



CoastScapes

Georgia Coastal Plain Native Plants For Drought Tolerant Landscapes

Introduction

In nature, water is usually the most limiting factor for plant growth. If plants do not receive adequate rainfall or irrigation, the resulting drought stress can reduce growth more than all other environmental stresses combined. Drought can be defined as the absence of rainfall or irrigation for a period of time sufficient to deplete soil moisture and injure plants. Drought stress results when water loss from the plant exceeds the ability of the plant's roots to absorb water and when the plant's water content is reduced enough to interfere with normal plant processes.

In coastal Georgia, plants may frequently encounter drought stress. Rainfall is seasonal and periodic drought occurs regularly. Because the region's soils are typically sandy and have low water holding capacity, some plants may experience drought stress after only a few days without water. During drought, local governments may place restrictions on landscape irrigation in order to conserve potable water, and landscape plants may be subjected to drought stress. The use of drought tolerant native plants in a landscape can reduce the likelihood of plant injury due to drought stress.

Drought stress in the landscape can also be reduced or prevented by irrigation, mulching, providing shade, and creating windbreaks. Reducing the overall water requirements of a landscape is best achieved by initially designing the landscape for water conservation, including efficient irrigation systems (e.g., drip hose irrigation), proper watering (e.g., time of watering, frequency, and amount) and the use of drought tolerant native plants where appropriate.

For more information regarding Georgia's coastal plain native plants, to utilize the CoastScapes coastal plains native plant search engine website, or water conservation and

green infrastructure stormwater best management practices, go to the CoastScapes website: www.coastscapes.org.

Plant Choice Considerations

The native plants listed below have been reported by various sources to tolerate drought stress better than most landscape plants. Although these plants are considered drought tolerant, new plantings will require regular irrigation for six weeks to six months or more before they become established well enough to be effectively drought tolerant. Trees larger than two inches caliper width will take longer to establish. Thus, the native plants listed below are drought tolerant **once established**. Although native plants have evolved to local conditions, plants of any species must be allowed time to become fully established in a landscape before drought resistant features will be evident. All plants need water while establishing their root system and during periods of extended drought. Root establishment can take from months to one to several years, depending on the original size of the plant. Larger plants will take longer to establish.

Although the plants provided in the list below may be native to the coastal plain region of Georgia, individual plants may not grow everywhere in the region. In addition, the characteristics of any site will typically vary from place to place and some plants may do better than others at various places within a site. Putting plants in the right places is the key to ensuring they survive and remain healthy in your landscape. When selecting plants from this list, remember that many factors determine the suitability of a plant for a particular location. Consider light requirements, local climate, soil type, moisture, adaptability, hardiness, heat tolerance, and other factors. All plants listed are suited to the USDA Hardiness Zone 8. Please check to see if your zone falls within the 8a or 8b hardiness zone and then choose plants accordingly. Choose native plants that match and thrive under the conditions in your landscape and you will have a CoastScapes landscape! You will reduce the need for water, fertilizers, pesticides, and pruning while providing valuable wildlife habitat. Properly fit the plant to your site and local climate and you will have a water efficient landscape!

Georgia Coastal Plain Native Plants For Drought Tolerant Landscapes

Cactus and Succulents

<i>Opuntia humifusa</i>	devil's tongue
<i>Opuntia pusilla</i>	cockspur pricklypear
<i>Opuntia stricta</i>	erect pricklypear
<i>Yucca aloifolia</i>	aloe yucca
<i>Yucca filamentosa</i>	Adam's needle
<i>Yucca flaccida</i>	weak-leaf yucca
<i>Yucca gloriosa</i>	moundlily yucca
<i>Yucca recurvifolia</i>	curve-leaf yucca

Ferns

<i>Asplenium platyneuron</i>	ebony spleenwort
<i>Polystichum acrostichoides</i>	Christmas fern
<i>Pteridium aquilinum</i>	western brackenfern

