

Shade Trees



Shade Trees

Master Gardener Core Training

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USDA Plant Hardiness Zone Map



Arkansas
Hardiness
Zones

6 north
7 central
8 south

Shade trees should be:

- Look up when planting a tree
- Fall planting is best
- Container grown plants can plant at any season
- Keep large shade trees at least 15 feet from a building
- Prune trees while young to prevent future problems

Sugar Maple

Hard Maple



- *Acer saccharum*
- Height 60 feet
- Spread 30 feet
- Rate of Growth - slow to medium
- Hardy zones 3-7
- Easily transplanted
- Trees are shallow rooted
- Great fall color
- Not for south Arkansas

Sugar Maple



Red Maple



- *Acer rubrum*
- Height 45 feet
- Spread 35 feet
- Rate of growth - fast
- Hardy zones 4 to 8
- Named selections have good fall color ‘October Glory’ and ‘Red Sunset’, etc.
- Good in suburban sites
- May be shallow rooted



Red Maple



Japanese Maple



- *Acer palmatum*
- Height 8 - 25 feet
- Spread 10 -25 feet
- Rate of growth - very slow
- Hardy zones 5 - 9
- Beautiful specimen tree available in purple or green forms; cutleaf or palmate leaves.

Cutleaf Japanese Maple



Viridis Japanese Maple





Pin Oak

- *Quercus palustris*
- Height 65 feet
- Spread 35 feet
- Rate of growth - medium
- Hardy zones 5 - 8
- The most common oak in the nursery trade. Lower limbs droop. Easily transplanted.

Pin Oak





Northern
Red Oak



Shumard Oak

Willow Oak



- *Quercus phellos*
- Height 100 feet
- Spread 80 feet
- Rate of growth – medium to fast
- Hard zones 6 - 9
- Where a really big tree is needed this is one of the best. Easily transplanted. Good for parks and large properties.

Willow Oak





Japanese Sawtooth Oak
Quercus acutissima



Two subclasses of oaks

Arkansas has over 40 species

- **Red oaks**

- always have a spine on the leaf
- acorns mature in two years
- wood is porous across grain

- **White Oak**

- leaves never have a spine
- acorns mature in one year
- wood is porous with the grain

