

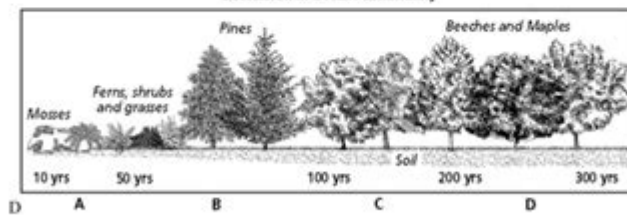
# 44 Biomes Answer Key

NAME \_\_\_\_\_

## CH. 3 COMMUNITIES, BIOMES AND ECOSYSTEMS STUDY GUIDE

1. Name the pioneer species that begins primary succession on a rocky area?
2. After a community is disrupted by a large-scale event, such as a forest fire, a new community is established through what succession process?
3. What determines whether a zone is photic or aphotic?
4. Name the terrestrial biome houses the greatest biodiversity.
5. What is the definition of a biological community?
6. What is the definition of secondary succession?
7. Describe the tundra biome?
8. What event is most likely to initiate primary succession?
9. Explain why secondary succession generally occurs more rapidly in an area than does primary succession?
10. What type of succession is most likely to occur after a burned forest or a flood?

11. At which stage in Figure 3-3 are the most pioneer species found? Stage A, B, C, or D?  
Succession in a Plant Community



12. What single feature is primarily responsible for the variation of climate in different parts of the world?
13. If precipitation on a tropical savanna increased from 100 to 200 centimeters per year but temperature remained the same, what biome would replace the savanna?

44 biomes answer key serves as a valuable resource for understanding the diverse ecosystems that cover our planet. This key provides detailed information on the various biomes, their characteristics, climate types, flora and fauna, and their geographical distribution. By studying these biomes, we can gain a deeper appreciation for the complexity of life on Earth and the intricate relationships between organisms and their environments. This article will delve into the different biomes classified by researchers, highlighting their unique features and significance.

## Understanding Biomes

Biomes are large ecological areas characterized by specific climate

conditions, plants, and animals. They can be categorized into terrestrial and aquatic biomes, each with its own distinct features. The classification of biomes is crucial for environmental studies, conservation efforts, and understanding how different ecosystems interact with each other.

## **Classification of Biomes**

Biomes are typically classified based on the following criteria:

1. **Climate:** Temperature and precipitation play a significant role in determining the type of biome.
2. **Flora and Fauna:** The types of plants and animals that inhabit a biome are key indicators of its classification.
3. **Geographical Location:** The geographical region can influence the characteristics of a biome.
4. **Soil Type:** Soil composition can affect the types of vegetation that can thrive in a particular area.

## **Types of Terrestrial Biomes**

Terrestrial biomes are primarily classified based on their climate and vegetation. Here is a detailed look at the major terrestrial biomes:

### **Tropical Rainforest**

- **Location:** Near the equator (e.g., Amazon Basin, Congo Basin, Southeast Asia)
- **Climate:** High humidity, warm temperatures (averaging 20-25°C), and more than 2000mm of rainfall annually.
- **Flora:** Diverse plant life, including tall trees, vines, and ferns.
- **Fauna:** Home to a wide variety of species, including insects, birds, mammals, and reptiles.

### **Savanna**

- **Location:** Africa, South America, Australia, and India.
- **Climate:** Warm temperatures (20-30°C) with distinct wet and dry seasons.
- **Flora:** Grasses with scattered trees and shrubs.
- **Fauna:** Herbivores like elephants and giraffes, and carnivores such as lions and hyenas.

## **Desert**

- Location: Found in regions like the Sahara, Mojave, and Gobi.
- Climate: Extreme temperatures (hot and cold), with less than 250mm of rainfall annually.
- Flora: Cacti, succulents, and drought-resistant plants.
- Fauna: Adapted species such as camels, snakes, and lizards.

## **Temperate Forest**

- Location: Eastern North America, Europe, and East Asia.
- Climate: Four distinct seasons with moderate rainfall (750-1500mm).
- Flora: Deciduous trees (oak, maple) and coniferous trees (pine, spruce).
- Fauna: Deer, bears, and various bird species.

## **Taiga (Boreal Forest)**

- Location: Canada, Alaska, Russia, and Scandinavia.
- Climate: Long, cold winters and short summers; moderate precipitation (400-1000mm).
- Flora: Coniferous trees such as spruce, fir, and pine.
- Fauna: Moose, wolves, and migratory birds.

