

CPP- Chapter 5 Plants for Particular Locations and Landscape Uses



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What Products Are We Really Selling?

- Plants? Yes and No!
 - Clean Oxygen
 - Clean Water
 - Cooler Environments
 - Calmer Environments
 - A Gardening Experience!

Benefits to Proper Landscaping/Gardening Economics

- Increased property values by 15%
- Reduced time on market for real-estate sales (time cut by half)
- Reduced energy costs- 30% reduction
 - Temperatures may be 15-20 degrees (f) cooler in summer than non-planted areas
 - Protection from cold winds during winter

Benefits to Proper Landscaping/Gardening Social

- Reduced crime rates in urban areas
- Reduction in domestic violence
- Community interaction between seniors and youth
- Lower stress levels and blood pressure
- Reduction in obesity
- Increase opportunities for safe walking areas

Benefits to Proper Landscaping/Gardening Environmental

- Provide method of cleaning air to release high volumes on Oxygen
- Helps to provide clean water for all purposes
- Reduces sediment runoff from streams
- Reduce erosion
- Capture mineral/nutrient runoff
- Capture and mitigate pollutants from both surface and subsurface water bodies

Matching Plants to Site

- Native versus Indigenous
 - Plants are native to ecosystems not Geo-political regions
 - Plants may also be indigenous to geographical and climatic regions
- Genotype versus Phenotype
 - Genotype plants are of the same genera and/or species regardless of where found
 - Phenotype plants are also of the same genera and/or species but from the same latitude

Matching Plants to Site

- Choose plants that have similar environmental requirements
- Modify the site if economically feasible
- Find plants that will fit the environmental conditions of the site is the better choice
- Choose plants grown in nurseries with similar environmental conditions

What Are You Trying to Achieve?

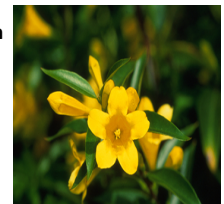
- Rain Gardens
- Streambank Buffer
- Erosion Control
- Foundation Planting
- Formal Garden
- Edible Landscape
- Shade Garden
- Garden for Visually Impaired
- Etc

Sample Lists

- The following slides are some sample lists
- The text has similar information and this chapter should be read thoroughly

Vines for NC Shade

- *Akebia quinata*- Fiveleaf Akebia *
- *Fatsyhedera lizei*- Bush Ivy
- *Gelsimium sempervirens*- Carolina Yellow Jessamine
- *Hedera helix*- English Ivy
- *Lonicera sempervirens*- Evergreen Honeysuckle
- *Hydrangea anomala*- subsp *petiolaris*- Climbing Hydrangea
- *Parthenocissus tricuspidata*- Boston Ivy
- *Trachelosperum jasminoides*- Confederate Jasmine



Vines for NC Sun

- *Campsis grandiflora*- Chinese Trumpet creeper*
 - *Clematis x jackmanni*- Giant Flowering Clematis
 - *Lonicera x heckrottii*- Everblooming Honeysuckle
 - *Rosa banksii*- Lady Banks Rose
 - *Wisteria floribunda*- Japanese Wisteria *
 - *Wisteria frutescens*- American Wisteria *
 - *Wisteria sinensis*- Chinese Wisteria *
- * Invasive tendencies

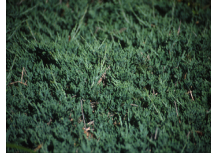


Ground Covers for Shade

- *Ajuga reptans* Bugleweed
 - *Helleborus sp.* Lenten Rose, Christmas Rose
 - *Liriope muscari* Mounding Lilyturf
 - *Liriope spicata* Spreading Lilyturf
 - *Ophiopogon japonica*- Mondo grass
 - *Pachysandra procumbens*- Alleghany Spurge
 - *Pachysandra terminalis*- Japanese Pachysandra
 - *Vinca major*- Largeleafed Periwinkle *
 - *Vinca minor*- Common Periwinkle*
- * Invasive tendencies