White Oak

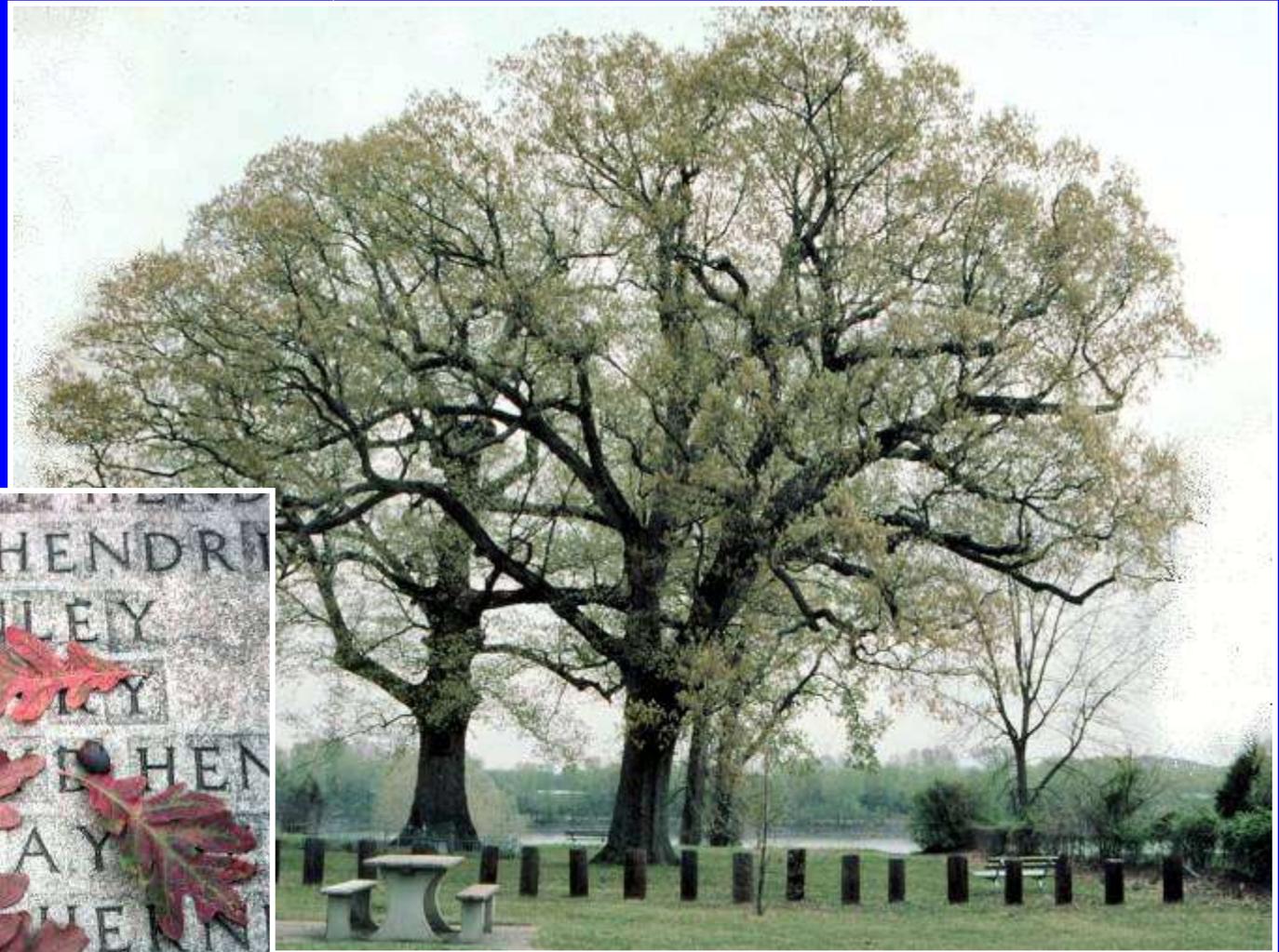
Wye Mills Maryland

- *Quercus alba*
 - Height 100 feet
 - Spread 120 feet
 - Growth rate-slow
 - Hardy zones 4 - 9
 - Difficult to transplant so not common in nursery trade.
- Trees may live to be 500+ years old.



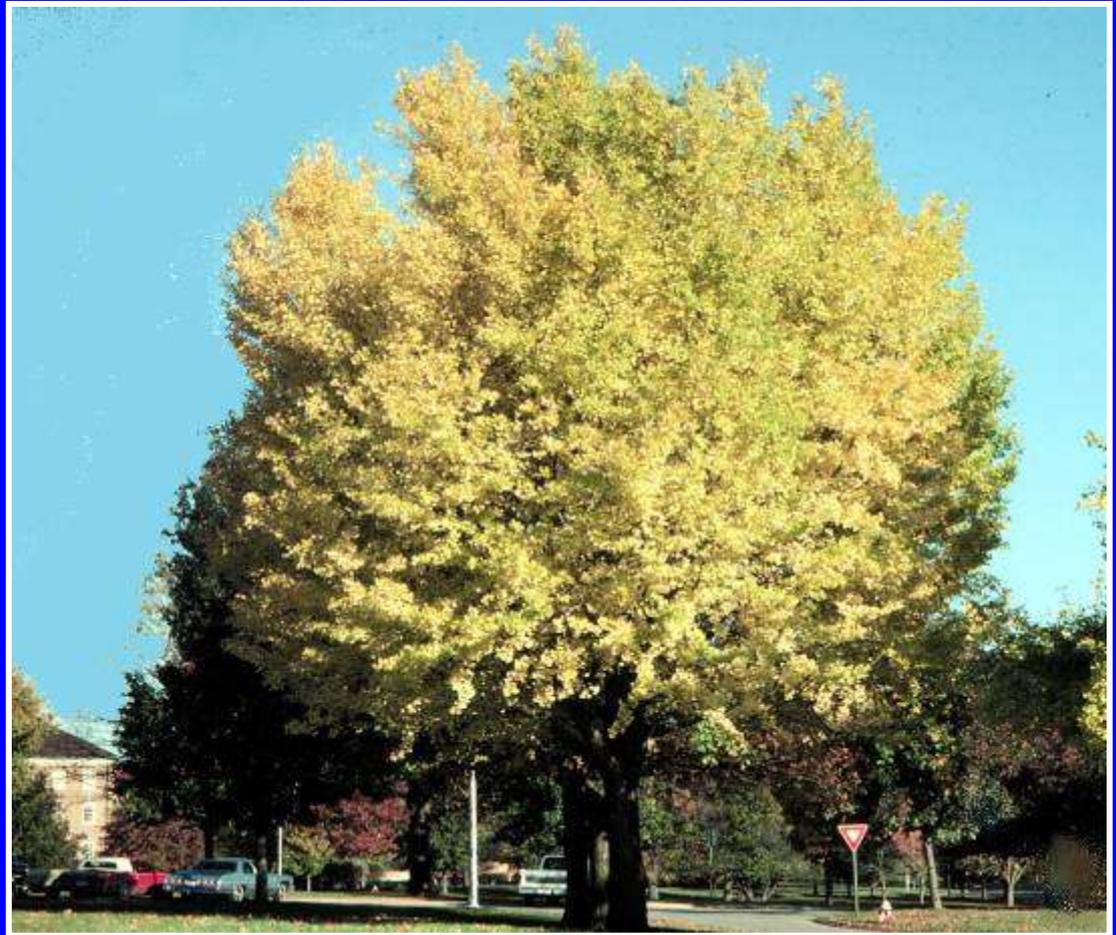
White Oak

Council Oaks, Dardanelle, AR



- *Ginkgo biloba*
- Height - 60 feet
- Spread - 30 feet
- Rate of growth - slow
- Hardy zones 5 - 9
- Fossil tree 150+ million years old. Deciduous conifer. Male forms are best for landscape usage.

