





Hardwood Management

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Stand Evaluation

Intermediate Operations
or
Regenerate

Do you have enough trees of appropriate species and form that are capable of increasing in value?

- If so, then intermediate stand management is warranted.
- If not, then take measures to regenerate the stand

Concepts

- Do Not Cut Yourself Out of Business
- Sustainable Practice
- Controlling Density

Intermediate Operations

- Thinning
- Timber Stand Improvement (TSI)
- Crop Tree Management

What is Thinning?

- Cuttings made in *immature stands* for the purpose of utilizing material that otherwise might be lost before rotation age by "capturing" *mortality* and to redistribute growth to fewer, more desirable stems

Thinning

- Reduces crowding through altering the environment (physical space and sunlight received) of the remaining trees
- By redistributing growth potential to the most desirable trees, the overall health, vigor and growth of the stand is increased

When to Thin?

- Closed Canopy --- when adjacent tree crowns begin to overlap
- Live Crown Ratios --- are less than 33 percent
- Diameter Growth Rates begin to decrease

What to Thin?

- Unwanted Species
- Poor Form
- Slow growth

Thinning Process

- Select Crop Trees
- Determine Trees to Remove
- Release Crop Trees on at least two sides
- Number or size of trees to remain (optimum spacing)

Thinning is NOT a regeneration
method

Perpetuating Residual Trees to
give them more room to grow
and increase in value

**Natural Regeneration
of
Hardwood Forests**

video

natural regeneration
