

# 2019 Wholesale Nursery Catalog



*Monarda fistulosa*



Visit us online at [www.wetland.org](http://www.wetland.org)



## ENVIRONMENTAL CONCERN INC.

### Celebrating over 47 years – and still growing!

Environmental Concern (EC) is proud to offer the highest quality native plants in the Mid-Atlantic region. Since 1972, EC has been propagating native wetland plants from locally collected seed, developing state-of-the-art restoration practices, and educating the public throughout the country about the importance of wetlands. For over 47 years, EC has been pioneering native plant horticulture in the Chesapeake Bay region. We look forward to providing you with quality plants and excellent, professional service.



We offer group tours of our nursery. Please visit our website, [www.wetland.org](http://www.wetland.org), for details.

### CONTACT INFORMATION & DRIVING DIRECTIONS



Environmental Concern Inc.  
P.O. Box P  
201 Boundary Lane  
St. Michaels, MD 21663  
[www.wetland.org](http://www.wetland.org)

(410) 745-9620 phone

John Sandkuhler  
Nursery Manager  
[jsandkuhler@wetland.org](mailto:jsandkuhler@wetland.org)

Lyndsey Pollock  
Assistant Nursery Manager  
Nursery Sales  
[nursery-sales@wetland.org](mailto:nursery-sales@wetland.org)

From the north or the south:

- Take Route 50 to Easton, Maryland.
- Just before entering Easton, follow Route 322 (the Easton Parkway) and proceed to Route 33 (St. Michaels Road).
- Turn at Route 33 and proceed 9 miles to St. Michaels.
- Just before entering St. Michaels, turn left on Boundary Lane.
- Follow Boundary Lane to Environmental Concern's sign on the right.



Member of Maryland Nursery, Landscape and Greenhouse Association, Inc.

## 2019 WHOLESALE NURSERY CATALOG

### TERMS

EC's nursery is structured to sell to the wholesale trade. We ask that our customers provide the appropriate business registration verification when placing orders.

The nursery is open for business during the week from 8:00 a.m. to 4:00 p.m. Orders should be placed in advance by email or phone. The nursery is not able to accommodate walk-in customers.

### MINIMUMS

- A \$100 minimum order is required. (*Contact nursery for details.*)
- Wholesale pricing is listed in this catalog. We welcome advance orders, and the opportunity to provide price quotes. Please submit your list via email to [nursery-sales@wetland.org](mailto:nursery-sales@wetland.org).

### PRICES

- Prices are subject to change without notice. We will honor all prices on confirmed orders and quotes for 90 days.

### PAYMENTS

- An invoice will be emailed to you when your order is placed. You must provide an accurate email address upon ordering. **All invoices must be paid prior to time of pick-up, shipping or delivery.**
- Payment may be made by check, cash, Visa, MasterCard, Discover and American Express.
- **A 25% non-refundable deposit is required to hold plants for over 30 days.**



Talbot County shoreline restored by EC team using plants grown in our nursery.

– GET CURRENT AVAILABILITY–

[www.wetland.org](http://www.wetland.org)

### PLACING ORDERS

Email is the most efficient process for placing an order. Customers may also call (410) 745-9620 to place an order by phone. Please be prepared with the size, quantity, destination and date required when you call. An acknowledgement will be sent by email. After you review the acknowledgement, a reply by email to confirm all information is required. Questions and concerns should be addressed promptly.

### DELIVERY & SHIPPING

EC's shipping and delivery process is dependent on the most cost effective and reliable method. If you have questions about shipping and delivery, please email the nursery to discuss the process that works best for your order.

**UPS Ground shipping:** in addition to the actual shipping cost, an \$8.00 per box charge is added. EC's boxes are custom ordered, doublewalled, certified "Lesco" boxes, "tested and rated" for shipping plants. Plants are shipped Monday through Wednesday to ensure delivery by Friday. Our staff use quality packing materials and have years of experience packing plants. Some plants are not available to ship due to size or other factors.

**EC's Vehicle delivery:** delivery charges are based on the size of the order and the mileage to the order destination. The customer must provide assistance to unload plant material. Please email for a quote regarding delivery cost.

**Customer Pickup:** Upon confirmation of the customer's order, a pickup date will be scheduled. Please alert EC at least 24 hours prior to your scheduled pickup if you will not be able to arrive the next day. Scheduled orders that have not been picked up will be returned to inventory after 48 hours, and a 20% restocking fee will be incurred.

### CLAIMS

Plants delivered by EC will be healthy upon receipt. Claims must be emailed to EC within 24 hours of receipt of material.

No claims will be considered unless reported within this time frame. If damaged materials are received from UPS, this damage must be reported to the carrier immediately for their inspection. Pictures of the damage must accompany the notification to EC.

### RESTOCKING FEE

Environmental Concern Inc. charges a 20% restocking fee for all orders refused at delivery, cancelled or rescheduled with less than 24 hours notice prior to a scheduled pickup, shipment, or delivery, left waiting for pickup beyond scheduled pickup day, or returned for reasons other than damage or defect. Additional notice is required if delivery requires over-night lodging by driver. (Email for details.)

### PLANT HEALTH

In order to maintain maximum genetic diversity, all EC plant species are propagated from seed whenever possible. EC's plant material has been certified as free from dangerously injurious plant pests per inspection by the Maryland Department of Agriculture. A copy of our Nursery Inspection Certificate is available upon request.

### PLANT PROPAGATION

Most of the species listed in the catalog are started from seed in plug trays. Seeds are cleaned and processed using the proprietary protocol researched and developed by EC.

### CONTRACT GROWING NOTICE

EC understands the difficulty in securing plants for large installations. It is our goal to fill complete orders for our customers. As a result, we will accept orders for plants to be grown to specifications from four months to three years in advance. This is the best way to ensure that our customers receive what they need, when they need it, and at the fairest cost we can provide. If given enough lead time, we can make a reasonable attempt to grow native species not found in this catalog.