Ginkgo



Ginkgo



Sweetgum

- *Liquidambar styraciflua*
- Height - 50 feet
- Spread - 25 feet
- Growth rate - fast
- Hardy zones 5 - 9
- Good fall color
- Very adaptable tree
- Shallow rooted
- Sweet gum balls!!!





Sweetgum and Fruitless Sweetgum



Tulip Poplar

- *Liriodendron tulipifera*
- Height - 150 feet
- Spread - 70 feet
- Growth rate - fast
- Hardy zones 4 - 9
- Good tree for large sites but needs deep, moist, fertile soil to do its best.



Tulip Poplar





London Plane Tree

- *Platanus acerifolia*
- Height 60 feet
- Spread 60 feet
- Growth rate – fast
- Resistant to Sycamore Anthracnose
- A tough tree for difficult sites





River Birch

- *Betula nigra*
- 40 feet tall
- 20 feet wide
- Growth rate – fast
- A native tree usually found in wet areas
- Pest resistant
- May drop most of leaves in a dry spot in August
- Often grown with multiple trunks

Heritage Birch





Black Gum

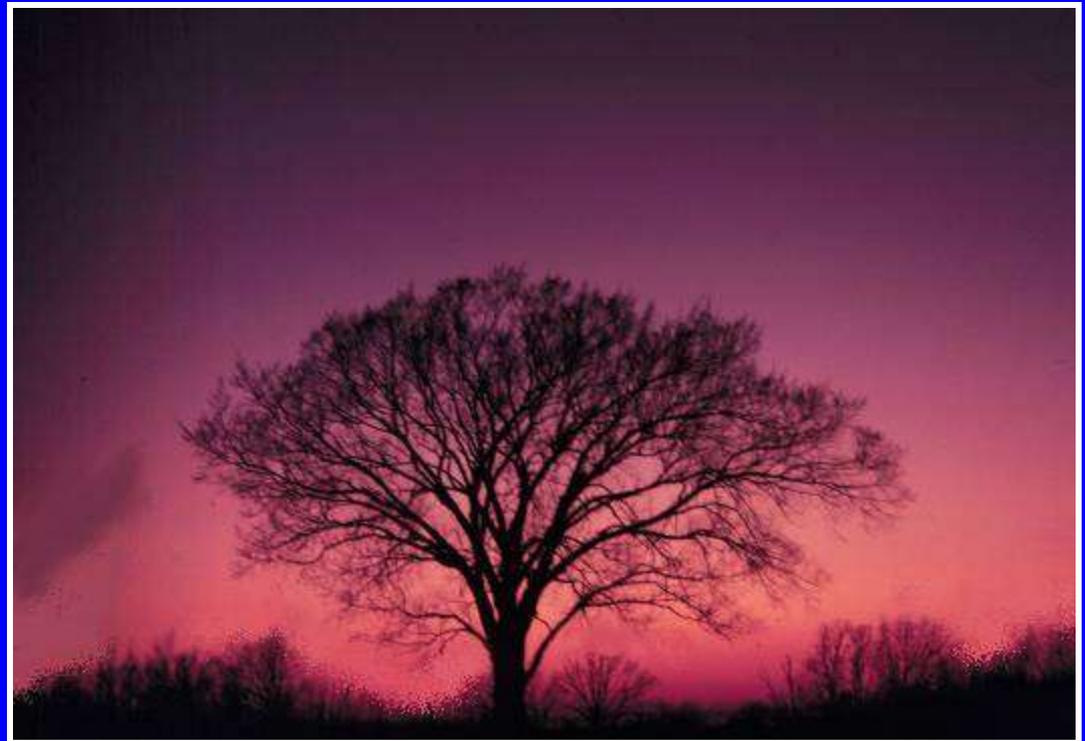
- *Nyssa sylvatica*
- 45 feet tall
- 20 feet wide
- Growth rate – slow
- One of the best for vivid red fall color
- Pest free

