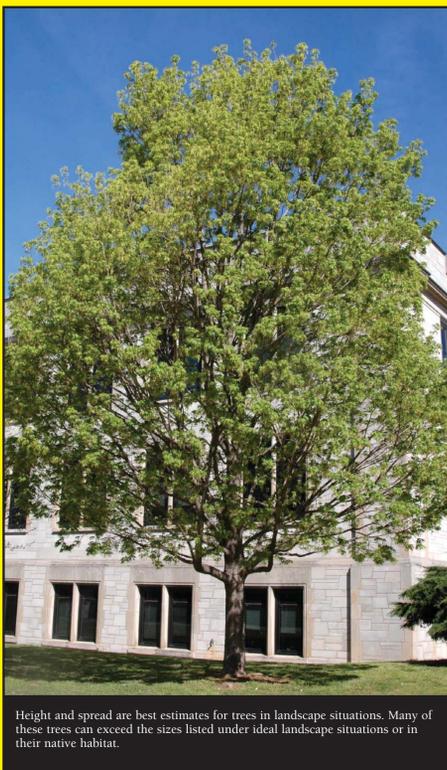


Shade and Lawn Trees



Height and spread are best estimates for trees in landscape situations. Many of these trees can exceed the sizes listed under ideal landscape situations or in their native habitat.

Red Maple

Acer rubrum
Cultivars: 'Autumn Flame', Red Sunset™, 'October Glory'™
Height: 65'
Spread: 55'
Shape: oval-round
Fall color: vivid red
Growth rate: moderate to fast
Culture: tolerant of most soils, prefers slightly acid and moist soils
Disease/insect: minor leaf insects
Notes: cultivars selected for consistent red fall color; excellent lawn tree. Native to Arkansas in low sites to upland areas.



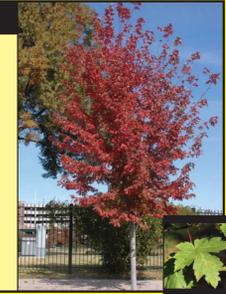
Sugar maple

Acer saccharum
Cultivars: 'Commencement', Fall Fiesta™, 'John Pair', 'Legacy'
Height: 65'
Spread: 55'
Shape: haystack
Fall color: orange-yellow; gold standard for flame fall color
Growth rate: slow to moderate
Culture: demands rich, moist soils
Disease/insect: leaf scorch common in summer
Notes: best suited to NW Ark; newer selections such as Fall Fiesta™, 'John Pair', 'Legacy' may be better suited for Central and South Ark. Native to the Ozark Region.



Freeman maple

Acer x freemanii
Cultivars: 'Autumn Blaze'™, 'Autumn Fantasy'™, 'Indian Summer'
Height: 60'
Spread: 50'
Shape: broad oval
Fall color: orange-red
Growth rate: very fast
Culture: tolerant of most soils
Disease/insect: none significant
Notes: cross between red and silver maples



River birch

Betula nigra
Cultivars: 'Heritage', 'Dura-Heat'
Height: 45'
Spread: 30'
Shape: broad pyramid
Fall color: yellowish; seldom effective
Growth rate: moderate to fast
Culture: tolerant of most soils, prefers an acid soil
Disease/insect: none significant; prone to branch breakage in ice storms
Notes: Bark on young trees is very attractive; peeling in large colorful sheets; other species of birch such as Royal Frost™ also recommended. Native to swampy bottomlands in Arkansas.



Ginkgo

Ginkgo biloba
Cultivars: 'Autumn Gold', 'Presidential Gold'™
Height: 75'
Spread: 60'
Shape: broad pyramid
Fall color: striking golden yellow
Growth rate: slow to moderate
Culture: very tolerant of most soils
Disease/insect: none significant
Notes: must purchase a male tree to avoid foul smelling fruits



Kentucky Coffeetree

Gymnocladus dioica
Cultivars: 'Espresso', 'Prairie Titan'™
Height: 65'
Spread: 50'
Shape: oval
Fall color: yellowish
Growth rate: medium
Culture: tolerant of most soils
Disease/insect: none significant
Notes: stark and rugged branches like a sumac; although difficult to find in trade, prefer male trees which do not bear thick pods



Sweetgum

Liquidambar styraciflua
Cultivars: 'Rotundiloba', 'Moraine', 'Happidaze'™, 'Cherokee'™
Height: 70'
Spread: 55'
Shape: pyramidal when young, opening up with age to irregular oval
Fall color: variable, some yellow-purple others poor yellow
Growth rate: fast
Culture: tolerant of most soils
Disease/insect: none serious
Notes: wood brittle; select cultivars that are fruitless to avoid annoying spiky fruits. Native statewide



Tuliptree, Tulip-poplar, Tulip-magnolia

Liriodendron tulipifera
Cultivars: 'Fastigiatum'/'Arnold' for narrow spaces
Height: 80'
Spread: 45'
Shape: regular oval
Fall color: yellow
Growth rate: very fast
Culture: tolerant of most soils
Disease/insect: none serious; aphids will produce honeydew/sooty mold
Notes: unique, tulip-shaped flower in April. Native to Crowley's Ridge.



