

National Park Service  
U.S. Department of the Interior



Manassas National Battlefield Park

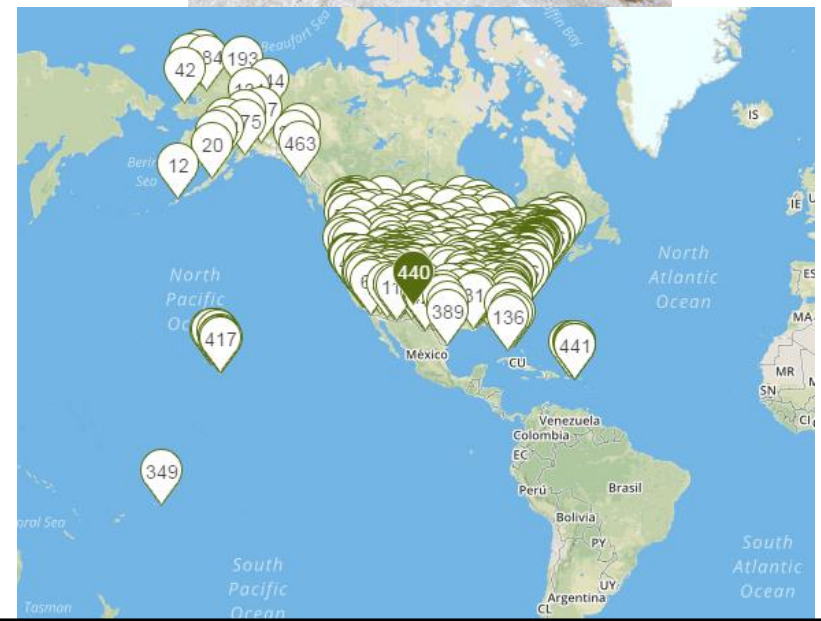
# Adaptations

EXPERIENCE YOUR AMERICA

# NPS History

The National Park Service was created by an act signed by President Woodrow Wilson on August 25, 1916.

Yellowstone National Park was established by an Act signed by President Ulysses S. Grant on March 1, 1872, as the nation's first national park.



# The Mission

The National Park Service preserves unimpaired the natural and cultural resources and values of the National Park System for the enjoyment, education, and inspiration of this and future generations.



# Manassas National Battlefield Park

Manassas National Battlefield park was established in 1940 to preserve the scene of two major Civil War battles, the Battle of First Manassas (First Bull Run) and the Battle of Second Manassas (Second Bull Run).

