

Recommended Native Plant Species for Stream Restoration in North Carolina

Karen Hall
NC Stream Restoration Institute
NCSU
May 2003

The following tables are recommended plants for stream restoration by North Carolina physiographic region based on known commercial availability. This list is certainly not exhaustive and is intended to be used only as a basic guide. Each restoration site is different; therefore revegetation plans should be developed on a case-by-case basis. Not all of the plants listed in the following tables are appropriate for all restoration sites. Consult with local plant guides and/or plant professionals if in doubt about your restoration plan.

Mountain Region

TREES	SMALL TREES/SHRUBS	HERBACEOUS
<i>Aesculus octandra</i> yellow buckeye	<i>Alnus serrulata</i> tag alder	<i>Arisaema triphyllum</i> jack-in-the-pulpit
<i>Betula lenta</i> cherry birch	<i>Amelanchier arborea</i> serviceberry	<i>Asclepias incarnata</i> swamp milkweed
<i>Betula nigra</i> river birch	<i>Aronia arbutifolia</i> red chokeberry	<i>Carex crinata</i> fringed sedge
<i>Carya cordiformis</i> bitternut hickory	<i>Asimina triloba</i> common pawpaw	<i>Carex intumescens</i> bladder sedge
<i>Carya ovata</i> shagbark hickory	<i>Calycanthus floridus</i> sweet-shrub	<i>Carex lupulina</i> hop sedge
<i>Diospyros virginiana</i> persimmon	<i>Carpinus caroliniana</i> ironwood	<i>Carex lurida</i> lurid sedge
<i>Fraxinus pennsylvanica</i> green ash	<i>Cornus alternifolia</i> alternate leaf dogwood	<i>Carex scoparia</i> broom sedge
<i>Halesia caroliniana</i> silverbell	<i>Cornus amomum</i> silky dogwood	<i>Carex stricta</i> tussock sedge
<i>Nyssa sylvatica</i> blackgum	<i>Corylus americana</i> hazel-nut	<i>Carex vulpinoidea</i> fox sedge
<i>Platanus occidentalis</i> sycamore	<i>Hamamelis virginiana</i> witch-hazel	<i>Chelone glabra</i> turtlehead
<i>Prunus serotina</i> black cherry	<i>Ilex verticillata</i> winter berry	<i>Cyperus strigosus</i> umbrella sedge
<i>Salix nigra</i> black willow	<i>Leucothoe axillaris</i> doghobble	<i>Elymus hystrix</i> bottlebrush grass
<i>Tilia heterophylla</i> white basswood	<i>Lindera benzoin</i> spicebush	<i>Eupatorium fistulosum</i> Joe-pye-weed
	<i>Lyonia ligustrina</i> male-berry	<i>Eupatorium perfoliatum</i> boneset
	<i>Magnolia tripetala</i> umbrella tree	<i>Impatiens capensis</i> jewel-weed
	<i>Physocarpus opulifolius</i> ninebark	<i>Juncus effusus</i> soft rush
	<i>Rhododendron periclymenoides</i> wild azalea	<i>Leersia oryzoides</i> rice cutgrass

TREES	SMALL TREES/SHRUBS	HERBACEOUS
	<i>Rhododendron viscosum</i> swamp azalea	<i>Lobelia cardinalis</i> cardinal flower
	<i>Rosa palustris</i> swamp rose	<i>Lobelia siphilitica</i> great blue lobelia
	<i>Salix sericea</i> silky willow	<i>Ludwigia alternifolia</i> bushy seedbox
	<i>Spirea latifolia</i> meadowsweet	<i>Panicum virgatum</i> switchgrass
	<i>Symplocos tinctoria</i> sweet leaf	<i>Polygonum sagittatum</i> tearthumb
	<i>Viburnum cassinoides</i> Withe-rod	<i>Scirpus atrovirens</i> green bulrush
	<i>Xanthorhiza simplicissima</i> yellow-root	<i>Scirpus cyperinus</i> woolgrass
		<i>Scirpus validus</i> soft stem bulrush
		<i>Sparganium americanum</i> bur-reed
		<i>Thelypteris palustris</i> marsh fern
		<i>Uniola latifolia</i> river oats
		<i>Vernonia noveboracensis</i> ironweed