Black Gum



- *Ulmus americana*
- Height - 100 feet
- Spread - 100 feet
- Growth rate - medium to fast
- Hardy zones 3 - 9
- Dutch elm disease nearly wiped this species out but now new selections such as Liberty and Valley Forge are available

American Elm





Lacebark Elm
Ulmus parvifolia

Zelkova serrulata
'Village Green'
60' x 35'
medium growth rate
disease resistant





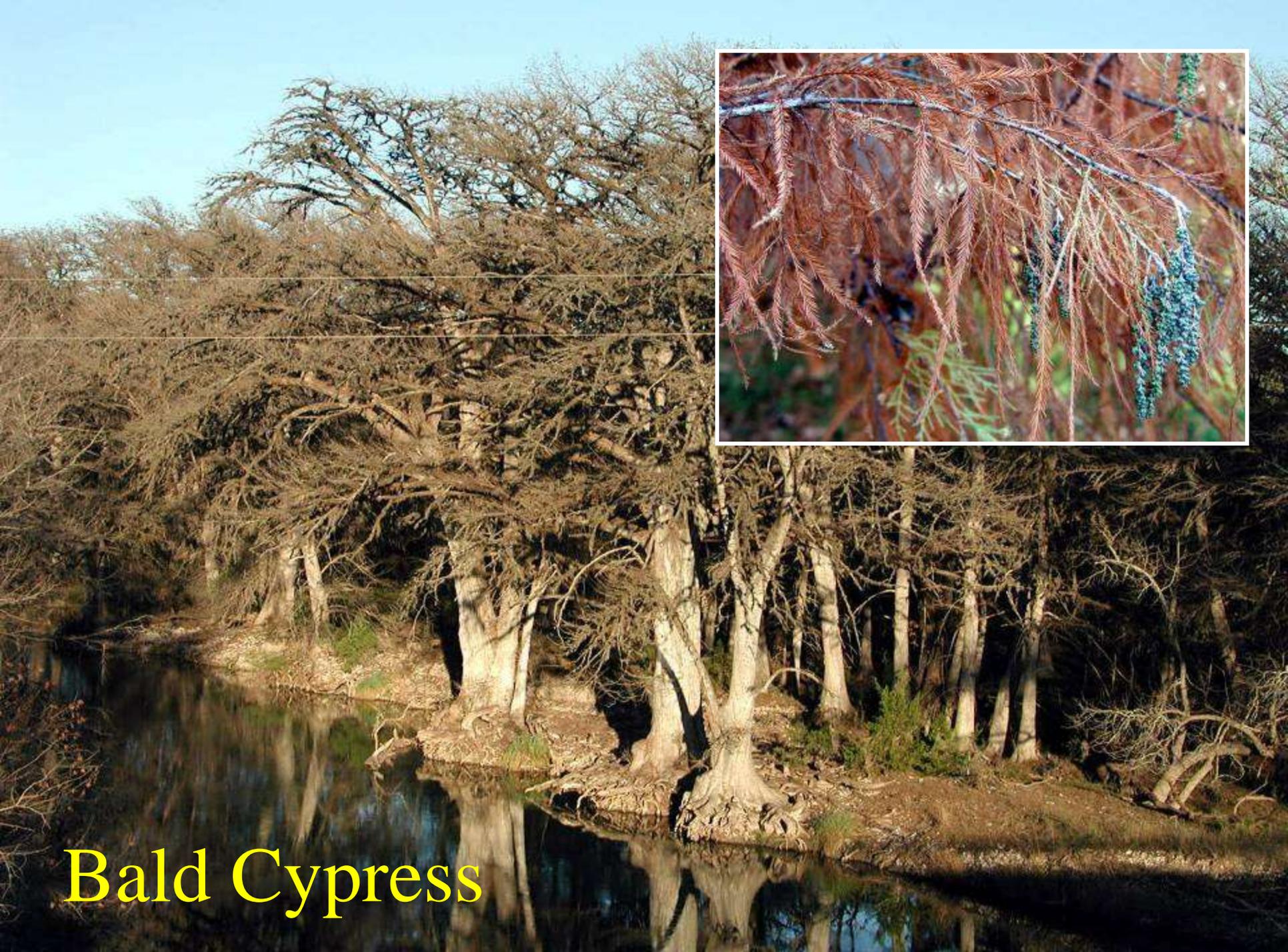
Weeping Willow

- *Salix babylonica*
- Height - 45 feet
- Spread - 35 feet
- Growth rate - very fast
- Hardy zones 3 - 9
- Great around water; graceful. Short lived but beautiful while it lasts!



Bald Cypress

- *Taxodium distichum*
- 80 + feet tall
- 40 + feet wide
- Rate of growth -slow
- A deciduous conifer
- Must have water for seed germination but capable of growing in dry sites
- Pyramidal while young



Bald Cypress