

APPENDIX B LANDSCAPING & BUFFER PLANT TYPE LIST

Value of Landscape and Buffer Plants

The placement of landscape plants on a property can serve numerous purposes. One of the most obvious is to enhance the appearance of the property and increase the property's value. Other benefits of plants and vegetative buffers in the home and business property landscape are as follows:

1. Reduce air pollution by absorbing Carbon Dioxide and releasing Oxygen.
2. Reduce erosion by dispersing and absorbing rainfall.
3. Reduce stream pollution by stabilizing soil and slowing, dispersing and absorbing stormwater runoff.
4. Reduce stormwater runoff and the potential for flooding.
5. As properties provide trees, plants and other landscape vegetation, not only is the appearance of individual properties improved, but Community Appearance is enhanced. This provides a substantial value to the community and other properties in the Community.
6. Buffer and Landscape trees and other plants also help reduce noise from auto traffic, glare from auto and other lights and help collect & reduce litter from reaching adjacent properties.

Pender County Landscape and Vegetative Buffer Requirements

The Pender County Unified Development Ordinance contains requirements for landscaping and buffer plantings for certain types of developments in and adjacent to parking lots containing more than 10 spaces and around the perimeter of the site or developed area of the site. These provisions are contained in Article 8, Landscaping and Buffering.

Source of Information in Attached Plant List

The plant list included herein has been compiled directly from the NC State Agricultural Extension Service, Pender County's Cooperative Extension for plant types specifically suited for Pender County and Southeastern North Carolina. A substantial amount of information on plant type and suitability is available from the Extension Service Web Site.

Purpose of This Plant List

The list attached is to be used as a guide for the reader only. The list of plants and shrubs included (in the list attached) are not the only types of trees and shrubs that may be used to meet the requirements in the Pender County Unified Development Ordinance for landscaping and buffering. The list only provides examples of plants that may be suitable for the locations on sites, where landscaping and plantings are required by the UDO. Many other types, species and varieties of plants can be used and are available. Plants for certain types of developments should be chosen that are low maintenance and adaptable to the conditions peculiar to the site. Landscape Architects, local nurseries, plant suppliers, the NC Agricultural Extension Service or other available sources should be consulted when making a substantial investment in plant materials and installation. Buffers and Landscaping required by the UDO must be maintained for the duration of any approval issued for the site and use. Preservation of existing trees and vegetation around the perimeter of the site and in other key locations on the site is recommended and can save substantial financial resources.

Explanation for the Attached Plant List

The Plant List attached is divided into five categories of plants that coincide with the requirements of the UDO. Those categories are as follows:

1. Recommended Canopy (large) Trees
2. Recommended Understory (small) Trees
3. Recommended Screening Shrubs
4. Recommended Ornamental Shrubs
5. Ground Covers & Grasses

FOR MORE INFORMATION

WEBSITE

For more detailed information about each plant and to see images, visit the Plant Fact Sheets on the NC Cooperative Extension Consumer Horticulture website: www.ncstate-plants.net

More fact sheets of recommended plants and other local garden and landscape information are available from the **Pender County Cooperative Extension** website at <http://pender.ces.ncsu.edu>. Click on the Lawn and Garden link to access information specifically for Pender County growing conditions.

CONTACT COOPERATIVE EXTENSION

If you have questions about plant selection and maintenance, lawn care, vegetable gardening or plant pest problems call or visit your local North Carolina Cooperative Extension office.

The **Pender County Cooperative Extension Center** is open 8am to 5pm, Monday – Friday and is located at 801 South Walker Street, Burgaw. Our phone number is (910) 259-1235.

For residents of other counties in North Carolina, find out how to contact your local Cooperative Extension Office at North Carolina Cooperative Extension.

Assistance provided by:

Charlotte Glen, Extension Agent

Agriculture—Horticulture

North Carolina Cooperative Extension—Pender County Center

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Recommended Canopy Trees

Botanical/ Common Name	Recommended Varieties	Height/Spread At Full Maturity	Growth Rate	Exposure	Notes & Culture
Acer rubrum Red Maple*	'October Glory' 'Red Sunset' 'Autumn Blaze'	40-50 ft Ht 25-35 ft Sp	Medium	Full Sun to Light Shade	Moist to well drained soil Does not perform well in parking lots. Needs consistent moisture
Betula Nigra River Birch* %	'Heritage' 'Dura Heat'	40-70 ft Ht 40-60 ft Sp	Fast	Full Sun	Moist to well drained soil
Celtis laevigata Sugarberry* %				Full Sun	Wet to well drained soil Extremely tough but not readily available
Crataegus phaenopyrum Washington Hawthorn*		25-30 ft Ht 20-25 ft Sp	Medium	Sun to Light Shade	Moist to well drained soil White flowers in Spring Red fruit in Fall
Fagus grandiflora American Beech*		50-70 ft Ht 40-60 ft Sp	Slow	Full Sun	Well drained soil Not readily available – not the best choice for parking lots
Ginkgo biloba Maidenhair Tree %	'Autumn Gold'	50-70 ft Ht 30-40 ft Sp	Slow	Full Sun	Well drained soil Very tough – good urban tree
Lagerstromia indica & fauriei Crepe Myrtle %	'Miami' 'Natchez' 'Tuscarora' Muskogee, Tuskegee, Biloxi, Choctaw, Fantasy	20-40 ft Ht 20-35 ft Sp	Medium	Full Sun	Well drained soil Flowers all Summer Drought tolerant
Magnolia grandiflora Southern Magnolia*	'DD Blanchard' 'Claudia Wanamaker' 'Overton' 'Bracken's Brown Beauty'	20-80 ft Ht 20-50 ft Sp	Slow to Medium	Full Sun to Part Shade	Well drained soil May be considered too large for most parking islands Evergreen

