

PERENNIALS

Recommended for New Hanover County Landscapes

Underlined plants are extremely drought-tolerant plant once established * = Indicates a plant native to SE USA
 Colors: W – White; P – Pink; R – Red; B – Blue; Pu – Purple; Y – Yellow; O – Orange; L - Lavender

PERENNIALS FOR SHADE

Common Name	Botanical Name	Water Use Zone	Recommended Varieties	Height	Color	Time of Bloom	Exposure	Soil
Bear's Breeches	<i>Acanthus</i> species and hybrids	1,2	'Summer Beauty'	3 – 4 ft	Pu	Summer	Light to Part Shade	Moist to Well Drained
Carpet Bugle	<i>Ajuga reptans</i>	1,2		4 – 8 in	B,W,Pu	Spring	Light to Full Shade	Moist to Well Drained
Eastern Columbine*	<i>Aquilegia canadensis</i>	1,2,3		2-3 ft	R/Y	Spring	Light to Part Shade	Well Drained
Italian Arum	<i>Arum italicum</i>	1,2	'Pictum'	1 – 2 ft	Foliage	Winter	Light to Full Shade	Moist to Well Drained
<u>Cast Iron Plant</u>	<i>Aspidistra elatior</i>	1,2,3		2 – 3 ft	Foliage	Evergreen	Part to Full Shade	Well Drained
Japanese Painted Fern	<i>Athyrium nipponicum</i>	1,2		18 in	Foliage		Light to Full Shade	Moist to Well Drained
Hardy Begonia	<i>Begonia grandis</i>	1,2		15 in	P	Summer	Light to Full Shade	Well Drained
Hardy Orchid	<i>Bletilla striata</i>	1,2		8 - 12 in	P,W	Spring	Light to Part Shade	Well Drained
Green and Gold*	<i>Chrysogonum virginianum</i>	1,2		8 – 12 in	Y	Spring	Light to Full Shade	Moist to Well Drained
Holly Fern	<i>Cyrtomium falcatum</i>	1,2,3		18 – 24 in	Foliage	Evergreen	Part to Full Shade	Well Drained

Common Name	Botanical Name	Water Use Zone	Recommended Varieties	Height	Color	Time of Bloom	Exposure	Soil
Autumn Fern	<i>Dryopteris erythrosa</i>	1,2		18 – 24 in	Foliage	Evergreen	Part to Full Shade	Well Drained
Southern Shield Fern*	<i>Dryopteris ludoviciana</i>	1,2		3 ft	Foliage		Part to Full Shade	Moist to Well Drained
Fairy Wings	<i>Epimedium x versicolor</i>	1,2		12 in	Y	Spring	Light to Full Shade	Well Drained
<u>Robb's Spurge</u>	<i>Euphorbia robbiae</i>	1,2,3		12 – 24 in	Y	Spring	Light to Part Shade	Well Drained
Lenten Rose	<i>Helleborus x hybridus</i>	1,2		12-15 in	W,P,L	Winter/Spring	Part to Full Shade	Well Drained
American Alumroot*	<i>Heuchera americana</i>	1,2,3	Many Available	8 – 12 in	W,P,R	Spring	Light to Full Shade	Well Drained
Hosta	<i>Hosta</i> species and hybrids	1,2,3		1-3 ft	Foliage	Spring/Summer	Part to Full Shade	Well Drained
Leopard Plant	<i>Ligularia tussilaginea</i>	1,2		18 – 24 in	Y	Fall	Part to Full Shade	Moist to Well Drained
Creeping Jenny	<i>Lysimachia nummularia</i>	1,2	'Aurea'	2 in	Foliage	Evergreen	Light to Full Shade	Moist to Well Drained
Woodland Phlox*	<i>Phlox divaricata</i>	1,2		8 – 12 in	B,W,L	Spring	Light to Part Shade	Moist to Well Drained
Variegated Solomon's Seal	<i>Polygonatum odoratum</i> 'Variegatum'	1,2,3		18 – 24 in	W	Spring	Light to Full Shade	Moist to Well Drained
Christmas Fern*	<i>Polystichum acrostichiodes</i>	1,2		12 – 18 in	Foliage	Evergreen	Part to Full Shade	Moist to Well Drained
Tassel Fern	<i>Polystichum polyblepharum</i>	1,2		18 in	Foliage	Evergreen	Part to Full Shade	Moist to Well Drained

