

Woody Plant Selection

*Finding the right plant
for the right place*



- Value of trees
- Information resources
- Appropriate tree selection
- Diversity of woody plants available
- Purchasing and care



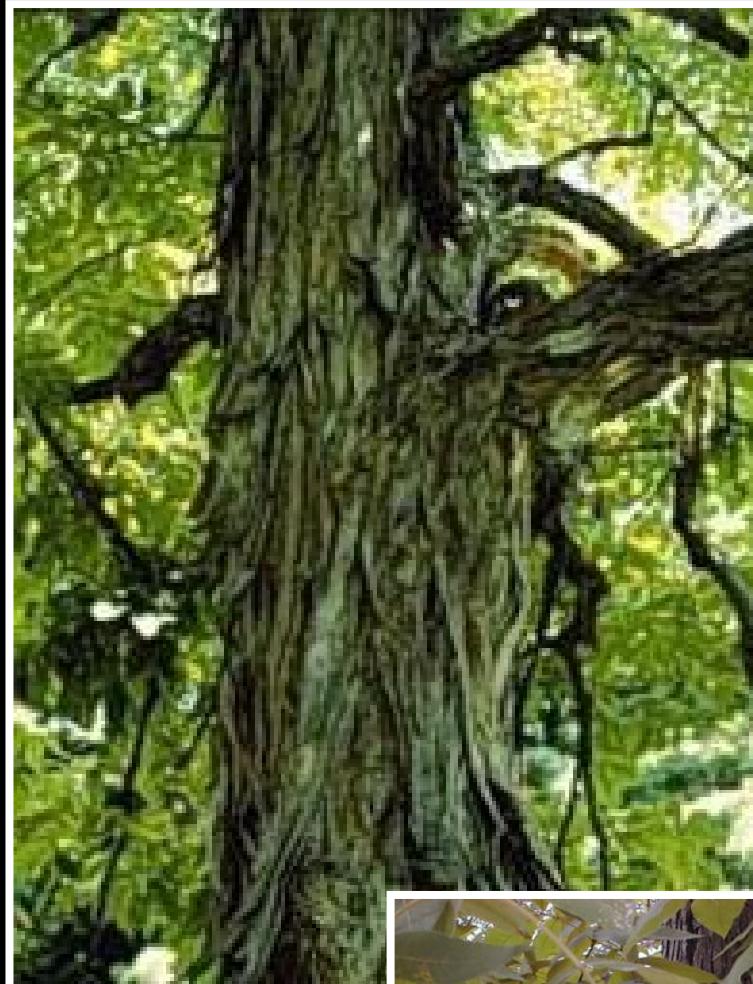




Catalpa



White Pine



**Shagbark
Hickory**





What are your recommended
landscape trees and shrubs?

*In any given region of the
United States, 40 shrubs and
trees make up 90% plus of
the landscape plantings.*

—J.C. Raulston

Lack of Diversity

- Boring
- Environmentally and horticulturally unsound
 - Promotes disease
 - pest infestation
 - Loss of natural habitat



