

# Forestry Curriculum Guidelines

## Canon Envirothon 2011

### Forestry Key Points

- 1F. Identify common trees without a key and identify specific or unusual species of trees or shrubs through the use of a key.
- 2F. Understand forest ecology concepts and factors affecting them, including the relationship between soil and forest types, tree communities, regeneration, competition, and succession.
- 3F. Understand the cause and effect relationship of factors affecting tree growth and forest development (climate, insects, microorganisms, wildlife, etc.).
- 4F. Understand how wildlife habitat relates to forest communities, forest species, forest age and structure, snags and den trees, availability of food, and riparian zones.
- 5F. Understand how the following issues are affected by forest health and management: biological diversity, forest fragmentation, air quality, aesthetics, fire, global warming, and recreation.
- 6F. Understand basic forest management concepts and tools such as how various silvicultural practices are utilized, the use of tree measuring devices, and the best use of management practices.
- 7F. Apply silvicultural concepts and methods to develop general management recommendations and goals for a particular situation.
- 8F. Identify the complex factors that influence forest management decisions (e.g., economic, social, and ecological).
- 9F. Understand the value of trees in urban/suburban settings and the factors affecting their health and survival.
- 10F. Describe specific adaptations of wildlife to their environment and their role in the ecosystem.