

Understanding Our Environment

When someone mentions the term *environment*, some people think of a beautiful scene, such as a stream flowing through a wilderness area or a rain forest canopy alive with blooming flowers and howling monkeys. You might not think of your backyard or neighborhood as part of the environment. In fact, the environment is everything around us. It includes the natural world as well as things produced by humans. But the environment is also more than what you can see—it is a complex web of relationships that connects us with the world we live in.

What Is Environmental Science?

There is a growing need to understand the environment as a whole, including both its biological and physical features. A wide variety of people contribute to this understanding of the environment, including high school students. In the 1990s, students from Keene High School in **Figure 1.1** studied dwarf wedge mussels in the Ashuelot River of New Hampshire. The mussels, which were once abundant in the river, were in danger of disappearing, and the students wanted to know why. The students tested water samples from different parts of the river, conducted experiments, and asked questions.

The students' efforts were highly praised and widely recognized. More importantly, their work contributed to an ongoing community effort that still works toward the preservation of the endangered dwarf wedge mussel. The students' work is just one example of a field called **environmental science**, the study of the environment that includes the physical, biological, and social sciences.

SECTION 1

Objectives

- ▶ Define environmental science, and compare environmental science with ecology.
- ▶ List the five major fields of study that contribute to environmental science.
- ▶ Describe the major environmental effects of hunter-gatherers, the agricultural revolution, and the Industrial Revolution.
- ▶ Distinguish between renewable and nonrenewable resources.
- ▶ Classify environmental problems into three major categories.

Key Terms

environmental science
ecology
agriculture
natural resource
pollution
biodiversity

FIGURE 1.1

Student Scientists These students are counting the dwarf wedge mussels in part of the Ashuelot River.



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