Common Name	Botanical Name	Water Use Zone	Recommended Varieties	Height	Color	Time of Bloom	Exposure	Soil
<u>Sacred Lily</u>	<i>Rhodea japonica</i>	1,2,3		12 – 24 in	Foliage	Evergreen	Light to Full Shade	Well Drained
Strawberry Begonia	<i>Saxifraga stolonifera</i>	1,2		12 in	W	Spring	Light to Full Shade	Moist to Well Drained
Arborvitae Fern	<i>Selaginella braunii</i>	1,2		12 in	Foliage	Evergreen	Part to Full Shade	Moist to Well Drained
Indian Pink*	<i>Spigelia marilandica</i>	1,2		12 – 18 in	R/Y	Spring	Light to Part Shade	Well Drained
Foam Flower*	<i>Tiarella</i> hybrids	1,2		12 in	W	Spring	Light to Part Shade	Well Drained
Toad Lily	<i>Tricyrtis formosana</i>	1,2		12 – 24 in	W/Pu/L	Fall	Light to Part Shade	Moist to Well Drained

PERENNIALS FOR SUN

Common Name	Botanical Name	Water Use Zone	Recommended Varieties	Height	Color	Time of Bloom	Exposure	Soil
<u>Yarrow</u>	<i>Achillea millefolium</i>	1,2,3		2 - 3 ft	W,P,Y,O	Summer	Sun	Well Drained to Xeric
Anise Hyssop	<i>Agastache foeniculum</i>	1,2,3	'Blue Fortune'	2 – 3 ft	B	Summer	Sun	Well Drained
<u>Arkansas Blue Star*</u>	<i>Amsonia hubrichtii</i>	1,2,3		3 – 4 ft	B	Spring	Sun	Well Drained
Blue Star*	<i>Amsonia tabernaemontana</i>	1,2,3		3 – 4 ft	B	Spring	Sun to Part Shade	Moist to Well Drained
<u>Texas Firecracker*</u>	<i>Anisacanthus wrightii</i>	2,3		3 – 4 ft	R	Summer, Fall	Sun	Well Drained
<u>'Powis Castle' Artemisia</u>	<i>Artemisia</i> x 'Powis Castle'	2,3		2 – 3 ft	Foliage	Evergreen	Sun	Well Drained to Xeric