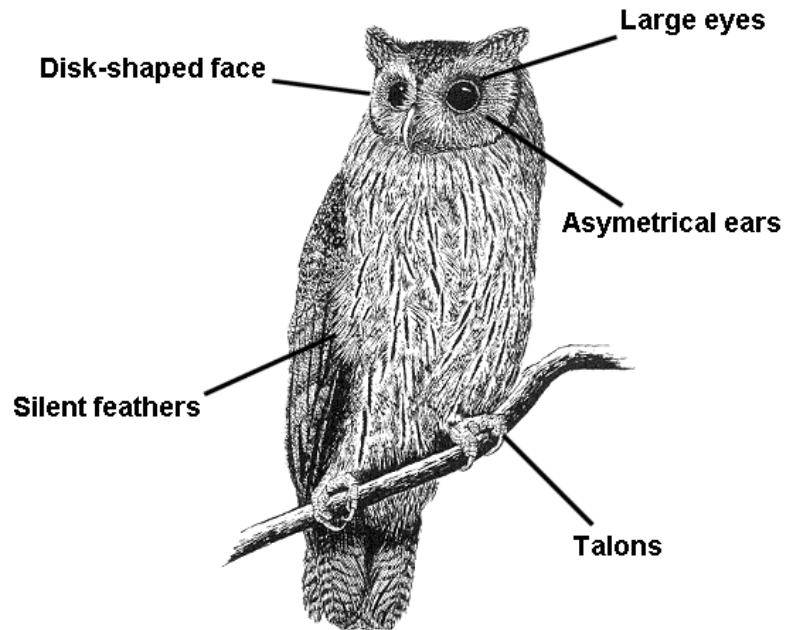




# What is your favorite animal?



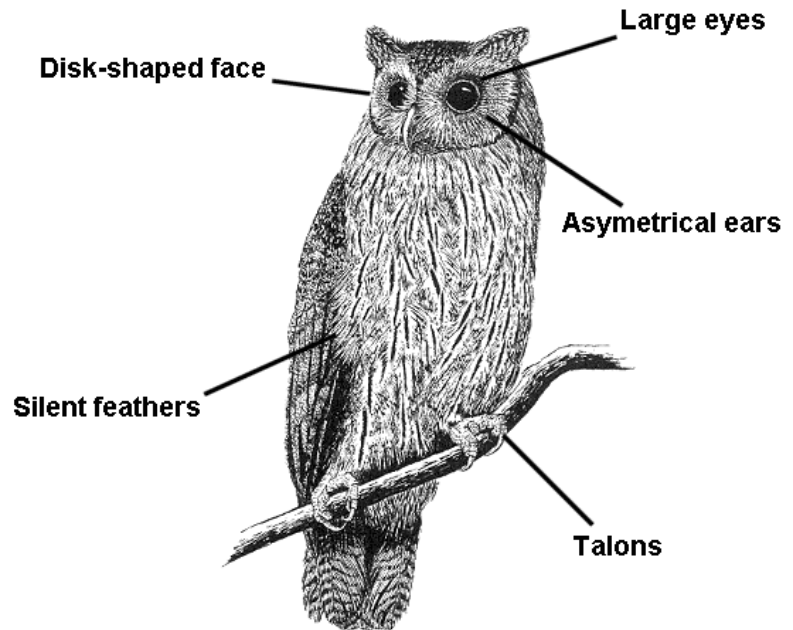
# Why are there so many different types of animals and plants in the world?





# Why are there so many different types of animals and plants in the world?

**Adaptations:** Special features (trait), either a change of form or behavior that allow a plant or animal to live in a particular place or habitat.