Botanical/ Common Name	Recommended Varieties	Height/Spread At Full Maturity	Growth Rate	Exposure	Notes & Culture
Pistache chinensis Chinese Pistache%		30-35 ft Ht 25-35 ft Sp	Slow	Full Sun	Well drained soil. Exceptionally tough urban tree.
Quercus alba White Oak*		50-80 ft Ht 40-80 ft Sp	Slow to Medium	Full Sun	Moist to well drained soil Reddish purple fall color Not tough enough for parking lots
Quercus lyrata Overcup Oak* %		40-60 ft Ht 40-60 ft Sp	Medium	Full Sun	Wet to well drained soil Very tough
Quercus nigra Water oak* %		50-80 ft Ht 30-60 ft Sp	Medium to Fast	Full Sun to light Shade	Moist to well drained soil Salt Tolerant
Quercus nutallii Nutall Oak* %		40-60 ft Ht 30-50 ft Sp	Medium	Full Sun	Moist to well drained soil Red fall color. Faster growing than Shumard Oak.
Quercus phellos Willow Oak* %		40-80 ft Ht 30-80 ft Sp	Medium to Fast	Full Sun	Moist to well drained soil Fine texture foliage
Quercus shumardii Shumard Oak* %		40-60 ft Ht 40-60 ft Sp	Medium	Full Sun	Moist to well drained. Very similar to Nutall Oak
Quercus virginiana Southern Live Oak* %		40-80 ft Ht 60-100 ft Sp	Medium	Full Sun to part Shade	Adapts to most soil types Salt Tolerant Evergreen
Taxodium distichum Bald Cypress* %		50-70 ft Ht 20-30 ft Sp	Medium	Full Sun	Wet to well drained soils Lacey foliage Extremely tough
Ulmus parvifolia Lacebark Elm %	'Bosque' 'Allee' 'Athena'	40-50 ft Ht 30-40 ft Sp	Fast	Full Sun	Well drained soil Exfoliating bark extremely tough

Native Plants*

Plants native to Southeastern USA are marked with an asterisk (*). These plants are endemic to Southeastern United States from Virginia to eastern Texas.

Trees recommended for parking islands %

Trees marked with a percent sign (%) indicates which trees are most likely to be successful in limited root zone areas (parking lot islands). Some of the others are great trees for our area (i.e. Red Maple and American beech) but they may not be suitable for confined areas such as parking lots. This does not mean they should not be considered for larger planting spaces such as common areas, buffer plantings or large islands.

Drought Tolerant Plants

Extremely drought tolerant plants are marked with an underline. When planted in their preferred soil type, these plants are able to withstand extended periods of drought, 4-6 weeks, without supplemental irrigation once established. Most trees and shrubs take two to three growing seasons to become fully established. Perennials, grasses and groundcovers usually require one to two seasons to become established. Regular supplemental water should be provided until plants become established.

Mature Size

Mature sizes of all plants are given as height and spread, though it may take many years to reach these dimensions. Mature size can vary depending on growing conditions.

Recommended Varieties

For many plants, recommended varieties are given. These are selections of that plant that either perform better in our area or are more suitable to the landscape than the plain species. Plant varieties, also known as cultivars, are listed enclosed in single quotes.

Exposure

Exposure refers to the amount of sunlight a site receives as follows:

- **Full Sun** indicates a site that receives at least 6-8 hours of direct sun each day.
- **Light Shade** indicates a site that is shaded less than half of the day by a light high shade such as that cast by pine trees.
- **Part Shade** indicates a site that is shaded half of the day by a dense shade like that cast by buildings or shade trees.
- **Full Shade** indicates a site that is in shade all day.

Soil Conditions

- **Wet** indicates a site that stays moist most of the time and receives periodic flooding
- **Moist** indicates a site that is moist most of the time with brief (less than 12 Hrs.) periods of standing water.
- **Well drained** indicates a site where water drains from the surface and rarely stands.
- **Xeric** indicates a site that is extremely dry and sandy with very little ability to hold water.

Recommended Understory Trees

Deciduous Species

Botanical/ Common Name	Recommended Varieties	Height/Spread At Full Maturity	Growth Rate	Exposure	Notes & Culture
Acer barbatum Southern Sugar Maple*		20-25 ft Ht 15-20 ft Sp	Medium	Sun to Light Shade	Moist to well drained soil Yellow & orange Fall color
Acer buergerianum Trident maple		20-25 ft Ht 10-15 ft Sp	Medium	Sun	Well drained soil Yellow, orange & red Fall color
Acer palmatum Japanese Maple		10-25 ft. Ht 10-20 ft Sp	Slow	Sun to Part Shade	Well drained, consistently moist soil. Good specimen tree. Does best under irrigation.
Amelanchier arborea Serviceberry*	'Autumn Brilliance'	20-25 ft Ht 10-15 ft Sp	Medium	Sun to Part Shade	Moist to well drained soil Orange fall color White flowers in Spring
Carpinus caroliniana Ironwood*		20-30 ft Ht 15-25 ft Ht	Slow	Sun to Shade	Wet to well drained soil Interesting bark Very shade tolerant
Cercis canadensis Redbud*	'Forest Pansy' 'Royal White' 'Oklahoma'	12-30 ft Ht 15-25 ft Sp	Medium	Sun to part Shade	Moist to well drained soil Purple or white flowers in Spring
Chionanthus retusus% Chinese Fringetree		12-25 ft. Ht 15-25 ft Sp	Slow	Sun to Part Shade	Well drained soil White flowers in Spring Very drought tolerant
Cornus florida Dogwood*	'Cloud 9' 'Cherokee Princess'	15-25 ft Ht 10-20 ft Sp	Slow to Medium	Sun to Part Shade	Moist to well drained soil White flowers in Spring Burgundy Fall color Performs best under irrigation.

Botanical/ Common Name	Recommended Varieties	Height/Spread At Full Maturity	Growth Rate	Exposure	Notes & Culture
Cornus kousa Kousa Dogwood		15-30 ft Ht 15-30 ft Sp	Slow to Medium	Sun to Light Shade	Well drained soil White flowers in Spring
Ilex decidua Possumhaw*	'Warren's Red' 'Council Fire'	15-20 ft Ht 10-15 ft Sp	Medium	Sun to Light Shade	Moist to well drained soil. Red berries in Fall and Winter
Lagerstromia indica% Crepe Myrtle	'Apalachee' 'Catawba' 'Osage' 'Seminole' 'Sioux' 'Tuskegee' 'Yuma'	10-30 ft Ht 10-25 ft Sp	Fast	Sun	Well drained soil Blooms in Summer
Magnolia stellata Star Magnolia		15-20 ft Ht 10-15 ft Sp	Slow	Sun to Light Shade	Well drained soil White or pink flowers in Spring
Magnolia x soulangiana Saucer Magnolia		20-30 ft Ht 15-25 ft Sp	Medium	Sun to Light Shade	Pink flowers in Spring
Prunus campanulata% 'Okame' Cherry		15-30 ft Ht 15-30 ft Sp	Medium	Sun to Light Shade	Well drained soil Pink flowers in Spring More drought tolerant than most flowering cherries.
Prunus mume Japanese Flowering Apricot		15-25 ft Ht 15-25 ft Sp	Medium	Sun to Light Shade	Well drained soil Pink, Red or White flowers in Winter
Prunus serrulata Japanese Flowering Cherry	'Kwanzan'	20-30 ft Ht 20-30 ft Sp	Medium	Sun to Light Shade	Well drained soil Pink flowers in Spring Performs best under irrigation.
Prunus x yedoensis Yoshino Cherry		15-25 ft Ht 15-25 ft Sp	Medium	Sun to Light Shade	Well drained soil Light Pink flowers in Spring Performs best under irrigation.

