

## Volusia County Environmental Management Acceptable Alternative Tree Replacement List

The species listed below are acceptable alternatives for replacement of trees on development sites where replacement of like species is not possible or desirable. Environmental Permitting staff will identify which habitat planting list is appropriate on a site-by-site basis. All tree must be Florida Fancy or Florida #1 Grade, a minimum 2" caliper, and minimum 6' height.

***Please note: 1) Any multi-trunked tree must have at least one trunk meet the 2" caliper minimum requirement. 2) Palms may not comprise more than 25% of the total required replacement for the site, unless approved by the county forester.***

### COASTAL HABITATS

<b>BEACH &amp; DUNE</b>	
<b>Scientific Name</b>	<b>Common Name</b>
<i>Bursera simaruba</i>	Gumbo limbo
<i>Coccoloba uvifera</i>	Seagrape (tree form)
<i>Sabal palmetto</i>	Cabbage palm
<b>COASTAL SCRUB</b>	
<b>Scientific Name</b>	<b>Common Name</b>
<i>Celtis laevigata</i>	Sugarberry
<i>Diospyros virginiana</i>	Common persimmon
<i>Forestiera segregata</i>	Florida privet
<i>Ilex opaca</i>	American holly
<i>Ilex vomitoria</i>	Yaupon holly
<i>Juniperus silicicola</i>	Southern red cedar
<i>Magnolia grandiflora</i>	Southern magnolia
<i>Myrica cerifera</i>	Wax myrtle
<i>Osmanthus americanus</i>	Devilwood
<i>Quercus geminata</i>	Sand live oak
<i>Quercus myrtifolia</i>	Myrtle oak
<i>Quercus virginiana</i>	Live oak
<i>Sabal palmetto</i>	Cabbage palm
<i>Zanthoxylum clava-herculis</i>	Hercules' club
<i>Zanthoxylum fagara</i>	Wild lime
<b>MANGROVE SWAMP</b>	
<b>Scientific Name</b>	<b>Common Name</b>
<i>Avicennia germinans</i>	Black mangrove
<i>Conocarpus erectus</i>	Buttonwood
<i>Laguncularia racemose</i>	White mangrove
<i>Rhizophora mangle</i>	Red mangrove

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<b>MARITIME FOREST</b>	
<b>Scientific Name</b>	<b>Common Name</b>
<i>Bursera simaruba</i>	Gumbo limbo
<i>Celtis laevigata</i>	Sugarberry
<i>Coccoloba uvifera</i>	Seagrape (tree form)
<i>Diospyros virginiana</i>	Common persimmon
<i>Forestiera segregate</i>	Florida privet
<i>Ilex opaca</i>	American holly
<i>Ilex vomitoria</i>	Yaupon holly
<i>Juniperus silicicola</i>	Southern red cedar
<i>Magnolia grandiflora</i>	Southern magnolia
<i>Myrica cerifera</i>	Wax myrtle
<i>Osmanthus americanus</i>	Devilwood
<i>Quercus geminate</i>	Sand live oak
<i>Quercus myrtifolia</i>	Myrtle oak
<i>Quercus virginiana</i>	Live oak
<i>Sabal palmetto</i>	Cabbage palm
<i>Zanthoxylum clava-herculis</i>	Hercules' club
<i>Zanthoxylum fagara</i>	Wild lime

**UPLAND HABITATS**

<b>HARDWOOD FOREST</b>	
<b>Scientific Name</b>	<b>Common Name</b>
<i>Aralia spinosa</i>	Devil's walking stick
<i>Carpinus caroliniana</i>	Hornbeam
<i>Carya glabra</i>	Pignut hickory
<i>Carya illinoensis</i>	Pecan
<i>Celtis laevigata</i>	Sugarberry
<i>Cercis canadensis</i>	Redbud
<i>Chionanthus virginicus</i>	Fringe tree
<i>Cornus florida</i>	Dogwood
<i>Diospyros virginiana</i>	Common persimmon
<i>Fraxinus americana</i>	White ash
<i>Ilex attenuata</i>	East Palatka holly
<i>Ilex opaca</i>	American holly
<i>Ilex vomitoria</i>	Yaupon holly
<i>Juniperus silicicola</i>	Southern red cedar
<i>Juniperus virginiana</i>	Eastern red cedar
<i>Liquidambar styraciflua</i>	Sweet gum
<i>Magnolia grandiflora</i>	Southern magnolia

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<i>Morus rubra</i>	Red mulberry
<i>Ostrya virginiana</i>	Hophornbeam
<i>Plantanus occidentalis</i>	American sycamore
<i>Prunus caroliniana</i>	Cherry laurel
<i>Prunus umbellata</i>	Flatwoods plum
<i>Prunus serotina</i>	Black cherry
<i>Quercus alba</i>	White oak
<i>Quercus falcata</i>	Red oak
<i>Quercus laurifolia</i>	Laurel oak
<i>Quercus shumardii</i>	Shumard oak
<i>Quercus virginiana</i>	Live oak
<i>Sapindus saponaria</i>	Soapberry
<i>Tilia caroliniana</i>	Basswood
<i>Ulmus alata</i>	Winged elm
<b>SANDHILL</b>	
<b>Scientific Name</b>	<b>Common Name</b>
<i>Crataegus flava</i>	Summer haw
<i>Diospyros virginiana</i>	Common persimmon
<i>Lyonia ferruginea</i>	Rusty lyonia
<i>Pinus elliotii</i>	Slash pine
<i>Pinus palustris</i>	Longleaf pine
<i>Prunus angustifolia</i>	Chickasaw plum
<i>Quercus geminata</i>	Sand live oak
<i>Quercus laevis</i>	Turkey oak
<b>SCRUB</b>	
<b>Scientific Name</b>	<b>Common Name</b>
<i>Carya floridana</i>	Scrub hickory
<i>Ilex arenicola</i>	Scrub holly
<i>Lyonia ferruginea</i>	Rusty lyonia
<i>Lyonia fruticosas</i>	Staggerbush
<i>Osmanthus megacarpus</i>	Scrub devilwood
<i>Persea humilis</i>	Silkbay
<i>Pinus clausa</i>	Sand pine
<i>Quercus chapmanii</i>	Chapman's oak
<i>Quercus geminata</i>	Sand live oak
<i>Quercus myrtifolia</i>	Myrtle oak

