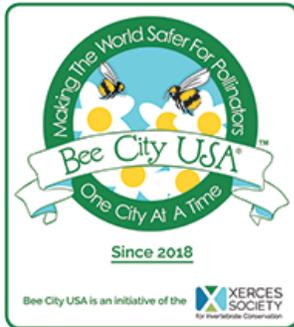


Native Pollinator-Friendly Resources

City of Winston-Salem, NC



In 2018, Winston-Salem City Council unanimously voted to become a Bee City USA affiliate. The mission of Bee City USA is to galvanize communities to sustain pollinators, responsible for the reproduction of 90% of the world's wild plant species. Bee City USA affiliates work to provide pollinators with a healthy habitat that has a rich variety of native plants, while minimizing in the use of pesticides.



75th Bee City USA

CITY OF WINSTON-SALEM

Mayor: Allen Joines City Council: Vivian H. Burke, Mayor Pro Tempore, Northeast Ward • Denise D. Adams, North Ward • Dan Besse, Southwest Ward • Robert C. Clark, West Ward • John C. Larson, South Ward • Jeff MacIntosh, Northwest Ward • Annette Scippio, East Ward • James Taylor Jr., Southeast Ward City Manager: Lee Garrity

Large Variety Trees

Height (feet) Comments

| | Height (feet) | Comments |
|--|---------------|--|
| <i>Magnolia grandiflora</i> Southern Magnolia | 40—60' | Less shade tolerant with age, attracts wildlife, fragrant spring and summer flowers - Evergreen |
| <i>Acer barbatum or floridanum</i> Southern Sugar Maple | 50—60' | Heat tolerant, dislikes dry, compact soil - Evergreen |
| <i>Acer rubrum</i> Red Maple | 60—90' | Tolerates a variety of conditions, including wet soil, fall color -Deciduous |
| <i>Acer saccharum</i> Sugar Maple | 90—120' | Extensive root system, fall color, shade tolerant - Deciduous |
| <i>Celtis laevigata</i> Southern Hackberry or Sugarberry | 70—80' | Tolerates a variety of conditions - Deciduous |
| <i>Cladrastis kentukea</i> Yellow-wood | 40—50' | Tolerates a variety of conditions, fragrant white blooms in alternate years - Deciduous |
| <i>Liriodendron tulipifera</i> Tulip-Tree or Yellow Poplar | 90—120' | Tolerates a variety of conditions, drops limbs, best in natural areas, host for N.C. State butterfly - Deciduous |
| <i>Prunus serotina</i> Wild Black Cherry | 60—80' | Tolerates a variety of conditions, seeds heavily, best in natural areas - Deciduous |
| <i>Quercus alba</i> White Oak | 80—100' | Sensitive to construction damage, good fall color – Deciduous |

Medium Variety Trees**Height (feet) Comments**

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|---|--------|---|
| <i>Ilex × attenuata</i> 'Fosteri' Foster's Holly | 20—30' | Red fruits, male plants not needed for fruiting, best berry production in full sun - Evergreen |
| <i>Magnolia virginiana</i> Sweet Bay Magnolia | 20—30' | Tolerates some shade, good for wet sites, cultivars provide evergreen and deciduous options - Evergreen |
| <i>Pinus virginiana</i> 'Wate's Golden' <i>Wate's</i> Golden Virginia Pine | 15—30' | Grows in poor soils, turns golden in winter, seeds eaten by birds, especially Brown-headed Nuthatch - Evergreen |
| <i>Prunus caroliniana</i> Carolina Laurel Cherry | 20—40' | Tolerates a variety of conditions, colonizes - Evergreen |
| <i>Cercis canadensis</i> Eastern Redbud | 20—30' | Tolerates a variety of conditions, many cultivars available, early spring purple/pink blooms - Deciduous |
| <i>Cornus florida</i> Flowering Dogwood | 15—30' | Best in part shade, many cultivars available, flowers in spring, fall color and red fruit - Deciduous |
| <i>Halesia tetraptera</i> Common Silverbell | 20—40' | Tolerates a variety of conditions, showy white blooms in spring, cultivars available - Deciduous |
| <i>Oxydendrum arboreum</i> Sourwood | 20—30' | Tolerates a variety of conditions, white summer flowers, fall color, source of sourwood honey – Deciduous |

