# Forestry Study Guide 2018

## Expectations

Students are expected to:

* Identify common trees without a key and identify specific or unusual species of trees or shrubs through the use of a key
* Understand forest ecology concepts and factors affecting them, including the relationship between soil and forest types, tree communities, regeneration, competition, and succession
* Understand the cause/effect relationship of factors affecting tree growth and forest development (climate, insects, microorganisms, etc.)
* Understand how wildlife habitat relates to forest communities, forest species, forest age structure, snags and den trees, availability of food, and riparian zones
* Understand the value of trees in urban and suburban settings and factors affecting their health and survival
* Understand how the following issues are affected by forest health and management: biological diversity, forest fragmentation, air quality, fire, and recreation
* Understand basic forest management concepts and tools such as: how various silvicultural practices are utilized, the use of tree measuring devices, and best management practices
* Identify complex factors which influences forest management decisions (economics, social, and ecological)
* Apply silviculture concepts and methods to develop general management recommendations for a particular situation and management goals

## Study Materials

The study references listed are not an exhaustive list of sources from which test questions are drawn.  Students are expected to research other sources for more information according to the learning objectives.

**​Measuring Standing Trees:**

<https://woodlandstewards.osu.edu/sites/woodlands/files/d6/files/pubfiles/0035%20-%20measuring%20trees.pdf>

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**Harvesting and Reproduction Methods for Ohio Forests:**

<https://woodlandstewards.osu.edu/sites/woodlands/files/imce/sawmill/factsheets/0047%20-%20harvesting.pdf>

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**Enhancing Food (Mast) Production for Woodland Wildlife in Ohio:**

<https://woodlandstewards.osu.edu/sites/woodlands/files/d6/files/pubfiles/0060-mast.pdf>

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**Ohio's Top Invasive Plants:**

<http://ohiodnr.gov/invasiveplants>

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**Incorporating Wildlife Needs into Forest Management Plans:**

<https://woodlandstewards.osu.edu/sites/woodlands/files/imce/0001.pdf>

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**Common Ohio Trees:**

<http://forestry.ohiodnr.gov/trees>

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**Ohio Forestry Facts:**

<https://forestry.ohiodnr.gov/portals/forestry/pdfs/ohioforestryfacts.pdf>

###### ​**2018 Test Writer:**

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