Grasses and Sedges

<i>Andropogon gerardii</i>	big bluestem
<i>Andropogon ternarius</i>	splitbeard bluestem
<i>Andropogon virginicus</i>	broomsedge bluestem
<i>Chasmanthium latifolium</i>	Indian woodoats
<i>Muhlenbergia capillaris</i>	hairawn muhly
<i>Panicum amarum</i>	bitter panicgrass
<i>Panicum virgatum</i>	switchgrass
<i>Schizachyrium scoparium</i>	little bluestem
<i>Sorghastrum nutans</i>	indiangrass
<i>Uniola paniculata</i>	seaoats

Vines

<i>Bignonia capreolata</i>	crossvine (evergreen)
<i>Campsis radicans</i>	trumpet creeper
<i>Cissus trifoliata</i>	sorrelvine
<i>Gelsemium sempervirens</i>	evening trumpetflower
<i>Ipomoea coccinea</i>	redstar
<i>Ipomoea cordatotriloba</i>	tievine
<i>Ipomoea macrorhiza</i>	largeroot morningglory
<i>Ipomoea pandurata</i>	man of the earth
<i>Ipomoea pes-caprae</i>	bayhops
<i>Ipomoea quamoclit</i>	cypressvine
<i>Ipomoea sagittata</i>	saltmarsh morningglory
<i>Lonicera sempervirens</i>	trumpet honeysuckle
<i>Menispermum canadense</i>	common moonseed
<i>Parthenocissus quinquefolia</i>	Virginia creeper
<i>Passiflora incarnata</i>	purple passionflower
<i>Passiflora lutea</i>	yellow passionflower
<i>Smilax smallii</i>	lanceleaf greenbriar
<i>Vitis aestivalis</i>	summer grape
<i>Vitis rotundifolia</i>	muscadine
<i>Wisteria frutescens</i>	American wisteria

Ground Covers

<i>Chrysogonum virginianum</i>	green and gold
<i>Glandularia canadensis</i>	rose mock vervain
<i>Phlox subulata</i>	moss phlox
<i>Sesuvium portulacastrum</i>	shoreline seapurslane

Perennials

<i>Achillea millefolium</i>	common yarrow
<i>Aletris farinosa</i>	white colicroot
<i>Anemone caroliniana</i>	Carolina anemone
<i>Antennaria plantaginifolia</i>	woman's tobacco

<i>Aquilegia canadensis</i>	red columbine
<i>Argemone albiflora</i>	bluestem pricklypoppy
<i>Asclepias tuberosa</i>	butterfly milkweed
<i>Aureolaria flava</i>	smooth yellow false foxglove
<i>Aureolaria virginica</i>	downy yellow false foxglove
<i>Baptisia alba</i>	white false indigo
<i>Baptisia lanceolata</i>	gopherweed
<i>Baptisia lecontei</i>	pineland wild indigo
<i>Baptisia perfoliata</i>	catbells
<i>Baptisia tinctoria</i>	horseflyweed
<i>Boltonia asteroides</i>	white doll's daisy
<i>Conoclinium coelestinum</i>	blue mistflower
<i>Coreopsis auriculata</i>	lobed tickseed
<i>Coreopsis basalis</i>	goldenmane tickseed
<i>Coreopsis falcata</i>	sickle tickseed
<i>Coreopsis gladiata</i>	coastal plain tickseed
<i>Coreopsis grandiflora</i>	largeflower tickseed
<i>Coreopsis lanceolata</i>	lanceleaf tickseed
<i>Coreopsis major</i>	greater tickseed
<i>Coreopsis nudata</i>	Georgia tickseed
<i>Coreopsis pubescens</i>	start tickseed
<i>Coreopsis tinctoria</i>	golden tickseed
<i>Coreopsis tripteris</i>	tall tickseed
<i>Coreopsis verticillata</i>	whorled tickseed
<i>Delphinium carolinianum</i>	Carolina larkspur
<i>Echinacea pallida</i>	pale purple coneflower
<i>Echinacea purpurea</i>	eastern purple coneflower
<i>Eryngium yuccifolium</i>	button eryngo
<i>Eupatorium serotinum</i>	lateflowering thoroughwort
<i>Euphorbia corollata</i>	flowering spurge
<i>Gaillardia aestivalis</i>	lanceleaf blanketflower
<i>Gaillardia pulchella</i>	firewheel
<i>Gaura angustifolia</i>	southern beeblossom
<i>Gaura filipes</i>	slenderstalk beeblossom
<i>Gaura sinuata</i>	wavyleaf beeblossom
<i>Helianthus debilis</i>	cucumberleaf sunflower
<i>Heliopsis helianthoides</i>	smooth oxeye