Small Variety Trees**Height (feet) Comments**

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| <i>Magnolia grandiflora</i> 'Little Gem' Little Gem Magnolia | 15—20' | Dwarf cultivar of <i>Magnolia grandiflora</i> - Evergreen |
| <i>Aesculus pavia</i> Red Buckeye | 10—20' | Especially attracts hummingbirds and pollinators, red flowers in spring, leaf scorch may develop in dry soils Deciduous |
| <i>Amelanchier</i> × 'Autumn Brilliance' Autumn Brilliance Serviceberry | 25—40' | Tolerates a variety of conditions, rust fungus can attack fruit, early spring white blooms, fall color, other cultivars available Deciduous |
| <i>Chionanthus virginicus</i> Fringe-tree or Old Man's Beard | 12—20' | Tolerates a variety of conditions, male and female plants needed for fruit, fragrant white flowers in spring - Deciduous |
| <i>Crataegus viridis</i> 'Winter King' Winter King Green Hawthorn | 15—30' | Drought tolerant, has thorns, other native species available, white flowers in spring, fall color, interesting bark – Deciduous |

Streetyard/Interior Shrubs Height (feet) Comments

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| <i>Illicium floridanum</i> Florida Star-anise | 5—8' | PPrefers moist, well-drained soil high in organic matter, many cultivars available, showy spring flowers - Evergreen |
| <i>Rhododendron catawbiense</i> Catawba Rhododendron | 6—12' | Showy flowers, needs excellent drainage and organic soil, many cultivars available - Evergreen |
| <i>Calycanthus floridus</i> Sweet-shrub or Carolina Allspice | 6—9' | Tolerates a range of conditions, drought tolerant, fragrant maroon flowers in early spring, fall color, cultivars available |
| <i>Callicarpa americana</i> American Beautyberry | 3—4' | Prefers moist soil, showy purplish berries in fall |
| <i>Ceanothus americanus</i> New Jersey Tea | 3—4' | Easy to grow in a wide range of conditions, drought tolerant, early summer flowers - Deciduous |
| <i>Clethra alnifolia</i> Sweet-pepperbush | 4—8' | Needs moist soil, fragrant white summer flowers, may colonize, fall color - Deciduous |
| <i>Fothergilla gardenii</i> Witch-alder or Fothergilla | 3—5' | Drought tolerant, fall color, may colonize, fragrant white spring flowers - Deciduous |
| <i>Fothergilla major</i> Large Witch-alder | 6—10' | Drought tolerant, cultivars include 'Mt. Airy,' white spring flowers - Deciduous |
| <i>Hamamelis virginiana</i> Witch-hazel | 15—30' | Multi-stemmed, yellow fall flowers and leaf color, tolerates heavy clay soil - Deciduous |
| <i>Hydrangea arborescens</i> Smooth Hydrangea | 3—5' | Suffers in full sun and with drought, likes moist well-drained soil, attracts bees, prune in early spring - Deciduous |
| <i>Hydrangea quercifolia</i> Oakleaf Hydrangea | 4—8' | Somewhat drought tolerant, attractive bark, needs mulch to keep roots cool - Deciduous |
| <i>Itea virginica</i> Sweetspire | 3—6' | Tolerates wide range of moisture, fragrant white spring flowers - Deciduous |
| <i>Lindera benzoin</i> Spicebush | 6—12' | Prefers moist, well-drained soil, male and female plants needed for fruit - Deciduous |
| <i>Physocarpus opulifolius</i> Eastern Ninebark | 5—8' | Drought tolerant, tough and durable, white spring flowers, attractive bark - Deciduous |
| <i>Rhododendron calendulaceum</i> Flame Azalea | 4—8' | Good for naturalistic landscape, needs some direct sun, needs well-drained organic soil - Deciduous |
| <i>Rhododendron periclymenoides</i> Pinxterbloom Azalea | 3—6' | Drought tolerant, needs some sun, pink spring flowers, needs well-drained organic soil - Deciduous |
| <i>Rhododendron viscosum</i> Swamp Azalea | 2—8' | Likes moist organic soil, but tolerates some drought, fragrant white flowers in early summer - Deciduous |