Piedmont Region

TREES	SMALL TREES/SHRUBS	HERBACEOUS
<i>Betula nigra</i> river birch	<i>Acer floridanum</i> southern sugar maple	<i>Arisaema triphyllum</i> jack-in-the-pulpit
<i>Carya cordiformis</i> bitternut hickory	<i>Aesculus sylvatica</i> painted buckeye	<i>Asclepias incarnata</i> swamp milkweed
<i>Carya ovata</i> shagbark hickory	<i>Alnus serrulata</i> tag alder	<i>Carex crinata</i> fringed sedge
<i>Celtis laevigata</i> sugarberry	<i>Amelanchier arborea</i> serviceberry	<i>Carex intumescens</i> bladder sedge
<i>Celtis laevigata</i> sugarberry	<i>Aronia arbutifolia</i> red chokeberry	<i>Carex lupulina</i> hop sedge
<i>Diospyros virginiana</i> persimmon	<i>Asimina triloba</i> common pawpaw	<i>Carex lurida</i> lurid sedge
<i>Fraxinus pennsylvanica</i> green ash	<i>Calycanthus floridus</i> sweet-shrub	<i>Carex scoparia</i> broom sedge
<i>Nyssa sylvatica</i> blackgum	<i>Carpinus caroliniana</i> ironwood	<i>Carex stricta</i> tussock sedge
<i>Platanus occidentalis</i> sycamore	<i>Cephalanthus occidentalis</i> buttonbush	<i>Carex vulpinoidea</i> fox sedge
<i>Prunus serotina</i> black cherry	<i>Cornus alternifolia</i> alternate leaf dogwood	<i>Chelone glabra</i> turtlehead
<i>Quercus michauxii</i> swamp chestnut oak	<i>Cornus amomum</i> silky dogwood	<i>Cyperus strigosus</i> umbrella sedge
<i>Quercus nigra</i> water oak	<i>Corylus americana</i> hazel-nut	<i>Elymus hystrix</i> bottlebrush grass
<i>Quercus phellos</i> willow oak	<i>Hamamelis virginiana</i> witch-hazel	<i>Eupatorium fistulosum</i> Joe-pye-weed
<i>Quercus shumardii</i> Shumard oak	<i>Hibiscus moscheutos</i> marsh mallow	<i>Eupatorium perfoliatum</i> boneset
<i>Salix nigra</i> black willow	<i>Ilex decidua</i> deciduous holly	<i>Impatiens capensis</i> jewel-weed
<i>Tilia heterophylla</i> white basswood	<i>Ilex verticillata</i> winter berry	<i>Juncus effusus</i> soft rush
	<i>Itea virginica</i> Virginia willow	<i>Leersia oryzoides</i> rice cutgrass

TREES	SMALL TREES/SHRUBS	HERBACEOUS
	<i>Leucothoe axillaris</i> doghobble	<i>Lobelia cardinalis</i> cardinal flower
	<i>Lindera benzoin</i> spicebush	<i>Ludwigia alternifolia</i> bushy seedbox
	<i>Lyonia ligustrina</i> male-berry	<i>Panicum virgatum</i> switchgrass
	<i>Magnolia tripetala</i> umbrella tree	<i>Polygonum sagittatum</i> tearthumb
	<i>Morus rubra</i> red mulberry	<i>Scirpus atrovirens</i> green bulrush
	<i>Physocarpus opulifolius</i> ninebark	<i>Scirpus cyperinus</i> woolgrass
	<i>Rhododendron periclymenoides</i> wild azalea	<i>Scirpus validus</i> soft stem bulrush
	<i>Rhododendron viscosum</i> swamp azalea	<i>Sparganium americanum</i> bur-reed
	<i>Rosa palustris</i> swamp rose	<i>Thelypteris palustris</i> marsh fern
	<i>Salix sericea</i> silky willow	<i>Uniola latifolia</i> river oats
	<i>Staphylea trifolia</i> bladdernut	<i>Vernonia noveboracensis</i> ironweed
	<i>Stewartia malacodendron</i> silky camellia	
	<i>Symplocos tinctoria</i> sweet leaf	
	<i>Viburnum cassinoides</i> Withe-rod	
	<i>Viburnum dentatum</i> Southern arrow-wood	
	<i>Xanthorhiza simplicissima</i> yellow-root	