Common Name	Botanical Name	Water Use Zone	Recommended Varieties	Height	Color	Time of Bloom	Exposure	Soil
<u>Butterfly Weed*</u>	<i>Asclepias tuberosa</i>	1,2,3		1-2 ft	O,Y	Summer	Sun	Well Drained to Xeric
Swamp Milkweed*	<i>Asclepias incarnata</i>	1,2	‘Cinderella’ ‘Ice Ballet’	3 ft	W,P	Summer	Sun to Part Shade	Moist to Well Drained
<u>Heath Aster*</u>	<i>Aster ericoides</i>	1,2,3	‘Monte Cassino’ ‘Pink Star’	2 – 4 ft	W,P	Fall	Sun	Well Drained to Xeric
Smooth Aster*	<i>Aster laevis</i>	1,2	‘Bluebird’	3 ft	B	Summer	Sun to Light Shade	Moist to Well Drained
New England Aster*	<i>Aster novae-angliae</i>	1,2	‘Purple Dome’	18 in	P	Fall	Sun	Well Drained
Aromatic Aster*	<i>Aster oblongifolius</i>	1,2,3	‘Fanny’ ‘October Skies’	2 – 4 ft	B,P	Fall	Sun	Well Drained
Tartarian Aster	<i>Aster tartaricus</i>	1,2	‘Jin Dai’	3 – 4 ft	L	Fall	Sun	Moist to Well Drained
<u>False Wild Indigo*</u>	<i>Baptisia australis</i> <i>Baptisia alba</i> <i>Baptisia sphaerocarpa</i> <i>Baptisia</i> hybrids	1,2,3	‘Carolina Moonlight’ ‘Purple Smoke’	2 - 3ft	B,W,Y,L	Spring	Sun/Partial Shade	Moist to Well Drained
White Boltonia*	<i>Boltonia asteroides</i>	1,2	‘Snowbank’	4 ft	W	Fall	Sun	Moist to Well Drained
<u>Wine Cups, Poppy Mallow*</u>	<i>Callirhoe involucrata</i>	2,3		1 ft	P	Spring	Sun	Well Drained to Xeric
Canna Lily	<i>Canna</i> hybrids	1,2	Many Available	2 – 6 ft	P,R,O,Y	Summer	Sun to Part Shade	Moist to Well Drained
Leadwort	<i>Ceratostigma plumbaginoides</i>	1,2,3		12 in	B	Fall	Sun to Part Shade	Moist to Well Drained
Turtlehead*	<i>Chelone glabra</i> <i>Chelone obliqua</i>	1,2		2 – 3 ft	W,P	Fall	Sun to Part Shade	Moist to Well Drained
Shasta Daisy	<i>Chrysanthemum x superbum</i>	1,2	‘May Queen’ ‘Becky’	2 – 3 ft	W	Summer	Sun to Part Shade	Moist to Well Drained

Common Name	Botanical Name	Water Use Zone	Recommended Varieties	Height	Color	Time of Bloom	Exposure	Soil
Mouse Ear Coreopsis*	<i>Coreopsis auriculata</i>	1,2	'Nana'	1 – 2 ft	Y	Spring	Sun to Part Shade	Moist to Well Drained
Tickseed, Coreopsis*	<i>Coreopsis grandiflora</i> <i>Coreopsis lanceolata</i>	1,2		1-3 ft	Y	Spring, Summer	Sun to Part Shade	Moist to Well Drained
<u>Threadleaf Coreopsis*</u>	<i>Coreopsis verticillata</i>	1,2,3	'Golden Showers' 'Zagreb'	1 - 2 ft	Y	Summer	Sun	Well Drained
Crinum Lily	<i>Crinum</i> species and hybrids	1,2,3		2 – 4 ft	W,P	Summer	Sun to Part Shade	Moist to Well Drained
<u>Hardy Ice Plant</u>	<i>Delosperma cooperi</i> <i>Delosperma nubigenum</i>	2,3		6 in	P,Y	Spring	Sun	Well Drained to Xeric
<u>Cheddar Pinks, Dianthus</u>	<i>Dianthus gratianopolitanus</i>	1,2,3	'Bath's Pink' 'Firewitch' 'Greystone'	8 – 12 in	W,P	Spring	Sun	Well Drained to Xeric
Hummingbird Plant	<i>Dicliptera suberecta</i>	1,2,3		12 – 18 in	O	Summer	Sun	Well Drained
Purple Coneflower*	<i>Echinacea purpurea</i>	1,2,3	'Bravado' 'Kim's Knee High' 'White Swan' 'Magnus'	3-5 ft	P,W	Summer	Sun/Partial Shade	Well Drained
Joe Pye Weed*	<i>Eupatorium fistulosum</i> <i>Eupatorium dubium</i> <i>Eupatorium maculatum</i>	1,2		4 – 6 ft	P	Fall	Sun to Light Shade	Moist to Well Drained
<u>Blanket Flower, Gaillardia</u>	<i>Gaillardia x grandiflora</i>	1,2,3	'Goblin' 'Fanfare'	1 - 2 ft	Y,R,O	Summer/ Fall	Sun	Well Drained to Xeric
<u>Gaura*</u>	<i>Gaura lindheimeri</i>	2,3	'So White' 'Pink Cloud'	2 – 3 ft	W,P	Summer	Sun	Well Drained to Xeric
Bloody Cranesbill	<i>Geranium sanguineum</i>	2,3		12 in	P, W	Summer	Sun	Well Drained
Gerber Daisy	<i>Gerbera jamesonii</i>	1,2		1 ft	P,R,O,Y, W	Spring - Summer	Sun to Part Shade	Well Drained