What are some other adaptations animals and plants have?





## What are some other adaptations animals and plants have?

- Camouflage
- Gills and fins
- Talons
- Fur
- Flight
- Leaves change colors
- Mimicry
- Night vision



What affects a plant or animals adaptations?

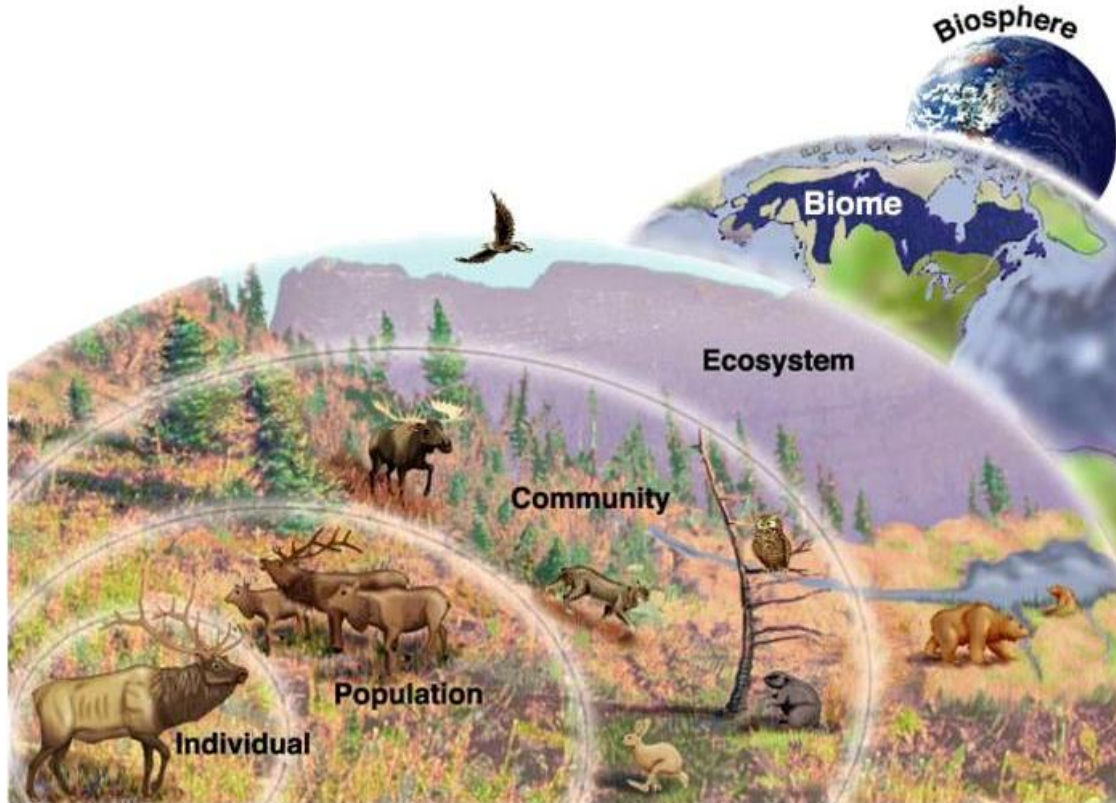
## What affects a plant or animals adaptations?

