



**Requirement #1:** Prepare a field notebook, make a collection, and identify 15 species of trees or 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 or 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.

**Requirement #2:** Do **ONE** of the following:

- a. Collect and identify wood samples of 10 species of trees. List several ways each species of wood can be used.
- b. Find and examine several stumps or logs that show variations in growth rate in 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.**

**DAMAGE TYPE 1**

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**DAMAGE TYPE 2**

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**Requirement #3: Do the following:**

**A. Describe contributions forest make to:**

**1. Our economy in the form of products.**

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**2. Our social well-being, including recreation**

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**3. Soil protection and increased fertility.**

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**4. Clean Water**

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

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**6. Wildlife habitat**

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**7. Fisheries habitat**

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**8. Threatened and endangered species of plants and animals.**

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**B. Tell which watershed or other source your community relies on for its water supply.**

**Requirement #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 someone familiar with it. Write a brief report describing the type of forest, the management objectives, and the forestry techniques used to achieve the objectives.:**

Type of Forest:

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Management Objectives:

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Forestry techniques used to achieve the objectives:

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- b. With a knowledgeable individual, visit a logging operation or wood-using manufacturing plant. Write a brief report describing the following.
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.

**Requirement #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.**

**1. Wildfire:**

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**2. Absence of Fire:**

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**3. Insects:**

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**4. Tree diseases:**

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**5. Air Pollution:**

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**6. Over Grazing:**

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**7. Over Population Deer/Wildlife:**

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**8. Improper Harvest:**

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**9. Urbanization:**

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# SCOUT MERIT BADGE CLASS FORESTRY

Scouts Name: \_\_\_\_\_

Troop Number: \_\_\_\_\_

Date: \_\_\_\_\_