large shade tree

height at maturity: 70-90 feet

spread at maturity: 35-50 feet

growth rate: fast

light requirement: full/partial sun

soil: moist

characteristics: uniquely shaped leaves and orange/cream tulip-like flowers

seasonal interest: golden leaves in autumn and a cone-like fruit
swamp white oak

Quercus bicolor

large shade tree

height at maturity: 50-60 feet

spread at maturity: 50-60 feet

growth rate: slow-medium

light requirement: full sun

soil: moist, acidic soil; good for wet areas

characteristics: glossy green leaves; tends to hold leaves through the winter

seasonal interest: yellow-brown to red leaves, as well as acorns, in fall
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large shade tree

height at maturity: 50-80 feet

spread at maturity: 50-80 feet

growth rate: slow-medium

light requirement: full sun

soil: moist, well-drained soil

characteristics: acorns in the fall; tends to hold leaves through the winter

seasonal interest: green, deep lobed leaves

white oak

Quercus alba
Creating Canopy 2018
spreading roots for a greener region

large shade tree

height at maturity: 40-50 feet

spread at maturity: 30-40 feet

growth rate: medium-fast

light requirement: full/partial sun

soil: moist, well-drained soil

characteristics: very cold hardy

seasonal interest: outstanding orange to red fall color

red maple
Acer rubrum
Creating Canopy 2018

spreading roots for a greener region

large shade tree

height at maturity: 40-70 feet

spread at maturity: 40-60 feet

growth rate: fast

light requirement: full/partial sun

soil: moist to wet soil

characteristics: papery, peeling bark

seasonal interest: yellow leaves in fall; green toothed leaves

river birch

Betula nigra
sweet gum - seedless
Liquidambar rotundiloba

large shade tree

height at maturity: 60-70 feet

spread at maturity: 20-30 feet

growth rate: medium

light requirement: full sun

soil: moist, well-drained soil

characteristics: good disease resistance; does not produce the infamous gum balls

seasonal interest: fall color is a mixture of yellows, oranges, purples and reds
london planetree

*Platanus x acerifolia*

large shade tree

**height at maturity:** 75-100 feet

**spread at maturity:** 60-75 feet

**growth rate:** slow-medium

**light requirement:** full sun

**soil:** moist, well-drained soil

**characteristics:** a large tree for a large space; related to the sycamore tree

**seasonal interest:** brown bark exfoliates to reveal creamy white inner bark
pin oak

Quercus palustris

large shade tree

height at maturity: 50-70 feet

spread at maturity: 40-60 feet

growth rate: medium-fast

light requirement: full sun

soil: average, medium to wet, acidic soils

characteristics: widely planted as both a street and a landscape tree

seasonal interest: leaves turn deep red in fall; first crop of acorns in 15-20 years
American hornbeam

Carpinus caroliniana

Small shade tree

Height at maturity: 20-30 feet

Spread at maturity: 20-30 feet

Growth rate: Slow

Light requirement: Full/partial shade

Soil: Moist, rich soil

Characteristics: Smooth blue-grey sinuous bark; low-maintenance tree

Seasonal interest: Papery winged fruits in late spring; colorful fall leaves

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Spreading roots for a greener region
creating canopy 2018
spreading roots for a greener region

small shade tree

height at maturity: 20-40 feet

spread at maturity: 20-30 feet

growth rate: medium

light requirement: full sun

soil: average, slightly acidic, medium moisture, well-drained soil

characteristics: a resilient tree not troubled by disease or insects

seasonal interest: yellow, orange, red leaves in fall; in winter, blooms small maroon flowers

persian ironwood

parrotia persica
small flowering tree

height at maturity: 15-25 feet

spread at maturity: 15-20 feet

growth rate: medium

light requirement: full sun/light shade

soil: moist, well-drained soil

characteristics: dark green leaves, whitish beneath

seasonal interest: white flowers in May/June; purple/black fruit ripens in July

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pagoda dogwood
Cornus alternifolia
small flowering tree

height at maturity: 20-30 feet

spread at maturity: 25-35 feet

growth rate: fast

light requirement: full/partial sun

soil: moist, well-drained soil

characteristics: dark green heart-shaped leaves

seasonal interest: early spring rosy pea-shaped edible flowers
Chionanthus virginicus

small flowering tree

height at maturity: 12-20 feet

spread at maturity: 12-20 feet

growth rate: slow

light requirement: full/partial sun

soil: moist, well-drained soil

characteristics: lustrous green leaves, small blue fruits; low-maintenance tree

seasonal interest: fragrant, white fleecy flowers
cornelian cherry

Cornus mas

fruit tree

height at maturity: 25 feet

spread at maturity: 25 feet

growth rate: slow-medium

light requirement: full sun

soil: moist, well-drained soil

characteristics: self-pollinating; edible berries in July; good for preserves

seasonal interest: first tree to bloom in spring
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fruit tree

height at maturity: 15-20 feet

spread at maturity: 15-20 feet

growth rate: medium

light requirement: full sun

soil: well-drained loamy soil

characteristics: self-pollinating; edible sour shiny red fruits 1/4 - 1/2 inch long

seasonal interest: showy white flowers in spring
fruit tree

height at maturity: 15-30 feet

spread at maturity: 15-30 feet

growth rate: medium

light requirement: full sun

soil: moist, well-drained soil

characteristics: self-pollinating; requires pruning

seasonal interest: heart-shaped abundant sweet fruit that can be eaten fresh
fruit tree

height at maturity: 30 feet

spread at maturity: 30 feet

growth rate: medium

light requirement: full sun

soil: moist, well-drained soil

characteristics: self-pollinating; apple trees require frequent maintenance

seasonal interest: pinkish-white flowers in early spring
fruit tree

**height at maturity:** 20 feet

**spread at maturity:** 20 feet

**growth rate:** medium

**light requirement:** full/partial sun

**soil:** moist, well-drained soil

**characteristics:** self-pollinating; medium-maintenance tree; cover in winter

**seasonal interest:** fruit in mid-July to late August.
fruit tree

height at maturity: 15-25 feet

spread at maturity: 15-25 feet

growth rate: medium

light requirement: full sun

soil: moist, well-drained soil

characteristics: self-pollinating; special care may be needed against pests

seasonal interest: showy pink flowers in spring
persimmon - nikita’s gift

creating canopy 2018

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small fruit tree

height at maturity: 10-12 feet

spread at maturity: 6-8 feet

growth rate: medium

light requirement: full sun

soil: moist, well-drained soil

characteristics: self-pollinating; cold hardy, compact tree

seasonal interest: deep reddish, round fruit ripens in fall

Diospyros virginiana x kaki

Penn Sustainability

TreePhilly

Morris Arboretum
University of Pennsylvania
Creating Canopy 2018

spreading roots for a greener region

fruit tree

height at maturity: 35-60 feet

spread at maturity: 25-35 feet

growth rate: slow

light requirement: full/partial sun

soil: dry to medium, well-drained soil

characteristics: distinctive thick, dark grey, broken bark in winter

seasonal interest: Leaves may be used for tea. Edible fruit ripens after winter frost.