



Forestry

Merit Badge Worksheet

2008 Rev. Created
by Craig Long 2013

Scouts Name _____

Date _____

Counselor's Name _____

Counselor's Phone # _____

Complete

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:
See notebook at back of worksheet.

Complete

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.

Species of tree	Ways the wood can be used
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	

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.

Complete

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 _____

b. Tell which watershed or other source your community relies on for its water supply. _____

Complete

4. Describe what forest management means, including the following:

a. Multiple-use management _____

b. Sustainable forest management _____

c. Even-aged and uneven-aged management and silvicultural systems associated with each type. _____

d. Intermediate cuttings. _____

e. The role of prescribed burning and related forest management practices. _____

Complete

5. With your parent's and counselor's approval, do ONE of the following:

a. Visit a managed public or private forest area with its manager or a forester familiar with it. Write a brief report describing the type of forest, the management objectives, and the forestry techniques used to achieve the objectives. Tell about your visit _____

b. Take a trip to a logging operation or wood-using industrial plant and write a brief report describing:

1. The species and size of trees being harvested or used and the location of the harvest area or manufacturer.
2. The origin of the forest or stands of trees being utilized (e.g., planted or natural)
3. The forest's successional stage. What is its future?
4. Where the trees are coming from (land ownership) or where they are going (type of mill or processing plant)
5. The products that are made from the trees
6. How the products are made and used.
7. How waste materials from the logging operation or manufacturing plant are disposed of or utilized.

c. Take part in a forest-fire prevention campaign in cooperation with your local fire warden, state wildfire agency, forester, or counselor. Write a brief report describing the campaign, how it will help prevent wildfires, and your part in it

Complete

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.

Element	Describe the consequences
1	
2	
3	
4	
5	

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

Element	Reduce the consequences
1	
2	
3	
4	
5	

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. _____

Complete

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. _____

Field Guide

Requirement 1.

Sample 1	
Characteristics	
Habitat	
Uses	
Native ?	
Invasive ?	

Sample 2	
Characteristics	
Habitat	
Uses	
Native ?	
Invasive ?	

Sample 3	
Characteristics	
Habitat	
Uses	
Native ?	
Invasive ?	

Sample 4	
Characteristics	
Habitat	
Uses	
Native ?	
Invasive ?	

Sample 5	
Characteristics	
Habitat	
Uses	
Native ?	
Invasive ?	
Sample 7	
Characteristics	
Habitat	
Uses	
Native ?	
Invasive ?	
Sample 9	
Characteristics	
Habitat	
Uses	
Native ?	
Invasive ?	

Sample 6	
Characteristics	
Habitat	
Uses	
Native ?	
Invasive ?	
Sample 8	
Characteristics	
Habitat	
Uses	
Native ?	
Invasive ?	
Sample 10	
Characteristics	
Habitat	
Uses	
Native ?	
Invasive ?	

Sample 11	
Characteristics	
Habitat	
Uses	
Native ?	

Sample 12	
Characteristics	
Habitat	
Uses	
Native ?	
Invasive ?	

Sample 13	
Characteristics	
Habitat	
Uses	
Native ?	
Invasive ?	

Sample 14	
Characteristics	
Habitat	
Uses	
Native ?	
Invasive ?	

Sample 15	
Characteristics	
Habitat	
Uses	
Native ?	
Invasive ?	

Requirement 2.b.

Example 1	
Growth Rate	
Elevation	
Aspect	
Slope	
Positon	
Reason for Variation ?	

Example 2	
Growth Rate	
Elevation	
Aspect	
Slope	
Positon	
Reason for Variation ?	

Example 3	
Growth Rate	
Elevation	
Aspect	
Slope	
Positon	
Reason for Variation ?	

Requirement

2. c

Tree Damage	
Cause	
Effect	

Tree Damage	
Cause	
Effect	