<i>Heuchera americana</i>	American alumroot
<i>Hexastylis arifolia</i>	littlebrownjub
<i>Houstonia purpurea</i>	Venus' pride
<i>Hypericum cistifolium</i>	roundpod St. Johnswort
<i>Hypericum hypericoïdes</i>	St. Andrew's cross
<i>Hypericum punctatum</i>	spotted St. Johnswort
<i>Hypericum setosum</i>	hairy St. Johnswort
<i>Hypoxis hirsuta</i>	common goldstar
<i>Ipomopsis rubra</i>	standing-cypress
<i>Iva imbricata</i>	seacoast marsh elder
<i>Liatris spicata</i>	dense blazing star
<i>Monarda punctata</i>	spotted beebalm
<i>Oenothera fruticosa</i>	narrowleaf evening primrose
<i>Penstemon australis</i>	Eustis Lake beardtongue
<i>Phlox carolina</i>	thickleaf phlox
<i>Phlox divaricata</i>	wild blue phlox
<i>Phlox pilosa</i>	downy phlox
<i>Physostegia virginiana</i>	obedient plant
<i>Pityopsis graminifolia</i>	narrowleaf silkgrass
<i>Podophyllum peltatum</i>	mayapple
<i>Pycnanthemum pycnanthemoides</i>	southern mountainmint
<i>Rudbeckia fulgida</i>	orange coneflower
<i>Rudbeckia hirta</i>	blackeyed susan
<i>Rudbeckia laciniata</i>	cutleaf coneflower
<i>Rudbeckia mohrii</i>	Mohr's coneflower
<i>Rudbeckia triloba</i>	browneyed Susan
<i>Ruellia caroliniensis</i>	Carolina wild petunia
<i>Salvia azurea</i>	azure blue sage
<i>Salvia coccinea</i>	blood sage
<i>Salvia lyrata</i>	lyreleaf sage
<i>Scutellaria incana</i>	hoary skullcap
<i>Sesuvium portulacastrum</i>	shoreline seapurslane
<i>Silene virginica</i>	fire pink
<i>Solidago altissima</i>	Canada goldenrod
<i>Solidago arguta</i>	Atlantic goldenrod
<i>Solidago caesia</i>	wreath goldenrod
<i>Solidago erecta</i>	showy goldenrod

<i>Solidago fistulosa</i>	pine barren goldenrod
<i>Solidago gigantea</i>	giant goldenrod
<i>Solidago gracillima</i>	Virginia goldenrod
<i>Solidago leavenworthii</i>	Leavenworth's goldenrod
<i>Solidago nemoralis</i>	gray goldenrod
<i>Solidago odora</i>	anisescented goldenrod
<i>Solidago patula</i>	roundleaf goldenrod
<i>Solidago rugosa</i>	wrinkleleaf goldenrod
<i>Solidago sempervirens</i>	seaside goldenrod
<i>Solidago stricta</i>	wand goldenrod
<i>Spigelia marilandica</i>	woodland pinkroot
<i>Stenaria nigricans</i> var. <i>nigricans</i>	diamondflowers
<i>Stokesia laevis</i>	Stoke's aster
<i>Symphotrichum</i> ssp.	Asters – check out CoastScapes <i>native plant search engine</i>
<i>Verbena scabra</i>	sandpaper vervain
<i>Viola pedata</i>	birdfoot violet

Shrubs

<i>Aralia spinosa</i>	devil's walkingstick
<i>Asimina parviflora</i>	smallflower pawpaw
<i>Baccharis halimifolia</i>	eastern baccharis
<i>Callicarpa americana</i>	American beautyberry
<i>Calycanthus floridus</i>	eastern sweetshrub
<i>Ceanothus americanus</i>	New Jersey tea
<i>Clinopodium georgianum</i>	Georgia calamint
<i>Crataegus uniflora</i>	dwarf hawthorn
<i>Erythrina herbacea</i>	redcardinal
<i>Fothergilla gardenii</i> **	dwarf witchalder**
<i>Gaylussacia dumosa</i>	dwarf huckleberry
<i>Hamamelis virginiana</i>	American witchhazel
<i>Hydrangea quercifolia</i>	oakleaf hydrangea

**** PLEASE NOTE!!** *Fothergilla gardenii* is a protected plant in Georgia. Before choosing this shrub for planting, please take great care to assure that your conditions are appropriate for the necessary requirements and needs of this rare and protected plant.