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| <i>Sambucus canadensis</i> American Elderberry | 5—12' | Likes moist soil, may colonize, white summer flowers and dark fruit - Deciduous |
| <i>Vaccinium arboreum</i> Sparkleberry | 10—20' | Tolerates drought, needs multiple genetic strains for fruit set, fall color - Deciduous |
| <i>Vaccinium virgatum or ashei</i> Rabbiteve Blueberry | 8—12' | Drought tolerant, needs acidic soil, needs multiple genetic strains for fruit set, grown for fruit production - Deciduous |
| <i>Viburnum acerifolium</i> Mapleleaf Viburnum | 4—6' | Tolerates drought, may colonize, needs multiple genetic strains for fruit set, white spring flowers - Deciduous |
| <i>Viburnum dentatum</i> Arrow-wood Viburnum | 6—10' | Tolerates drought but prefers moist soil, may colonize, needs multiple genetic strains for fruit set – Deciduous |
| <i>Viburnum nudum</i> Possumhaw or Southern Wild Raisin | 6—10' | Prefers moist to wet soil, needs multiple genetic strains for fruit set, white spring flower - Deciduous |
| <i>Viburnum prunifolium</i> Blackhaw Viburnum | 12—15' | Drought tolerant, needs multiple genetic strains for fruit set, white spring flowers, fall color - Deciduous |
| <i>Viburnum rafinesqueanum</i> Downy Arrow-wood Viburnum | 4—6' | Drought tolerant, needs multiple genetic strains for fruit set, white spring flowers, fall color - Deciduous |
| <i>Viburnum rufidulum</i> Southern Black Haw Viburnum | 10—20' | Needs multiple genetic strains for fruit set, white spring flowers, fall color – Deciduous |

Groundcovers

Height (feet) Comments

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| <i>Fragaria virginiana</i> Wild Strawberry | .25-.75' | Native, prefers full sun, fruit is small but flavorful – Deciduous |
| <i>Mitchella repens</i> Partridge-berry | .25' | White spring flowers, red fall fruit, prefers moist organic soil -Evergreen |
| <i>Polystichum acrostichoides</i> Christmas fern | .5 - 12" H | Durable evergreen for wide range of conditions. |
| <i>Pachysandra procumbens</i> Allegheny-spurge | 24-30"H | Drought tolerant, very interesting winter leaf, early spring bloom -Evergreen |
| <i>Phlox stolonifera</i> Creeping Phlox | .5-1' | Prefers light shade and moist soil, spring blooms, many cultivars available -Evergreen |
| <i>Phlox subulata</i> Moss Phlox | .25-.5' | Good drainage important, drought tolerant, late winter through spring bloom period, many cultivars available – Evergreen |
| <i>Phegopteris hexagonoptera</i> Broad beech fern | 2' x 2' H&W | Um shaped fern with arching triangular fronds. |

| Vines | Height (feet) | Comments |
|---|----------------------|---|
| <i>Bignonia capreolata</i> Cross-vine | 35—50' | Attract hummingbirds, colonizes, flowers best in full sun – Semi-Evergreen |
| <i>Campsis radicans</i> Trumpet-creeper | 25—40' | Orange/red blossoms attract hummingbirds, very aggressive colonizer – Deciduous |
| <i>Clematis virginiana</i> Virgin's-bower or Woodbine | 12—20' | White blooms in the summer; will bloom in some shade – Deciduous |
| <i>Lonicera sempervirens</i> Coral Honeysuckle | 10—15' | Attracts hummingbirds, tolerates a variety of conditions, tolerates part shade but needs sun to flower – Semi Evergreen |
| <i>Parthenocissus quinquefolia</i> Virginia-creeper | 10—40' | Good fall color and fall black fruit, colonizes – Deciduous |
| <i>Wisteria frutescens</i> American Wisteria | 15—30' | lavender flower clusters in late spring, sporadically re-blooms, cultivars available – Deciduous |