- Diet
- Predators
- Disease
- Human Interaction
- Passed down from parents
- **Where it lives**



**Habitat**

**Community**



**Ecosystem**

**Biome**

**Biosphere**

# Habitat

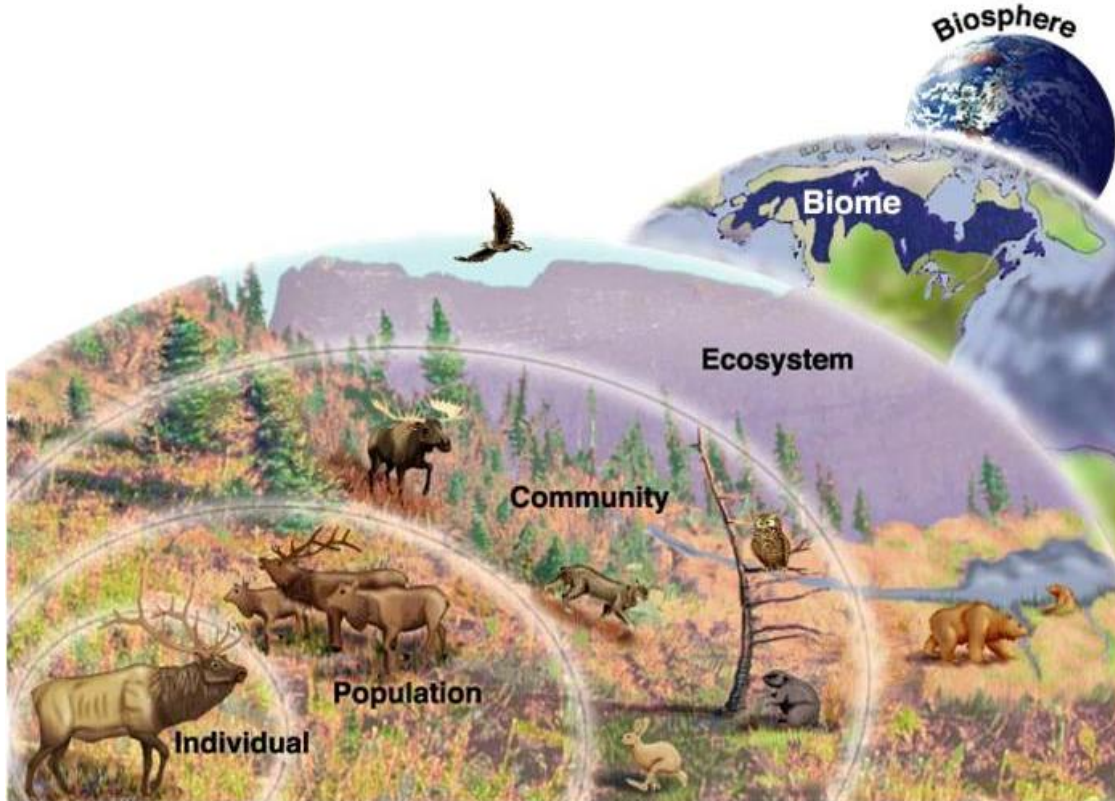
the natural environment where a species lives