<i>Hypericum brachyphyllum</i>	coastal plain St. Johnswort
<i>Hypericum crux-andreae</i>	St. Peterswort
<i>Hypericum densiflorum</i>	bushy St. Johnswort
<i>Hypericum fasciculatum</i>	peelbark St. Johnswort
<i>Hypericum frondosum</i>	cedarglade St. Johnswort
<i>Hypericum galioides</i>	bedstraw St. Johnswort
<i>Hypericum hypericoides</i>	St. Andrew's cross
<i>Hypericum myrtifolium</i>	myrtle St. Johnswort
<i>Hypericum nitidum</i>	Carolina St. Johnswort
<i>Hypericum reductum</i>	Atlantic St. Johnswort
<i>Hypericum suffruticosum</i>	pineland St. Johnswort
<i>Hypericum tetrapetalum</i>	fourpetal St. Johnswort
<i>Ilex decidua</i>	possumhaw
<i>Ilex glabra</i>	inkberry
<i>Ilex verticillata</i>	common winterberry
<i>Ilex vomitoria</i>	yaupon holly
<i>Itea virginica</i>	Virginia sweetspire
<i>Iva frutescens</i>	Jesuit's bark
<i>Kalmia latifolia</i>	mountain laurel
<i>Licania michauxii</i>	gopher apple
<i>Lycium carolinianum</i>	Carolina desert-thorn
<i>Lyonia ferruginea</i>	rusty staggerbush
<i>Malvaviscus arboreus</i>	wax mallow
<i>Morella cerifera</i>	wax myrtle (synonym: <i>Myrica cerifera</i>)
<i>Photinia pyrifolia</i>	red chokeberry
<i>Rhapidophyllum hystrix</i>	needle palm
<i>Rhododendron austrinum</i>	orange azalea
<i>Rhododendron canescens</i>	mountain azalea
<i>Rhus aromatica</i>	fragrant sumac
<i>Rhus copallinum</i>	winged sumac
<i>Rhus glabra</i>	smooth sumac
<i>Robinia hispida</i>	bristly locust
<i>Sabal minor</i>	dwarf palmetto
<i>Serenoa repens</i>	saw palmetto

<i>Stewartia malacodendron</i> **	silky camellia**
<i>Vaccinium arboreum</i>	farkleberry
<i>Vaccinium corymbosum</i>	highbush blueberry
<i>Vaccinium darrowii</i>	Darrow's blueberry
<i>Vaccinium stamineum</i>	deerberry
<i>Viburnum acerifolium</i>	mapleleaf viburnum
<i>Viburnum dentatum</i>	southern arrowwood
<i>Viburnum nudum</i>	possumhaw
<i>Viburnum obovatum</i>	small-leaf arrowwood
<i>Viburnum prunifolium</i>	blackhaw
<i>Viburnum rufidulum</i>	rusty blackhaw
<i>Zamia pumila</i>	coontie

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Trees (Large)

<i>Acer leucoderme</i>	chalk maple
<i>Acer negundo</i>	boxelder
<i>Acer rubrum</i>	red maple
<i>Acer saccharinum</i>	silver maple
<i>Betula nigra</i>	river birch
<i>Carya alba</i>	mockernut hickory
<i>Carya glabra</i>	pignut hickory
<i>Carya ovata</i>	shagbark hickory
<i>Catalpa bignonioides</i>	southern catalpa
<i>Celtis laevigata</i>	sugarberry
<i>Celtis occidentalis</i>	common hackberry
<i>Celtis tenuifolia</i>	dwarf hackberry
<i>Cercis canadensis</i>	eastern redbud
<i>Diospyros virginiana</i>	common persimmon
<i>Fraxinus americana</i>	white ash
<i>Fraxinus pennsylvanica</i>	green ash