If plants of local native species are needed, EC can collect seed at locations near your project site, with advanced notice.

For more information on contract growing please contact Nursery Sales.  
**Deposits are required and non-refundable.**

### ACCLIMATION TO HYDRIC SOILS

Many emergent, herbaceous wetland plant species are cultivated under flooded conditions during the growing season because of convenience and economy, rather than due to a requirement of the species or a need to acclimate the species. Some of these species are provided an aerobic (drained) condition during the dormant season, as they do not overwinter well in an anoxic condition.



*Agastache foeniculum*  
anise hyssop

## ORIGINS

### REGARDING NATIVE PLANT SPECIES

Most of the herbaceous and woody plant species provided by EC's nursery are **native to the Northeastern United States**. (ME, NH, VT, MA, CT, RI, NY, NJ, PA, DE, MD, DC, VA, OH, WV, and KY). Contact EC for confirmation of origin.



*Spartina alterniflora*  
smooth cordgrass



*Spartina patens*  
salt meadow hay

### Native plants used for shoreline erosion control:

*Spartina alterniflora* (smooth cordgrass) and *Spartina patens* (salt meadow hay) are halophytes and are well suited to tidal inundation. Smooth cordgrass thrives in the intertidal zone.

The fibrous roots of the grasses stabilize the marsh soils. The biomass of the marsh grasses dissipates wave energy-thereby protecting the shoreline.

Ask us about large quantity orders of cordgrass and patens for your shoreline restoration projects. EC has the capacity to grow 1 million plants annually.

## GUIDE KEY

### WETLAND INDICATOR STATUS

For this catalog, we reference the Atlantic and Gulf Coastal Plain 2012 Final Regional Wetland Plant List from The National Wetland Plant List (Lichvar 2012).

- **Obligate Wetland (OBL)**: almost always occur in wetlands
- **Facultative Wetland (FACW)**: usually occur in wetlands, but may occur in non-wetlands
- **Facultative (FAC)**: occur in wetlands or non-wetlands.
- **Facultative Upland (FACU)**: usually occur in non-wetlands, but may occur in wetlands
- **Obligate Upland (UPL)**: almost never occur in wetlands
- **No Indicator (NI)**: no indicator assigned

### WATER TOLERANCE

Water tolerance refers to 'Mean High Water' (MHW) and 'Mean Low Water' (MLW), for tidal areas. 'Midtide' is midway between MHW and MLW.

When a **range of water depth** is given (e.g. 0 - 6"; 0-1") it means that the species will tolerate that range of permanent water depths in nontidal wetlands.

Following are the four **nontidal regimes** that describe the duration of inundation or saturation that plants may tolerate (Environmental Laboratory 1987).

1. **Permanent**: tolerates inundation or saturation from 76-100% of the growing season.
2. **Regular**: tolerates inundation or saturation from 26-75% of the growing season.
3. **Seasonal**: tolerates inundation or saturation from 13-25% of the growing season.
4. **Irregular**: tolerates inundation or saturation from 5-12% of the growing season.

### SALINITY TOLERANCE (ppt)

This catalog indicates the parts per thousand (ppt) concentration of salt in the water, or the range thereof, that each plant will tolerate. Freshwater has < 0.5 ppt salt, brackish water has 0.5 - 30 ppt salt, and saltwater has 30+ ppt salt. If the salinity tolerance is given as resistant it means that the plant tolerates infrequent flooding or spray by saltwater.

### LIGHT PREFERENCE

- Grows in full sun
- Grows in partial sun/shade
- Grows in full shade

### HEIGHT RANGE & AERIAL SPREAD

Both refer to the average mature plant size.

## HERBACEOUS PLANTS

Genus/species Common Name	Available Forms	Price	Water Tolerance	Salinity Tolerance (ppt)
<i>Acorus americanus</i> sweet flag	2" plug 1 quart pot 1 gallon pot	\$0.90 \$3.00 \$7.00	near MHW or regular inundation 0 - 6"	0 - 10
<i>Agastache foeniculum</i> anise hyssop	2" plug 1 quart pot 1 gallon pot	\$0.90 \$3.00 \$7.00	irregular inundation and upland	< 0.5
<i>Alisma subcordatum</i> water plantain	2" plug 1 quart pot 1 gallon pot	\$0.90 \$3.00 \$7.00	regular to permanent inundation 0 - 12"	< 0.5
<i>Allium cernuum</i> nodding onion	2" plug 1 quart pot 1 gallon pot	\$0.90 \$3.00 \$7.00	upland	< 0.5
<i>Andropogon virginicus</i> broomsedge	2" plug 1 quart pot 1 gallon pot	\$0.90 \$3.00 \$7.00	irregular inundation and upland	< 0.5
<i>Aquilegia canadensis</i> red columbine	2" plug 1 quart pot 1 gallon pot	\$0.90 \$3.00 \$7.00	irregular inundation and upland	< 0.5
<i>Asclepias incarnata</i> swamp milkweed	2" plug 1 quart pot 1 gallon pot	\$0.90 \$3.00 \$7.00	seasonal inundation	0 - 5±
<i>Asclepias tuberosa</i> butterfly milkweed	2" plug 1 quart pot 1 gallon pot	\$0.90 \$3.00 \$7.00	irregular inundation and upland	< 0.5
<i>Aster novae-angliae</i> New England aster	2" plug 1 quart pot 1 gallon pot	\$0.90 \$3.00 \$7.00	irregular inundation and upland	0 - 5
<i>Aster novi-belgii</i> New York aster	2" plug 1 quart pot 1 gallon pot	\$0.90 \$3.00 \$7.00	irregular inundation and upland	< 0.5
<i>Baptisia australis</i> blue false indigo	2" plug 1 quart pot 1 gallon pot	\$0.90 \$3.00 \$7.00	irregular inundation and upland	< 0.5
<i>Baptisia tinctoria</i> yellow wild indigo	2" plug 1 quart pot 1 gallon pot	\$0.90 \$3.00 \$7.00	irregular inundation and upland	< 0.5
<i>Carex crinita</i> fringed sedge	2" plug 1 quart pot 1 gallon pot	\$0.90 \$3.00 \$7.00	irregular inundation	< 0.5
<i>Carex intumescens</i> bladder sedge	2" plug 1 quart pot 1 gallon pot	\$0.90 \$3.00 \$7.00	seasonal inundation	< 0.5
<i>Carex lurida</i> lurid sedge	2" plug 1 quart pot 1 gallon pot	\$0.90 \$3.00 \$7.00	irregular inundation	< 0.5
<i>Carex stricta</i> tussock sedge	2" plug 1 quart pot 1 gallon pot	\$0.90 \$3.00 \$7.00	regular inundation 0 - 6"	< 0.5

