

# 2026 Wholesale Nursery Catalog



***Juncus roemerianus***  
black needlerush



Environmental  
Concern

*Growing  
native plants  
since 1972*

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



## ENVIRONMENTAL CONCERN INC.

### Celebrating over 50 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 50 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 are excited to be  
growing at our new facility.  
4876 Old Trappe Road  
Trappe, Maryland***



### CONTACT INFORMATION

Environmental Concern Inc.  
8133 Elliott Road  
Suite 240  
Easton, MD 21601  
[www.wetland.org](http://www.wetland.org)  
410-745-9620

To Place an Order, contact  
Nursery Sales  
[nursery-sales@wetland.org](mailto:nursery-sales@wetland.org)

For pick-ups:  
4876 Old Trappe Road  
Trappe, MD 21673



**Maryland Native Plant Society**



**MARYLAND**  
NURSERY, LANDSCAPE  
AND GREENHOUSE  
ASSOCIATION, INC.



**CHESAPEAKE BAY**  
Landscape Professional



# 2025 WHOLESALE NURSERY CATALOG

## TERMS

EC's nursery sells wholesale to businesses, organizations and agencies related to the agriculture industry and to schools and special groups for green projects. We ask that our customers provide the appropriate business registration verification when placing orders. Orders should be placed in advance by email or phone. The nursery is not able to accommodate walk-in customers.

## PAYMENTS

- A \$100 minimum is required for the first order.
- A 25% nonrefundable deposit is required on orders of \$100 or more to reserve your plants. Prices are guaranteed on quotes for 30 days, but a quote does not guarantee availability of plant material. An invoice will be emailed to you when your order is placed. You must provide an accurate email address upon ordering. Your order is only confirmed when we receive your 25% nonrefundable deposit or full payment of your invoice, unless other arrangements have been made.
- **All invoices must be paid in full prior to time of UPS shipping, EC delivery and prior to or at the time of pick up.**
- Payment may be made by check, cash, Visa, MasterCard, Discover or American Express.
- Prices are subject to change without notice.

## 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 provide the species, size, quantity, destination, and date required in your email or when you call.



## PLANT ORDERS & SHIPPING

### 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 \$9.00 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 uses quality packing materials and has years of experience packing plants. Some plants are not available to ship due to size or other factors. We reserve the right to prune or cut back some species at certain times of the year to ensure safe packaging. When ordering plugs, a minimum of 50 (one tray) is required to request shipment by UPS.

#### EC's Vehicle delivery:

Delivery charges are based on the size of the order and the roundtrip mileage. 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 notify EC at least 24 hours prior to pick up date if you will not be able to arrive as scheduled.(see "RESTOCKING/HOLDING FEE" below for additional information).

### RESTOCKING/HOLDING FEE

After your order is placed and paid for, the plants are taken out of EC's inventory. There will be a fee charged if orders are held beyond their original pick-up, delivery, or shipping date. In addition, an order scheduled for pick-up, delivery or shipping over 20 days from the date the order is confirmed is subject to a holding fee to be determined at the time of purchase. The fees cover the cost of maintaining your plants.

**The following fees will be applied to the total order if: refused at delivery; canceled or rescheduled or left waiting for pick-up.**

| # of Days Past<br>Original<br>Order Date | Restocking/<br>Holding Fee | Note                                                                                                                                                                                               |
|------------------------------------------|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1-20                                     | 15%                        | with less than 24 hours notice prior to a scheduled pick-up day, shipment or delivery*                                                                                                             |
| 21-39                                    | 20%                        | even if notice is given by customer                                                                                                                                                                |
| 40+                                      | 40%                        | even if notice is given by customer; the order may be cancelled at the discretion of EC and all payments made will be forfeited unless an alternate, mutually agreed upon arrangement is approved. |

*\*Additional notice is required if delivery requires overnight lodging by the driver.*

## GENERAL PLANT INFORMATION

### 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.

### 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 annual 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 start from seed in plug trays. Seeds are cleaned and processed under proprietary protocols 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 sufficient notice. Additional fees may apply. For more information on contract growing please contact Nursery Sales.

### 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 nursery sales for details.

### 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 specific origin.



## GUIDE KEY

### WETLAND INDICATOR STATUS

For this catalog, we reference the Atlantic and Gulf Coastal Plain 2022 Final Regional Wetland Plant List from The National Wetland Plant List (Lichvar 2018).

- **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 always occur in non-wetlands
- **Not Listed (NL)**

### WATER TOLERANCE

Water tolerance refers to 'Mean High Water' (MHW) and 'Mean Low Water' (MLW), for tidal areas. 'Mittide' 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.