Botanical/ Common Name	Recommended Varieties	Height/Spread At Full Maturity	Growth Rate	Exposure	Notes & Culture
Styrax japonicus Japanese Snowbell	'Emerald Pagoda' 'Pink Chimes'	20-30 ft Ht 20-30 ft Sp	Medium	Sun to Part Shade	Well drained soil White or Pink flowers in Spring Performs best under irrigation.
Viburnum prunifolium Blackhaw Viburnum*		10-20 ft Ht 10-15 ft Sp	Medium	Sun to part Shade	Moist to well drained soil White flowers in Spring Edible black fruit in Fall
Vitex agnus- castus% Chastetree		15-20 ft Ht 10-15 ft Sp	Medium	Sun	Well drained soil Pink or Lavender blue flowers in Summer Very drought tolerant

Evergreen Species

Botanical/ Common Name	Recommended Varieties	Height/Spread At Full Maturity	Growth Rate	Exposure	Notes & Culture
Butia capitata Pindo palm		10-15 ft Ht 10-15 ft Sp	Medium	Sun to Light Shade	Moist to well drained soil
Eriobotrya japonica Loquat		15-20 ft Ht 15-20 ft Sp	Medium	Sun to light Shade	Well drained soil Fragrant white flowers in Fall
Ilex Hybrids% Red Hollies	'Oakleaf' 'Cardinal' 'Robin' 'Liberty' 'Patriot'	10-15 ft Ht 8-15 ft Sp	Medium	Sun to light Shade	Well drained soil
Ilex latifolia Lusterleaf holly		20-25 ft Ht 15-20 ft Sp	Medium	Sun to Part Shade	Well drained soil Red berries in Fall and Winter
Ilex opaca American Holly*		20-30 ft Ht 15-20 ft Sp	Slow	Sun to Part Shade	Moist to well drained soil Red berries in Fall and Winter
Ilex vomitoria% Yaupon Holly*	'Hoskin's shadow' 'Kathy Ann' 'Katherine'	15-20 ft Ht 10-15 ft Sp	Medium to Fast	Sun to Light Shade	Moist to Xeric soils Red Orange or Yellow berries in Fall and Winter

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Ilex x attenuata% Topel Holly*	'Savannah' 'Foster's #2' 'East Palatka'	20-30 ft Ht 10-15 ft Sp	Medium	Sun to Part Shade	Moist to well drained soils Red berries in Fall and Winter
Ilex x 'Nellie R. Stevens'% Nellie Stevens Holly		15-25 ft Ht 10-15 ft Sp	Medium	Sun to Part Shade	Moist to well drained soils Red berries in Fall and Winter
Magnolia grandiflora 'Little Gem'% Little Gem Magnolia*		15-25 ft Ht 10-15 ft Sp	Slow to Medium	Sun to Part Shade	Moist to well drained soils Fragrant White flowers in Summer
Magnolia virginiana Sweet Bay Magnolia*		20-30 ft Ht 10-20 ft Sp	Medium to Fast	Sun to Part Shade	Moist to well drained soil Fragrant White flowers in Spring Moderately evergreen – may lose most of its foliage in harsh winters
Myrica cerifera% Southern Wax Myrtle*		10-20 ft Ht 10-20 ft Sp	Fast	Sun to Light Shade	Wet to Xeric soil Blue-Black berries on female plants in winter
Prunus caroliniana% Carolina Cherry Laurel*		15-30 ft Ht 15-20 ft Sp	Fast	Sun to Light Shade	Well drained to Xeric soil White flowers in Spring
Osmanthus fragrans Fragrant Tea Olive		15-30 ft Ht 8-15 ft Sp	Medium	Sun to Light Shade	Moist to well drained soil Fragrant White flowers in Fall and Winter May be grown as a large shrub or small tree
Osmanthus fortunei Fortune's Osmanthus		15-25 ft Ht 8-20 ft Sp	Medium to Fast	Sun to Light Shade	Moist to well drained soil May be grown as a large shrub or small tree
Sabal palmetto Palmetto Palm*		10-30 ft Ht 10-15 ft Sp	Slow	Sun to Part Shade	Moist to well drained soil

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Recommended Screening Shrubs

Botanical/ Common Name	Recommended Varieties	Height/Spread At Full Maturity	Spacing for Continuous Screen	Growth Rate	Exposure	Notes & Culture
Bambusa multiplex Hedge Bamboo		15-20 ft Ht 6-10 ft Sp	5 ft on center	Fast	Light to Part Shade	Well drained soil Clump forming bamboo. Not invasive – does not spread like most bamboos.
Elaeagnus Elaeagnus pungens, Elaeagnus ebbingii		10-15 ft Ht 10-15 ft Sp	5 ft on center	Fast	Sun	Well drained to Xeric soil, Very tough, Salt tolerant. Extremely vigorous. Best reserved for very sandy, poor soils and areas receiving salt spray.
Feijoa sellowiana Pineapple Guava		6-10 ft Ht 5-8 ft Sp	4-5 ft on center	Fast	Sun	Well drained soil Pink & crimson flowers in Spring, gray foliage
Ilex cornuta Chinese Holly	'Burfordii' 'Needlepoint' 'Fine Line'	8-15 ft Ht 6-12 ft Sp	6-8 ft on center	Medium	Sun to Light Shade	Well drained soil Dark green glossy leaves, Red berries in Fall & Winter
Ilex cornuta Dwarf Burford Holly	'Burfordii nana'	5-7 ft Ht 5-7 ft Sp	4 ft on center	Medium	Sun to Light Shade	Well drained soil Not to be confused with 'Burfordii' as it is much more compact
Ilex vomitoria Yaupon Holly*		8-15 ft Ht 6-10 ft Sp	6 ft on center	Medium to Fast	Sun to Part Shade	Moist to Xeric soil Red or orange berries in Fall & Winter. Tolerates salt spray.
Ilex x 'Nellie R. Stevens' Nellie Stevens Holly		15-25 ft Ht 10-15 ft Sp	10 ft on center	Fast	Sun to Part Shade	Moist to well drained soil, Green, glossy leaves. Red berries in Fall & Winter
Ilex x Red Hybrids Red Hollies	'Cardinal' 'Festive' 'Little Red' 'Oakleaf' 'Robin'	10-14 ft Ht 6-8 ft Sp	6 ft on center	Medium	Sun to Part Shade	Well drained soil Reddish new growth
Illicium parviflorum Anise Tree*		8-12 ft Ht 6-10 ft Sp	5-6 ft on center	Medium	Sun to Shade	Wet to well drained soil. Fragrant foliage