## FOR AVAILABILITY visit [www.wetland.org](http://www.wetland.org)

Wetland Indicator Status	Light	Height Range	Rate of Spread	Comments
OBL		2 - 3'	medium	inconspicuous, green spathe April-May; forms clumps; tolerates dry periods and acidic conditions; leaves similar to iris
NI		2 - 3'	slow	spikes of blue flowers in late summer, licorice-scented foliage
OBL		up to 3.5'	medium	tends to grow in clusters; white flowers June-September (pH 5.0-7.0)
FACU		0.5 - 2.5'	medium	pink-white flowers June-August; tough plant; self-seeds; fragrant and edible; attracts pollinators
FAC		1 - 3'	slow	clump grass; persistent in winter; provides seed for upland game and songbirds; excellent cover
FACU		1 - 3'	medium	delicate, drooping red flowers April-July; attracts hummingbirds
OBL		up to 6'	slow	pale pink flowers in umbels June-August; nectar source for butterflies and beneficial insects
NI		1 - 3'	slow	orange blooms May-July; attracts butterflies and other beneficial insects
FACW		2 - 5'	slow	light pink-purple July-October, late season; nectar source for butterflies
OBL		1 - 3'	slow	blue-violet flowers July-October, late season; nectar source for butterflies
FACU		3 - 5'	medium	blue-violet flowers April-July; nitrogen fixer; shrub like form; tolerates poor soil; attracts pollinators
FACU		1 - 3'	slow	yellow flowers May-September; nitrogen fixer; tolerates poor soils; attracts pollinators
FACW		1 - 5'	medium	native emergent, grass-like densely tufted culms; drooping seedheads
FACW		1 - 4'	medium	dark green tufted culms; seeds are a food source for birds
OBL		1 - 4'	medium	densely tufted culms; seeds are a food source for birds
OBL		2 - 4'	medium	very high wildlife food value

## HERBACEOUS PLANTS

Genus/species Common Name	Available Forms	Price	Water Tolerance	Salinity Tolerance (ppt)
<b>Carex vulpinoidea</b> fox sedge	2" plug 1 quart pot 1 gallon pot	\$0.90 \$3.00 \$7.00	seasonal to regular inundation 0 - 6"	< 0.5
<b>Chasmanthium latifolium</b> northern sea oats	2" plug 1 quart pot 1 gallon pot	\$0.90 \$3.00 \$7.00	seasonal inundation and upland	< 0.5
<b>Chelone glabra</b> white turtlehead	2" plug 1 quart pot 1 gallon pot	\$0.90 \$3.00 \$7.00	irregular to permanent inundation	< 0.5
<b>Coreopsis verticillata</b> whorled tickseed	2" plug 1 quart pot 1 gallon pot	\$0.90 \$3.00 \$7.00	upland	< 0.5
<b>Dennstaedtia punctilobula</b> hay-scented fern	2" plug 1 quart pot 1 gallon pot	\$0.90 \$3.00 \$7.00	upland	< 0.5
<b>Distichlis spicata</b> spike grass	2" plug 1 quart pot 1 gallon pot	\$0.90 \$3.00 \$7.00	above MHW	0 - 50
<b>Echinacea purpurea</b> purple coneflower	2" plug 1 quart pot 1 gallon pot	\$0.90 \$3.00 \$7.00	upland	< 0.5
<b>Eleocharis obtusa</b> blunt spike rush	2" plug 1 quart pot 1 gallon pot	\$0.90 \$3.00 \$7.00	near MHW or regular inundation 0 - 6"	< 0.5
<b>Eupatorium coelestinum</b> purple mistflower	2" plug 1 quart pot 1 gallon pot	\$0.90 \$3.00 \$7.00	seasonal inundation and upland	< 0.5
<b>Eupatorium dubium</b> joe-pye weed	2" plug 1 quart pot 1 gallon pot	\$0.90 \$3.00 \$7.00	seasonal inundation and upland	< 0.5
<b>Eupatorium fistulosum</b> trumpet weed	2" plug 1 quart pot 1 gallon pot	\$0.90 \$3.00 \$7.00	irregular to seasonal inundation	< 0.5
<b>Eupatorium perfoliatum</b> boneset	2" plug 1 quart pot 1 gallon pot	\$0.90 \$3.00 \$7.00	irregular inundation and upland	< 0.5
<b>Eupatorium purpureum</b> sweet-scented joe-pye weed	2" plug 1 quart pot 1 gallon pot	\$0.90 \$3.00 \$7.00	irregular inundation and upland	< 0.5
<b>Euthamia graminifolia</b> flat-top goldenrod	2" plug 1 quart pot 1 gallon pot	\$0.90 \$3.00 \$7.00	seasonal to upland	< 0.5