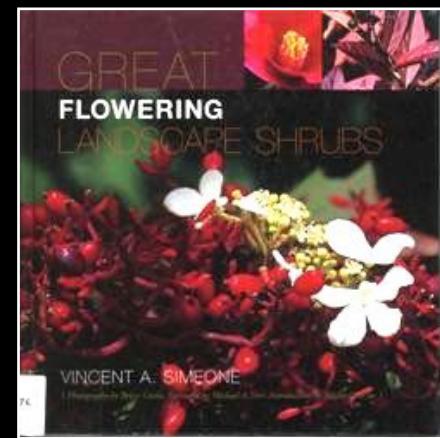
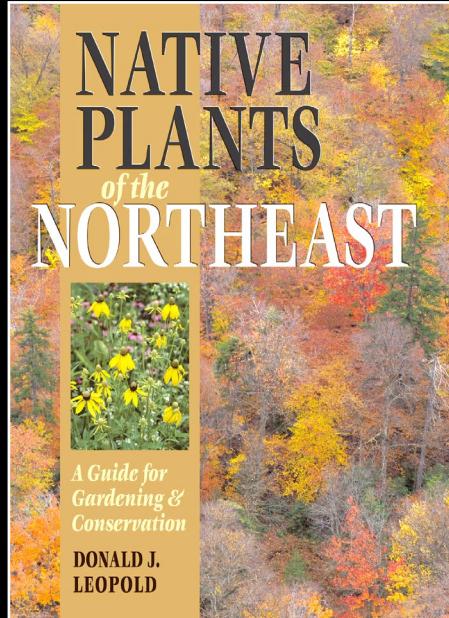
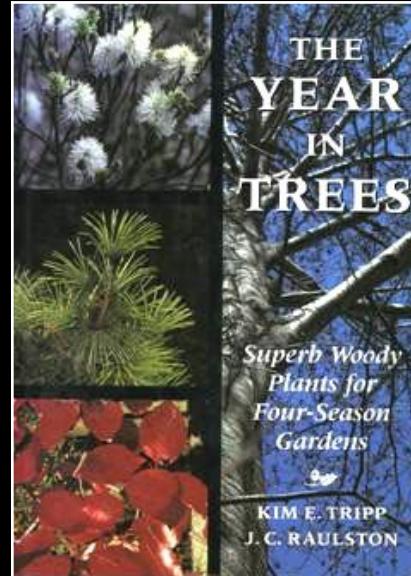
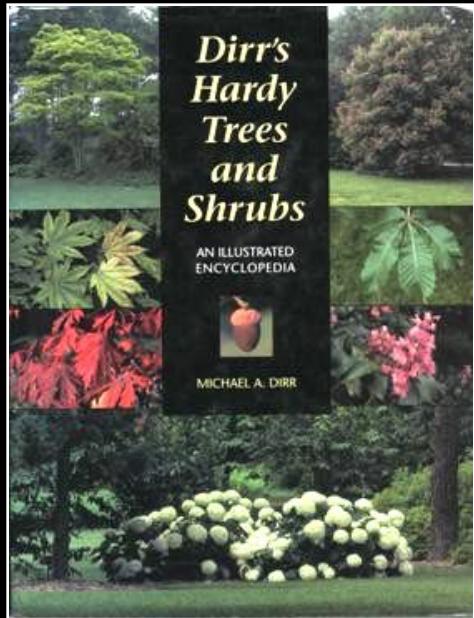
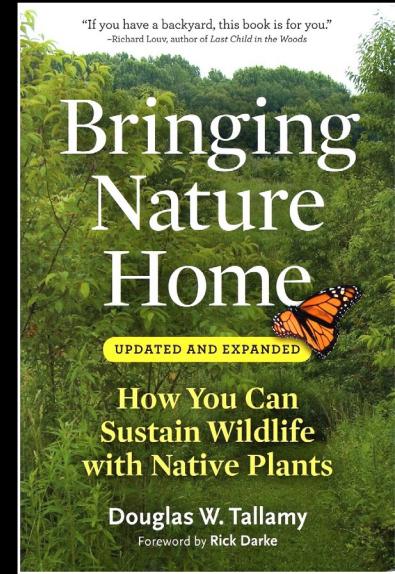
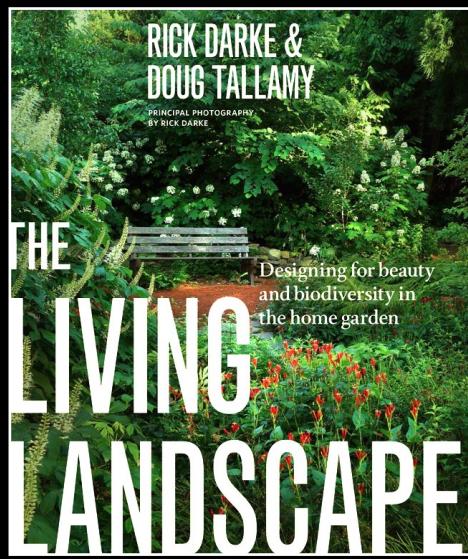
Explore!

Cornell Cooperative Extension

- *Gardening in Orange County*: our own local gardening newsletter
- <http://www.gardening.cornell.edu/>
- Internet : **use discretion**
 - .edu, .org preferable to .com
 - fact sheets
 - similar growing conditions

Resources

- Michael Dirr
- Kim E. Tripp and
- J.C. Raulston
- Vincent A. Simeone
- Doug Tallamy
- Donald J Leopold



Great Flowering
Landscape Shrubs

Visit Area Gardens

- Local gardens
 - Orange County Arboretum
 - OCCC Campus
 - Skylands Botanical Gardens
 - NY Botanical Gardens, Wave Hill
 - The Desmond Campus of Mt Saint Mary College
 - Brooklyn Botanic Garden