Botanical/ Common Name	Recommended Varieties	Height/Spread At Full Maturity	Growth Rate	Exposure	Notes & Culture	Botanical/ Common Name
Juniperus chinensis 'Spartan' 'Spartan Juniper'		12-20 ft Ht 4-6 ft Sp	4 ft on center	Medium	Sun	Well drained soil. Tolerates salt spray.
Ligustrum japonicum Japanese Privet	'Davidson's Hardy' 'Recurvifolium'	6-12 ft Ht 6-10 ft Sp	6 ft on center	Medium	Sun to Light Shade	Well drained soil Tough plant with green, glossy foliage
Loropetalum chinense Pink Lorepetalum	'Zhuzhou Fuchsia'	10-15 ft Ht 8-12 ft Sp	7 ft on center	Fast	Sun to Light Shade	Well drained, acid soil Hot pink fringy flowers in Spring Maroon-purple Foliage
Magnolia Grandiflora	'Little Gem' 'Kay Parris'	12- 20 ft Ht 8-10 ft Sp	8 ft on center	Slow	Sun to Part Shade	Large green glossy foliage. White flowers Summer
Myrica cerifera Southern Wax Myrtle*		8-15 ft Ht 8-15 ft Sp	6-8 ft on center	Fast	Sun to Part Shade	Moist to Xeric soil Extremely tough native shrub
Osmanthus Tea Olive	'Fragrans' 'Fortunei' 'Heterophyllus'	10-15 ft Ht 10-15 ft Sp	6-8 ft on center	Medium	Sun to Part Shade	Well drained soil Can be easily maintained at 5-6 ft
Pittosporum tobira	'Varegata' 'Variegata Winter Pride' 'Louisiana Green'	8-12 ft Ht 8-12 ft Sp	6-8 ft on center	Slow to Medium	Sun to Part Shade	Well drained soil Salt Tolerant Prone to deer damage
Rhaphiolepis umbellata. Indian Hawthorn	'Majestic Beauty'	8-10 ft Ht 8-10 ft Sp	6-8 ft on center	Medium	Sun	Well drained soil. Salt Tolerant. Prone to deer damage. Resistant to leaf spot disease that often affects other Indian Hawthorn varieties. Pink flowers in early summer.
Ternstroemia gymnathera Japanese Cleyera	'Bronze Beauty' 'Jade Tiara'	8-12 ft Ht 5-7 ft Sp	5 ft on center	Slow	Sun to Full Shade	Well drained soil Very glossy green foliage with reddish new growth.
Thuja plicata Giant Arborvitae	'Green Giant'	30-40 ft Ht 10-15 ft Sp	10 ft on center	Fast	Sun to Part Shade	Well drained soil. Not as drought tolerant as 'Spartan' Juniper

Botanical/ Common Name	Recommended Varieties	Height/Spread At Full Maturity	Growth Rate	Exposure	Notes & Culture	Botanical/ Common Name
Viburnum awabuki 'Chindo' Chindo Viburnum		10-15 ft Ht 6-8 ft Sp	6 ft on center	Medium	Sun to Part Shade	Well drained soil Large dark green glossy leaves
Viburnum tinus Laurustinus		6-10 ft Ht 6-8 ft. Sp	4-6 ft on center	Medium	Sun to Shade	Well drained soil. Pink flower buds open up to white blossoms in late winter. Salt spray tolerant.

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- **Xeric** indicates a site that is extremely dry and sandy with very little ability to hold water.

Recommended Ornamental Shrubs

Deciduous Species

Botanical/ Common Name	Recommended Varieties	Height/Spread At Full Maturity	Growth Rate	Exposure	Notes & Culture
Berberis thunbergii Japanese Barberry	'Crimson Pygmy' 'Gentry' 'Rose Glow'	2-3 ft Ht 3-4 ft Sp	Medium	Sun	Well drained soil Reddish-purple foliage. Small Thorns.
Callicarpa americana* American Beautyberry		4-8 ft Ht 4-8 ft Sp	Fast	Sun to Light Shade	Moist to well drained soil Magenta purple fruit in late Summer
Callicarpa dichotoma Purple Beautyberry		4-5 ft Ht 5-8 ft Sp	Fast	Sun to light Shade	Well drained soil Lilac-violet fruit in Summer
Chaenomeles speciosa Flowering Quince	'Cameo' 'Jet Trail' 'Texas Scarlet'	3-6 ft Ht 3-6 ft Sp	Medium	Sun to Part Shade	Well drained soil. Thorny plant with Scarlet –Red to Pink or White flowers in late Winter early Spring.
Euonymus alatus Winged Euonymus		5-15 ft Ht 5-15 ft Sp	Slow	Sun to Light Shade	Well drained soil Brilliant Red fall color deserving of the name 'Burning Bush'
Forsythia x intermedia Forsythia	'Lynwood Gold'	6-10 ft Ht 6-10 ft Sp	Fast	Sun	Well drained soil Dark Green leaves in Summer Deep Yellow flowers in early Spring
Hibiscus syriacus Rose of Sharon		8-12 ft Ht 6-10 ft Sp	Medium	Sun to Part Shade	Moist, well drained soil with high organic matter. White to Red to Purple-Violet flowers in Summer
Hydrangea macrophylla Bigleaf Hydrangea	'Merritt's Beauty' 'Nikko Blue' 'Endless Summer' Too many to list	3-10 ft Ht 3-10 ft Sp	Fast	Light to Part Shade	Moist, well drained soil with high organic matter. White, Pink, Blue or Purple flowers in Summer