Common Name	Botanical Name	Water Use Zone	Recommended Varieties	Height	Color	Time of Bloom	Exposure	Soil
<u>Mexican Firebush</u>	<i>Hamelia patens</i>	2,3		3 – 4 ft	R	Summer	Sun	Well Drained to Xeric
Hardy Ginger Lily	<i>Hedychium</i> species and hybrids	1,2		4 – 6 ft.	W,Y,O,	Summer - Fall	Sun to Part Shade	Moist to Well Drained
Swamp Sunflower*	<i>Helianthus angustifolius</i>	1,2		6 ft	Y	Fall	Sun to Light Shade	Moist to Well Drained
‘Lemon Queen’ Perennial Sunflower	<i>Helianthus</i> x ‘Lemon Queen’	1,2		4 – 5 ft	Y	Summer	Sun to Light Shade	Moist to Well Drained
False Sunflower*	<i>Heliopsis helianthoides</i>	1,2	‘Summer Sun’ ‘Ballerina’	2 – 4 ft	Y	Summer	Sun to Part Shade	Moist to Well Drained
<u>Daylily</u>	<i>Hemerocallis</i> species and hybrids	1,2,3	Many Available	1-4 ft	Y,O,R,W, P	Summer	Sun/Partial Shade	Moist to Well Drained
<u>Red False Aloe</u>	<i>Hesperaloe parviflora</i>	2,3		3 – 4 ft	R	Summer	Sun	Well Drained to Xeric
Hardy Hibiscus*	<i>Hibiscus moscheutos</i> <i>Hibiscus coccineus</i> <i>Hibiscus</i> hybrids	1,2	‘Anne Arundel’ ‘Blue River II’ ‘Moy Grande’	4 – 5 ft	R,P,W	Summer	Sun to Light Shade	Moist to Well Drained
Confederate Rose	<i>Hibiscus mutabilis</i>	1,2		5 – 6 ft	P	Fall	Sun to Light Shade	Moist to Well Drained
St. Joseph’s Lily, Hardy Amaryllis	<i>Hippeastrum x johnsonii</i>	1,2,3		15 in	R	Spring	Sun to Part Shade	Well Drained
Evergreen Candytuft	<i>Iberis sempervirens</i>	1,2,3		12 in	W	Spring	Sun to Part Shade	Well Drained
Japanese Iris	<i>Iris ensata</i>	1,2		3 ft	Pu,L,W	Spring	Sun to Part Shade	Moist
Bearded Iris	<i>Iris</i> hybrids	1,2,3		3 ft	P,O,Y,W, L,Pu,	Spring	Sun to Light Shade	Well Drained
Siberian Iris	<i>Iris sibirica</i>	1,2		2-4 ft	W,Y, B, Pu, L	Spring	Sun to Part Shade	Moist to Well Drained

