

Project Learning Tree
Hike through the Guide
Exploring Environmental Issues: Focus on Forests



1. Where is the copyright information located and what are the stipulations for reprinting PLT materials?
2. What are the four objectives for students who participate in the activities from this guide?
3. What is the triple bottom line of sustainability?
4. What is the difference between carbon sequestration and carbon sink?
5. What are the six major sections in the Focus on Forests guide?
6. How do you know if a word can be found in the glossary?
7. What are PLT's goals?
8. Where can you find correlations to national academic standards in science and social studies?
9. Name two activities that help to teach mathematics.
10. When does a nonnative species become an invasive species?
11. Where can you find information about the conceptual framework for PLT? What five themes are addressed through PLT's activities?
12. What are four major challenges facing our forests today?
13. Where can you find information on field trip safety?
14. Name an activity that can be used in a Government and Politics class.

15. What is one way a teacher might use the student primer, Forests Are More Than Trees, found on pages 17-28?
16. What are the 7 Forest Health Indicators used in Activity 1, Monitoring Forest Health?
17. What six primary ecosystem services do forests provide?
18. Of the total forestland in the United States, what percentage of it is privately versus publicly owned?
19. What are the 7 components that make up an environmental issue?
20. Globally, how many forest/climate domains are recognized by the Food and Agriculture Organization of the United Nations and what are they? Which forest type do we live in?

PLT sponsored in [state name] by [PLT local sponsor].

Project Learning Tree
Hike through the Guide Answers
Exploring Environmental Issues: Focus on Forests
Answers

1. Where is the copyright information located and what are the stipulations for reprinting PLT materials without permission?
Inside the front cover. Only student pages may be reproduced without permission.
2. What are the four primary objectives for students who participate in the activities from this guide?
Page 13, Objectives of the Module
 - *Identify the ecosystem services that forests provide.*
 - *Define forest health, and describe different ways to monitor it.*
 - *Describe how economic and social systems play a role in managing forests for a variety of uses.*
 - *Explain how natural and human influences—including climate change, fire, forest ownership, invasive species, and succession—affect forests.*
3. What is the triple bottom line of sustainability?
Environmental, social, and economic issues and ideals must be integrated into decision-making and actions that affect forests, while taking into account both future and present needs. Forests are More Than Trees student pages, page 27.
4. What is the difference between carbon sequestration and carbon sink?
Carbon sequestration is the removal and storage of CO₂ from the air by plants. A carbon sink occurs when the amount of sequestration exceeds the release of carbon over a specific period of time. Activity #8, page 133 or Glossary, page 151.
5. What are the six major sections in the Focus on Forests guide?
Acknowledgements, About PLT, Why Study Forests?, Background Information, Student Activities, and Appendices.
6. How do you know if a word/term can be found in the glossary?
It is highlighted in bold and italics type.
7. What are PLT's goals?
See About PLT, page 7.
8. Where can you find correlations to national academic standards in science and social studies?
Appendix E (science) and Appendix F (social studies)
9. Name two activities that help to teach mathematics.
Four activities teach math: Monitoring Forest Health, Who Owns America's Forests, Forest to Faucet, and Climate Change and Forests

10. When does a nonnative species become an invasive species?
A nonnative species becomes invasive when it overruns or outcompetes native species in a natural ecosystem and causes ecological or economic problems. Activity #7, page 115 or Glossary, page 154.
11. Where can you find information about the conceptual framework for PLT? What five themes are addressed through PLT's activities?
Appendix B; Diversity, Interrelationships, Systems, Structure and Scale, and Patterns of Change
12. What are four major challenges facing our forests today?
Invasive species, fire, climate change, and changes in ownership and land use. Forests are More Than Trees student pages, page 18.
13. Where can you find information on field trip safety?
Appendix G
14. Name an activity that can be used in a Government and Politics class.
*Story of Succession OR Climate Change and Forests
Subject Area Correlation, pg 15*
15. What is one way a teacher might use the student primer, Forests Are More Than Trees, found on pages 17-28?
Teacher Page, Background Information, pg 16
16. What are the 7 Forest Health Indicators used in Activity 1, Monitoring Forest Health?
*Tree Crown and Condition, Forest Diversity, Lichen Abundance, Soil Condition, Regeneration, Snags and Coarse Woody Debris, and Wildlife
Forest Health Summary Student Page, pg 51*
17. What six primary ecosystem services are provided by forests?
Clean water, oxygen, nutrient cycling, carbon storage, temperature regulation and rainfall, and wildlife habitat. Forests are More Than Trees student pages, page 17.
18. Of the total forestland in the United States, what percentage of it is privately versus publicly owned?
*Private – 56.3% versus Public – 43.6%
Activity 3, pg 68*
19. What are the 7 components that make up an environmental issue?
*Issue, Facts, Players, Positions, Values, Opinions, and Solutions
Activity 4 Student Page, pg 80*
20. Globally, how many forest/climate domains are recognized by the Food and Agriculture Organization of the United Nations and what are they? Which forest type do we live in?
5 domains; tropical, subtropical, temperate, boreal, and polar. Forests are More Than Trees student pages, page 25.