

Fish and Wildlife Management / Forestry

Prepared by:

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Target Group:

Any Camper

Time Allotted:

1-Hour Activity Period

Pre-Requisites:

FaWM requirement 7

Materials Needed – Staff:

Lab equipment for dissection, 3 species of fish per week, career information, bird feeder supplies, endangered species trading cards

Materials Needed – Scout:

Pencil and Paper
Environmental Science Merit Badge Pamphlet

Instructional Goal:

Upon completion of this activity the scout will possess a good introductory base of knowledge in Fish and Wildlife Management. This includes understanding of the purpose of fish and wildlife management, careers in fish and wildlife management, current issues in fish and wildlife management and practices used in fish and wildlife management. Scouts will be able to apply their knowledge learned by taking place in population studies and fishery labs. This activity will provide scouts with first hand, hands-on experience the fisheries and wildlife fields.

And,

Upon completion of this activity the scout will possess a good introductory base of knowledge in Forestry Management. This includes understanding of the purpose of forestry management, careers in forestry management, current issues forestry management and practices used in forestry management. Scouts will be able to apply their knowledge learned by participating in forest clean up and management activities.

MONDAY

(FaWM)Requirement 1:

Describe the meaning and purposes of fish and wildlife conservation and management.

(FaWM)Requirement 2:

List and discuss at least three major problems that continue to threaten your state's fish and wildlife resources.

(FaWM)Requirement 3:

Describe some practical ways in which everyone can help with fish and wildlife conservation.

(Forestry)Requirement 1:

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.

(Forestry)Requirement 2a:

(a) Collect and identify wood samples of 10 species of trees. List several ways the wood of each species can be used.

The wood sample crate together with the tree poster can be used

TUESDAY

(FaWM)Requirement 4:

List and describe five major fish and wildlife management practices used by managers in your state.

(FaWM)Requirement 8:

Research and write about 3 different kinds of work done by fish and wildlife managers. Find out the education and training requirements for each position. Use the resources provided by the Department of Conservation as well as other resources available for this project. Once all scouts are done, have them share what they found out.

(FaWM)Requirement 5b:

Construct, erect, and check regularly bird feeders and keep written records daily over a two-week period of the kinds of birds visiting the feeders.

(Forestry)Requirement 3:

- (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) 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.

(Forestry)Requirement 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 the silvicultural systems associated with each
 - (d) Intermediate cuttings
 - (e) The role of prescribed burning and related forest-management practices

WEDNESDAY

(FaWM)Requirement 5b:

Once roll is taken, take scouts to sit near a feeder. They need to hide themselves so the wildlife cannot see them. Scouts will spend the activity period observing and keeping record of the birds that visit the feeder and how long they visit for.

THURSDAY

(FaWM)Requirement 5b:

Have scouts share their observations from Wednesday with the group.

(FaWM)Requirement 6b:

List the wildlife species in your state that are classified as endangered, threatened, exotic, game species, furbearers, or migratory game birds. *Use the trading cards to help complete this task.*

(Forestry)Requirement 5a:

(a) Visit a managed public or private forest area with the manager or a forester who is familiar with it. Write a brief report describing the type of forest, the management objectives, and the forestry techniques used to achieve the objectives.

(Forestry)Requirement 6:

In your camp, local recreation area (park or equivalent), or neighborhood, inventory the trees that may be a hazard to structures or people. Make a list by area (campsite, road, trail, street, etc.). Note the species and hazardous condition and suggest a remedy (removal or trimming). Make your list available to the proper authority or agency.

FRIDAY

(FaWM)Requirement 8:

Identify three career opportunities that would use skills and knowledge by sh and wildlife professionals. Pick one and research the training, education, certification requirements, experience, and expenses associated with entering the field. Research the prospects for employment, starting salary, advancement opportunities and career goals associated with this career. Discuss what you learned with your counselor and whether you might be interested in this career

(Forestry)Requirement 7:

(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.

(Forestry)Requirement 8:

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.