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Wetland Indicator Status	Light	Height Range	Rate of Spread	Comments
FACW		up to 3'	slow	provides food for many bird species and some mammals (pH 6.8-8.9)
FAC		1.5 - 5'	medium	attractive seed heads eaten by birds and small mammals; butterfly host plant; provides good texture and erosion control for plantings (pH 5.0-7.0)
OBL		1.5 - 4'	medium	blooms white tinged with pale pink resembling turtles; butterfly host plant; enjoyed by hummingbirds
FACU		0.5 - 3.5'	rapid	yellow flowers June-October; attracts birds and pollinators; forms dense clumps
UPL		1 - 3'	medium	groundcover; fragrant when crushed; fronds turn yellow in fall; habitat for birds and bees
OBL		8 - 16"	rapid	flowers August-October; often intermixed with <i>S. patens</i> and found in high salinity depressions
UPL		2 - 5'	medium	purplish-pink flowers June-August; attracts birds and butterflies; adaptable plant
OBL		0.5 - 1'	slow	annual found in wet meadows; very high waterfowl food value; food source for rails, muskrat, and rabbit
FAC		1 - 3'	medium	enjoyed by beneficial insects; blue to purple fine-textured blooms July-October; can form dense stands (pH 5.5-7.5)
FACW		2 - 5'	slow	small, purple flowers in clusters July-September; nectar source for butterflies and beneficial insects
FACW		2 - 6'	slow	large pink-purple flowers with whorled dark green foliage and purplish hollow stems
FAC		2 - 5'	slow	small, white flowers July-October; attracts a variety of pollinators
FAC		2 - 6.5'	slow	pale pinkish-purple flowers July-October; fragrant foliage; attracts songbirds and a variety of pollinators
FAC		2 - 4'	medium	yellow flowers in fall; great late seasonal resource for pollinators

## HERBACEOUS PLANTS

Genus/species Common Name	Available Forms	Price	Water Tolerance	Salinity Tolerance (ppt)
<i>Geranium maculatum</i> wild geranium	2" plug 1 quart pot 1 gallon pot	\$0.90 \$3.00 \$7.00	upland	< 0.5
<i>Helenium autumnale</i> yellow sneezeweed	2" plug 1 quart pot 1 gallon pot	\$0.90 \$3.00 \$7.00	irregular to permanent inundation	< 0.5
<i>Helianthus angustifolius</i> swamp sunflower	2" plug 1 quart pot 1 gallon pot	\$0.90 \$3.00 \$7.00	irregular to permanent inundation	< 0.5
<i>Hibiscus moscheutos</i> marsh hibiscus	2" plug 1 quart pot 1 gallon pot	\$0.90 \$3.00 \$7.00	near MHW or regular inundation 0 - 3"	0 - 15
<i>Iris versicolor</i> blue flag iris	2" plug 1 quart pot 1 gallon pot	\$0.90 \$3.00 \$7.00	regular inundation 0 - 6"	< 0.5
<i>Juncus effusus</i> soft rush	2" plug 1 quart pot 1 gallon pot	\$0.90 \$3.00 \$7.00	MHW and above or irregular inundation	< 0.5
<i>Juncus gerardii</i> saltmeadow rush	2" plug 1 quart pot 1 gallon pot	\$0.90 \$3.00 \$7.00	near MHW	0 - 32
<i>Juncus roemerianus</i> black needlerush	2" plug 1 quart pot 1 gallon pot	\$0.90 \$3.00 \$7.00	near MHW	0 - 35
<i>Kosteletzkya virginica</i> seashore mallow	2" plug 1 quart pot 1 gallon pot	\$0.90 \$3.00 \$7.00	above MHW or irregular inundation	0 - 10
<i>Leersia oryzoides</i> rice cutgrass	2" plug 1 quart pot 1 gallon pot	\$0.90 \$3.00 \$7.00	near MHW inundation 0 - 3"	< 0.5
<i>Liatis spicata</i> blazingstar/gayfeather	2" plug 1 quart pot 1 gallon pot	\$0.90 \$3.00 \$7.00	seasonal inundation and upland	< 0.5
<i>Lobelia cardinalis</i> cardinal flower	2" plug 1 quart pot 1 gallon pot	\$0.90 \$3.00 \$7.00	near MHW and upland	< 0.5
<i>Lobelia siphilitica</i> great blue lobelia	2" plug 1 quart pot 1 gallon pot	\$0.90 \$3.00 \$7.00	irregular inundation	< 0.5

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Wetland Indicator Status	Light	Height Range	Rate of Spread	Comments
FACU		1 - 2'	rapid	lavender-pink flowers April-July; adaptable plant; attracts pollinators and birds; groundcover
FACW		1.5 - 6'	slow	vibrant yellow blooms July-November; attracts butterflies
FACW		up to 5.5'	medium	bright yellow blooms August-October; nectar enjoyed by butterflies and songbirds (pH 4.0-7.0)
OBL		4 - 7'	slow	large white, pink, or red flowers in late summer; seed capsules persist through winter; tolerates dry periods; nectar source for ruby-throated hummingbirds
OBL		1 - 3'	slow	showy flowers late spring; clumps; limited wildlife value; requires full sun for flowering
OBL		3 - 4'	slow	often grows in tussocks or hummocks; waterfowl eat seed; clumping habit
OBL		0.5 - 3'	slow	dark green foliage with slender round stems; found primarily in tidal brackish marshes
OBL		1 - 4'	medium	flowers May-October; good marsh stabilizer
OBL		2 - 4'	slow	attractive pink flowers July-September; attracts hummingbirds
OBL		1 - 3'	medium	tolerates periods of dryness; excellent erosion control; very high wildlife value; small lavender flowers in sprays July-October
FAC		1 - 6.5'	slow	bright purple spiked blooms July-August; attracts songbirds and a variety of pollinators
FACW		up to 5'	slow	attractive scarlet flowers in spikes; blooms July-October; nectar supply for hummingbirds
OBL		up to 3'	slow	bright blue flowers August-October; attracts pollinators