# Community

# Ecosystem

# Biome

# Biosphere

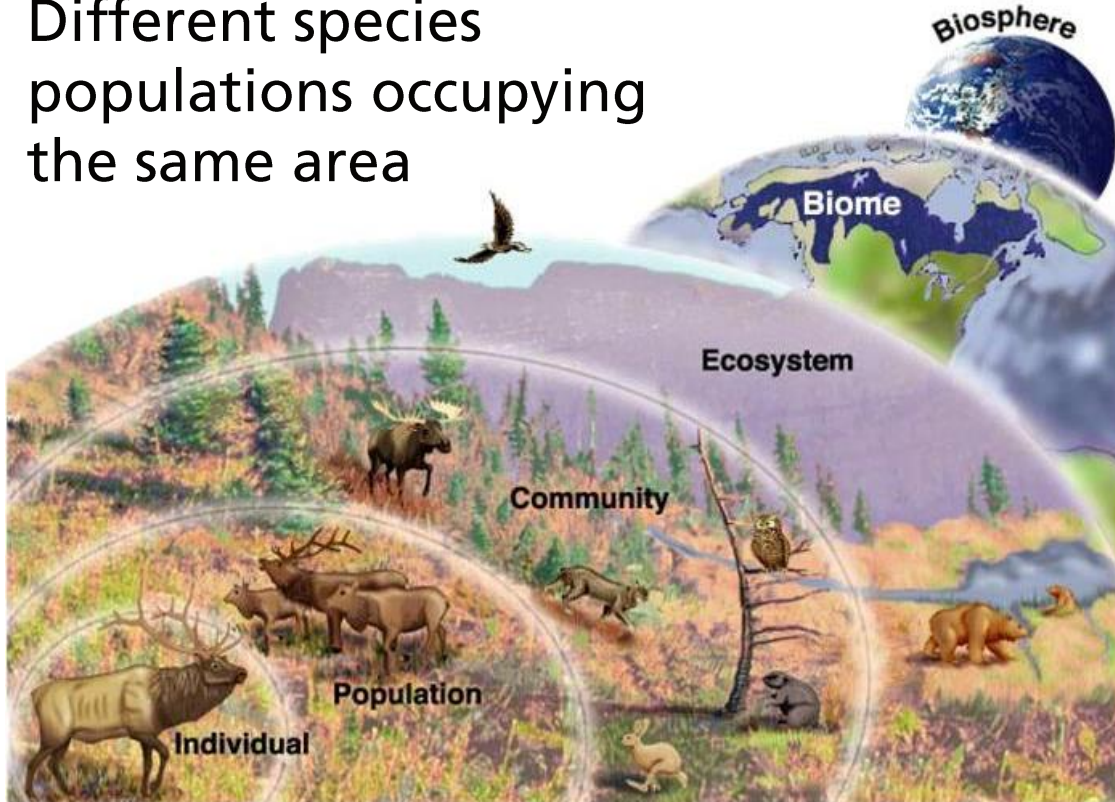


## Habitat

the natural environment  
where a species lives

## Community

Different species  
populations occupying  
the same area



## Ecosystem

## Biome

## Biosphere

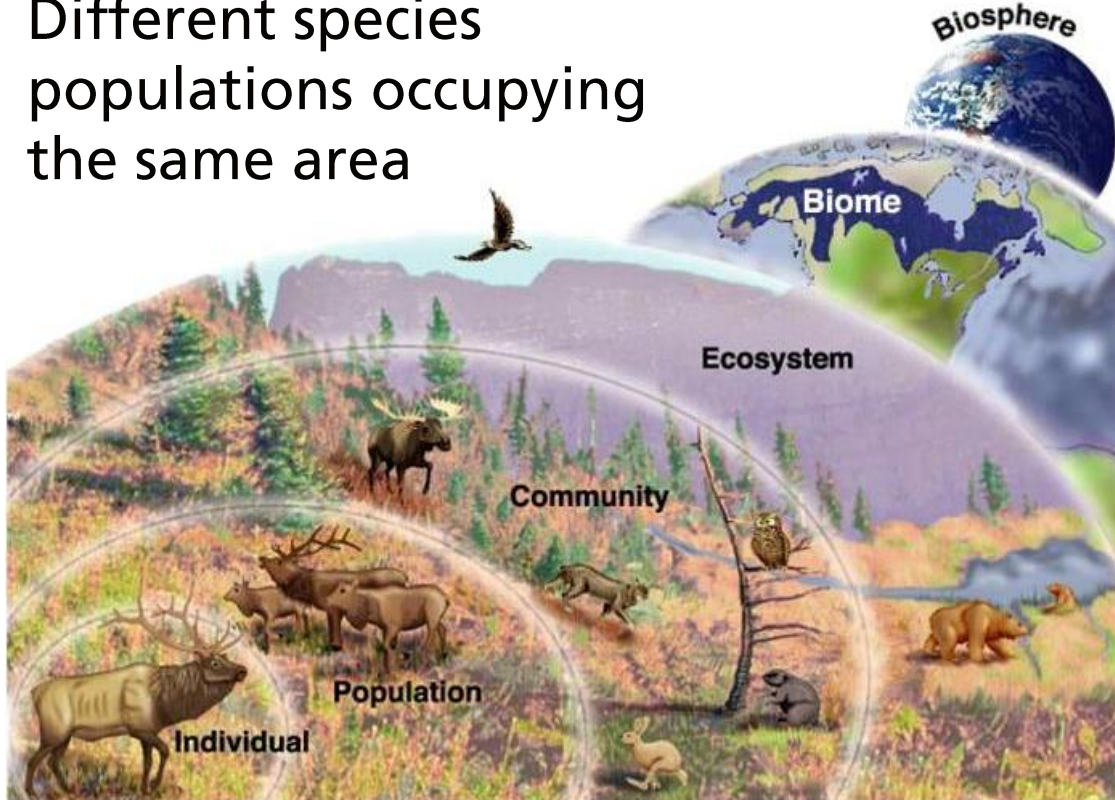


## Habitat

the natural environment where a species

## Community

Different species populations occupying the same area



