

SUSTAINABLE FOREST MANAGEMENT

SILVICULTURE: the art and science of managing forests for desired outcomes, such as wildlife habitat, aesthetics, and timber production. This is accomplished by applying different types of cuttings at different times in the forest's development. Silvicultural systems are based on the biological requirements of the trees.

Overview—What is Silviculture?

<https://www.youtube.com/watch?v=j72u9i8IAjY> (video ≈ 9 minutes)



Foresters use a variety of silvicultural treatments, depending on the desired outcomes for the forested land.

Regeneration Treatments:

Even-aged, Uneven-aged (*descriptions*)

<http://www.dof.virginia.gov/manage/hardwood/even-uneven-age.htm>

Even-Aged management

Shelterwood, Seed-Tree, Clearcutting

<https://www.thoughtco.com/even-aged-harvesting-methods-1343323>

When is it OK to clearcut? (video ≈ 3 ½ minutes)

<https://www.youtube.com/watch?v=E9N3Abhlw3w>

Uneven-Aged management

Single Tree (Individual tree) Selection, Group Selection

<https://climate-woodlands.extension.org/uneven-aged-silvicultural-systems/>

Intermediate Treatments:

See separate PDF in April Materials Release:

[Intermediate Treatments-Wisconsin](#)

(Wisconsin Woodlands—Intermediate Cuttings in Forest Management)

The following suggested resources are linked at
ctenvirothon.org/study-guides/forestry/

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For detailed information on silviculture, regeneration treatments, and intermediate treatments view this Power Point from a 2018 Forestry Workshop lecture:

- An Introduction to Silviculture-By Thomas E Worthley (2018) (PDF)

Forest Management on Connecticut Lands

- Why We Manage Connecticut State Forests (PDF)
- Forest Management on State Lands

DEEP Photos—Before and After Treatments

- Oak Shelterwood
- Oak Irregular Shelterwood
- Clearcut
- Thinning