Botanical/ Common Name	Recommended Varieties	Height/Spread At Full Maturity	Growth Rate	Exposure	Notes & Culture
Hydrangea paniculata Panicle Hydrangea	'Chantilly Lace' 'Tardiva' 'Unique'	8-20 ft Ht 8-20 ft Sp	Fast	Sun to Part Shade	Moist well drained soil. White changing to mauve pyramidal shaped flowers in Summer
Hydrangea quercifolia* Oakleaf Hydrangea	'Alice' 'Snow Queen'	5-10 ft Ht 5-15 ft Sp	Slow to Medium	Sun to Part Shade	Moist, well drained soil. White changing to purplish-pink flowers in late Spring into early Summer.
Ilex verticillata* Winterberry	'Winter Red' 'Red Sprite'	6-10 ft Ht 8-15 ft Sp	Slow to Medium	Sun to Part Shade	Moist to wet acid soil. Red berries in Winter. Requires male & female for fruit set.
Lonicera sempervirens* Coral Honeysuckle	'Leo'	10-20 ft Ht 10-20 ft Sp	Fast	Sun to Shade	Well drained soil. Vigorous vine best placed on a fence or trellis. Orange, Red & Yellow flowers in Spring.
Spiraea x bumalda Japanese Spirea	'Anthony Waterer'	2-5 ft Ht 3-5 ft Sp	Fast	Sun	Well drained soil. White to Deep pink flowers in Summer.
Spiraea japonica Japanese Spirea	'Little Princess' 'Neon Flash' 'Shirobana' 'Goldmound'	2-4 ft Ht 2-4 ft Sp	Fast	Sun	Well drained soil. Rosy Pink flowers in Summer.
Spiraea nipponica 'Snowmound' Spirea	'Snowmound'	3-5 ft Ht 4-5 ft Sp	Medium	Sun to Part Shade	Well drained soil. Small Blue-Green leaves. White flowers in early Summer.
Spiraea x vanhouttei Vanhoutte Spirea		6-10 ft Ht 10-12 ft Sp	Medium	Sun to Part Shade	Well drained soil. Vase shaped plant with very showy White flowers in Spring
Viburnum macrocephalum Chinese Snowball Bush		12-15 ft Ht 10-15 ft Sp	Medium	Sun to Part Shade	Moist, well drained soil. Large clusters of white flowers in Spring

Botanical/ Common Name	Recommended Varieties	Height/Spread At Full Maturity	Growth Rate	Exposure	Notes & Culture
Viburnum plicatum var. tomentosum Doublefile Viburnum	'Shasta' 'Maresii'	8-10 ft Ht 8-10 ft Sp	Medium	Light Shade	Well drained soil. White flowers in Spring.
Viburnum prunifolium* Blackhaw Viburnum		12-15 ft Ht 8-12 ft Sp	Slow to Medium	Sun to Part Shade	Well drained to dry soil. Creamy White flowers in Spring.
Weigela florida Weigela		6-9 ft Ht 9-12 ft Sp	Medium	Sun	Well drained soil. Pink flowers in late spring.

Evergreen Species

Botanical/ Common Name	Recommended Varieties	Height/Spread At Full Maturity	Growth Rate	Exposure	Notes & Culture
Abelia x 'Rose Creek' Rose Creek Abelia		3-4 ft Ht 3-4 ft Sp	Medium	Sun to part Shade	Well drained soil. Whitish-Pink flowers all Summer turning mauve .Dried flowers persist into Winter.
Abelia grandiflora Glossy Abelia	'Edward Goucher' 'Francis Mason' 'Little Richard' 'John Creech'	3-6 ft Ht 3-6 ft Sp	Medium to fast	Sun	Well drained soil. Semi evergreen during cold winters. Pink or White flowers in Summer.
Aucuba japonica Dwarf Aucuba	'Gold Dust' 'Nana' 'Serratifolia'	5-10 ft Ht 4-8 ft Sp	Slow	Part Shade to Shade	Moist, well drained acid soil that is high in organic matter. Large Green, glossy leaves with a tropical look. 'Gold Dust' has yellow speckled foliage.
Bambusa multiplex Hedge Bamboo		15-20 ft Ht 6-10 ft Sp	Fast	Light to Part Shade	Well drained soil Clump forming bamboo. Not invasive – does not spread like most bamboos.
Camellia japonica Common Camellia	'Marie Bracie' 'Professor Charles S. Sargent' 'Dr. Tinsley' Too many to list	5-15 ft Ht 5-15 ft Sp	Slow	Sun to Shade	Well drained acid soil with high organic matter. Blooms in late Winter to early Spring. Many varieties available in White, Pink, & Red

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Camellia sasanqua Sasanqua Camellia	'Yuletide' 'Kanjiro' 'Show-no-Sake' Too many to list	5-15 ft Ht 5-15 ft Sp	Slow	Sun to Shade	Well drained acid soil with high organic matter. Blooms in late Fall to early Winter. Many varieties available in White, Pink, & Red
Cephalotaxis harringtonia False Yew	'Duke Gardens' 'Prostrata'	3-4 Ht 6-8 ft Sp	Slow	Sun to Shade	Well drained soil. Drought tolerant once established. Deer resistant
Chamaecyparis obtusa Hinoki False Cypress	'Nana Gracillis'	5-6 ft Ht 3-4 ft Sp	Slow	Sun to Part Shade	Moist, well drained acid soil.
Chamaecyparis pisifera Japanese False Cypress	'Boulevard' 'Filifera' 'Filifera Aurea'	10-20 ft Ht 10-15 ft Sp	Medium	Sun	Moist, well drained soil.
Clematis armandii Evergreen Clematis		20 ft Sp	Fast	Light to Part Shade	Well drained soil. Vine with dark Green, glossy leaves and white flowers in mid Spring. Needs support.
Clethra alnifolia* Summersweet	'Sixteen Candles' 'Hummingbird'	4-8 ft Ht 4-6 ft Sp	Slow to Medium	Sun to Part Shade	Moist to Wet acid soil. Very fragrant, white flowers in Summer
Eleagnus pungens Eleagnus ebbingii Eleagnus		10-15 ft Ht 10-15 ft Sp	Fast	Sun	Well drained to Xeric soil, Very tough, Salt tolerant. Extremely vigorous. Best reserved for very sandy, poor soils and areas receiving salt spray
X Fatshedera lizei Fatshedera		6-8 ft Ht 4 ft Sp	Medium	Part to Full Shade	Tolerant of light sandy or clay soils but prefers moist acid soil high in organic matter. Vine that is a cross between Fatsia & English ivy