## Ecosystem

a complex system of living and nonliving things interacting with one

## Biome

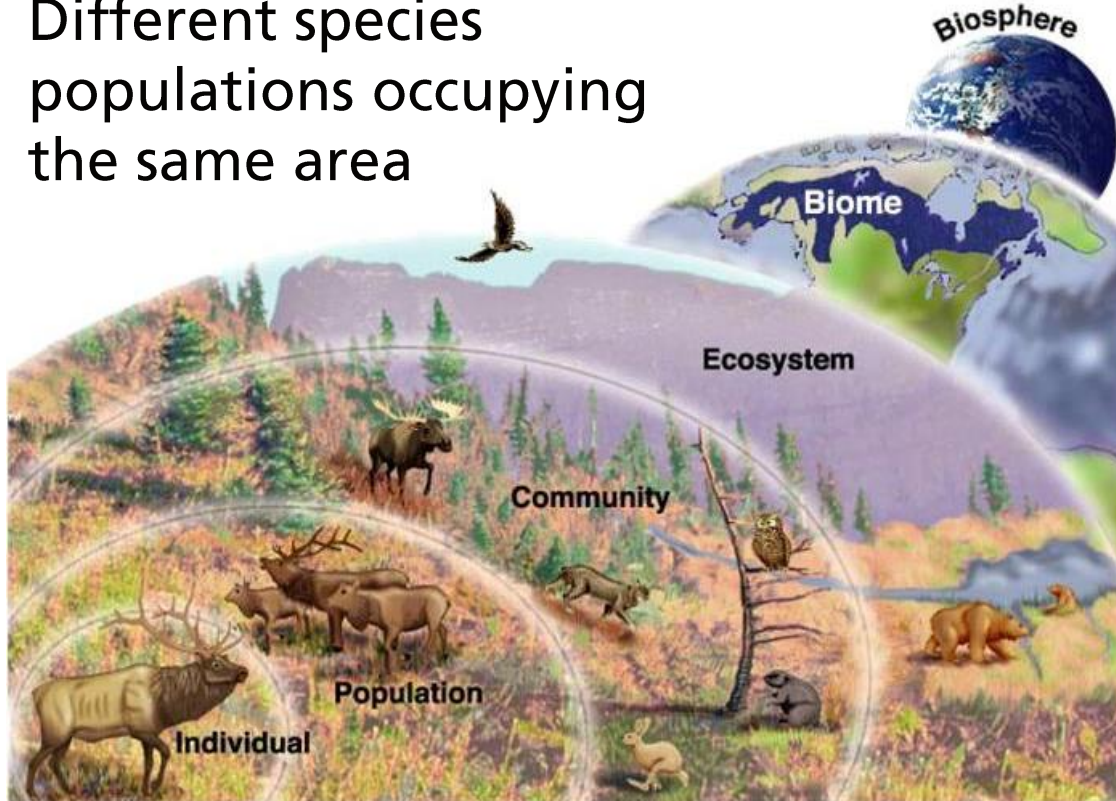
## Biosphere

## Habitat

the natural environment where a species lives

## Community

Different species populations occupying the same area



## Ecosystem

a complex system of living and nonliving things interacting with one another

## Biome

An area of the planet that can be classified according to the plants and animals that live in it.