Explore in all seasons



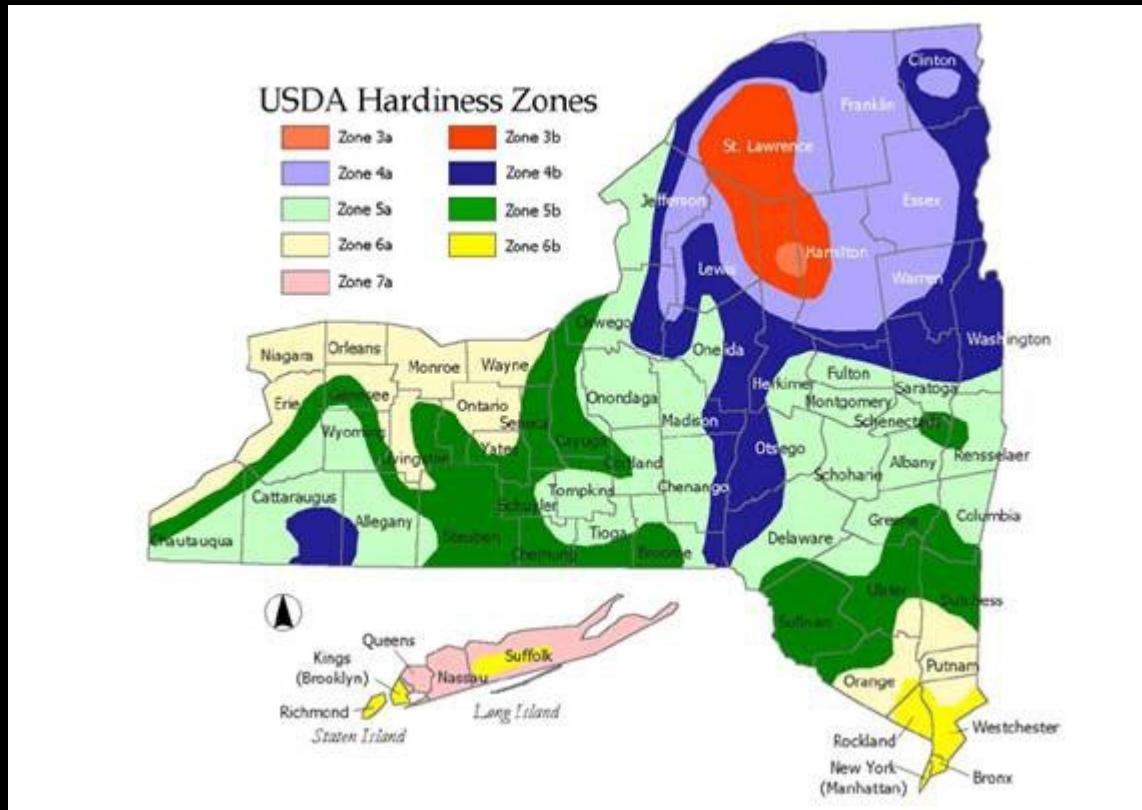




Analyze the site:

What do you know?

Hardiness zone



- Zone refers to AVERAGE *minimum* temperatures
- Heat tolerance considers maximum temperatures