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Fatsia japonica Japanese Fatsia		6-10 ft Ht 6-10 ft Sp	Medium	Part to Full Shade	Tolerant of light sandy or clay soils but prefers moist acid soil high in organic matter. Large Green glossy tropical looking leaves. White flowers in Fall
Feijoa sellowiana Pineapple Guava		6-10 ft Ht 5-8 ft Sp	Fast	Sun	Well drained soil. Pink & crimson flowers in Spring, gray foliage.
Gardenia jasminoides Cape Jasmine	'Chuck Hayes' 'August Beauty' 'Frost proof'	5-10 ft Ht 5-10 ft Sp	Medium	Sun to Part Shade	Moist well drained, acid soil that is high in organic matter. Protect from winter winds. Deer Resistant.
Ilex cornuta Chinese Holly	'Carissa' 'Needlepoint' 'Rotunda' 'Burfordi' 'Dwarf Burford'	4-15 ft Ht 5-12 ft Sp	Medium	Sun to Part Shade	Well drained soil. Drought & heat tolerant. Green, glossy, spined leaves. Red berries in Winter
Ilex glabra Inkberry Holly*	'Shamrock'	4-6 ft Ht 4-6 ft Sp	Slow	Sun to Shade	Moist acid soil.
Ilex vomitoria Yaupon Holly*	'Katherine' 'Hoskins Shadow'	15-20 ft Ht 8-12 ft Sp	Medium to Fast	Sun to Shade	Moist to Xeric soil. Drought, heat & salt tolerant. Most adaptable native shrub for SE North Carolina
Ilex vomitoria * Dwarf Yaupon	'Shillings' 'Bourdeaux'	3-5 ft Ht 4-5 ft Sp	Medium to Fast	Sun to Shade	Moist to Xeric soil. Drought, heat & salt tolerant. Most adaptable native shrub for SE North Carolina
Ilex hybrids Hybrid Hollies	'Lydia Morris' 'Mary Nell' 'Emily Brunner' 'Nellie R. Stevens'	15-25 Ht 10-15 ft Sp	Medium to Fast	Sun to Part Shade	Well drained soil. Dark Green, spined leaves. Red berries in Winter. Pyramidal growth habit.

Botanical/ Common Name	Recommended Varieties	Height/Spread At Full Maturity	Growth Rate	Exposure	Notes & Culture
Illicium anisatum Spice Bush		6-10 ft Ht 6-10 ft Sp	Medium to Fast	Sun	Moist, well drained, acid soil. Fragrant foliage smells like licorice.
Illicium floridanum* Florida Anise Tree	'Halley's Comet' 'Shady Lady'	6-10 ft Ht 5-8 ft Sp	Medium	Part Shade to Shade	Moist, well drained to poorly drained acid soil with high organic content. Deer resistant
Illicium parviflorum* Small Anise Tree		6-10 ft Ht 5-8 ft Sp	Medium	Part Shade to Shade	Moist well drained to poorly drained soil with high organic content. Deer resistant
Jasminum nudiflorum Winter Jasmine		3-4 ft Ht 4-7 ft Sp	Fast	Sun to Part Shade	Prefers moist well drained soil but adaptable to poor soil. Moderately drought tolerant once established. Good erosion control.
Juniperus chinensis Chinese Juniper	'Compacta' 'Spartan' 'Robusta green' 'Hetzii' 'Sargentii' 'Pfitzeriana'	3-20 ft. Ht 3-12 ft Sp	Slow to Medium	Sun	Well drained soil. Drought tolerant once established.
Juniperus 'Kaizuka' Hollywood Juniper	'Torulosa'	15-25 ft Ht 8-15 ft Sp	Medium	Sun	Well drained soil. Drought tolerant once established. Salt tolerant
Juniperus davurica Parson's Juniper	'Expansa'	2-3 ft Ht 6-8 ft Sp	Medium	Sun to Part Shade	Well drained soil. Excellent heat tolerance.
Ligustrum japonicum Japanese Privet	'Davidson's Hardy' 'Recurvifolium'	6-12 ft Ht 6-10 ft Sp	Medium	Sun to Light Shade	Well drained soil Tough plant with green, glossy foliage
Loropetalum chinense Pink Lorepetalum	'Zhuzhou Fuchsia' 'Ruby' 'Burgundy' 'Blush'	6-15 ft Ht 6-12 ft Sp	Fast	Sun to Light Shade	Well drained, acid soil Hot pink fringy flowers in Spring Maroon-purple Foliage

Botanical/ Common Name	Recommended Varieties	Height/Spread At Full Maturity	Growth Rate	Exposure	Notes & Culture
Michelia figo Banana Shrub		5-10 ft Ht 5-10 ft Sp	Medium	Sun	Moist, well drained, acid soil. Small creamy white flowers that smell like ripe bananas in Spring
Myrica cerifera* Southern Wax Myrtle		8-15 ft Ht 8-15 ft Sp	Fast	Sun to Part Shade	Moist to Xeric soil Extremely tough native shrub
Nandina domestica Heavenly Bamboo	'Gulfstream' 'Harbor Dwarf' 'Firepower' 'Moon Bay'	2-5 ft Ht 2-4 ft Sp	Medium	Sun to Shade	Well drained soil. Clusters of Red berries in winter. White flower panicles in spring.
Osmanthus Tea Olive	'Fragrans' 'Fortunei' 'Heterophyllus'	10-15 ft Ht 10-15 ft Sp	Medium	Sun to Part Shade	Well drained soil Can be easily maintained at 5-6 ft
Podocarpus macrophyllus Chinese Podocarpus	'Maki'	10-15 ft Ht 5-6 ft Sp	Slow	Sun to Shade	Well drained soil. Deer resistant.
Pittosporum tobira Japanese Pittosporum	'Variegata' 'Winter Pride' 'Louisiana Green'	2-12 ft Ht 4-12 ft Sp	Slow to Medium	Sun to Part Shade	Well drained soil Salt Tolerant Prone to deer damage
Pyracantha coccinea Scarlet Firethorn		6-18 ft Ht 6-18 ft Sp	Medium to Fast	Sun to Part Shade	Well drained soil. Commonly used for espaliers on walls & trellises. Red or orange berries in winter. Thorns!
Rhapheolepis umbellata Indian Hawthorn	'Olivia' 'Eleanor Tabor' 'Majestic Beauty'	2-10 ft Ht 4-10 ft Sp	Medium	Sun	Well drained soil. Salt Tolerant. Prone to deer damage. 'Majestic Beauty' is resistant to leaf spot disease that often affects other Indian Hawthorn varieties. However best used as a beach plant in sandy soils with good air circulation. Pink or White flowers in early summer.