Southern Magnolia

Magnolia grandiflora
Cultivars: 'Alta'™, 'Hasse', 'Bracken's Brown Beauty', 'Little Gem'
Height: 70'
Spread: 60'
Shape: densely pyramidal when young, broad-rounded with age
Fall color: none (broadleaf evergreen)
Growth rate: medium
Culture: fairly tolerant of most soils
Disease/insect: none serious
Notes: dense shade; leaf litter is messy; large flowers in summer



Dawn Redwood

Metasequoia glyptostroboides
Cultivars: 'Ogon'
Height: 65'
Spread: 25'
Shape: conical
Fall color: red-brown (although conifer, loses leaves in winter)
Growth rate: medium to fast
Culture: fairly tolerant of most soils but best in rich, moist soils
Disease/insect: none serious
Notes: interesting history related to fossil records



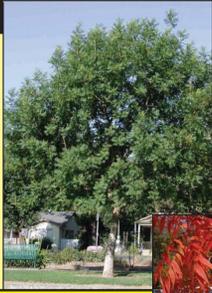
Black Tupelo, Black Gum

Nyssa sylvatica
Cultivars: 'Wildfire', 'Red Rage'™
Height: 50'
Spread: 30'
Shape: upright oval
Fall color: vivid red, early and reliable
Growth rate: medium
Culture: fairly tolerant of most soils but best in rich, moist soils
Disease/insect: none serious; leaves always spotted by a leaf spot
Notes: Native statewide.



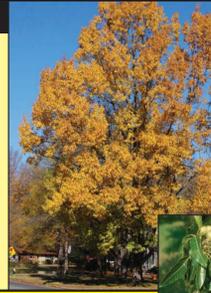
Chinese Pistache

Pistacia chinensis
Cultivars: rare in the trade
Height: 30'
Spread: 30'
Shape: dome-shaped
Fall color: variable, but excellent: red, orange, or yellow
Growth rate: very fast
Culture: very adaptable; very drought tolerant
Disease/insect: none serious
Notes: trees are either male or female; in the future may be a problem with re-seeding



Sawtooth Oak

Quercus acutissima
Cultivars: rare
Height: 55'
Spread: 55'
Shape: pyramidal when young, broad-rounded and open with age
Fall color: strong yellow
Growth rate: medium to fast
Culture: fairly adaptable
Disease/insect: none serious
Notes: very clean, glossy leaves with a serrated edge like a saw blade



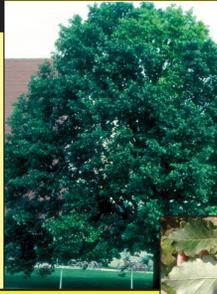
White Oak

Quercus alba
Cultivars: rare
Height: 75'
Spread: 60'
Shape: upright oval when young but opens as it ages
Fall color: rich maroon
Growth rate: medium
Culture: best in rich, moist soils
Disease/insect: none serious
Notes: majestic oak but difficult to find in the retail trade; native statewide on sites with good moisture



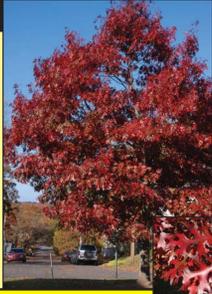
Swamp White Oak

Quercus bicolor
Cultivars: none
Height: 65'
Spread: 65'
Shape: broad, regular outline
Fall color: dark maroon
Growth rate: medium
Culture: fairly adaptable, but prefers acid soil
Disease/insect: none serious
Notes: closely related to Chinkapin Oak (Q. muehlenbergii) and Swamp Chestnut Oak (Q. michauxii)



Scarlet Oak

Quercus coccinea
Cultivars: none
Height: 70'
Spread: 50'
Shape: open broad oval
Fall color: scarlet maroon
Growth rate: medium to fast
Culture: rich soil best, but fairly adaptable
Disease/insect: none serious
Notes: closely related to Pin and Shumard/Nuttall oaks and may be confused in the trade



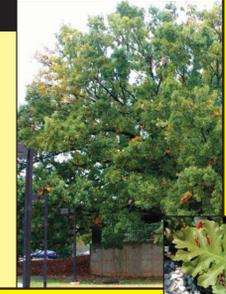
Southern Red Oak

Quercus falcata v. *falcata*
Cultivars: none
Height: 75'
Spread: 70'
Shape: rounded
Fall color: poor, brown-orange
Growth rate: medium-fast
Culture: native to some poor, upland soils
Disease/insect: none serious
Notes: tolerant of most soils



Bur Oak

Quercus macrocarpa
Cultivars: none
Height: 70'
Spread: 80'
Shape: broad rounded
Fall color: poor: dull yellow
Growth rate: slow to medium
Culture: fairly tolerant most soils
Disease/insect: none
Notes: found scattered in northern Ark. on soils with good moisture and drainage