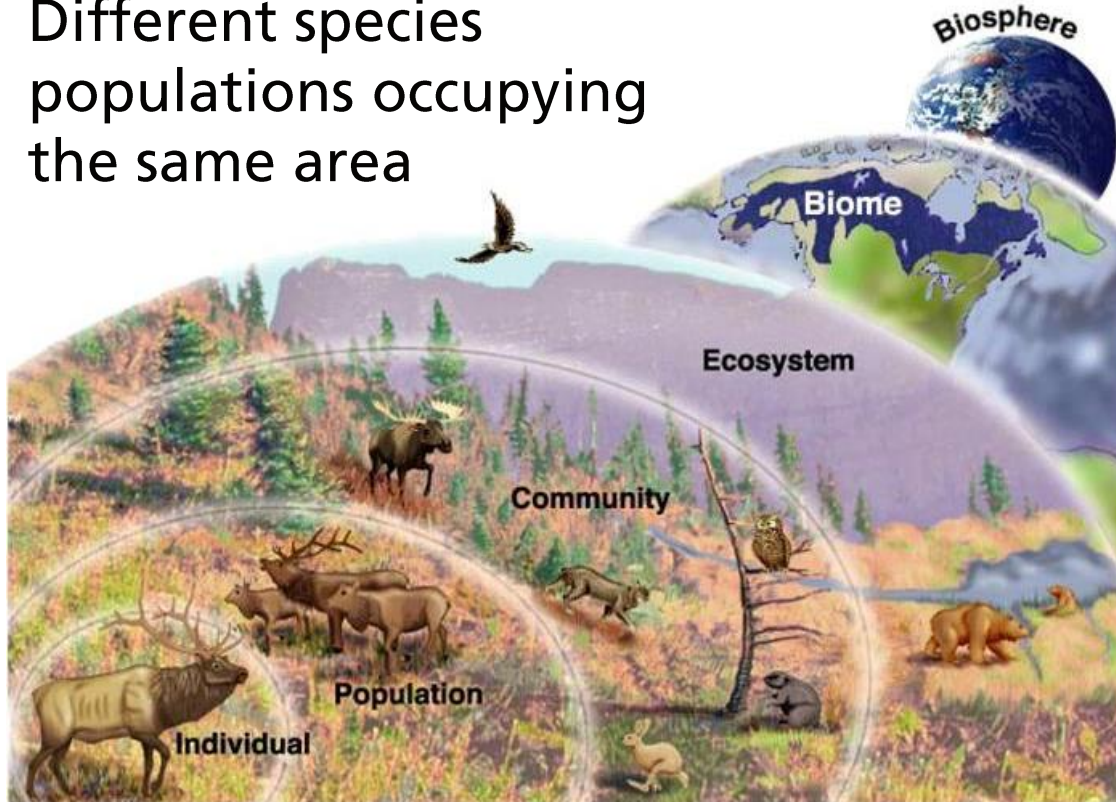
## Biosphere

## Habitat

the natural environment where a species

## Community

Different species populations occupying the same area



## Ecosystem

a complex system of living and nonliving things interacting with one

## Biome

An area of the planet that can be classified according to the plants and animals that live in it.

## Biosphere

parts of Earth where life exists



# Biomes

There are five types of biomes on Earth.  
What are they?





# Biomes



# Forest

Biological communities that are dominated by trees and other woody vegetation

- Boreal
- Temperate deciduous
- Tropical
- Broadleaf





# Tundra

The tundra biome is the coldest of all terrestrial eco-systems

- Low biotic diversity
- Simple vegetation structure
- Short season of growth and reproduction



- Artic
- Alpine

# Desert

Deserts occur where rainfall is  $< 50$  cm/year. There are relatively few large mammals in deserts because most are not capable of storing sufficient water and withstanding the heat. Little shelter from the sun.

- Hot and dry
- Semiarid
- Coastal
- Cold



# Aquatic

Lots of water!

- Streams
- Lakes
- Wetlands
- Oceans
- Coral reefs
- Estuaries
- Covers  $\frac{3}{4}$  of Earth!





# Grassland

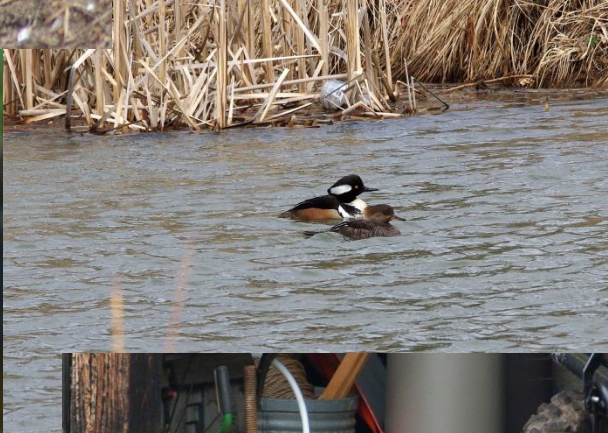
Lands dominated by grasses rather than large shrubs or trees

- Savanna
- Temperate
- **The battlefield**  
**is mostly**  
**grassland!**



What animals might you see at a Grassland in Virginia?  
What adaptations does that animal have?







# Activity Time!

## Create a Creature

Species Name

Common: \_\_\_\_\_ Scientific: \_\_\_\_\_

Habitat (food, water, and shelter)

Life History (size, adaptations, how long does it live)

Trivia: Fun Fact—Did you know that?



# Adaptations

Manassas National Battlefield Park

<https://www.nps.gov/mana>

(702) 361-1339



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