Coastal Plain Region*

TREES	SMALL TREES/SHRUBS	HERBACEOUS
<i>Betula nigra</i> river birch	<i>Aesculus pavia</i> red buckeye	<i>Acorus calamus</i> sweet flag
<i>Carya aquatica</i> water hickory	<i>Alnus serrulata</i> tag alder	<i>Arisaema triphyllum</i> jack-in-the-pulpit
<i>Carya cordiformis</i> bitternut hickory	<i>Aronia arbutifolia</i> red chokeberry	<i>Asclepias incarnata</i> swamp milkweed
<i>Celtis laevigata</i> sugarberry	<i>Asimina triloba</i> common pawpaw	<i>Aster novi-belgii</i> New York aster
<i>Chamaecyparis thyoides</i> Atlantic white-cedar	<i>Carpinus caroliniana</i> ironwood	<i>Carex comosa</i> bottle brush sedge
<i>Diospyros virginiana</i> persimmon	<i>Clethra alnifolia</i> sweet pepperbush	<i>Carex crinata</i> fringed sedge
<i>Fraxinus pennsylvanica</i> green ash	<i>Cornus amomum</i> silky dogwood	<i>Carex intumescens</i> bladder sedge
<i>Fraxinus profunda</i> pumpkin ash	<i>Cornus stricta</i> swamp dogwood	<i>Carex lupulina</i> hop sedge
<i>Gordonia lasianthus</i> loblolly-bay	<i>Corylus americana</i> hazel-nut	<i>Carex lurida</i> lurid sedge
<i>Nyssa aquatica</i> water tupelo	<i>Cyrilla racemiflora</i> titi	<i>Carex stricta</i> tussock sedge
<i>Nyssa biflora</i> swamp tupelo	<i>Fraxinus caroliniana</i> water ash	<i>Carex vulpinoidea</i> fox sedge
<i>Nyssa sylvatica</i> blackgum	<i>Hamamelis virginiana</i> witch-hazel	<i>Chelone glabra</i> turtlehead
<i>Persea borbonia</i> redbay	<i>Hibiscus moscheutos</i> marsh mallow	<i>Cyperus strigosus</i> umbrella sedge
<i>Platanus occidentalis</i> sycamore	<i>Ilex coriacea</i> gallberry	<i>Dichromena colorata</i> white-top sedge
<i>Populus heterophylla</i> swamp cottonwood	<i>Ilex decidua</i> deciduous holly	<i>Eleocharis parvula</i> dwarf spike-rush
<i>Prunus serotina</i> black cherry	<i>Ilex glabra</i> inkberry	<i>Eupatorium fistulosum</i> Joe-pye-weed
<i>Quercus lyrata</i> overcup oak	<i>Itea virginica</i> Virginia willow	<i>Eupatorium perfoliatum</i> boneset
<i>Quercus michauxii</i> swamp chestnut oak	<i>Leucothoe racemosa</i> doghobble	<i>Impatiens capensis</i> jewel-weed

TREES	SMALL TREES/SHRUBS	HERBACEOUS
<i>Quercus nigra</i> water oak	<i>Lindera benzoin</i> spicebush	<i>Juncus effusus</i> soft rush
<i>Quercus pagoda</i> cherrybark oak	<i>Lyonia ligustrina</i> male-berry	<i>Kosteletzkya virginica</i> seashore mallow
<i>Quercus phellos</i> willow oak	<i>Lyonia lucida</i> fetter-bush	<i>Leersia oryzoides</i> rice cutgrass
<i>Quercus shumardii</i> Shumard oak	<i>Magnolia tripetala</i> umbrella tree	<i>Lobelia cardinalis</i> cardinal flower
<i>Salix nigra</i> black willow	<i>Magnolia virginiana</i> sweetbay	<i>Ludwigia alternifolia</i> bushy seedbox
<i>Taxodium distichum</i> var. <i>distichum</i> bald cypress	<i>Morus rubra</i> red mulberry	<i>Osmunda cinnamomea</i> cinnamon fern
<i>Taxodium distichum</i> var. <i>nutans</i> pond cypress	<i>Myrica cerifera</i> wax myrtle	<i>Osmunda regalis</i> royal fern
	<i>Rhododendron periclymenoides</i> wild azalea	<i>Panicum virgatum</i> switchgrass
	<i>Rhododendron viscosum</i> swamp azalea	<i>Peltandra virginica</i> arrow arum
	<i>Rosa palustris</i> swamp rose	<i>Polygonum sagittatum</i> tearthumb
	<i>Salix sericea</i> silky willow	<i>Scirpus americanus</i> American three-square
	<i>Storax americana</i> snowbell	<i>Scirpus cyperinus</i> woolgrass
	<i>Symplocos tinctoria</i> sweet leaf	<i>Scirpus validus</i> soft stem bulrush
	<i>Viburnum dentatum</i> arrow-wood	<i>Sparganium americanum</i> bur-reed
	<i>Xanthorhiza simplicissima</i> yellow-root	<i>Thelypteris palustris</i> marsh fern
	<i>Zenobia pulverulenta</i> zenobia	<i>Vernonia noveboracensis</i> ironweed

*This assumes fresh water stream restoration sites only.