Botanical/ Common Name	Recommended Varieties	Height/Spread At Full Maturity	Growth Rate	Exposure	Notes & Culture
Rhododendron Hybrids Azalea	'Formosa' 'Coral Bells' Too many to list!	2-6 ft Ht 2-4 ft Sp	Medium	Light to Part Shade	Moist, well drained soil a must! Available in many different colors blooming from early Spring to early Summer. 'Encore' TM varieties bloom Spring, Summer & Fall
Rosa banksiae 'lutea' Lady banks rose		20 ft Sp	Medium to Fast	Sun	Well drained soil. Plant on fences, arbors & trellises. Thornless rose with Yellow or White flowers in Spring.
Rosa 'Radrazz' Knockout Rose		3-5 ft Ht 3-5 ft Sp	Medium to Fast	Sun	Well drained soil. Cherry Red Rose with excellent resistance to leaf spot and other problems associated with Roses. Drought and salt tolerant
Rosa Rugosa Saltspray Rose		4-6 ft Ht 4-6 ft Sp	Fast	Sun	Well drained soil. Excellent beach plant with good salt & drought tolerance. Rose- purple to White flowers in Summer
Rosmarinus officinalis Rosemary		2-5 ft Ht 2-5 ft Sp	Slow	Sun	Well drained soil. Tolerates wind and salt spray. Very deer resistant.
Ternstroemia gymnathera Japanese Clevera	'Bronze Beauty' 'Jade Tiara'	8-12 ft Ht 5-7 ft Sp	Slow	Sun to Full Shade	Well drained soil Very glossy green foliage with reddish new growth
Thuja occidentalis Emerald Arborvitae	'Emerald'	10-15 ft Ht 3-4 ft Sp	Slow to medium	Sun	Moist, well drained, acid soil. Good specimen, accent or hedge plant

Botanical/ Common Name	Recommended Varieties	Height/Spread At Full Maturity	Growth Rate	Exposure	Notes & Culture
Tracheospermum jasminoides Confederate Jasmine		15 ft Sp	Medium to Fast	Part Shade to Shade	Well drained soil. Climbing vine that needs support. Dark, Green, glossy leaves with fragrant White flowers in Spring.
Viburnum awabuki 'Chindo' Chindo Viburnum		10-15 ft Ht 6-8 ft Sp	Medium	Sun to Part Shade	Well drained soil Large dark green glossy leaves
Viburnum obovatum* Walter's Viburnum	'Densa' 'Whorled Class'	4-8 ft Ht 3-8 ft Sp	Medium	Sun to Part Shade	Wet to well drained soil. Fine textured foliage with clusters of small White flowers in early Spring
Viburnum tinus Laurustinus		6-10 ft Ht 6-8 ft. Sp	Medium	Sun to Shade	Well drained soil. Pink flower buds open up to white blossoms in late winter. Salt spray tolerant.
Yucca filamentosa* Adam's Needle Yucca	'Bright Edge' 'Colorguard'	2-3 ft Ht 2-3 ft Sp	Medium	Sun to Light Shade	Well drained soil. Drought, heat & salt tolerant. White panicle type flowers rise 2-3 ft above foliage in late spring. Great beach plant. Deer resistant

Native Plants*

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Drought Tolerant Plants

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Mature Size

Mature sizes of all plants are given as height and spread, though it may take many years to reach these dimensions. Mature size can vary depending on growing conditions.

Recommended Varieties

For many plants, recommended varieties are given. These are selections of that plant that either perform better in our area or are more suitable to the landscape than the plain species. Plant varieties, also known as cultivars, are listed enclosed in single quotes.

Exposure

Exposure refers to the amount of sunlight a site receives as follows:

- **Full Sun** indicates a site that receives at least 6-8 hours of direct sun each day.
- **Light Shade** indicates a site that is shaded less than half of the day by a light high shade such as that cast by pine trees.
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- **Full Shade** indicates a site that is in shade all day.

Soil Conditions

- **Wet** indicates a site that stays moist most of the time and receives periodic flooding
- **Moist** indicates a site that is moist most of the time with brief (less than 12 Hrs.) periods of standing water.
- **Well drained** indicates a site where water drains from the surface and rarely stands.
- **Xeric** indicates a site that is extremely dry and sandy with very little ability to hold water.

Recommended Groundcovers

Deciduous Species

Botanical/ Common Name	Recommended Varieties	Height/Spread At Full Maturity	Growth Rate	Exposure	Notes & Culture
Canna hybrids Canna Lily	'Miss Oklahoma' 'Red King Humpert' 'The President'	2-6 ft Ht 3- 6 ft Sp	Medium to Fast	Sun	Moist to well drained soil. Good choice for slopes and excellent erosion control
Cotoneaster dammeri Rockspray Cotoneaster	'Tom Thumb'	1-2 ft Ht 2-4 ft Sp	Medium	Sun	Well drained soil. Drought tolerant once established
Hemerocallis Daylily	'Stella D'Oro' 'Lemon Yellow' 'Cranberry baby' 'Happy Returns' 'Little Business'	1-3 ft Ht 1-3 ft Sp	Fast	Sun to Light Shade	Tolerant of most soils. Excellent for erosion control. Extremely drought and salt tolerant
Hosta lancifolia Plantain Lily	'Albomarginata' 'Francee' 'Krossa Regal' 'Gold Standard'	1-4 ft Ht 1-3 ft Sp	Medium	Shade	Moist to well drained soil.
Lantana camara Lantana	'New Gold' 'Spreading Sunset' 'Lemon Drop'	1-3 ft Ht 3- 4 ft Sp	Fast	Sun	Well drained to Xeric soil. Excellent for profuse color till frost. Drought and salt tolerant

