Population Notes

**Essential Questions:**

1. What are some issues related to overpopulation?

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2. How does migration affect people and regions?

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3. How are the environment and people related, how do they affect one another?

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4. How can we use population data to predict future impacts and problems?

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Introduction to Population

In this unit we will be demographers. Meaning we will be practicing demography or the study of population. (This is a vocabulary word so make sure you have the definition.)

We will also be looking at population density or the average number of people living in a square mile.

How is population density determined?

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ ÷ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

(This is inaccurate because some regions have large areas of uninhabitable land such as \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_)

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ ÷ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (land that can be farmed) is more accurate

The densest concentration of people are located in 4 areas:

1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
3. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
4. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Patterns of Population: Why do people live where they do?**

* Basic Needs:
  + \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ - can it \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ basic food needs (farming)
  + \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ - essential to human life
  + \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ - can humans \_\_\_\_\_\_\_\_\_\_\_\_\_ to their environment
* Economic Reasons
  + Businesses locate near the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ they use, people live in close proximity to where they \_\_\_\_\_\_\_\_\_\_\_\_\_\_ - \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (growth of city population)

**Population Growth:**

* Effects of Growth (2 views)
  + Increased famine, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ depletion
  + As human numbers rise, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ will offset the effects of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* Terms related to population growth - birth rate, death rate, immigrants, & emigrants (check your glossary for definitions or add them below.
  + birth rate: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
  + death rate: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
  + immigrants: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
  + emigrants: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* Growth Rate Explained:
  + Zero Population Growth: \_\_\_\_\_\_\_\_\_\_\_\_ + \_\_\_\_\_\_\_\_\_ = \_\_\_\_\_\_\_\_\_\_\_\_\_ + \_\_\_\_\_\_\_\_\_\_
  + Population Increase: \_\_\_\_\_\_\_\_\_\_\_\_ + \_\_\_\_\_\_\_\_ > \_\_\_\_\_\_\_\_\_\_\_\_+ \_\_\_\_\_\_\_\_\_\_\_\_
  + Population Decline: \_\_\_\_\_\_\_\_\_\_\_ + \_\_\_\_\_\_\_\_\_ < \_\_\_\_\_\_\_\_\_\_\_\_ + \_\_\_\_\_\_\_\_\_\_\_\_
  + (B.R. - Birth Rate, I - Immigrants, D.R. - Death Rate, E - Emigrants)

Migration

**Migration** is the movement of people from one place in the world to another for the purpose of taking up permanent or semipermanent residence, usually across a political boundary.

**Scales of Migration:**

* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (between continents)
* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (between countries on a given continent)
* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (within countries)
* The most significant migration patterns are \_\_\_\_\_\_\_\_\_\_\_\_\_ to \_\_\_\_\_\_\_\_\_\_\_\_\_ migration—the movement of people from the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ to \_\_\_\_\_\_\_\_\_\_\_\_\_\_ usually for \_\_\_\_\_\_\_\_\_\_ opportunities.

**Types of Migration:**

* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ - moving within a state, country, or continent
* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ - moving to a new home in a different state, country, or continent
* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_- leaving one country to go to another
* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ - moving into a new country

**Push/Pull Factors:**

* **Push factors** are the reasons/situations/circumstances that \_\_\_\_\_\_\_\_\_\_\_\_\_\_ people to leave.
  + Examples:
    1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
    2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
    3. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
    4. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
    5. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* **Pull factors** are the things that are \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ or desirable to people to a new area.
  + Examples:
    1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
    2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
    3. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
    4. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* Types of push/pull factors:
  + \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (e.g., climate, natural disasters)
  + \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (e.g., war)
  + \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (e.g., work)
  + \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (e.g., religious freedom, education)

**Trends of Migration:**

* Most migrants travel only a \_\_\_\_\_\_\_\_\_\_\_\_\_\_ distance.
* Migrants traveling long distances usually settle in \_\_\_\_\_\_\_\_\_\_\_\_\_\_ areas.
* Most migration occurs in \_\_\_\_\_\_\_\_\_\_\_\_\_.
* Most migration is \_\_\_\_\_\_\_\_\_\_\_\_\_ to \_\_\_\_\_\_\_\_\_\_\_\_\_\_.
* Each migration flow \_\_\_\_\_\_\_\_\_\_\_\_\_ a movement in the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ direction ("counterflow").
* Most migrants are \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
* Most \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ migrants are young \_\_\_\_\_\_\_\_\_\_\_\_, while more \_\_\_\_\_\_\_\_\_\_\_\_\_ migrants are \_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Why do you think these trends hold true?**

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Impacts of Migration:**

Human migration affects \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and characteristics, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ patterns and processes, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, and physical \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. As people move, their cultural traits and ideas \_\_\_\_\_\_\_\_\_\_\_\_\_ along with them, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ cultural landscapes.

**Cultural Diffusion** - the process where one culture’s ideas and ways of life are adopted or accepted by another culture. (Ex: Chinese food is widespread throughout America)

Human-Environment Interaction

1. How do people use their environment?

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1. Have they changed it?

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1. How have people responded to changes in their environment?

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**Changes in the Environment**

Changes to the environment can be characterized as one of the following: **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**, **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**, **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**, or **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**.

All environmental changes have \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. We, as humans, need to determine if the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ are worth the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ or how to offset the \_\_\_\_\_\_\_\_\_\_\_\_\_\_ consequences associated with our \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

**Humans and the Environment**

–Human beings \_\_\_\_\_\_\_\_\_\_\_\_\_ to the environment

–Human beings \_\_\_\_\_\_\_\_\_\_\_\_\_ the environment

–Human beings \_\_\_\_\_\_\_\_\_\_\_\_\_ on the environment

**Adapt or Modify**

* What is the difference between adapting to or modifying the environment?
  + **Adaption** is changing \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ to meet the needs created by the \_\_\_\_\_\_\_\_\_\_\_\_\_\_
  + **Modifying** is changing the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ to meet \_\_\_\_\_\_\_\_\_\_\_\_ needs

**Carrying Capacity**

* **Carrying Capacity** is the maximum number of individuals that an area's resources can sustain indefinitely without significantly depleting or degrading those resources
* Factors that Change Carrying Capacity:
  + \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
  + \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
  + types of \_\_\_\_\_\_\_\_\_\_\_\_\_ uses to \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and process the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Population growth and Carrying Capacity**

**Exponential Population Growth:**

1. Growth starts out \_\_\_\_\_\_\_\_\_\_\_\_, enters a \_\_\_\_\_\_\_\_\_\_\_\_ growth phase and then \_\_\_\_\_\_\_\_\_\_\_\_\_\_ off when the carrying capacity for that species has been \_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. The size of the population then \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ slightly above or below the carrying capacity.
3. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ lag time may cause the population to **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** the carrying capacity temporarily. Reproductive lag time is the time \_\_\_\_\_\_\_\_\_\_\_\_\_\_ for the birth rate to \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and the death rate to \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ in response to \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ limits.
4. In this scenario, the population will suffer a \_\_\_\_\_\_\_\_\_\_\_\_\_ or dieback to a lower level near the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ unless a large number of individuals can \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ to an area with more favorable conditions.

An area's carrying capacity is not \_\_\_\_\_\_\_\_\_\_\_\_\_. The carrying capacity may be \_\_\_\_\_\_\_\_\_\_\_\_\_\_ by resource \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and degradation during an \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ period or \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ through technological and social \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.