Common North Carolina Riparian Invasive Exotic Plants

- *Ailanthus altissima* Tree-of-heaven
- *Celastrus orbiculatus* Oriental Bittersweet
- *Elaeagnus umbellata* Silverberry
- *Hedera helix* English Ivy
- *Ligustrum sinense* Chinese Privet
- *Lonicera japonica* Japanese Honeysuckle
- *Microstegium vimineum* Microstegium
- *Polygonum cuspidatum* Japanese Knotweed
- *Pueraria lobata* Kudzu
- *Rosa multiflora* Multiflora Rose

Native Plant Suppliers and Resources

Cill Ide Native Plant Nursery

621 Starburst Lane

Raleigh, NC 27603

(919) 662-5566

email: mseeling@bellsouth.net

<http://home.bellsouth.net/p/PWP-nativeplants>

Coastal Plain Conservation Nursery

3067 Conners Drive

Edenton, NC 27932

(252) 482-5707 office

(252) 339-7674 cell

(252) 482-4987 fax

Owner: Ellen J. Colodney, M..D.

Cure Nursery

880 Buteo Road

Pittsboro, NC 27312

(919) 542-6186 tele/fax

email: curenursery@mindspring.com

Elk Mountain Nursery

P.O. Box 599

Asheville, NC 28802

(828) 251-9622

<http://www.elk-mountain.com/>

Environmental Concern Inc.

PO Box P

St. Michaels, MD 21663

(410) 745-9620

(410) 745-4066 nursery fax

(410) 745-3517 office fax

www.wetland.org

email: order@wetland.org

ERNST Conservation Seeds

9006 Mercer Pike

Meadville, PA 16335

(814) 336-2404 phone

(800) 873-3321 order

(814) 336-5191 fax

www.ernstseed.com

email: ernstsales@ernstseed.com

Hoffman Nursery
5520 Bahama Road
Rougemont, NC 27572
(800) 203-8590 phone
(919) 471-3100 fax
<http://www.hoffmannursery.com/>

J&J Transplant Aquatic Nursery
P.O. Box 227
Wild Rose, WI 54984-0227
(715) 256-0059 telephone
(715) 256-0039 facsimile
1(800) 622-5055 orders only
M-S 8 am-5pm

Mellow Marsh Plant Farm
205 Anolis
Pittsboro, NC
(919) 542-3532
www.mellowmarshfarm.com
email: mellowmarsh@mindspring.com

Naturescapes Wetland Plants
1581 Hosier Road
Suffolk, VA 23434
(757) 539-4833 phone and fax

Pinelands Nursery, Inc.
8877 Richmond Road
Toano, VA 23168
(609) 291-9486
1(800) 667-2729
(609) 298-8939 fax
email: sales@pinelandsnursery.com
www.pinelandsnursery.com

Taylor Creek Restoration Nurseries
17921 Smith Road
Brodhead, WI 53520
(608) 897-9641 phone
(608) 897-8486 fax
email: appliedeco@brodnet.com

Southern Tier Consulting, Inc.
P.O. Box 30 West Clarksville, NY 14786
(716) 968-3120 inquires

(716) 968-3122 fax
1(800) 848-7614 orders
email: froghome@eznet.net

Sylva Native Nursery & Seed Co.
1683 Sieling Farm Road
New Freedom, PA 17349
(717) 227-0486 phone
(717) 227-0484 fax
email: plants@sylvanative.com
www.sylvanative.com

Wetland Supply Co.
311 Crooks Drive
Apollo, PA 15613
(724) 334-3780 phone
(724) 334-3781 fax

WE-DU Nurseries
2055 Polly Spout Road
Marion, NC 28752
www.we-du.com

Additionally the following websites can also be used to obtain Nursery location and plant catalogs:

<http://www.bettysgardens.com/native.htm>
<http://www.berg-warner.com/>
<http://www.agr.state.nc.us/plantind/plant/nursery/nursbk.htm>
<http://willow.ncfes.umn.edu/hosted/snti/dir/nc.htm>
<http://www.tytyga.com/>
<http://www.growzone.com>

Invasive Plant Control
PO Box 40987
Nashville, TN 37204
(800) 449-6339 phone
(615) 969-1309 cell
(615) 385-4124 fax
<http://www.invasiveplantcontrol.com/>

CFP Sitework Suppliers
P.O. Box 567
Pineville, NC 28134
(800) 533-0046 phone
<http://www.cfp-geosynthetics.com>