## HERBACEOUS PLANTS

| Genus/Species<br>Common Name                               | Available<br>Sizes                     | Water<br>Tolerance                        | Salinity<br>Tolerance<br>(ppt) |
|------------------------------------------------------------|----------------------------------------|-------------------------------------------|--------------------------------|
| <b><i>Acorus americanus</i></b><br>sweet flag              | 2" plug                                | near MHW or<br>regular<br>inundation 0-6" | 0 - 10                         |
| <b><i>Agastache foeniculum</i></b><br>anise hyssop         | 2" plug<br>1 quart pot                 | irregular<br>inundation and<br>upland     | < 0.5                          |
| <b><i>Andropogon virginicus</i></b><br>broomsedge          | 2" plug<br>1 quart pot                 | irregular<br>inundation and<br>upland     | < 0.5                          |
| <b><i>Aquilegia canadensis</i></b><br>red columbine        | 1 quart pot                            | irregular<br>inundation and<br>upland     | < 0.5                          |
| <b><i>Asclepias incarnata</i></b><br>swamp milkweed        | 2" plug<br>1 quart pot<br>1 gallon pot | seasonal<br>inundation                    | 0 - 5                          |
| <b><i>Asclepias tuberosa</i></b><br>butterfly milkweed     | 2" plug<br>1 quart pot<br>1 gallon pot | irregular<br>inundation and<br>upland     | < 0.5                          |
| <b><i>Baptisia australis</i></b><br>blue false indigo      | 1 quart pot<br>1 gallon pot            | irregular<br>inundation and<br>upland     | < 0.5                          |
| <b><i>Baptisia tinctoria</i></b><br>yellow wild indigo     | 1 quart pot                            | irregular<br>inundation and<br>upland     | < 0.5                          |
| <b><i>Carex crinita</i></b><br>fringed sedge               | 2" plug                                | irregular<br>inundation                   | < 0.5                          |
| <b><i>Carex pensylvanica</i></b><br>Pennsylvania sedge     | 1 quart pot                            | upland                                    | < 0.5                          |
| <b><i>Carex stricta</i></b><br>tussock sedge               | 2" plug<br>1 quart pot                 | regular<br>inundation<br>0-6"             | < 0.5                          |
| <b><i>Chasmanthium latifolium</i></b><br>northern sea oats | 2" plug<br>1 quart pot<br>1 gallon pot | seasonal<br>inundation and<br>upland      | < 0.5                          |

| Wetland Indicator Status | Light | Height Range | Rate of Spread | Comments                                                                                                                      |
|--------------------------|-------|--------------|----------------|-------------------------------------------------------------------------------------------------------------------------------|
| OBL                      | ☉     | 2 - 3'       | medium         | spicy scented leaves; inconspicuous green spathe Apr-May; forms clumps; acidic conditions; leaves similar to iris             |
| NL                       | ☉     | 2 - 4'       | medium         | spikes of blue/purple flowers June-Sept; licorice-scented foliage; requires good drainage and tolerates drought               |
| FAC                      | ◯     | 1 - 3'       | slow           | grows in clumps; persistent in winter; provides seed for upland game                                                          |
| FACU                     | ☉     | 1 - 3'       | medium         | delicate, drooping red flowers Apr-July; best in moist, well-drained soils with some shade; attracts pollinators (pH 6.8-7.2) |
| OBL                      | ☉     | 4 - 6'       | slow           | pale pink flowers in umbels June-Aug; nectar source for butterflies and beneficial insects                                    |
| NL                       | ☉     | 1 - 3'       | slow           | orange blooms May-July; attracts butterflies and beneficial insects                                                           |
| FACU                     | ◯     | 3 - 4'       | medium         | blue-purple flowers Apr-July; nitrogen fixer; shrub like form; tolerates poor soils; attracts pollinators                     |
| NL                       | ☉     | 1 - 3'       | slow           | yellow flowers May-Sept; nitrogen fixer; tolerates poor soils; attracts pollinators                                           |
| FACW                     | ☉     | 1 - 3'       | medium         | forms clumps of grass-like densely tufted culms; good for shady wetlands; drooping seed heads                                 |
| NL                       | ☐     | 0.5 - 1.5'   | medium         | forms tufts of fine textured leaves; good ground cover; attracts song birds and waterfowl; deer resistant                     |
| OBL                      | ◯     | 2 - 4'       | medium         | grows in clumps; tolerates flooding to 6"; very high wildlife food value (pH 3.5-7)                                           |
| FAC                      | ☉     | 1.5 - 5'     | medium         | attractive seed heads eaten by birds and small mammals; butterfly host plant; provides good texture                           |



