LONGWOOD GARDENS

October 25, 2014

Pruning for Performance

Tyler Altenburger

Our Mission

Longwood Gardens is the living legacy of Pierre S. du Pont, inspiring people through excellence in garden design, horticulture, education and the arts.

Our Vision

Longwood Gardens is one of the great gardens of the world. We strive for innovation in horticulture and display.

We present the arts in an unparalleled setting to bring pleasure and inspire the imagination of our guests.

We contribute to society through excellent and diverse education programs, horticultural research, environmental stewardship, and cultural and community engagement.

Horticulture

Orchid Extravaganza

Spring Blooms

Summer Spectacular

Autumn’s Colors

A Longwood Christmas

Education

Performing Arts

Fisher-Price

CRAFTSMAN

An Illustrated Guide to
Pruning
THIRD EDITION
Edward F. Gilman
Copyrighted Material

- Timing
- Tools needed
- Importance of pictures
- Evaluate/inspect
  - Defects
    - Included bark
    - Crossing/conflicting limbs
    - Deadwood/diseased
  - Structure
    - Central leader
    - Scaffold limbs
    - Crown raising
- Pruning basics
- Developmental pruning examples
- Planting/nursery choice

Timing

Loadall

PREVENT OAK WILT
Don't Prune in
May or June!
MINNESOTA DEPARTMENT OF AGRICULTURE
OAK WILT CONTROL PROGRAM
NAEGELE
UGA5034086

UGA4215061

Tools Needed

William Fountain, University of Kentucky, Bugwood.org
5388243

Chris Schnepf, University of Idaho, Bugwood.org
UGA1170002

Take Pictures!

Tree Defects

5375266

Joseph O'Brien, USDA Forest Service, Bugwood.org
UGA1301011

COLD BEER
FOOD
BEER
PIZZA
SPAGHETTI
UGA5040093

Crossing / Conflicting Limbs

Deadwood

Establish a Central Leader

5390006

Identify scaffold limbs – this will be the main structure of the tree when mature.

“Shorten all branches below the lowest scaffold limb often enough so they remain smaller than half the trunk diameter.” – Edward F. Gilman

“Often, there are no permanent limbs on a newly planted tree. All are temporary and will (or should) be removed as the tree grows taller.”
– Edward F. Gilman

5444886

5505357

RED
OAK
UGA1480416

Crown Raising

5388323

5388340

UGA2141036

UGA2714004

UGA1397112

295127
AJF
AJF
Air Ride Equipped
P
5421901

STOP

Pruning Basics

UGA1399119

UGA1397121

UGA5042084

UGA1397110

UGA1397135

UGA1397126

5421890

UGA5048053

UGA1397115

UGA1408030

5377059

Three Step Pruning Cut

Trunk
Branch Weight

Branch Weight
Blade caught
in kerf

Branch Weight
Kerf

25

Jeep

1,500 years old!!!

Rachel McCarthy, Cornell University - NEPDN, Bugwood.org
5458341

Multi-Stemmed
Weeping
Columnar

Pyramidal
Full-Crowned
Vase
Fountain
Spreading

Healthy Structure

Poor Structure

Tree tied with flexible material
Root flare is at or above ground level and mulch is not against it
Staked on either side of tree
Mulch 2 to 4 inches thick
Hole is backfilled with soil that was removed from planting hole
Planting hole 2 to 3 times the diameter of the root ball
Burlap and wire cage remvoed from root ball

LONGWOOD GARDENS

Step out of your world and into ours. . .
Experience Longwood

Visit us anytime at longwoodgardens.org

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