Common Name	Botanical Name	Water Use Zone	Recommended Varieties	Height	Color	Time of Bloom	Exposure	Soil
Japanese Aster	<i>Kalimeris pinnatifida</i>	1,2,3		2 ft	W	Summer	Sun to Light Shade	Well Drained
<u>Red Hot Poker</u>	<i>Kniphofia</i> species and hybrids	1,2,3		2-4 ft	R,O,Y	Summer	Sun	Well Drained
Seashore Mallow*	<i>Kosteletzkya virginica</i>	1,2		4 – 5 ft	P,W	Summer	Sun to Par Shade	Moist to Well Drained
<u>Lantana</u>	<i>Lantana camara</i> <i>Lantana montevidensis</i> <i>Lantana</i> hybrids	2,3	‘Miss Huff’ ‘Tangerine’ ‘New Gold’ ‘Radiation’	2 – 4 ft	W,L,P,Y, O,R	Summer to Fall	Sun	Well Drained to Xeric
Asiatic and Oriental Lilies	<i>Lilium</i> hybrids	1,2	Many Available	2 – 4 ft	W,R,O,P, Y	Summer	Sun to Part Shade	Well Drained
Cardinal Flower*	<i>Lobelia cardinalis</i>	1,2		3 ft	R	Fall	Sun to Part Shade	Moist to Well Drained
<u>Sleeping Hibiscus,</u> <u>Turk’s Cap</u>	<i>Malvaviscus drummondii</i>	1,2,3		3 – 4 ft	R	Summer	Sun to Light Shade	Well Drained
Patrinia	<i>Patrinia scabiosifolia</i>	1,2		4 – 5 ft	Y	Fall	Sun to Part Shade	Moist to Well Drained
<u>Russian Sage</u>	<i>Perovskia</i> species and hybrids	1,2,3		3 – 4 ft	L	Summer	Sun	Well Drained
Garden Phlox*	<i>Phlox paniculata</i>	1,2	‘Robert Poore’ ‘David’ ‘Laura’	3 – 4 ft	W,P,L	Summer	Sun to Part Shade	Moist to Well Drained
<u>Moss Pinks, Thrift*</u>	<i>Phlox subulata</i>	1,2,3	Many Available	6 – 12 in	W,P,L,B	Spring	Sun to Light Shade	Well Drained
Rudbeckia, Orange Coneflower*	<i>Rudbeckia fulgida</i>	1,2,3	‘Goldsturm’	3 ft	Y	Summer	Sun to Part Shade	Moist to Well Drained
Green Headed Coneflower*	<i>Rudbeckia laciniata</i>	1,2		3 – 4 ft	Y	Summer	Sun to Part Shade	Moist to Well Drained

Common Name	Botanical Name	Water Use Zone	Recommended Varieties	Height	Color	Time of Bloom	Exposure	Soil
Dwarf Mexican Petunia	<i>Ruellia brittoniana</i> ‘Katie’	1,2,3		6 in	W,P,Pu	Summer	Sun to Light Shade	Well Drained
<u>Autumn Sage</u>	<i>Salvia greggii</i> <i>Salvia microphylla</i> and hybrids	1,2,3		2 – 4 ft	R,P,W,Pu	Spring and Fall	Sun to Light Shade	Well Drained
Anise Sage	<i>Salvia guaranitica</i>	1,2	‘Black and Blue’	3 – 4 ft	B,Pu	Summer	Sun to Part Shade	Moist to Well Drained
<u>Mexican Bush Sage</u>	<i>Salvia leucantha</i>	1,2,3	‘San Carlos Festival’	3 – 5 ft	Pu	Fall	Sun	Well Drained
‘Indigo Spires’ Sage	<i>Salvia</i> x ‘Indigo Spires’	1,2,3		3 – 4 ft	B	Summer	Sun to Part Shade	Well Drained
Pincushion Flower	<i>Scabiosa columbaria</i>	1,2,3	‘Butterfly Blue’ ‘Pink Mist’	18 in	B,P	Spring	Sun to Light Shade	Well Drained
Sedum	<i>Sedum</i> hybrids	1,2,3	‘Matrona’ ‘Autumn Fire’	2 –3 ft	P, R	Fall	Sun to Light Shade	Well Drained
<u>Stonecrops</u>	<i>Sedum reflexum</i> <i>Sedum album</i> <i>Sedum tetractinum</i>	2,3	‘Blue Spruce’ ‘Murale’	6 – 8 in	W,Y	Spring	Sun	Well Drained to Xeric
<u>Hen and Chicks</u>	<i>Sempervivum tectorum</i>	2,3		6 – 12 in	Y	Spring	Sun	Well Drained to Xeric
Purple Heart	<i>Setcreasea pallida</i>	1,2,3		12 – 15 in	Pu	Summer	Sun to Light Shade	Well Drained
‘Fireworks’ Goldenrod*	<i>Solidago rugosa</i> ‘Fireworks’	1,2,3		1-3 ft	Y	Fall	Sun to Part Shade	Moist to Well Drained
Lamb’s Ear	<i>Stachys byzantina</i>	2,3	‘Helene Von Stein’	2 ft	Foliage	Evergreen	Sun to Light Shade	Well Drained
Stokes Aster*	<i>Stokesia laevis</i>	1,2	Several Available	1 –2 ft	B, L, W, Y	Summer	Sun to Part Shade	Moist to Well Drained

