

## Trees to Lumber

Activities for the day:

1. Talk
2. Milling of 2 logs, if time allows:
3. Either forest walk or felling of a tree
4. Shopping for lumber

Steps from trees to lumber:

Planning

Forests of Massachusetts

**Forested acres:** 3.22 million

**Percent of total area forested:** 64%

Forest management

Chapter 61

Getting ready

Tools

Chain saw

Other tools

Safety

Tractor/skidder

What to cut

Common local species

A few words about poplar

- What the lumber yards call poplar: *Liriodendron tulipifera*—known as the **tulip tree**, **American tulip tree**, **tuliptree**, **tulip poplar**, **whitewood**, **fiddletree**, and **yellow-poplar**- Wiki
- What Ralph sells as poplar: *Populus tremuloides* AKA **quaking aspen**,<sup>[1][2][3]</sup> **trembling aspen**,<sup>[1][2]</sup> **American aspen**,<sup>[2]</sup> **Quakies**,<sup>[1]</sup> **mountain or golden aspen**,<sup>[4]</sup> **trembling poplar**,<sup>[4]</sup> **white poplar**,<sup>[4]</sup> **popple**,<sup>[4]</sup> and even more names- Wikipedia
- John Sillick's critique of "true" or "white" poplar in Fine Woodworking: (see text) may be because he had tension wood as pictured in Understanding Wood)(see text)

Tree selection

- Reaction wood- slide 2
- Species
- Size
- Accessibility
- Two types of reaction wood: Tension wood- forms on deciduous trees, Compression wood- forms on conifers

To avoid reaction wood - slide 3

Felling trees - slide 4 & 5

Getting logs to the sawmill

A little about sawmills

Milling lumber -

Plane sawn, quarter sawn, rift cut- slide 6

What is shown in books vs reality- slides 7 & 8

Air drying - slide 9

Stickering

Seasoning

Marketing lumber

## REFERENCES:

Ralph Southwick can be contacted regarding lumber sales at: 978-355-4042

Online:

Compression wood:

<https://books.google.com/books?id=VfuWr1KxrGYC&pg=PA161&lpg=PA161&dq=how+to+avoid+reaction+wood+when+harvesting+trees+for+lumber&source=bl&ots=qW6MhNFeLU&sig=35G7PxWcxuMf2hl1ws5e1KCqYAA&hl=en&sa=X&ved=0ahUKEwiAyl7hndLWAhXog1QKHfW9B54Q6AEIYDAJ#v=onepage&q&f=false>

Cutting and selling your own trees:

<https://www.canr.msu.edu/for/uploads/files/extension/facts5.pdf>

Harvest practices:

<http://aese.psu.edu/teachag/school-based-support/instruction/forest-management/harvest>

Milling stressed trees:

<http://www.trees2money.com/how-to-de-stress-stressed-out-trees-when-sawmilling/>

Norwood Sawmills:

<http://www.norwoodsawmills.com>

Chapter 61:

<https://masswoods.net/sites/masswoods.net/files/Ch-61-Web.pdf>

Forests of Massachusetts:

[https://www.fs.fed.us/nrs/pubs/ru/ru\\_fs57.pdf](https://www.fs.fed.us/nrs/pubs/ru/ru_fs57.pdf)

Forestry Forum:

<http://www.forestryforum.com/gallery/index.php>

Books and magazines:

Understanding Wood by R. Bruce Hoadley

Collapse by Jared Diamond

Tulip:Wallflower at the Hardwood Ball- Fine Woodworking #102 Oct. 1993