

2020 Wholesale Nursery Catalog



Environmental
Concern

Visit us online at www.wetland.org



ENVIRONMENTAL CONCERN INC.

Celebrating over 48 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 about the importance of wetlands. For over 48 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.



CONTACT INFORMATION & DRIVING DIRECTIONS



Environmental Concern Inc.
P.O. Box P
201 Boundary Lane
St. Michaels, MD 21663
www.wetland.org

(410) 745-9620 phone
John Sandkuhler
Nursery Manager
jsandkuhler@wetland.org

Lyndsey Pollock
Assistant Nursery Manager
Nursery Sales
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.

2020 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 is required for the first order.
- 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.

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.
- Orders held 21 days past the **originally** scheduled pick-up, delivery, or shipping date, regardless of notice provided by the customer, will incur a 20% holding fee. If plants are held more than 40 days past the **originally** scheduled pick-up, delivery, or shipping date, a 40% holding fee will be added to the total order, or the order may be cancelled at the discretion of EC and all payments made will be forfeited, unless an alternative, mutually agreed upon arrangement is approved.



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

VISIT www.wetland.org FOR CURRENT AVAILABILITY.

PLANT ORDERS & SHIPPING

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. **A minimum of 50 plugs (one tray) must be ordered to request shipment by UPS.**

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 pick up date if you will not be able to arrive the next day. A 15% restocking fee will apply if the order is not picked up, and 24 hours advance notice is not given. This applies to the first 20 days from the originally scheduled order.

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).

GENERAL PLANT INFORMATION

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. An additional charge will be added if salinity acclimation is requested. Contact the nursery for details.



Agastache foeniculum
anise hyssop

GENERAL PLANT INFORMATION

REGARDING NATIVE PLANT SPECIES

All 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.

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.

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.

QUANTITY DISCOUNTS

Wholesale Plug Price

<u>Quantity</u>	<u>Price</u>	<u>Price Exceptions</u>
up to 1,000	\$0.90	\$0.95
1,001-5,000	\$0.85	\$0.90
5,001-10,000	\$0.80	\$0.85
>10,000	Call for pricing	

Wholesale Quart Price

<u>Quantity</u>	<u>Price</u>	<u>Price Exceptions</u>
up to 150	\$3.00	\$3.25
151-250	\$2.75	\$3.00
251-350	\$2.50	\$2.75
>350	Call for pricing	

Wholesale Herbaceous Price

















<u>Quantity</u>	<u>1 Gallon</u>
up to 50	\$5.25
51-75	\$5.00
76-100	\$4.75
>100	\$4.50

Wholesale Shrub/Tree Pricing

<u>Quantity</u>	<u>1 Gallon</u>	<u>2 Gallon</u>	<u>3 Gallon</u>	<u>5 Gallon</u>	<u>7 Gallon</u>
up to 75	\$7.00	\$9.00	\$12.00	\$15.00	\$21.00
76-125	\$6.75	\$8.75	\$11.75	\$14.75	\$20.75
126-175	\$6.50	\$8.50	\$11.50	\$14.50	\$20.50
176-225	\$6.25	\$8.25	\$11.25	\$14.25	\$20.25
>225	\$6.00	\$8.00	\$11.00	\$14.00	\$20.00