Common Name	Botanical Name	Water Use Zone	Recommended Varieties	Height	Color	Time of Bloom	Exposure	Soil
Carolina Lupine*	<i>Thermopsis caroliniana</i>	1,2		3 – 4 ft	Y	Spring	Sun to Part Shade	Moist to Well Drained
Verbena*	<i>Verbena canadensis</i>	1,2,3	‘Homestead Purple’ ‘Snowflurry’	8 – 12 in	W,B,L,P	Spring and Summer	Sun to Light Shade	Moist to Well Drained
Creeping Veronica	<i>Veronica peduncularis</i>	1,2	‘Georgia Blue’	8 in	B	Spring	Sun to Part Shade	Well Drained
Speedwell	<i>Veronica spicata</i>	1,2	‘Sunny Border Blue’	2 ft	B,W,P	Spring	Sun to Part Shade	Well Drained
Rain Lily	<i>Zephyranthes</i> species and hybrids	1,2	Several Available	1 ft	W,Y,P	Summer and Fall	Sun to Part Shade	Moist to Well Drained

Native Plants*

A plant native to SE USA implies a plant endemic to the Southeastern portion of the United States, from Virginia to Eastern Texas.

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 landscape use than the plain species. Plant varieties, also known as cultivars, are listed enclosed in single quotes.

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 seasons to become fully established. Perennials, grasses and groundcovers usually require one to two seasons to become established.

Mature Size

Mature sizes of all plants are given as height x width. Mature size can vary depending on growing conditions.

Exposure

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

- **Full sun** indicates a site that receives at least 8hrs 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 for half the day by a dense shade such as that cast by buildings or shade trees.
- **Full Shade** indicates a site that is in shade all day.

Soil

Soil refers to soil condition at the site as follows:

- **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 12hrs) 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.

Water Use Zones

Water Use Zones indicate the water needs of various plants and correspond to the following NCCE publications:

- *Water Wise Use in Landscaping* http://www.bae.ncsu.edu/bae/programs/extension/publicat/wqwm/ag508_1.html
- *How to Plan and Design a Water Wise Use Landscape* http://www.bae.ncsu.edu/bae/programs/extension/publicat/wqwm/ag508_2.html

*Prepared by: Charlotte Glen, Urban Horticulture Agent – Arboretum Coordinator,
NC Cooperative Extension - New Hanover County Center*



Distributed in furtherance of the acts of Congress of May 8 and June 30, 1914. North Carolina State University and North Carolina A&T State University commit themselves to positive action to secure equal opportunity regardless of race, color, creed, national origin, religion, sex, age, or disability. In addition, the two Universities welcome all persons without regard to sexual orientation. North Carolina State University, North Carolina A&T State University, U.S. Department of Agriculture, and local governments cooperating.