

14.3

Population Density and Distribution

VOCABULARY

population density
population dispersion
survivorship curve

KEY CONCEPT Each population has a density, a dispersion, and a reproductive strategy.

MAIN IDEAS

- ➊ Population density is the number of individuals that live in a defined area.
- ➋ Geographic dispersion of a population shows how individuals in a population are spaced.
- ➌ Survivorship curves help to describe the reproductive strategy of a species.

✧ Connect to Your World

If you have ever traveled from a rural area into a city, you may have noticed a change in population density. Cities have more dense populations, while rural areas have more widely dispersed populations. Scientists measure species populations in a similar way. What can we learn from population data?

➊ MAIN IDEA

Population density is the number of individuals that live in a defined area.

The wandering albatross may fly over open ocean waters for days or weeks at a time without ever encountering another bird. In contrast to this solitary lifestyle, elephant seals may gather in groups of a thousand or more on California beaches. By collecting data about a population in a particular area, scientists can calculate the density of a population. **Population density** is a measurement of the number of individuals living in a defined space.

Calculating an accurate population density can tell scientists a great deal about a species. When scientists notice changes in population densities over time, they work to determine whether the changes are the result of environmental factors or are simply due to normal variation in the life history of a species. In this way a wildlife biologist can work to make changes that will help to keep the population healthy. One way to calculate population density is to create a ratio of the number of individuals that live in a particular area to the size of the area. This formula is simplified as follows:

$$\frac{\text{# of individuals}}{\text{area (units}^2\text{)}} = \text{population density}$$

For example, if scientists sampling a population of deer counted 200 individuals in an area of 10 square kilometers, the density of this deer population would be 20 deer per square kilometer.

Connect What might a decrease in the density of a deer population over a specific time period tell scientists about the habitat in the area?

➋ CONNECT TO

GENE FLOW

Recall that in the chapter *The Evolution of Populations* you learned about gene flow and geographic isolation. Population dispersion patterns influence the rate of gene flow among and between species.

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Lei Huang



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Table of Contents 14 3 Population Density And Distribution Study Guide Key

1. Understanding the eBook 14 3 Population Density And Distribution Study Guide Key
 - The Rise of Digital Reading 14 3 Population Density And Distribution Study Guide Key
 - Advantages of eBooks Over Traditional Books
2. Identifying 14 3 Population Density And Distribution Study Guide Key
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an 14 3 Population Density And Distribution Study Guide Key
 - User-Friendly Interface
4. Exploring eBook Recommendations from 14 3 Population Density And Distribution Study Guide Key
 - Personalized Recommendations
 - 14 3 Population Density And Distribution Study Guide Key User Reviews and Ratings
 - 14 3 Population Density And Distribution Study Guide Key and Bestseller Lists
5. Accessing 14 3 Population Density And Distribution Study Guide Key Free and Paid eBooks

- 14 3 Population Density And Distribution Study Guide Key Public Domain eBooks
- 14 3 Population Density And Distribution Study Guide Key eBook Subscription Services
- 14 3 Population Density And Distribution Study Guide Key Budget-Friendly Options
- 6. Navigating 14 3 Population Density And Distribution Study Guide Key eBook Formats
 - ePub, PDF, MOBI, and More
 - 14 3 Population Density And Distribution Study Guide Key Compatibility with Devices
 - 14 3 Population Density And Distribution Study Guide Key Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of 14 3 Population Density And Distribution Study Guide Key
 - Highlighting and Note-Taking 14 3 Population Density And Distribution Study Guide Key
 - Interactive Elements 14 3 Population Density And Distribution Study Guide Key
- 8. Staying Engaged with 14 3 Population Density And Distribution Study Guide Key
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers 14 3 Population Density And Distribution Study Guide Key
- 9. Balancing eBooks and Physical Books 14 3 Population Density And Distribution Study Guide Key
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection 14 3 Population Density And Distribution Study Guide Key
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine 14 3 Population Density And Distribution Study Guide Key
 - Setting Reading Goals 14 3 Population Density And Distribution Study Guide Key
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of 14 3 Population Density And Distribution Study Guide Key
 - Fact-Checking eBook Content of 14 3 Population Density And Distribution Study Guide Key
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development

- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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