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	\$0.95 \$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>Andropogon virginicus</i> broomsedge	2" plug 1 quart pot 1 gallon pot	\$0.95 \$3.00 \$7.00	irregular inundation and upland	< 0.5
<i>Asarum canadense</i> wild ginger	2" plug 1 quart pot 1 gallon pot	\$0.90 \$3.00 \$7.00	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	\$0.95 \$3.25 \$7.00	seasonal inundation	0 - 5±
<i>Asclepias tuberosa</i> butterfly milkweed	2" plug 1 quart pot 1 gallon pot	\$0.95 \$3.25 \$7.00	irregular inundation and upland	< 0.5
<i>Aster novae-angliae</i> New England aster	2" plug 1 quart pot 1 gallon pot	\$0.95 \$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	\$0.95 \$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>Boltonia asteroides</i> false aster	2" plug 1 quart pot 1 gallon pot	\$0.90 \$3.00 \$7.00	seasonal to irregular inundation	< 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 lurida</i> lurid sedge	2" plug 1 quart pot 1 gallon pot	\$0.90 \$3.00 \$7.00	irregular inundation	< 0.5
<i>Carex pensylvanica</i> Pennsylvania sedge	2" plug 1 quart pot 1 gallon pot	\$0.90 \$3.00 \$7.00	upland	< 0.5

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)
FAC		1 - 3'	slow	clump grass; persistent in winter; provides seed for upland game and songbirds; excellent cover
UPL		0.5 - 1'	slow	fragrant ground cover; tolerates heavy shade; food source for the pipevine swallowtail butterfly; deer resistant
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		0.5- 2.5'	rapid	white flowers July-September; deer resistant; attracts pollinators
FACW		1 - 5'	medium	native emergent, grass-like densely tufted culms; drooping seedheads
OBL		1 - 4'	medium	densely tufted culms; seeds are a food source for birds
NI		0.5 - 1.5'	medium	alternative to a lawn; attracts song birds and waterfowl; deer resistant














HERBACEOUS PLANTS

Genus/species Common Name	Available Forms	Price	Water Tolerance	Salinity Tolerance (ppt)
Carex stricta tussock sedge	2" plug 1 quart pot 1 gallon pot	\$0.95 \$3.00 \$7.00	regular inundation 0 - 6"	< 0.5
Carex vulpinoidea fox sedge	2" plug 1 quart pot 1 gallon pot	\$0.90 \$3.00 \$7.00	seasonal to regular inundation 0 - 6"	< 0.5
Chasmanthium latifolium northern sea oats	2" plug 1 quart pot 1 gallon pot	\$0.95 \$3.00 \$7.00	seasonal inundation and upland	< 0.5
Chelone glabra white turtlehead	2" plug 1 quart pot 1 gallon pot	\$0.90 \$3.00 \$7.00	irregular to permanent inundation	< 0.5
Dennstaedtia punctilobula hay-scented fern	2" plug 1 quart pot 1 gallon pot	\$0.90 \$3.00 \$7.00	upland	< 0.5
Distichlis spicata spike grass	2" plug 1 quart pot 1 gallon pot	\$0.95 \$3.00 \$7.00	above MHW	0 - 50
Echinacea purpurea purple coneflower	2" plug 1 quart pot 1 gallon pot	\$0.90 \$3.00 \$7.00	upland	< 0.5
Eupatorium coelestinum purple mistflower	2" plug 1 quart pot 1 gallon pot	\$0.90 \$3.00 \$7.00	seasonal inundation and upland	< 0.5
Eupatorium dubium joe-pye weed	2" plug 1 quart pot 1 gallon pot	\$0.95 \$3.25 \$7.00	seasonal inundation and upland	< 0.5
Eupatorium perfoliatum boneset	2" plug 1 quart pot 1 gallon pot	\$0.90 \$3.00 \$7.00	irregular inundation and upland	< 0.5
Eupatorium purpureum 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
Helenium autumnale yellow sneezeweed	2" plug 1 quart pot 1 gallon pot	\$0.90 \$3.00 \$7.00	irregular to permanent inundation	< 0.5
Helianthus angustifolius swamp sunflower	2" plug 1 quart pot 1 gallon pot	\$0.90 \$3.00 \$7.00	irregular to permanent inundation	< 0.5
Hibiscus moscheutos marsh hibiscus	2" plug 1 quart pot 1 gallon pot	\$0.95 \$3.25 \$7.00	near MHW or regular inundation 0 - 3"	0 - 15

