

## Discussion

How could climate change affect wetlands? *There are no right or wrong answers to this question. Scientists are still trying to understand this question. If climate change makes more rainfall, then more wetlands and aquatic systems may occur in an area. If less rain falls, then wetlands may become a lot drier and change to swamps or even to forests with upland trees. This would change the wetlands' job in the ecosystem.*

What would happen if all the Carolina bays dried up completely? How do you think this would affect the surrounding ecosystem? *Think about plants, animals, and humans. Refer to the "Thinking about the Environment" section. Wetlands provide a home to many unique plants and animals and perform many important roles to keep the environment healthy. For example, if the bays dried up, animals that feed on the aquatic plants would have to look somewhere else to get the right food sources.*

## Think Outside the Box

### Introduction

Think of one advantage of globalization for you or your community. Think of one disadvantage of globalization for you or your community. *There will be a variety of answers to this question. Encourage students to explain why they think their answer represents an advantage or disadvantage. Some examples of advantages include increased trade and access to a variety of products to buy. Some disadvantages include jobs being moved out of the community to other places and the increase in invasive species.*

In your own words, state the problem that the scientists wanted to study. *The problem scientists wanted to study is how to better predict the spread of invasive species.*

### Method

After reading the Method Section, how do you think technology helps scientists to work together? *Scientists use technology to communicate, such as by the telephone and email. They also use the computer to examine different case studies, including the computer models that were used to make predictions.*

Why do you think scientists examined a lot of different case studies before they made a decision about the best way to track the spread of invasive species? *If the scientists had only used one or two case studies, they would not have much to compare. They needed to compare successful with unsuccessful predictions. For that they needed more than just one or two case studies.*

### Findings

Think of a time when you benefited from a discussion with someone else. How did it help you? *This is an individual question and students will have many different experiences to share. In all cases, students should be able to identify how they benefited from having a discussion with someone else.*

Why do you think scientists want to more accurately predict the spread of invasive species? *Because when invasive species spread, they affect ecosystem services. This means they change the benefits provided to people by ecosystems.*

### Discussion

How do you think sharing different opinions on a topic would help scientists better understand invasive species? *Use an example from your own life to help you explain. Because the scientists had different areas of expertise, their combined thoughts and ideas made for a much more complete understanding of how the spread of invasive species might be better predicted.*

Why do you think it is important for scientists to coordinate their efforts? *It is important for scientists to coordinate their efforts so that they do not waste time duplicating efforts and so that they work most efficiently.*

## Fill Those Potholes!

### Introduction

The United States Congress created two programs to help restore land to its natural state. By creating these programs, Congress recognized that some ecosystem services are at least as important as the services provided by agricultural crops or other uses of land. Review the list of ecosystem services in the first