Water Oak

Quercus nigra
Cultivars: none
Height: 70'
Spread: 55'
Shape: upright oval
Fall color: none; leaves persist late
Growth rate: medium
Culture: adaptable to soils
Disease/insect: none
Notes: wood more brittle than other oaks



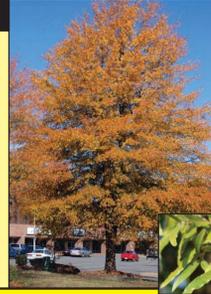
Pin Oak

Quercus palustris
Cultivars: rare; 'Crownright', 'Sovereign'
Height: 60'
Spread: 40'
Shape: strongly pyramidal; lower branches descending esp. when young
Fall color: red-maroon
Growth rate: medium to fast
Culture: rich, moist best; avoid alkaline soils
Disease/insect: none
Notes: lower descending branches can be a problem on public grounds near people or equipment



Willow Oak

Quercus phellos
Cultivars: 'Hightower'
Height: 60'
Spread: 45'
Shape: pyramidal when young; upright oval with age
Fall color: fair, dull orange-bronze
Growth rate: medium to fast
Culture: very adaptable
Disease/insect: none
Notes: very popular in Arkansas; small leaf litter; native statewide except NW Ark.



Northern Red Oak

Quercus rubra
Cultivars: rare
Height: 60'
Spread: 60'
Shape: rounded
Fall color: rich maroon
Growth rate: medium to fast
Culture: prefers well drained, otherwise fairly tolerant
Disease/insect: none serious
Notes: native statewide on moist sites



Shumard Oak

Quercus shumardii
Cultivars: none
Height: 55'
Spread: 55'
Shape: pyramidal when young but widening with age
Fall color: orange-red or red
Growth rate: medium
Culture: very adaptable
Disease/insect: none
Notes: similar to Nuttall Oak



Live Oak

Quercus virginiana
Cultivars: few
Height: 60'
Spread: 70'
Shape: rounded when young but becoming very broad with age
Fall color: none (broadleaf evergreen)
Growth rate: medium
Culture: fairly adaptable
Disease/insect: none
Notes: critical issue is cold hardiness. Grows fine in S. Ark. and a few individuals in Central. Seed/plant source is critical to survival.



Baldypress

Taxodium distichum
Cultivars: 'Shawnee Brave'
Height: 70'
Spread: 35'
Shape: slender pyramidal
Fall color: bronze-orange
Growth rate: fast
Culture: very tolerant of soil type
Disease/insect: eriophyid mite, twig gall midge
Notes: although conifer, loses leaves in winter; root-like 'knees' a curiosity; common in swampy areas of Ark. Do not plant near parked vehicles due to resin that drips from tree.



Littleleaf Linden

Tilia cordata
Cultivars: 'Greenspire'
Height: 60'
Spread: 40'
Shape: strongly pyramidal when young, upright oval with age
Fall color: rarely good; yellow-green
Growth rate: medium
Culture: adaptable
Disease/insect: none serious; susc. to Jap. beetle
Notes: unique and fragrant flower, late May; best suited in NW Ark.



American Elm

Ulmus americana
Cultivars: 'New Harmony', 'Princeton', 'Valley Forge'
Height: 75'
Spread: 55'
Shape: vase-shaped
Fall color: yellowish
Growth rate: medium to fast
Culture: very adaptable
Disease/insect: Dutch elm disease (DED), slime flux
Notes: several new DED resistant selections/hybrids available such as 'Frontier'



Lacebark Elm, Chinese Elm

Ulmus parvifolia
Cultivars: 'Allee', 'Athena', 'Bosque'
Height: 50'
Spread: 45'
Shape: upright spreading
Fall color: rare; yellow to dull orange
Growth rate: medium to fast
Culture: very adaptable
Disease/insect: none serious
Notes: some concern over re-seeding



Zelkova

Zelkova serrata
Cultivars: 'Green Vase', 'Village Green'
Height: 50'
Spread: 40'
Shape: strong vase form
Fall color: yellow-orange
Growth rate: medium
Culture: very adaptable
Disease/insect: none serious





UNIVERSITY OF ARKANSAS
DIVISION OF AGRICULTURE
Cooperative Extension Service



ARKANSAS FORESTRY COMMISSION

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This project was partially funded by a grant from the USDA Forest Service and the Arkansas Forestry Commission.

*Green Ash (*Fraxinus pennsylvanica*) and White Ash (*F. americana*), while excellent options as a lawn or shade tree, have been intentionally omitted over increasing concern about the potential damage from the Emerald Ash Borer (EAB). Although EAB has not yet been observed in Arkansas, there is concern that it will likely inhabit the state thus endangering all ash species. Since planting of trees is a long term investment this issue needs to be considered before planting any ash species.