## HERBACEOUS PLANTS

Genus/species Common Name	Available Forms	Price	Water Tolerance	Salinity Tolerance (ppt)
<i>Mimulus ringens</i> monkey flower	2" plug 1 quart pot 1 gallon pot	\$0.90 \$3.00 \$7.00	seasonal to regular inundation	< 0.5
<i>Monarda fistulosa</i> wild bergamot	2" plug 1 quart pot 1 gallon pot	\$0.90 \$3.00 \$7.00	seasonal to regular inundation	< 0.5
<i>Onoclea sensibilis</i> sensitive fern	1 gallon pot	\$7.00	irregular to permanent inundation	< 0.5
<i>Osmunda cinnamomea</i> cinnamon fern	1 gallon pot	\$7.00	seasonal to regular inundation	< 0.5
<i>Osmunda regalis</i> royal fern	1 gallon pot	\$7.00	irregular to permanent inundation	< 0.5
<i>Panicum amarum</i> coastal panic grass	2" plug 1 quart pot 1 gallon pot	\$0.90 \$3.00 \$7.00	irregular inundation and upland	resistant
<i>Panicum virgatum</i> switchgrass	2" plug 1 quart pot 1 gallon pot	\$0.90 \$3.00 \$7.00	MHW to upland	0 - 10±
<i>Peltandra virginica</i> arrow arum	2" plug 1 quart pot 1 gallon pot	\$0.90 \$3.00 \$7.00	midtide - MHW or permanent inundation 0 - 18"	0 - 1±
<i>Penstemon digitalis</i> beardtongue	2" plug 1 quart pot 1 gallon pot	\$0.90 \$3.00 \$7.00	seasonal inundation to upland	< 0.5
<i>Physostegia virginiana</i> obedient plant	2" plug 1 quart pot 1 gallon pot	\$0.90 \$3.00 \$7.00	irregular inundation and upland	< 0.5
<i>Pontederia cordata</i> pickerelweed	2" plug 1 quart pot 1 gallon pot	\$0.90 \$3.00 \$7.00	midtide - MHW or permanent inundation 0 - 12"	< 0.5
<i>Pycnanthemum muticum</i> mountain mint	2" plug 1 quart pot 1 gallon pot	\$0.90 \$3.00 \$7.00	seasonal inundation to upland	< 0.5
<i>Pycnanthemum virginianum</i> Virginia mountain mint	2" plug 1 quart pot 1 gallon pot	\$0.90 \$3.00 \$7.00	seasonal inundation to upland	< 0.5

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Wetland Indicator Status	Light	Height Range	Rate of Spread	Comments
OBL		1.5 - 4'	slow	light blue-violet to pink blooms throughout summer; spreads easily
FACU		1.5 - 5'	slow	fragrant pinkish-purple flowers June-September; gray-green foliage; attracts hummingbirds and butterflies
FACW		up to 3'	medium	grows well in average garden soil that does not dry out (pH preference 4.5-7.5)
FACW		up to 5'	slow	tolerates drought; provides food for many birds and mammals (pH 4.5-7.5)
OBL		up to 6'	slow	food source for upland game birds and mammals (pH 4.0-6.0)
FAC		1.5 - 6'	rapid	deep-rooted bunch grass grows best on coastal shores and dunes; tolerates drought; provides food and cover for wildlife
FAC		2 - 4'	slow	clumping grass; delicate texture; ornamental particularly in winter; very high wildlife value; flowers July-September
OBL		2 - 3'	slow	attractive, statuesque accent; inconspicuous green flower in late spring; not subject to wildlife depredation; seed preferred by wood ducks
FAC		2 - 4'	medium	white flowers in spring; good ornamental value in meadows and landscapes
FACW		3 - 6'	rapid	pink-purple flowers June-September; attracts pollinators
OBL		1 - 3.5'	medium	heart-shaped leaves; showy blue flowers in spikes June-November; of some interest to black and wood ducks
FAC		1 - 3'	rapid	pink flowers July-September; silver-grey bracts that are long lasting - summer to fall; mint scented foliage
FAC		2 - 4'	rapid	white flowers July-September; silver-grey bracts that are long lasting - summer to fall; mint scented foliage



## HERBACEOUS PLANTS

Genus/species Common Name	Available Forms	Price	Water Tolerance	Salinity Tolerance (ppt)
<i>Rudbeckia fulgida</i> black-eyed susan	2" plug 1 quart pot 1 gallon pot	\$0.90 \$3.00 \$7.00	irregular inundation and upland	< 0.5
<i>Sagittaria latifolia</i> duck potato	2" plug 1 quart pot 1 gallon pot	\$0.90 \$3.00 \$7.00	near midtide or permanent inundation 0 - 18"	< 0.5
<i>Saururus cernuus</i> lizard's tail	2" plug 1 quart pot 1 gallon pot	\$0.90 \$3.00 \$7.00	near midtide or permanent inundation 0 - 12"	< 0.5
<i>Schizachyrium littorale</i> coastal little bluestem	2" plug 1 quart pot 1 gallon pot	\$0.90 \$3.00 \$7.00	MHW to upland	< 0.5
<i>Schizachyrium scoparium</i> little bluestem	2" plug 1 quart pot 1 gallon pot	\$0.90 \$3.00 \$7.00	MHW to upland	< 0.5
<i>Scirpus atrovirens</i> dark green bulrush	2" plug 1 quart pot 1 gallon pot	\$0.90 \$3.00 \$7.00	regular to permanent inundation	< 0.5
<i>Scirpus cyperinus</i> woolgrass bulrush	2" plug 1 quart pot 1 gallon pot	\$0.90 \$3.00 \$7.00	seasonal inundation	< 0.5
<i>Scirpus pungens</i> three-square bulrush	2" plug 1 quart pot 1 gallon pot	\$0.90 \$3.00 \$7.00	midtide - MHW or permanent inundation 0 - 12"	0 - 15
<i>Scirpus robustus</i> sturdy or saltmarsh bulrush	2" plug 1 quart pot 1 gallon pot	\$0.90 \$3.00 \$7.00	near MHW	0 - 30
<i>Scirpus tabernaemontani</i> soft stem bulrush	2" plug 1 quart pot 1 gallon pot	\$0.90 \$3.00 \$7.00	near midtide or permanent inundation 0 - 12"	0 - 5±
<i>Sisyrinchium angustifolium</i> blue-eyed grass	2" plug 1 quart pot 1 gallon pot	\$0.90 \$3.00 \$7.00	irregular inundation and upland	< 0.5
<i>Solidago rugosa</i> rough-stem goldenrod	2" plug 1 quart pot 1 gallon pot	\$0.90 \$3.00 \$7.00	irregular inundation and upland	< 0.5
<i>Solidago sempervirens</i> seaside goldenrod	2" plug 1 quart pot 1 gallon pot	\$0.90 \$3.00 \$7.00	above MHW or irregular inundation	0 - 10±