Wetland Indicator Status	Light	Height Range	Rate of Spread	Comments
OBL		2 - 4'	medium	very high wildlife food value
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
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
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
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
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






HERBACEOUS PLANTS

Genus/species Common Name	Available Forms	Price	Water Tolerance	Salinity Tolerance (ppt)
<i>Iris versicolor</i> blue flag iris	2" plug 1 quart pot 1 gallon pot	\$0.95 \$3.25 \$7.00	regular inundation 0 - 6"	< 0.5
<i>Juncus effusus</i> soft rush	2" plug 1 quart pot 1 gallon pot	\$0.95 \$3.25 \$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>Liatris 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 \$3.25 \$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 \$3.25 \$7.00	irregular inundation	< 0.5
<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 didyma</i> scarlet beebalm	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>Monarda punctata</i> spotted beebalm	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

Wetland Indicator Status	Light	Height Range	Rate of Spread	Comments
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
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
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
FAC		2' - 3'	slow	red flowers May-October; fragrant, attracts pollinators and hummingbirds
FACU		1' - 3'	slow	pale flowers with showy bracts April-August; fragrant foliage; attracts pollinators
FACW		up to 3'	medium	grows well in average garden soil that does not dry out (pH preference 4.5-7.5)












HERBACEOUS PLANTS

Genus/species Common Name	Available Forms	Price	Water Tolerance	Salinity Tolerance (ppt)
<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	\$0.95 \$3.25 \$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>Phlox divaricata</i> wild blue phlox	2" plug 1 quart pot 1 gallon pot	\$0.90 \$3.00 \$7.00	irregular inundation and upland	< 0.5
<i>Phlox maculata</i> meadow phlox	2" plug 1 quart pot 1 gallon pot	\$0.90 \$3.00 \$7.00	seasonal to irregular inundation	< 0.5
<i>Phlox subulata</i> moss phlox	2" plug 1 quart pot 1 gallon pot	\$0.90 \$3.00 \$7.00	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>Polemonium reptans</i> Jacob's ladder	2" plug 1 quart pot 1 gallon pot	\$0.90 \$3.00 \$7.00	upland	< 0.5
<i>Pontederia cordata</i> pickerweed	2" plug 1 quart pot 1 gallon pot	\$0.95 \$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

Wetland Indicator Status	Light	Height Range	Rate of Spread	Comments
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
FACU		1.5'	rapid	blue-lavender flowers April-June; aromatic; attracts butterflies; evergreen; tolerates deer, drought, clay & dry soils
FAC		1 - 3'	medium	rose flowers May-September; attracts butterflies and pollinators; aromatic
UPL		0.5'	slow	rose flowers April-June; attracts butterflies; evergreen ground cover
FACW		3 - 6'	rapid	pink-purple flowers June-September; attracts pollinators
FAC		0.5 - 1.5'	slow	blue flowers April-August; ground cover; tolerates deer & drought
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










HERBACEOUS PLANTS

Genus/species Common Name	Available Forms	Price	Water Tolerance	Salinity Tolerance (ppt)
<i>Pycnanthemum virginianum</i> Virginia mountain mint	2" plug 1 quart pot 1 gallon pot	\$0.90 \$3.00 \$7.00	seasonal to irregular inundation	< 0.5
<i>Rhexia mariana</i> Maryland meadow beauty	2" plug 1 quart pot 1 gallon pot	\$0.90 \$3.00 \$7.00	seasonal to irregular inundation	< 0.5
<i>Rudbeckia fulgida</i> black-eyed susan	2" plug 1 quart pot 1 gallon pot	\$0.95 \$3.25 \$7.00	irregular inundation and upland	< 0.5
<i>Sagittaria latifolia</i> duck potato	2" plug 1 quart pot 1 gallon pot	\$0.95 \$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	\$0.95 \$3.00 \$7.00	near midtide or permanent inundation 0 - 12"	< 0.5
<i>Schizachyrium scoparium</i> little bluestem	2" plug 1 quart pot 1 gallon pot	\$0.95 \$3.00 \$7.00	irregular to upland	< 0.5
<i>Scutellaria incana</i> hoary skullcap	2" plug 1 quart pot 1 gallon pot	\$0.90 \$3.00 \$7.00	upland	< 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	\$0.95 \$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	\$0.95 \$3.00 \$7.00	near midtide or permanent inundation 0 - 12"	0 - 5±
<i>Silene caroliniana</i> wild pink	2" plug 1 quart pot 1 gallon pot	\$0.90 \$3.00 \$7.00	upland	< 0.5
<i>Silene virginica</i> fire pink	2" plug 1 quart pot 1 gallon pot	\$0.90 \$3.00 \$7.00	upland	< 0.5

