



Please contact the Learning Center Coordinator and let us know you are interested in the Scout Ranger Program at Flight 93 National Memorial. We will answer questions and provide further information to help you work toward the patch or certificate.

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## Forestry



### Requirements:

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 who 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. C. Find and examine two types of animals, insect, or disease damage to 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 the 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) Fisheries habitat
    - 7) Threatened and endangered species of plants and animals
  - b. Tell which watershed or other source your community relies on for its water supply.

7. Do the following:

- a. Describe the consequences to forests that result from FIVE of the following elements: wildfire, absence of fire, destructive insects, loss of pollinating insect population, 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 7a.
- 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.

