever?