



Forestry

Merit Badge Requirements

- 1) Prepare a field notebook, make a collection, and identify 15 species of trees or wild shrubs in a local forested area. Include a written description of:
 - A) Identifying characteristics of leaf, twig, and fruit samples
 - B) The habitat in which these trees or shrubs are found
 - C) Chief ways each tree or shrub is used by human or wildlife
 - D) The forest's successional stage, what its history has been and what its future is

- 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. Prepare a field notebook describing their location and discuss possible reasons for the variations.

- 3) Be able to do the following:
 - A) Describe contributions forests make to:
 - * Our economy in the form of products
 - * Our social well-being
 - * Soil protection and increased fertility
 - * Clean Water
 - * Clean Air
 - * Wildlife
 - * Recreation
 - B) Tell which watershed or other source your community relies on for its water supply.

- 4) Be able to describe what forest management means, including:
 - A) Multiple-use management
 - B) Even-aged and uneven-aged management and silvicultural systems associated with each type
 - C) Intermediate cuttings
 - D) How prescribed burning and related forest management practices are used

- 5) 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
 - * The forestry techniques used to achieve the objectives
 - B) Take a trip to a logging operation or wood-using industrial plant and write a brief report describing:
 - * The species and size of trees being harvested or used
 - * Where the trees are going to or coming from
 - * What products are made from the trees or at the plant
 - * How the products are made
 - * How the products are used
 - * How waste materials from the logging operation or plant are disposed of or utilized

- 6) Be able to do the following:
 - A) Describe the damages to forests that result from:
 - * Wildfire
 - * Insects
 - * Tree disease
 - * Overgrazing
 - * Improper Harvest
 - B) Tell what can be done to reduce these damages.
 - C) Tell what you should do if you discover a forest fire and how to control it.

Scout Name: _____ Unit #: _____ Date: _____

7) Do ONE of the following:

A) Assist in carrying out a project that meets one or more of these objectives: timber stand improvement, watershed improvement, wildlife habitat improvement, recreation improvement, or range improvement.

B) Take part in a forest fire prevention campaign in cooperation with your local fire warden, forester, or counselor.

C) Visit with one or more local foresters and write a brief report including education, qualifications, career opportunities, and objectives relating to forestry.

Requirement 1

In the spaces below, make a collection of trees or wild shrubs. You can use drawings, photos or even a piece of the tree as a part of your collection. Fill out the required information for each of the 15 collected pieces.

Species: _____

Characteristics of leaf:

Characteristics of twig:

Characteristics of fruit:

Habitat where this is found: _____

How it is used by humans or wildlife: _____

The forests successional stage / history: _____

Species: _____

Characteristics of leaf:

Characteristics of twig:

Characteristics of fruit:

Habitat where this is found: _____

How it is used by humans or wildlife: _____

The forests successional stage / history: _____

Scout Name: _____ Unit #: _____ Date: _____

Species: _____

Characteristics of leaf:

Characteristics of twig:

Characteristics of fruit:

Habitat where this is found: _____

How it is used by humans or wildlife: _____

The forests successional stage / history: _____

Species: _____

Characteristics of leaf:

Characteristics of twig:

Characteristics of fruit:

Habitat where this is found: _____

How it is used by humans or wildlife: _____

The forests successional stage / history: _____

Scout Name: _____ Unit #: _____ Date: _____

Species: _____

Characteristics of leaf:

Characteristics of twig:

Characteristics of fruit:

Habitat where this is found: _____

How it is used by humans or wildlife: _____

The forests successional stage / history: _____

Species: _____

Characteristics of leaf:

Characteristics of twig:

Characteristics of fruit:

Habitat where this is found: _____

How it is used by humans or wildlife: _____

The forests successional stage / history: _____

Scout Name: _____ Unit #: _____ Date: _____

Species: _____

Characteristics of leaf:

Characteristics of twig:

Characteristics of fruit:

Habitat where this is found: _____

How it is used by humans or wildlife: _____

The forests successional stage / history: _____

Species: _____

Characteristics of leaf:

Characteristics of twig:

Characteristics of fruit:

Habitat where this is found: _____

How it is used by humans or wildlife: _____

The forests successional stage / history: _____

Scout Name: _____ Unit #: _____ Date: _____

Species: _____

Characteristics of leaf:

Characteristics of twig:

Characteristics of fruit:

Habitat where this is found: _____

How it is used by humans or wildlife: _____

The forests successional stage / history: _____

Species: _____

Characteristics of leaf:

Characteristics of twig:

Characteristics of fruit:

Habitat where this is found: _____

How it is used by humans or wildlife: _____

The forests successional stage / history: _____

Scout Name: _____ Unit #: _____ Date: _____

Species: _____

Characteristics of leaf:

Characteristics of twig:

Characteristics of fruit:

Habitat where this is found: _____

How it is used by humans or wildlife: _____

The forests successional stage / history: _____

Species: _____

Characteristics of leaf:

Characteristics of twig:

Characteristics of fruit:

Habitat where this is found: _____

How it is used by humans or wildlife: _____

The forests successional stage / history: _____

Scout Name: _____ Unit #: _____ Date: _____

Species: _____

Characteristics of leaf:

Characteristics of twig:

Characteristics of fruit:

Habitat where this is found: _____

How it is used by humans or wildlife: _____

The forests successional stage / history: _____

Species: _____

Characteristics of leaf:

Characteristics of twig:

Characteristics of fruit:

Habitat where this is found: _____

How it is used by humans or wildlife: _____

The forests successional stage / history: _____

Scout Name: _____ Unit #: _____ Date: _____

Species: _____

Characteristics of leaf:

Characteristics of twig:

Characteristics of fruit:

Habitat where this is found: _____

How it is used by humans or wildlife: _____

The forests successional stage / history: _____

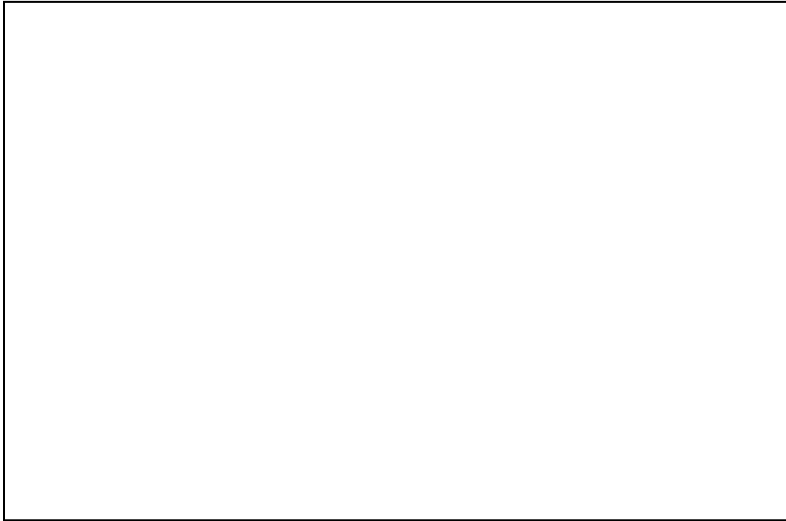
Requirement 2

You have been given two options for this requirement. Select and complete one of them.

If you selected *Option A*:

Use the areas below to show your collection of 10 species of trees. For the ten items you collected you can draw, paste or put a photo of it in each area. Next to each sample, list the ways each species of wood can be used.

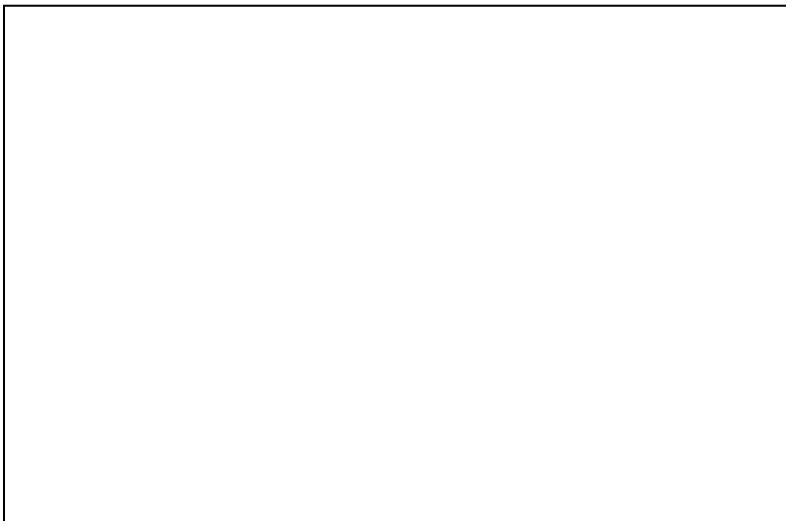
Species: _____



Ways this species can be used:

- 1) _____
- 2) _____
- 3) _____
- 4) _____
- 5) _____
- 6) _____
- 7) _____

Species: _____



Ways this species can be used:

- 1) _____
- 2) _____
- 3) _____
- 4) _____
- 5) _____
- 6) _____
- 7) _____

Scout Name: _____ Unit #: _____ Date: _____

Species: _____

Ways this species can be used:

- 1) _____
- 2) _____
- 3) _____
- 4) _____
- 5) _____
- 6) _____
- 7) _____

Species: _____

Ways this species can be used:

- 1) _____
- 2) _____
- 3) _____
- 4) _____
- 5) _____
- 6) _____
- 7) _____

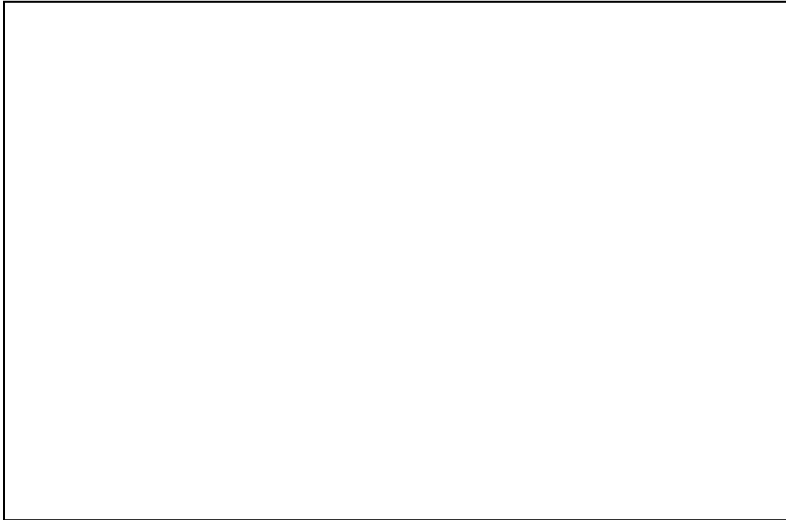
Species: _____

Ways this species can be used:

- 1) _____
- 2) _____
- 3) _____
- 4) _____
- 5) _____
- 6) _____
- 7) _____

Scout Name: _____ Unit #: _____ Date: _____

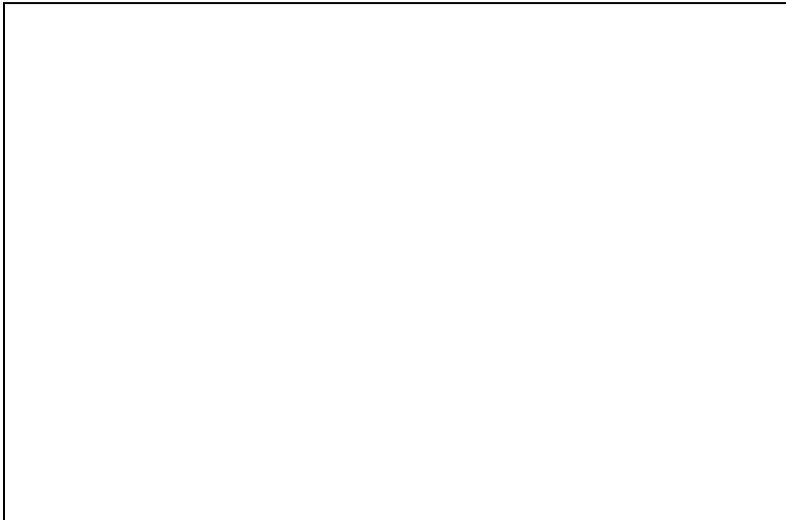
Species: _____



Ways this species can be used:

- 1) _____
- 2) _____
- 3) _____
- 4) _____
- 5) _____
- 6) _____
- 7) _____

Species: _____



Ways this species can be used:

- 1) _____
- 2) _____
- 3) _____
- 4) _____
- 5) _____
- 6) _____
- 7) _____

Species: _____

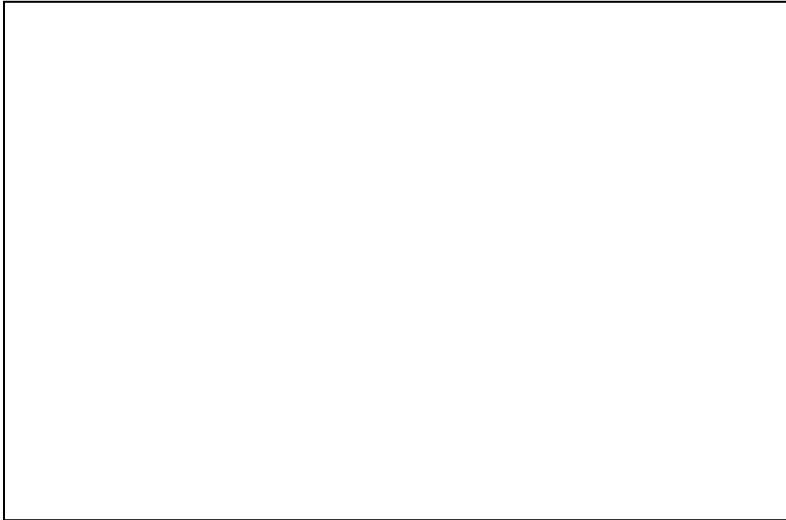


Ways this species can be used:

- 1) _____
- 2) _____
- 3) _____
- 4) _____
- 5) _____
- 6) _____
- 7) _____

Scout Name: _____ Unit #: _____ Date: _____

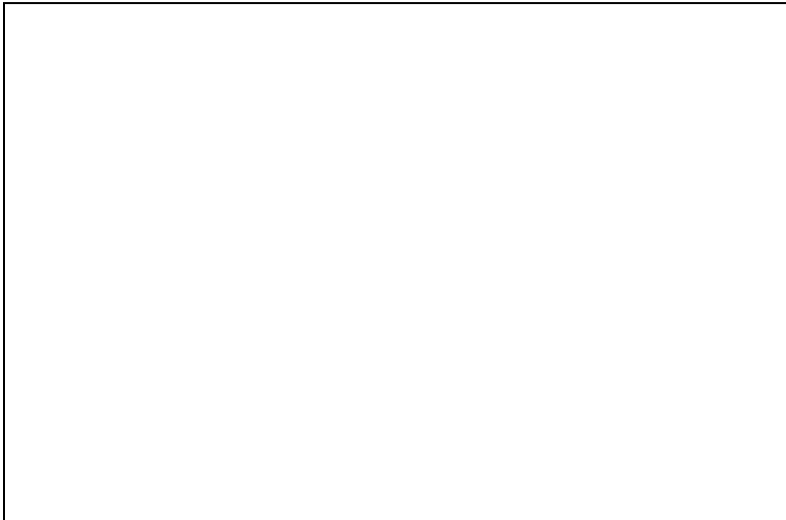
Species: _____



Ways this species can be used:

- 1) _____
- 2) _____
- 3) _____
- 4) _____
- 5) _____
- 6) _____
- 7) _____

Species: _____



Ways this species can be used:

- 1) _____
- 2) _____
- 3) _____
- 4) _____
- 5) _____
- 6) _____
- 7) _____

If you selected **Option B**:

Use the following areas to catalog several stumps or logs that show variations in growth rate in their ring patterns. Use the area to draw in or paste in a photograph of the log you are describing.

