

Literature SG0244 – Silviculture – the science of forest stand management

The course will use selected chapters from the textbooks below, as well as papers that will be connected to specific lectures. All literature will be available in digital form during the course.

Pretzsch H, 2009 Forest Dynamics, Growth and Yield, chap. 1, 2, 4, 6, 10 and 11.

Landsberg, J. and P. Sands. 2011. Physiological ecology of forest production: principles, processes and models. Terrestrial Ecology. Elsevier Chap. 2, 3, 4, 7, 8, 9

Pommerening A, Grabarnik P, 2019. Individual based methods in forest ecology and management, Springer, Chap. 1-5

For students with limited or rusty previous knowledge in Swedish/boreal forest management we suggest some useful preparatory material below:

Savill et al. 1997. **Plantation silviculture in Europe**, <https://www.adlibris.com/se/bok/plantation-silviculture-in-europe-9780198549086>

Lundqvist, L. 2017. Tamm Review: Selection system reduces long-term volume growth in Fennoscandic uneven-aged Norway spruce forests. Forest Ecology and Management, 391, 362–375. <http://doi.org/10.1016/j.foreco.2017.02.011>

The Swedish Forestry Model Royal Swedish Academy of Agriculture and Forestry, 2015.. https://www.skogsstyrelsen.se/globalassets/in-english/forests-and-forestry-in-sweden_2015.pdf

Normark, E. 2015. **The art of growing forests – Holmen’s path to sustainable forest management**. <https://www.holmen.com/globalassets/skog/foldrar-och-broschyror/the-art-of-growing-forests-pdf/>

This book describes sustainable forest management and silviculture from the perspective of one of the largest forest companies in Sweden.

Sustainable Forestry – the Swedish model <https://www.youtube.com/watch?v=D0uAIOT66Wo>

This film explains how the Swedish forestry is governed to be sustainable. Copyright: Swedish University of Agricultural Sciences