Ground Covers for Sun

- *Calluna vulgaris*- Scotch Heather
- *Cotoneaster dammeri*- Bearberry Cotoneaster
- *Cotoneaster horizontalis*- Rockspray
- *Erica carnea*- Heath
- *Hemmerocalis sp.*- Daylily
- *Hypericum calycinum*- St. John's Wort
- *Juniperus conferta*- Shore Juniper
- *Juniperus horizontalis*- Creeping Juniper
- *Juniperus procumbens*- Japanese Garden Juniper
- *Phlox subulata*- Creeping Phlox
- *Santolina sp.* - Lavender Cotton



Erosion Control Plants for Shade

- Ajuga reptans*- Bugleweed
- Arctostaphylos uva-ursi* Bear berry
- Helleborus sp.* Lenten Rose
- Hosta sp.* Hosta
- Liriope spicata*- Creeping Lilyturf
- Liriope muscari*- Lilyturf
- Pachysandra terminalis*- Pachysandra
- P. procumbens*- Alleghany Spurge

Erosion Control Plants- Sun

- Ornamental Grasses- several sp. Some invasive
- *Arctostaphylos uva-ursi* Bearberry
- *Cotoneaster horizontalis*
- *Forsythia x intermedia*
- *Juniperus procumbens*
- *Juniperus horizontalis*
- *Juniperus conferta*
- *Microbiota sp.* Sun or light shade

Small Shrubs for NC Shady Landscapes

- *Aucuba japonica* 'Nana'- Dwarf Japanese Aucuba
- *Daphne odora*- Winter Daphne
- *Euonymus japonicus* 'Microphyllus' Small Leaf Evergreen Euonymus
- *Gardenia radicans*- Gardenia
- *Ilex cornuta* 'Burfordii Nana' 'Rotunda' 'Carrisa' Dwarf Chinese Holly
- *Ilex vomitoria* 'Nana' Dwarf Yaupon Holly
- *Leucothoe fontansiana*- Drooping Leucothoe
- *Mahonia aquifolium*- Oregon Grapeholly *
- *Nandina domestica*- Heavenly Bamboo *
- *Rhododendron x Satsuki hybrids*- Dwarf Azalea

* Invasive tendencies

Small Shrubs for NC Sunny Landscapes

- *Buxus microphylla*- Littleleaf Boxwood
- *Cotoneaster salicifolius*- Willowleaf Cotoneaster
- *Deutzia gracilis*- Slender Deutzia
- *Euonymus japonicus* 'Microphyllus'- Dwarf Japanese Euonymus
- *Hypericum patulum*- Aaronsbeard Hypericum
- *Ilex cornuta*- Chinese Holly cvs
- *Ilex crenata*- Japanese Holly cvs
- *Pinus mugo* 'Mugo'- Mugo Pine
- *Spirea x bumalda* 'Anthony Waterii' Anthony Water Spirea
- *Viburnum tinus*- Laurel leaf Viburnum
- *Yucca filamentosa*- Adam's Needle Yucca

Medium Shrubs for Shade

- *Abelia grandiflora*- Glossy Abelia
- *Aucuba japonica*- Japanese Aucuba
- *Buxus sempervirens*- American Boxwood
- *Fatsia japonica*- Japanese Fatsia
- *Gardenia jasminoides*- Cape Jasmine
- *Kalmia latifolia*- Mountain Laurel
- *Mahonia bealii*- Leatherleaf Mahonia*
- *Osmanthus fragrans*- Fragrant Tea Holly
- *Osmanthus heterophyllus*- Hollyleaf Osmanthus
- *Pieris japonica*- Japanese Andromeda
- *Rhododendron carolinianum*- Carolina Rhododendron
- *Rhododendron catawbiense*- Catawba Rhododendron
- *Rhododendron obtusum*- Evergreen Azalea

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Medium Shrubs for Sun

- *Abelia grandiflora*- Glossy Abelia
- *Berberis julianae*- Evergreen Barberry
- *Buxus sempervirens*- American Boxwood
- *Chamaecyparis obtusa* 'Nana'- Dwarf Hinoki Cypress
- *Chamaecyparis pisifera filifera* 'cvs' Sawara Falsecypress
- *Forsythia intermedia*- Border Forsythia
- *Hibiscus syriacus* - Rose of Sharon, Shrub Althea
- *Nandina domestica*- Nandina
- *Spiraea thunbergii*- Thunbergs Spirea
- *Spiraea x vanhouttii*- Vanhoutti Spirea
- *Taxus cuspidata*- Japanese Yew
- *Weigela florida*- Weigela