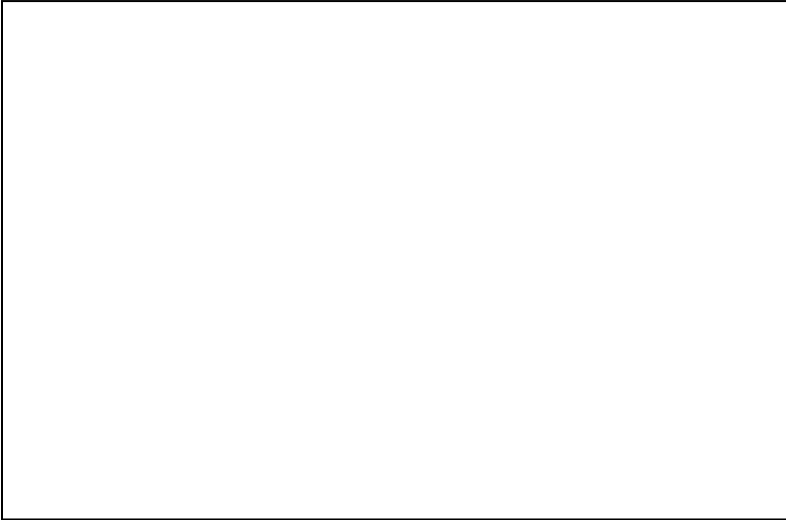
Scout Name: _____ Unit #: _____ Date: _____

Location Found: _____



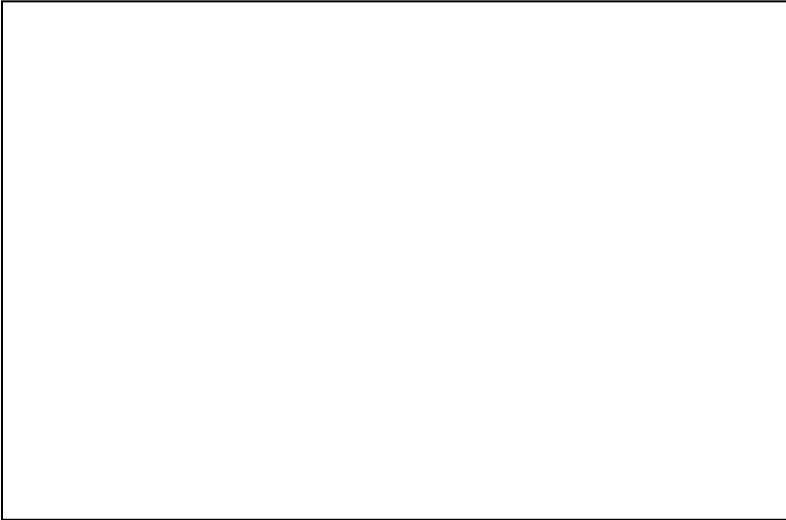
Possible reasons for the variations in ring pattern: _____

Location Found: _____



Possible reasons for the variations in ring pattern: _____

Location Found: _____



Possible reasons for the variations in ring pattern: _____

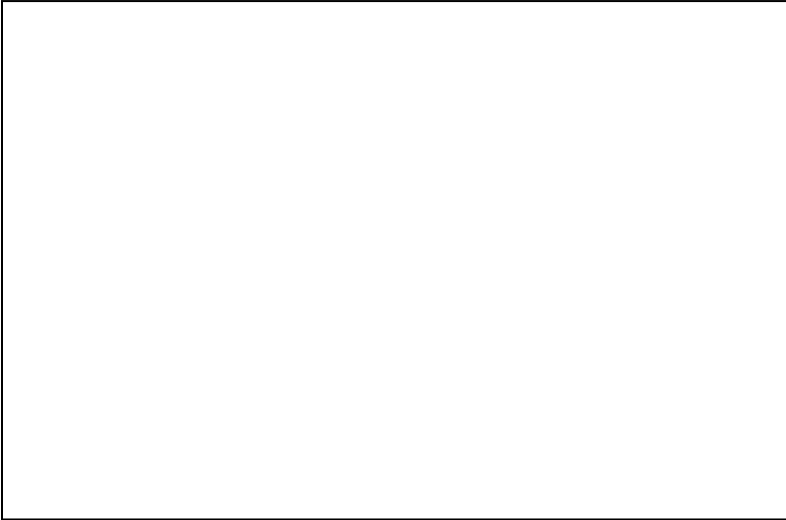
Scout Name: _____ Unit #: _____ Date: _____