<i>Gleditsia triacanthos</i>	honeylocust
<i>Ilex opaca</i>	American holly
<i>Juglans nigra</i>	black walnut
<i>Juniperus silicicola</i>	southern redcedar
<i>Juniperus virginiana</i>	eastern red cedar
<i>Liquidambar styraciflua</i>	sweetgum
<i>Maclura pomifera</i>	osage orange
<i>Magnolia grandiflora</i>	southern magnolia
<i>Morus rubra</i>	red mulberry
<i>Nyssa sylvatica</i>	blackgum
<i>Ostrya virginiana</i>	hophornbeam
<i>Pinus clausa</i>	sand pine
<i>Pinus echinata</i>	shortleaf pine
<i>Pinus elliotii</i>	slash pine
<i>Pinus glabra</i>	spruce pine
<i>Pinus palustris</i>	longleaf pine
<i>Pinus taeda</i>	loblolly pine
<i>Platanus occidentalis</i>	American sycamore
<i>Populus deltoides</i>	eastern cottonwood
<i>Prunus serotina</i>	black cherry
<i>Quercus alba</i>	white oak
<i>Quercus chapmanii</i>	Chapman oak
<i>Quercus coccinea</i>	scarlet oak
<i>Quercus falcata</i>	southern red oak
<i>Quercus hemisphaerica</i>	Darlington oak
<i>Quercus incana</i>	bluejack oak
<i>Quercus laevis</i>	turkey oak
<i>Quercus laurifolia</i>	laurel oak
<i>Quercus lyrata</i>	overcup oak
<i>Quercus marilandica</i>	blackjack oak
<i>Quercus myrtifolia</i>	myrtle oak
<i>Quercus nigra</i>	water oak
<i>Quercus phellos</i>	willow oak
<i>Quercus prinus</i>	chestnut oak
<i>Quercus shumardii</i>	Shumard's oak
<i>Quercus sinuata</i> var. <i>sinuata</i>	bastard oak
<i>Quercus stellata</i>	post oak

<i>Quercus velutina</i>	black oak
<i>Quercus virginiana</i>	live oak
<i>Robinia pseudoacacia</i>	black locust
<i>Sabal palmetto</i>	cabbage palm
<i>Salix nigra</i>	black willow
<i>Sapindus saponaria</i>	wingleaf soapberry
<i>Sassafras albidum</i>	sassafras
<i>Taxodium ascendens</i>	pond cypress
<i>Taxodium distichum</i>	bald cypress
<i>Tilia americana</i>	American basswood
<i>Ulmus alata</i>	winged elm
<i>Ulmus americana</i>	American elm
<i>Ulmus rubra</i>	red elm
<i>Zanthoxylum clava-herculis</i>	Hercules' club

Trees (Small)

<i>Aesculus pavia</i>	red buckeye
<i>Carpinus caroliniana</i>	American hornbeam
<i>Chionanthus virginicus</i>	white fringetree
<i>Cornus florida</i>	flowering dogwood
<i>Crataegus aestivalis</i>	mayhaw
<i>Crataegus crus-galli</i>	cockspur hawthorn
<i>Crataegus flava</i>	yellow hawthorn
<i>Crataegus marshallii</i>	parlsey hawthorn
<i>Crataegus spathulata</i>	littlehip hawthorn
<i>Crataegus viridis</i>	green hawthorn
<i>Cyrilla racemiflora</i>	swamp titi
<i>Frangula caroliniana</i>	Carolina buckthorn
<i>Hamamelis virginiana</i>	American witchhazel
<i>Ilex decidua</i>	possumhaw
<i>Magnolia virginiana</i>	sweetbay
<i>Osmanthus americanus</i>	devilwood
<i>Oxydendrum arboreum</i>	sourwood
<i>Persea borbonia</i>	redbay
<i>Persea palustris</i>	swamp bay

Prunus angustifolia

Prunus caroliniana

Ptelea trifoliata

Rhapidophyllum hystrix

Symplocos tinctoria

Chickasaw plum

Carolina laurelcherry

common hoptree

needle palm

common sweetleaf