## FOR AVAILABILITY visit [www.wetland.org](http://www.wetland.org)

Wetland Indicator Status	Light	Height Range	Rate of Spread	Comments
FAC		1.5 - 3.5'	medium	yellow-orange blooms (dark brown center) July-October; attracts songbirds and a variety of pollinators
OBL		up to 4'	rapid	broad leaved; white flowers on stalk July- September; underground tuber preferred by at least 15 species of duck
OBL		up to 4'	rapid	attractive, nodding white flowers in spikes June- September; valued by wood duck; colonizes large areas; drought resistant
FACW		1 - 2'	slow	clumping grass; provides cover for ground birds and small mammals; adapted to dry, drained, infertile secondary dunes
FACU		2 - 3'	slow	clumping grass with delicate texture; persistent; low maintenance
OBL		up to 6'	medium	provides food and cover for several bird species as well as muskrats; brown flower and seed with dark green stem (pH 4.0-8.0)
OBL		4 - 5'	medium	dense clumps; nodding, persistent seed clusters; flowers August-September; high wildlife value
OBL		up to 4'	rapid	erect, triangular stems; heavy predation by muskrat, nutria, and geese; birds eat seeds; flowers June-September.
OBL		up to 4'	rapid	triangular stems; moderate wildlife value; does well in fluctuating salinity; flowers July-October
OBL		6 - 10'	rapid	tube-like stems; drooping seed clusters at top; good vertical accent; moderate wildlife value; flowers June-September
FACW		4 - 10"	slow	grass-like foliage; small blue flowers May-July
FAC		2 - 4'	medium	an excellent upland goldenrod; durable; great resource for late season pollinators
FACW		3 - 4'	slow	yellow flowers in dense, one-sided spikes July-November

## HERBACEOUS PLANTS

Genus/species Common Name	Available Forms	Price	Water Tolerance	Salinity Tolerance (ppt)
<i>Spartina alterniflora</i> smooth cordgrass	2" plug 1 quart pot 1 gallon pot	\$0.90 \$3.00 \$7.00	midtide to MHW	0 - 35±
<i>Spartina cynosuroides</i> big cordgrass	2" plug 1 quart pot 1 gallon pot	\$0.90 \$3.00 \$7.00	MHW and above	0 - 10
<i>Spartina patens</i> salt meadow hay	2" plug 1 quart pot 1 gallon pot	\$0.90 \$3.00 \$7.00	above MHW	0 - 35±
<i>Verbena hastata</i> blue vervain	2" plug 1 quart pot 1 gallon pot	\$0.90 \$3.00 \$7.00	irregular inundation	< 0.5
<i>Vernonia noveboracensis</i> New York ironweed	2" plug 1 quart pot 1 gallon pot	\$0.90 \$3.00 \$7.00	seasonal inundation	< 0.5
<i>Woodwardia areolata</i> netted chain fern	1 gallon pot	\$7.00	seasonal to regular inundation	< 0.5
<i>Zizia aptera</i> meadow zizia	2" plug 1 quart pot 1 gallon pot	\$0.90 \$3.00 \$7.00	upland	< 0.5

### Quantity Discounts

Wholesale Plug Pricing	
Quantity	Price
<1,000	\$0.90
1,000-5,000	\$0.85
5,000-10,000	\$0.80
>10,000	Call us - we want to talk

Wholesale Quart Pricing	
Quantity	Price
<150	\$3.00
150-250	\$2.75
250-350	\$2.50
>350	Call us - we want to talk

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Wetland Indicator Status	Light	Height Range	Rate of Spread	Comments
OBL		4 - 7'	rapid	shore erosion control; rhizome eaten by muskrat and geese; birds eat seed
OBL	○	3.5 - 10'	medium	shore erosion control; doesn't tolerate drought; forms dense colonies
FACW		1 - 3'	medium	shore erosion control; tolerates drought once established; good cover and nesting
FAC	◐	up to 5'	slow	blue-violet flowers in multiple, small, dense spikes June-October
FACW		3 - 7'	slow	vivid purple flowers in heads August-September; attracts butterflies
OBL	◑	1 - 3'	rapid	groundcover; tolerates heavy shade and brackish soils; cover for frogs, toads, and newts
FACU		1 - 3'	medium	yellow umbel flowers April-June; host plant for Black Swallowtail butterflies

### Quantity Discounts

Wholesale Gallon Pricing					
Quantity	1 Gallon	2 Gallon	3 Gallon	5 Gallon	7 Gallon
<150	\$7.00	\$9.00	\$12.00	\$15.00	\$21.00
150-250	\$6.75	\$8.75	\$11.75	\$14.75	\$20.75
250-350	\$6.50	\$8.50	\$11.50	\$14.50	\$20.50
>350	Call us - we want to talk!				

