

# Answers to “Caring for the Land” Activity Sheets

## **Soil Erosion**

- Problem: soil erosion
- Cause: overgrazing, removing vegetation cover from soil
- Effect(s): soil washes or blows away
- Solution: rotational grazing, no-till farming
- New problem: increased labor and infrastructure needs with rotational grazing, overuse of pesticides may cause water pollution

## **Chemical Fertilizers and Pesticides**

- Problem: chemical pollution
- Cause: using chemical fertilizers and pesticides
- Effect(s): increase production, pollute water, harm non-target organisms
- Solution: integrated pest management (IPM)
- New problem: none identified in text, but students may recognize that IPM and precision farming could require new, specialized equipment or increase labor requirements

## **Wetlands**

- Problem: loss of wetlands
- Cause: draining or filling in wetlands
- Effect(s): flooding, loss of habitat for wildlife, loss of natural water purification
- Solution: passing laws to protect wetlands
- New problem: people are unable to use their property as they wish