



Forestry

Merit Badge Workbook

This workbook is not required but is designed to help you with this merit badge. No one can add or subtract from the Boy Scout Requirements #33215. Use page backs & add pages as needed. Please send comments to: craig@craiglincoln.com. Requirements revised: 2006, Workbook updated: January 2006.

Scout's Name: _____ Unit: _____

Counselor's Name: _____ Counselor's Ph #: _____

1. Prepare a field notebook, make a collection, and identify 15 species of trees, wild shrubs, or vines in a local forested area. Write a description in which you identify and discuss the following:
 - a. The characteristics of leaf, twig, cone, or fruiting bodies
 - b. The habitat in which these trees, shrubs or vines are found.
 - c. The important ways each tree, shrub, or vine is used by humans or wildlife and whether the species is native or was introduced to the area. If it is not native, explain whether it is considered invasive or potentially invasive.
2. Do ONE of the following:
 - a. Collect and identify wood samples of 10 species of trees. List several ways the wood of each species can be used.
 - b. Find and examine three stumps, logs, or core samples that show variations in the growth rate of their ring patterns. In the field notebook you prepared for requirement 1, describe the location or origin of each example (including elevation, aspect, slope, and the position on the slope), and discuss possible reasons for the variations in growth rate. Photograph or sketch each example.
 - c. Find and examine two types of animal, insect, or damage on trees. In the field notebook you prepared for requirement 1, identify the damage, explain how the damage was caused, and describe the effects of the damage on the trees. Photograph or sketch each example.
3. Do the following:
 - a. Describe contributions forests make to:
 1. Our economy in the form of products. _____

 2. Our social well-being, including recreation _____

 3. Soil protection and increased fertility. _____

 4. Clean water. _____

 5. Clean air. (carbon cycling, sequestration) _____

 6. Wildlife habitat _____

 7. Fisheries habitat _____

 8. Threatened and endangered species of plants and animals _____

6. Do the following:

a. Describe the consequences to forests that result from FIVE of the following elements:

wildfire, _____

absence of fire, _____

insects, _____

tree diseases, _____

air pollution, _____

overgrazing, _____

deer or other wildlife overpopulation, _____

improper harvest, _____

and urbanization. _____

b. Explain what can be done to reduce the consequences you discussed in 6a. _____

c. Describe what you should do if you discover a forest fire _____

and how a professional firefighting crew might control it. _____

Name your state or local wildfire control agency. _____

7. Visit one or more local foresters and write a brief report about the person (or persons). Or, write about a forester's occupation including the education, qualifications, career opportunities, and duties related to forestry.

Req. 1A-1D: Field Notebook Collection Identifying 15 Species of Trees (Sample page)

<p style="text-align: center;"><i>Attach sample here</i></p> <p>Species: _____ Habitat: _____ Characteristics : _____ Uses: _____ Native/Invasive? _____</p>	<p style="text-align: center;"><i>Attach sample here</i></p> <p>Species: _____ Habitat: _____ Characteristics : _____ Uses: _____ Native/Invasive? _____</p>
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Req. 2A: Field Notebook Collection Identifying 10 Wood Samples *(Sample page)*

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Req. 2B: Field Notebook Investigating Several Stumps or Logs *(Sample page)*

<p>Location: _____ Variations: _____ Possible Reasons _____ _____ _____</p>	<p>Location: _____ Variations: _____ Possible Reasons _____ _____ _____</p>
<p>Location: _____ Variations: _____ Possible Reasons _____ _____ _____</p>	<p>Location: _____ Variations: _____ Possible Reasons _____ _____ _____</p>
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