## SHRUBS/TREES

Genus/species Common Name	Available Forms	Price	Water Tolerance	Salinity Tolerance (ppt)
<b><i>Aronia arbutifolia</i></b> red chokeberry	1 Gal	\$7.00	irregular to seasonal inundation	resistant
	2 Gal	\$9.00		
	3 Gal	\$12.00		
	5 Gal	\$15.00		
<b><i>Aronia melanocarpa</i></b> black chokeberry	1 Gal	\$7.00	irregular to seasonal inundation	resistant
	2 Gal	\$9.00		
	3 Gal	\$12.00		
	5 Gal	\$15.00		
<b><i>Aronia prunifolia</i></b> purple chokeberry	1 Gal	\$7.00	irregular to seasonal inundation	resistant
	2 Gal	\$9.00		
	3 Gal	\$12.00		
	5 Gal	\$15.00		
<b><i>Baccharis halimifolia</i></b> groundsel tree	1 Gal	\$7.00	above MHW or seasonal inundation	0 - 15±
	2 Gal	\$9.00		
	3 Gal	\$12.00		
	5 Gal	\$15.00		
<b><i>Cephalanthus occidentalis</i></b> buttonbush	1 Gal	\$7.00	MHW and above or permanent inundation 0 - 12"	resistant
	2 Gal	\$9.00		
	3 Gal	\$12.00		
	5 Gal	\$15.00		
<b><i>Cercis canadensis</i></b> eastern redbud	1 Gal	\$7.00	irregular inundation	< 0.5
	2 Gal	\$9.00		
	3 Gal	\$12.00		
	5 Gal	\$15.00		
<b><i>Clethra alnifolia</i></b> sweet pepperbush	1 Gal	\$7.00	seasonal to regular inundation	resistant
	2 Gal	\$9.00		
	3 Gal	\$12.00		
	5 Gal	\$15.00		
<b><i>Cornus amomum</i></b> silky dogwood	1 Gal	\$7.00	seasonal inundation	< 0.5
	2 Gal	\$9.00		
	3 Gal	\$12.00		
	5 Gal	\$15.00		
<b><i>Cornus racemosa</i></b> gray twig dogwood	1 Gal	\$7.00	seasonal inundation	< 0.5
	2 Gal	\$9.00		
	3 Gal	\$12.00		
	5 Gal	\$15.00		
<b><i>Cornus sericea</i></b> redosier dogwood	1 Gal	\$7.00	seasonal inundation	< 0.5
	2 Gal	\$9.00		
	3 Gal	\$12.00		
	5 Gal	\$15.00		

## FOR AVAILABILITY visit [www.wetland.org](http://www.wetland.org)

Wetland Indicator Status	Light	Mature Height	Aerial Spread	Comments
FACW		6 - 12'	3 - 6'	white flowers in May; red fruit September-December; emergency winter food for many species; tolerates acid soil (pH 5.0 - 6.5)
FAC		6 - 12'	3 - 6'	white flowers in May; black fruit September-November; eaten by songbirds; also edible to humans; tolerates acid soil (pH 5.1-6.5)
FACW		6 - 12'	3 - 6'	white flowers April-May; purple berries September-December; used by songbirds, mammals, browsers; tolerates acid soil (pH 5.1-6.5)
FAC		6 - 12'	6 - 12'	flowers August-September; poor soil stabilizer; tolerates alkaline soil (pH 7.0-8.5)
OBL		6 - 12'	12 - 20'	numerous tubular flowers in ball-shaped heads May-August; few flowers in full shade; attracts butterflies and beneficial insects; will adapt to dry sites (tolerates pH 6.1-8.5)
FACU		20 - 35'	20 - 35'	pink flowers April-May along stems and branches; nitrogen fixer; golden-yellow fall color; valuable to pollinators, birds, and small mammals (pH 4.5-7.5)
FACW		6 - 12'	3 - 6'	fragrant white flowers in spikes July-August; attracts butterflies and beneficial insects; tolerates acid soil (pH 4.5-6.5)
FACW		6 - 12'	6 - 12'	white flowers May-June; blue berries in August; very high food value to many songbirds and mammals
FAC		6 - 12'	6 - 12'	white flowers May-June; white berries August-September, very high food value to songbirds; waterfowl and mammals
FACW		6 - 12'	6 - 12'	white flowers May-June; white berries in September; very high food value to songbirds, waterfowl, game birds and mammals

**SHRUBS/TREES**

Genus/species Common Name	Available Forms	Price	Water Tolerance	Salinity Tolerance (ppt)
<b><i>Ilex glabra</i></b> inkberry	1 Gal	\$7.00	seasonal inundation	< 0.5
	2 Gal	\$9.00		
	3 Gal	\$12.00		
	5 Gal	\$15.00		
<b><i>Ilex opaca</i></b> American holly	7 Gal	\$21.00	irregular to seasonal inundation	resistant
<b><i>Ilex verticillata</i></b> winterberry	1 Gal	\$7.00	above MHW or seasonal inundation	< 0.5
	2 Gal	\$9.00		
	3 Gal	\$12.00		
	5 Gal	\$15.00		
<b><i>Itea virginica</i></b> Virginia sweetspire	1 Gal	\$7.00	regular to seasonal inundation	< 0.5
	2 Gal	\$9.00		
	3 Gal	\$12.00		
	5 Gal	\$15.00		
<b><i>Iva frutescens</i></b> high tide bush	1 Gal	\$7.00	above MHW to upland	0 - 15
	2 Gal	\$9.00		
	3 Gal	\$12.00		
	5 Gal	\$15.00		
<b><i>Lindera benzoin</i></b> spicebush	1 Gal	\$7.00	seasonal inundation	resistant
	2 Gal	\$9.00		
	3 Gal	\$12.00		
	5 Gal	\$15.00		
<b><i>Magnolia virginiana</i></b> sweet bay magnolia	1 Gal	\$7.00	seasonal to regular inundation 0 - 3"	resistant
	2 Gal	\$9.00		
	3 Gal	\$12.00		
	5 Gal	\$15.00		
<b><i>Morella cerifera</i></b> wax myrtle	1 Gal	\$7.00	above MHW or irregular inundation	0 - 10
	2 Gal	\$9.00		
	3 Gal	\$12.00		
	5 Gal	\$15.00		
<b><i>Morella pensylvanica</i></b> northern bayberry	1 Gal	\$7.00	above MHW or irregular inundation	0 - 20
	2 Gal	\$9.00		
	3 Gal	\$12.00		
	5 Gal	\$15.00		