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Trees With Fragrant Flowers

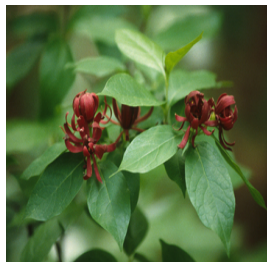
- *Chionanthus virginicus* Fringe Tree
- *Magnolia grandiflora*- Southern Magnolia
- *Magnolia virginiana*- Sweetbay Magnolia
- *Malus hybrida*- Crabapple Hybrids
- *Prunus sp.*- Flowering Cherries
- *Styrax sp.*- Snowbells
- *Tilia cordata*- Littleleaf Linden



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Shrubs With Fragrant Flowers

- *Calycanthus floridus*- Sweetshrub
- *Daphne odora*- Winter Daphne
- *Elaeagnus pungens*- Thorny Elaeagnus
- *Gardenia jasminoides*- Cape Jasmine
- *Lonicera fragrantissima*- Winter Honeysuckle
- *Loropetalum chinensis*- Chinese Loropetalum
- *Michelia figo*- Banana Shrub
- *Osmanthus fragrans*- Fragrant Tea Olive
- *Philadelphus coronarius*- Mock Orange
- *Syringa vulgaris*- Common Lilac
- *Viburnum sp.* Viburnum



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Trees for Wet Sites

- *Acer rubrum*- Red Maple
- *Alnus serrulata*- Tag Alder
- *Betula nigra*- River Birch
- *Liquidambar styraciflua*- Sweetgum
- *Magnolia virginiana*- Sweetbay Magnolia
- *Nyssa aquatica*- Swamp tupelo
- *Platanus occidentalis*- Sycamore
- *Quercus bicolor*- Swamp White Oak
- *Salix babylonica*- Weeping Willow
- *Salix nigra*- Grey Willow
- *Taxodium distichum*- Bald Cypress



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Shrubs for Wet Sites

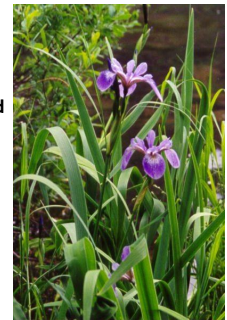
- *Calycarpa americana*- American Beautyberry
- *Cephalanthus occidentalis*- Buttonbush
- *Cornus alternifolia*- Pagoda Dogwood
- *Cornus amomum*- Silky Dogwood
- *Hibiscus moscheutos*- Marsh Mallow
- *Ilex decidua*- Possumhaw
- *Ilex glabra*- Inkberry
- *Ilex verticillata*- Winterberry
- *Itea virginica*- Virginia Sweetpire
- *Physocarpus opulifolius*- Ninebark
- *Rhododendron viscosum*- Swamp Azalea
- *Rosa carolina*- Swamp Rose



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Herbaceous Plants for Wet Sites

- *Asclepias incarnata*- Swamp milkweed
- *Carex crinata*- Fringed sedge
- *Chelone glabra*- Turtlehead
- *Eupatorium fistulosum*- Joe-pye-weed
- *Impatiens capensis*- Jewelweed
- *Iris versicolor*- Swamp Iris
- *Juncus effusus*- Soft rush
- *Lobelia cardinalis*- Cardinal flower
- *Panicum virgatum*- Switchgrass
- **Scirpus. sp.* Bullrush
- *Veronia noveboracensis*- Ironweed



Summary

- Become familiar with the plants from the CPP list as well as chapter 5 in manual
- Know if a plant is deciduous or evergreen
- Be familiar with plants that prefer shade, sun, wet or dry sites
- Be able to name plants with fragrant flowers
- Learn the preferred growing conditions of landscape plants