Wetland Indicator Status	Light	Height Range	Rate of Spread	Comments
FAC		2 - 4'	medium	white flowers July-September; silver-grey bracts that are long lasting - summer to fall, mint scented foliage
FACW		1 - 3'	medium	pale pink flowers with showy yellow anthers June-October; attracts pollinators; urn-shaped seed capsule
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
FACU		2 - 3'	slow	clumping grass with delicate texture; persistent; low maintenance
NI		1.5 - 3.5'	medium	blue-violet flowers spikes June-September; attracts pollinators and hummingbirds; deer and rabbit resistant; drought-tolerant once established
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
NI		0.5-1'	medium	pink flowers April-June; semi-evergreen ground cover; attracts pollinators
UPL		1 - 3'	medium	red flowers April-June; ground cover; attracts pollinators and hummingbirds











HERBACEOUS PLANTS

Genus/species Common Name	Available Forms	Price	Water Tolerance	Salinity Tolerance (ppt)
<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 unundation	0 - 10±
<i>Spartina alterniflora</i> smooth cordgrass	2" plug 1 quart pot 1 gallon pot	\$0.95 \$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	\$0.95 \$3.00 \$7.00	above MHW	0 - 35±
<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

Wetland Indicator Status	Light	Height Range	Rate of Spread	Comments
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
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
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

SHRUBS/TREES

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

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)
FACW		50 - 75'	35 - 50'	deciduous; attractive bark and yellow fall foliage; used in forested riparian buffers and erosion control (pH 4.0-6.5)
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







SHRUBS/TREES

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

Wetland Indicator Status	Light	Mature Height	Aerial Spread	Comments
FACU		15 -25'	15 - 20'	yellow flowers September-December; yellow fall foliage; used by song birds and mammals (pH 5.5-6.5)
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)
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)
<i>Prunus maritima</i> beach plum	1 Gal 2 Gal 3 Gal 5 Gal	\$7.00 \$9.00 \$12.00 \$15.00	upland	resistant
<i>Rosa palustris</i> swamp rose	1 Gal 2 Gal 3 Gal 5 Gal	\$7.00 \$9.00 \$12.00 \$15.00	regular inundation 0 - 3"	< 0.5
<i>Sambucus canadensis</i> elderberry	1 Gal 2 Gal 3 Gal 5 Gal	\$7.00 \$9.00 \$12.00 \$15.00	seasonal inundation	< 0.5
<i>Vaccinium corymbosum</i> highbush blueberry	1 Gal 2 Gal 3 Gal 5 Gal	\$7.00 \$9.00 \$12.00 \$15.00	seasonal inundation	resistant
<i>Viburnum dentatum</i> arrowwood	1 Gal 2 Gal 3 Gal 5 Gal	\$7.00 \$9.00 \$12.00 \$15.00	seasonal inundation	resistant
<i>Viburnum nudum</i> possum haw viburnum	1 Gal 2 Gal 3 Gal 5 Gal	\$7.00 \$9.00 \$12.00 \$15.00	seasonal or regular inundation	< 0.5

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; hoofed 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
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.