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**FRESHWATER WETLAND HABITATS**

<b>BAY SWAMP</b>	
<b>Scientific Name</b>	<b>Common Name</b>
<i>Acer rubrum</i>	Red maple
<i>Gordonia lasianthus</i>	Loblolly bay
<i>Ilex cassine</i>	Dahoon holly
<i>Magnolia virginiana</i>	Sweetbay magnolia
<i>Persea palustris</i>	Swamp bay
<i>Pinus serotina</i>	Pond pine
<b>CABBAGE PALM HAMMOCK</b>	
<b>Scientific Name</b>	<b>Common Name</b>
<i>Sabal palmetto</i>	Cabbage palm
<i>Quercus virginiana</i>	Live oak
<b>CYPRESS SWAMP</b>	
<b>Scientific Name</b>	<b>Common Name</b>
<i>Acer rubrum</i>	Red maple
<i>Fraxinus caroliniana</i>	Pop ash
<i>Gleditsia aquatica</i>	Water-locust
<i>Ilex cassine</i>	Dahoon holly
<i>Nyssa sylvatica var. biflora</i>	Swamp tupelo
<i>Taxodium ascendens</i>	Pond cypress
<i>Taxodium distichum</i>	Bald cypress
<b>FRESHWATER MARSH</b>	
<b>Scientific Name</b>	<b>Common Name</b>
<i>Acer rubrum</i>	Red maple
<i>Betula nigra</i>	River birch
<i>Liquidambar styraciflua</i>	Sweet gum
<i>Nyssa aquatica</i>	Water tupelo
<i>Salix caroliniana</i>	Coastal plain willow
<i>Taxodium ascendens</i>	Pond cypress
<i>Taxodium distichum</i>	Bald cypress
<b>HARDWOOD SWAMP</b>	
<b>Scientific Name</b>	<b>Common Name</b>
<i>Acer rubrum</i>	Red maple
<i>Betula nigra</i>	River birch
<i>Carya aquatica</i>	Water hickory

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<i>Cornus foemina</i>	Swamp dogwood
<i>Fraxinus caroliniana</i>	Pop ash
<i>Gleditsia aquatica</i>	Water-locust
<i>Magnolia virginiana</i>	Sweetbay magnolia
<i>Ilex cassine</i>	Dahoon holly
<i>Salix caroliniana</i>	Coastal plain willow
<i>Nyssa sylvatica var. biflora</i>	Swamp tupelo
<i>Taxodium ascendens</i>	Pond cypress
<i>Taxodium distichum</i>	Bald cypress
HYDRIC HAMMOCKS	
Scientific Name	Common Name
<i>Acer negundo</i>	Boxelder
<i>Acer rubrum</i>	Red maple
<i>Agarista populifolia</i>	Pipestem
<i>Betula nigra</i>	River birch
<i>Carpinus caroliniana</i>	Hornbeam
<i>Carya aquatica</i>	Water hickory
<i>Carya glabra</i>	Pignut hickory
<i>Celtis laevigata</i>	Sugarberry
<i>Chamaecyparis thyoides</i>	Atlantic white cedar
<i>Chionanthus virginicus</i>	Fringe tree
<i>Cornus foemina</i>	Swamp dogwood
<i>Crataegus marshallii</i>	Parsley haw
<i>Fraxinus pennsylvanica</i>	Green ash
<i>Gordonia lasianthus</i>	Loblolly bay
<i>Ilex cassine</i>	Dahoon holly
<i>Liquidambar styraciflua</i>	Sweet gum
<i>Liriodendron tulipifera</i>	Tulip tree
<i>Magnolia grandiflora</i>	Southern magnolia
<i>Magnolia virginiana</i>	Sweetbay magnolia
<i>Morus rubra</i>	Red mulberry
<i>Myrica cerifera</i>	Wax myrtle
<i>Pinus taeda</i>	Loblolly pine
<i>Quercus laurifolia</i>	Laurel oak
<i>Quercus michauxii</i>	Chestnut oak
<i>Quercus nigra</i>	Water oak
<i>Styrax americanus</i>	Snowbell
<i>Tilia caroliniana</i>	Basswood
<i>Ulmus alata</i>	Winged elm
<i>Ulmus americana</i>	Florida elm

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<b>PINE FLATWOODS</b>	
<b>Scientific Name</b>	<b>Common Name</b>
<i>Diospyros virginiana</i>	Common persimmon
<i>Gordonia lasianthus</i>	Loblolly bay
<i>Ilex cassine</i>	Dahoon holly
<i>Lyonia ferruginea</i>	Rusty lyonia
<i>Lyonia fruticose</i>	Staggerbush
<i>Myrica cerifera</i>	Wax myrtle
<i>Pinus elliottii</i>	Slash pine
<i>Pinus palustris</i>	Longleaf pine
<i>Pinus serotina</i>	Pond pine
<i>Quercus geminata</i>	Sand live oak
<i>Quercus nigra</i>	Water oak
<i>Quercus virginiana</i>	Live oak
<i>Sabal palmetto</i>	Cabbage palm