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Wetland Indicator Status	Light	Mature Height	Aerial Spread	Comments
FACW		6 - 12'	6 - 12'	small, shiny evergreen leaves with black berries; provides emergency winter food and cover for birds and mammals; fairly insensitive to disease and insect damage (pH 4.5-6.0)
FACU		15 - 50'	8 - 40'	evergreen; red berries from September-December are eaten by birds; dioecious; sandy woods (pH 4.0-7.5)
FACW		6 - 12'	6 - 12'	flowers in June; red-orange berries August-February; emergency winter food for many songbirds and small mammals; tolerates acid to alkaline soil (pH 4.5-8.0)
FACW		6 - 12'	6 - 12'	dense, upright, terminal, tassel-like, white spikes June-July; forms small, elongate capsule persisting until late March; swamps, wet coastal areas, reliable red fall color (pH 5.0-7.0)
FACW		2 - 10'	6 - 12'	flowers August-September; attracts birds; similar to <i>Baccharis halimifolia</i> but with opposite leaves (pH 5.0-5.7)
FACW		6 - 12'	6 - 12'	fragrant foliage; scarlet berries in September; very high food value for birds; deer browse twigs and foliage; tolerates acid soil (pH 4.5-6.5)
FACW		12 - 20'	12 - 20'	fragrant, white 2-3" flowers May-June; scarlet seeds in slits of erect follicles; flowers best in full shade to partial sun
FAC		6 - 15'	6 - 15'	evergreen; nitrogen fixer; small bluish berries with waxy coating
FAC		6 - 15'	6 - 15'	deciduous; nitrogen fixer; flowers March-April; grey berries September-May; high wildlife value; tolerates slightly acid soil (pH 5.0-6.5)

## SHRUBS/TREES

Genus/species Common Name	Available Forms	Price	Water Tolerance	Salinity Tolerance (ppt)
<b><i>Prunus maritima</i></b> beach plum	1 Gal	\$7.00	upland	resistant
	2 Gal	\$9.00		
	3 Gal	\$12.00		
	5 Gal	\$15.00		
<b><i>Rosa palustris</i></b> swamp rose	1 Gal	\$7.00	regular inundation 0 - 3"	< 0.5
	2 Gal	\$9.00		
	3 Gal	\$12.00		
	5 Gal	\$15.00		
<b><i>Sambucus canadensis</i></b> elderberry	1 Gal	\$7.00	seasonal inundation	< 0.5
	2 Gal	\$9.00		
	3 Gal	\$12.00		
	5 Gal	\$15.00		
<b><i>Vaccinium corymbosum</i></b> highbush blueberry	1 Gal	\$7.00	seasonal inundation	resistant
	2 Gal	\$9.00		
	3 Gal	\$12.00		
	5 Gal	\$15.00		
<b><i>Viburnum dentatum</i></b> arrowwood	1 Gal	\$7.00	seasonal inundation	resistant
	2 Gal	\$9.00		
	3 Gal	\$12.00		
	5 Gal	\$15.00		
<b><i>Viburnum lentago</i></b> nannyberry	1 Gal	\$7.00	seasonal inundation	< 0.5
	2 Gal	\$9.00		
	3 Gal	\$12.00		
	5 Gal	\$15.00		
<b><i>Viburnum nudum</i></b> possum haw viburnum	1 Gal	\$7.00	seasonal or regular inundation	< 0.5
	2 Gal	\$9.00		
	3 Gal	\$12.00		
	5 Gal	\$15.00		

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Wetland Indicator Status	Light	Mature Height	Aerial Spread	Comments
UPL		1 - 8'	3 - 6'	white flowers April-May; edible fruit August (pH 5.8-7.7)
OBL		2 - 7'	4 - 6'	pink flowers June-October; rose hips eaten by many species of birds; good nesting habitat
FACW		6 - 12'	6 - 12'	sends out suckers; small, white flowers in large flat-topped clusters; purple berries August-September; relished by birds; hooved browsers eat twigs
FACU		12'	4 - 6'	white, urn-shaped flowers April-July; blue berries are a valuable food source for many species of wildlife; demands acid soil (pH 3.5-6.0)
FAC		6 - 12'	6 - 12'	white flowers May-June; blue fruit September-November; valuable to birds and small mammals
FAC		12 - 20'	12 - 20'	white flowers in the May-June; blue fruits in the September-November; prefers moist soil
FACW		6 - 12'	12 - 15'	small, broad, flat-topped clusters of white flowers in June-July; multiple upright and/or horizontal stems; football shaped berries turning pink then blue; moist soils, thickets and swamps (pH 5.1-6.0)

# Herbaceous Wetland Species Selection Guide

Use this guide to determine which species are options in your wetland environment. Species listed are all available from Environmental Concern.