## **Tundra**

- Location: Arctic regions and high mountain tops.
- Climate: Extremely cold temperatures, limited precipitation (150-250mm).
- Flora: Low-growing plants like mosses, lichens, and small shrubs.
- Fauna: Polar bears, caribou, and migratory birds.

## **Types of Aquatic Biomes**

Aquatic biomes are classified into freshwater and marine biomes. Each category supports a diverse range of organisms.

### **Freshwater Biomes**

These include rivers, lakes, ponds, and wetlands.

- Rivers and Streams: Flowing freshwater ecosystems that support fish,

amphibians, and various aquatic plants.

- Lakes and Ponds: Standing water bodies that can be divided into zones (littoral, limnetic, benthic).
- Wetlands: Areas where water covers the soil, supporting unique flora and fauna (e.g., marshes, swamps).

## **Marine Biomes**

These include oceans, coral reefs, and estuaries.

- Oceans: Covering about 71% of the Earth's surface, they host diverse ecosystems, including the open ocean and deep-sea environments.
- Coral Reefs: Found in warm, shallow waters, these ecosystems are rich in biodiversity and provide habitat for numerous marine species.
- Estuaries: Where freshwater meets saltwater, estuaries are highly productive areas that serve as nurseries for many fish species.

## **Significance of Biomes**

Understanding the various biomes is crucial for several reasons:

1. Biodiversity Conservation: Biomes are home to countless species, many of which are endangered or threatened. Protecting these ecosystems is vital for preserving biodiversity.
2. Climate Regulation: Biomes play a significant role in regulating the Earth's climate. Forests, for instance, absorb carbon dioxide and help mitigate climate change.
3. Resource Provision: Biomes provide essential resources, including food, water, and raw materials. Sustainable management of these resources is critical for human survival.
4. Cultural Importance: Different biomes have shaped the cultures and lifestyles of various human communities. Understanding these relationships can enhance conservation efforts.

## **Threats to Biomes**

Despite their importance, biomes are facing numerous threats:

- Climate Change: Altered temperature and precipitation patterns are affecting the distribution and health of biomes.
- Deforestation: The clearing of forests for agriculture or urban development disrupts ecosystems and threatens species.
- Pollution: Contaminants from industrial activities can harm aquatic and terrestrial biomes.
- Invasive Species: Non-native species can outcompete native organisms,

leading to a decline in biodiversity.

## Conservation Efforts

To protect the world's biomes, various conservation strategies can be employed:

1. Protected Areas: Establishing national parks and reserves to safeguard critical habitats.
2. Sustainable Practices: Promoting sustainable agriculture, forestry, and fishing practices to minimize environmental impact.
3. Restoration Projects: Rehabilitating degraded ecosystems to restore their natural functions and biodiversity.
4. Education and Awareness: Raising public awareness about the importance of biomes and the threats they face.

## Conclusion

The 44 biomes answer key encompasses a wealth of information that underscores the diversity of life on Earth. By understanding the characteristics and significance of these biomes, we can foster a greater appreciation for our planet's ecosystems and the need for their protection. As we face increasing environmental challenges, it is crucial to adopt sustainable practices and support conservation efforts to ensure that these biomes and their inhabitants thrive for generations to come. Through collective action, we can work towards a more balanced coexistence with the natural world, preserving the intricate web of life that sustains us all.

## Frequently Asked Questions

### What are biomes, and how many are typically recognized?

Biomes are large ecological areas on the Earth's surface, characterized by distinct climate conditions, plants, and animals. Typically, 44 biomes are recognized globally.

### What factors influence the classification of the 44 biomes?

The classification of biomes is influenced by various factors, including temperature, precipitation, soil types, and the types of vegetation and wildlife present.

## **Can you name three major types of biomes among the 44?**

Three major types of biomes are terrestrial biomes (like forests and deserts), aquatic biomes (such as freshwater and marine), and tundra biomes.

## **How do human activities impact the 44 biomes?**

Human activities such as deforestation, pollution, urbanization, and climate change significantly impact biomes, leading to habitat loss, species extinction, and altered ecosystems.

## **Why is biodiversity important within the 44 biomes?**

Biodiversity is crucial within biomes as it enhances ecosystem resilience, supports food webs, and provides resources for medicine, agriculture, and other human needs.

## **What role do biomes play in global climate regulation?**

Biomes play a vital role in global climate regulation by sequestering carbon, influencing weather patterns, and maintaining the balance of oxygen and carbon dioxide in the atmosphere.

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