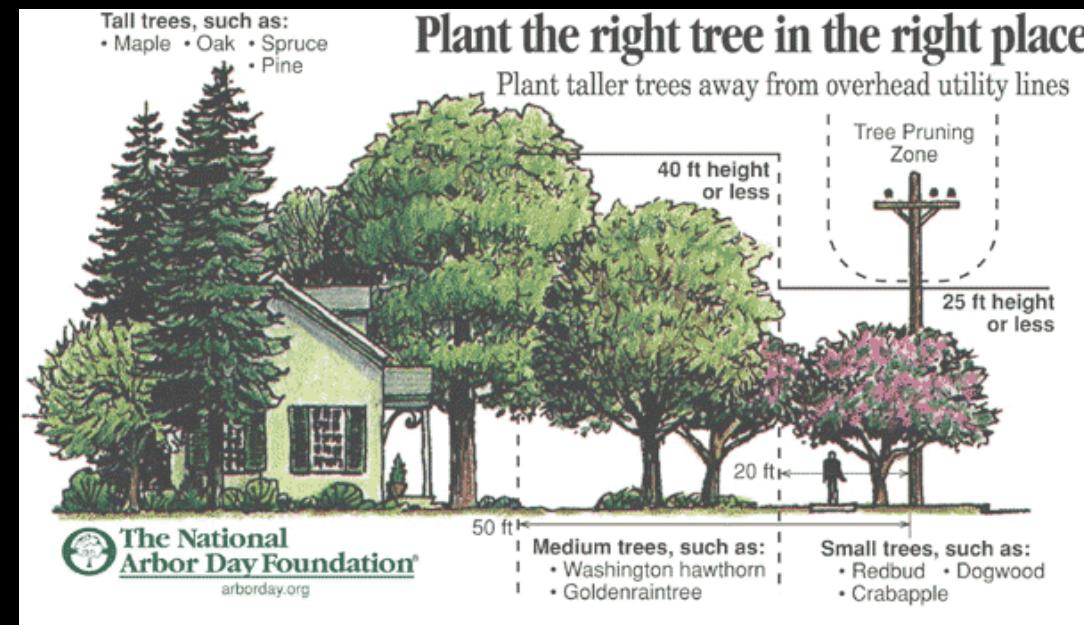
Specifics

- Microclimates:
 - Windy or sheltered?
 - Near a large water mass?
- Moisture : wet, dry, accessible to hose?
- Soil type and condition
 - Drainage or perk
 - Organic matter
 - pH
 - Majority: 5.5-7.0
 - Andromeda, rhododendron, blueberry, mountain laurel, azaleas

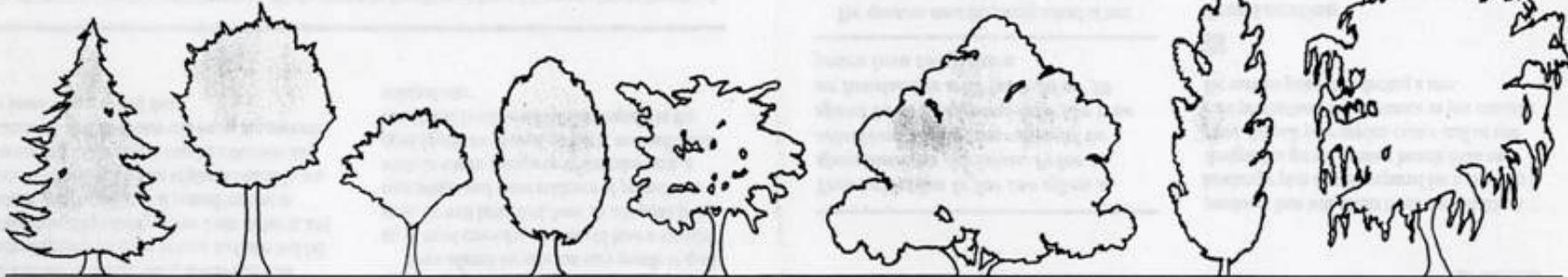
Require acid conditions: 4.5-5.5

Size limitations

- Lateral space available
 - Near a foundation?
 - Driveway?
 - Underground hazards: wires, cables, gas lines, etc?
- Height restrictions
 - Building overhangs?
 - Overhead wires?



Plant Form



Pyramid Round Vase Oval Spreading Layered Columnar Weeping



Both trees are sugar maples
Acer saccharum

Left: Cultivar: 'Green Mountain'
Right : *A. saccharum v. columnaris*

Light

- Heavy shade
- Dappled Shade
- Part Sun
 - Morning sun
 - Afternoon (western) sun
- Full Sun

Reasonable modifications of site

- Thin the canopy above
- Mulch
- Drainage
- Add organic matter (smaller plants)

Limiting Factors

- Zone
- Space available
- Moisture extremes
- Available light
- Soil factors

Aesthetics

- Form and size
- Winter interest:
 - bark, berries, seeds, evergreen, contorted branches?
- Flowering:
 - color, fragrance, season, duration
- Leaves:
 - color, seasonal color, persistence, shape, size

Purpose

- Shade
- Foundation
- Border property
- Privacy
- Environmental:
 - Wildlife Habitat
 - Native
 - Energy saving: cooling in summer, wind break



Why plant trees?

Economic:

- boost the market value of your home
- increase property values
- reduce annual heating and cooling costs



Environment

- Absorb Carbon
- Reduced flooding
- Improve water quality



Health





The right tree for the right place.



Beautiful.