Evergreen Species

Botanical/ Common Name	Recommended Varieties	Height/Spread At Full Maturity	Growth Rate	Exposure	Notes & Culture
Ajuga reptans Carpet Bugle	'Bronze Beauty' 'Burgandy Glow' 'Black Scallop'	3-4" Ht 24" Sp	Fast	Part Shade to Shade	Moist soil. Low spreading with lavender-blue flowers in Spring
Aspidistra elatior Cast Iron Plant		2 ft Ht 2-3 ft Sp	Slow	Light to Full Shade	Well drained soil. Large green upright leaves.
Cotoneaster dammeri Rockspray Cotoneaster	'Streib's Findling'	6"-12" Ht 3-4 ft Sp	Medium	Sun to Part Shade	Well drained soil Drought tolerant once established
Cyrtomium falcatum Holly Fern		2-3 ft Hg 2-3 ft Sp	Medium	Part to Full Shade	Well drained soil. More drought tolerant than most ferns. Deer Resistant.
Dryopteris erythrosora Autumn Fern		18"-24" Ht 2-3 ft Sp	Medium	Light to Full Shade	Bronze fronds emerge turning green with maturity. Can take some sun if under irrigation. Deer Resistant.
Euonymus fortunei Wintercreeper	'Coloratus'	2 ft Ht 3-4 ft Sp	Medium to Fast	Sun to Part Shade	Excellent for erosion control. Scale insects can be a problem. Prone to deer damage.
Hedera canariensis Algerian Ivy		12-18"Ht Indeterminate SP	Medium	Light to Full Shade	Well drained soil. Excellent for slopes & erosion control.
Juniperus chinensis Chinese Juniper	'Sargentii'	1 ft Ht 6-8 ft Sp	Medium	Sun	Well drained soil. Heat and salt tolerant
Juniperus conferta Shore Juniper		12"-18" Ht 6-8 ft Sp	Fast	Sun	Well drained soil. Heat, drought and salt tolerant. Excellent for erosion control on banks and landward side dunes.
Juniperus horizontalis Spreading Juniper	'Bar Harbor' 'Blue Rug' 'Andorra'	12"-18" Ht 3-5 ft Sp	Medium to Fast	Sun	Well drained soil. Good choice for difficult conditions and urban plantings
Juniperus procumbens nana Dwarf Japanese Garden Juniper		8"- 2 ft Ht 10-15 ft Sp	Slow	Sun	Well drained soil. Good choice for adverse conditions
Liriope muscari Lily Turf	'Big Blue' 'Varegata' 'Evergreen Giant'	1-3' Ht. 12"-18" Sp	Medium	Sun to Part Shade	Moist to Xeric soil. Drought and salt tolerant. Excellent erosion control. Can handle root competition

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Liriope spicata Creeping Lily Turf		6"-12" Ht. Indeterminate Sp	Fast	Sun to Part Shade	Moist to well drained soil. Rapidly spreading groundcover. Excellent erosion control. Can handle root competition
Nandina domestica Heavenly Bamboo	'Harbor Dwarf' 'Harbor Belle' 'Firepower'	2-3 ft Ht 2-3 ft Sp	Medium	Sun to Part Shade	Moist to well drained soil. Green foliage with red new growth.
Ophiopogon japonicus Mondo Grass		6-8" Ht 8"-12" Sp	Slow	Part Shade to Sun	Well drained soil Dark green foliage similar to Liriope with a narrower bladed leaf
Rosa wichuraiana Wichura Rose		1-2 ft Ht 10-20 ft Sp	Fast	Sun to Part Shade	Well drained soil. Excellent groundcover for erosion control on slopes
Rosmarinus officialis 'Prostratus' Trailing Rosemary		2-4 ft Ht 2-3 ft Sp	Slow	Sun	Well drained soil. Tolerates wind and salt spray. Very deer resistant.
Trachelospermum asiaticum Asiatic Jasmine		12"- 18" Ht 8-15 ft Sp	Medium to Fast	Sun to part Shade	Moist to well drained soil. Excellent vining groundcover. Good for erosion control once established
Vinca minor Periwinkle		5"-8" Ht 3-4 ft Sp	Medium to Fast	Shade to part Shade	Moist to well drained soil. Excellent under trees and shady banks.
Vinca major Big Leaf Periwinkle		1 ft Ht Indeterminate SP	Fast	Sun to Part Shade	Moist to well drained soil. Spreads rapidly. Lavender flowers in Spring. Good for slopes

Recommended Grasses

Botanical/ Common Name	Recommended Varieties	Height/Spread At Full Maturity	Growth Rate	Exposure	Notes & Culture
Acorus gramineus Japanese Sweetflag	'Variegatus'	2-3 ft Ht 12"-18" Sp	Medium	Sun to Light Shade	Wet to Moist soil. Not drought tolerant. Evergreen.
Carex morrowii Japanese Sedge	'Aureo-variegata'	12" Ht 12" SP	Medium	Sun to Part Shade	Wet to well drained soil. Evergreen.
Eragrostis curvula Weeping Love Grass		1-2 ½ ft Ht 18"- 24" Sp	Fast	Sun to Part Shade	Well drained soil. Good temporary erosion control. Short lived.

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Lomandra longifolia Breeze Grass	Breeze™	2' Ht 2' Sp	Medium	Sun to Part Shade	Moist to well drained soil. Evergreen. Soft, bright green foliage.
Pennisetum alopecuroides Fountain Grass	'Moudry' 'Hamlin' 'Little Bunny'	1-3 ft Ht 1-3 ft Sp	Medium	Sun to Light Shade	Moist to well drained soil. Good for erosion control
Leymus arenius Blue Lyme Grass	'Blue Dune'	1-2 ft Ht 3-4+ ft Sp	Fast	Part Shade	Moist soil. Striking blue- green foliage. Spreads extremely rapidly.
Miscanthus sinensis Maiden Grass	'Adagio' 'Little Kitten'	3-4 ft Ht 3-4 ft Sp	Medium to Fast	Sun	Well drained soil Drought and salt tolerant.
Muhlenbergia capillaris* Muhly Grass		2-3 ft Ht 2-3 ft Sp	Fast	Sun	Well drained soil. Pink flower plumes in fall.

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