Location Found: _____



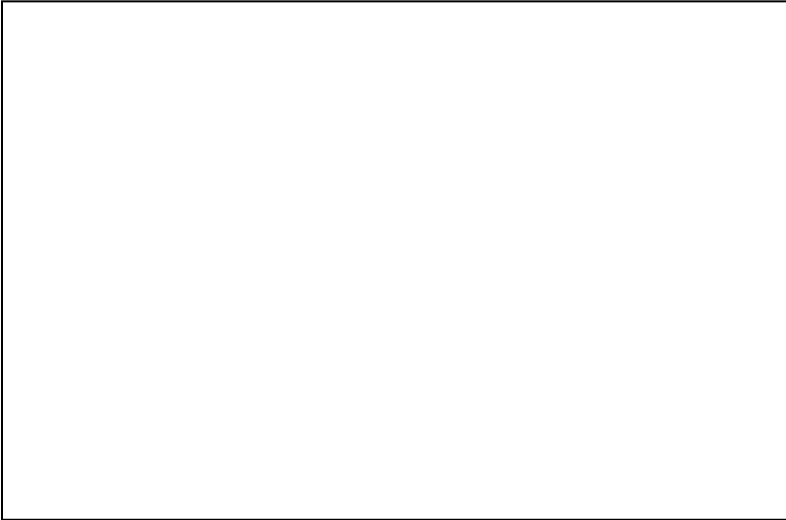
Possible reasons for the variations in ring pattern: _____

Location Found: _____



Possible reasons for the variations in ring pattern: _____

Location Found: _____



Possible reasons for the variations in ring pattern: _____

Requirement 3

Describe the contributions forests make to the following:

Our economy in the form of products: _____

Our social well being: _____

Soil protection and increased fertility: _____

Clean Water: _____

Clean Air: _____

Wildlife: _____

Recreation: _____

Which watershed or other source does your community rely on for its water supply? _____

Requirement 4

Describe what forest management means for each of the following areas:

Multiple-use management: _____

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

Intermediate cuttings: _____

How prescribed burning and related forest management practices are used: _____

Requirement 5

You have been given two options for this requirement. Select and complete one of them.

If you selected **OPTION A**:

Visit a managed public or private forest area with its manager or someone familiar with it. Answer the following questions:

What type of forest did you visit: _____

What are the management objectives of this forest? _____

What are the forestry techniques used to achieve the objectives? _____

Write a brief summary of your experience: _____

If you selected **OPTION B**:

Take a trip to a logging operation or wood-using industrial plant. Answer the following questions:

What were the species and sizes of the trees being harvested or used? _____

Where were the trees going to or coming from? _____

What products are made from the trees or at the plant? _____

How are the products made? _____

How are the products used? _____

How are the waste materials disposed of or utilized? _____

Write a brief summary of your experience: _____

Requirement 6

Describe the damages to forests that result from:

Wildfire: _____

Insects: _____

Tree Disease: _____

Overgrazing: _____

Improper Harvest: _____

What can be done to reduce these damages? _____

What should you do if you discover a forest fire? _____

How do you control a forest fire? _____

Requirement 7

You have been given three options for this requirement. Select and complete one of them.

If you selected *Option A*:

Assist in carrying out a project that meets on or more of these objectives: timber stand improvement, watershed improvement, wildlife habitat improvement, recreation improvement, or range improvement.

Which project did you do? _____

Give a brief summary of your experience: _____