| Native flowers | Height (feet) | Comments |
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| <i>Monarda</i> Bee Balm | 2'- 4'H | The plant blooms early to late summer. Attracts a variety of pollinators. |
| <i>Echinacea</i> Coneflower | 2'- 4'H | |
| <i>Digitalis purpurea</i> Foxglove | 2'- 3'H | Tubular shaped blossoms in a variety of colors. |
| <i>Phlox paniculata</i> Phlox | 3'-5' H | Tall phlox are excellent as a colorful backdrop. |
| <i>Stokesia laevis</i> Stokes aster | 12-18" H&W | Large, lavender-blue flowers in the spring. |
| <i>Pycnanthemum muticum</i> Mountain Mint | 3' H | Attracts a variety of butterflies, bees, wasps, and moths! |
| <i>Rudbeckia hirta</i> Black-eyed Susans | 1'-3' H | These plants bloom from June to October, attracting a variety of insects. |

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| <i>Astereae</i> Asters | 1-6' H | Asters are a valuable late-season source of pollen for bees and nectar for bees and butterflies. |
| <i>Blephilia ciliata</i> Downy wood mint | 2' x 2' H&W | Blooms spring pink flower, attracts many types of pollinators. |
| <i>Viburnum trilobum</i> American cranberrybush | 15' x 15' H&W | Great for fall. Attract songbirds. |
| <i>Lobelia cardinalis</i> Cardinal flower | 2-4' H | Blooms in late summer. Hummingbird magnet. Spray with essential oils to keep deer and rabbits away. |
| <i>Amsonia tabernaemontana</i> Bluestar | 2' x 3' H&W | Pale blue flowers in spring, gold fall color, deer resistant. |
| <i>Agastache foeniculum</i> Anise hyssop | 24-30" H | Blue flowers. Attracts numerous pollinators. |
| <i>Solidago sphacelata</i> Goldenrod | 24" H | Compact plant w/wands - of tiny yellow flowers |
| <i>Penstemon digitalis 'Husker Red'</i> Beardtongue 'Husker Red' | 2-3'H | Erect spires -of white, tubular flowers in spring. Attracts bumblebees. |
| <i>Penstemon smallii</i> Small's beardtongue | 1-2' H&W | Pink purple bloom, April-June. Attracts native bees. |
| <i>Aruncus dioicus</i> Goats beard | 3'-4' H | Plumes of white flowers in spring. May look more like a shrub. |
| <i>tea virginica 'Henry's Garnet'</i> Virginia sweetspire | 4-6' H&W | Showy white fragrant flowers, May-June. Fall color. |
| <i>Asclepias tuberosa</i> Butterfly milkweed | 24" x 12" H&W | Butterfly larval host plant. Orange flower June to August. |
| <i>Asclepias incarnate</i> Swamp milkweed | 3' x 4' H&W | Butterfly larval host plant with pink flowers. |
| <i>Ruellia humilis</i> Wild petunia | 18" H | Butterfly larval host plant. Lavender flowers, late Spring-early Summer. |
| <i>Lindera benzoin</i> Spicebush | 6' x 6' plus | Butterfly larval host plant. Yellow Foliage in the fall. |
| <i>Lonicera sempervirens 'Major Wheeler'</i> Coral honeysuckle | 15' x 6' H&W | Attracts birds, hummingbirds & butterflies, June to August. |
| <i>Passiflora incarnate</i> Passionflower | 6' x 3' H&W | Butterfly larval host plant. Fragrant, purple blooms July-September. |

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| <i>Senna marilandica</i> Wild senna | 6' x 3' H&W | Butterfly larval host plant. Showy yellow flower clusters, July-August. |
| <i>Tiarella cordifolia var. collina</i> Foamflower | .5 - 12" H | Frothy white flowers in early spring. |

Resources

Winston-Salem / Forsyth County Unified Development Ordinance

Forsyth County Extension Office – Master Gardeners

Xerces Society