# HERBACEOUS PLANTS

| Genus/Species<br>Common Name                              | Available<br>Sizes                     | Water Tolerance                         | Salinity<br>Tolerance<br>(ppt) |
|-----------------------------------------------------------|----------------------------------------|-----------------------------------------|--------------------------------|
| <i>Chelone glabra</i><br>white turtlehead                 | 2" plug<br>1 quart pot                 | irregular to<br>permanent<br>inundation | < 0.5                          |
| <i>Conoclinium coelestinum</i><br>purple mistflower       | 2" plug<br>1 quart pot<br>1 gallon pot | seasonal<br>inundation and<br>upland    | < 0.5                          |
| <i>Distichlis spicata</i><br>spike grass                  | 2" plug                                | above MHW                               | 0 - 50                         |
| <i>Echinacea purpurea</i>                                 | 2" plug<br>1 quart pot<br>1 gallon pot | upland                                  | < 0.5                          |
| <i>Eupatorium perfoliatum</i><br>boneset                  | 2" plug<br>1 quart pot                 | irregular inundation                    | < 0.5                          |
| <i>Eutrochium dubium</i><br>coastal joe-pye weed          | 2" plug<br>1 gallon pot<br>1 quart pot | seasonal<br>inundation and<br>upland    |                                |
| <i>Eutrochium purpureum</i><br>sweet-scented joe-pye weed | 2" plug<br>1 quart pot                 | irregular inundation<br>and upland      |                                |
| <i>Geranium maculatum</i><br>wild geranium                | 1 quart pot                            | upland                                  | < 0.5                          |
|                                                           |                                        |                                         | < 0.5                          |
|                                                           |                                        |                                         | < 0.5                          |
|                                                           |                                        |                                         |                                |
|                                                           |                                        |                                         |                                |

| Wetland Indicator Status | Light | Height Range | Rate of Spread | Comments                                                                                                                     |
|--------------------------|-------|--------------|----------------|------------------------------------------------------------------------------------------------------------------------------|
| OBL                      | ○●    | 1.5 - 4'     | medium         | blooms white tinged with pale pink resembling turtles; butterfly host plant; enjoyed by hummingbirds                         |
| FAC                      | ●●    | 1 - 3'       | medium         | blue to purple fine-textured blooms July-Oct; can form dense stands; attracts beneficial insects (pH 5.5-7.5)                |
| OBL                      | ○     | 8 - 16"      | rapid          | flowers Aug-Oct; often intermixed with <i>Spartina patens</i> and found in high salinity depressions                         |
| NL                       | ○●    | 2 - 5'       | medium         | purplish-pink flowers June-Aug; seed heads attract birds and butterflies; prefers full sun and well drained soils            |
| FACW                     | ○●●   | 2 - 5'       | slow           | small, white flowers July-Oct; large clump forming plant; leaves prone to scorching if plants dry out; attracts pollinators  |
| FACW                     | ○●    | 2 - 5'       | slow           | small purple flowers in clusters July-Sept; nectar source for butterflies and beneficial insects                             |
| FAC                      | ○●    | 2 - 6.5'     | slow           | pale pinkish-purple flowers July-Oct; fragrant foliage; attracts songbirds and a variety of pollinators                      |
| FACU                     | ○●    | 1.5 - 2'     | slow           | pink/lavender flowers Apr-July; attracts bees and other beneficial insects; may become dormant in hot weather                |
| FACW                     | ○●    | 1.5 - 6'     | medium         | vibrant yellow blooms July-Nov; attracts butterflies; best in moist to wet soils; good rain garden plant                     |
| FACW                     | ○     | 1.5 - 5.5'   | medium         | showy yellow flowers late summer into fall; good for rain gardens, nectar attracts butterflies and songbirds                 |
| OBL                      | ○●    | 4 - 7'       | slow           | white/pink/red flowers in late summer; seed capsules through winter; nectar source for ruby-throated hummingbirds            |
| OBL                      | ○●    | 1 - 3'       | slow           | showy flowers late spring; forms clumps; deer resistant; tolerant of wet clay soils; flowers best in full sun to light shade |

## HERBACEOUS PLANTS

| Genus/Species<br>Common Name                            | Available<br>Sizes                     | Water Tolerance                             | Salinity<br>Tolerance<br>(ppt) |
|---------------------------------------------------------|----------------------------------------|---------------------------------------------|--------------------------------|
| <b><i>Juncus effusus</i></b><br>soft rush               | 2" plug<br>1 quart pot                 | MHW and above<br>or irregular<br>inundation | < 0.5                          |
| <b><i>Juncus roemerianus</i></b><br>black needlerush    | 2" plug                                | near MHW                                    | 0 - 35                         |
| <b><i>Kosteletzkya virginica</i></b><br>seashore mallow | 2" plug<br>1 quart pot<br>1 gallon pot | above MHW or<br>irregular<br>inundation     | 0 - 10                         |
| <b><i>Liatris spicata</i></b><br>blazing star           | 2" plug<br>1 quart pot                 | seasonal<br>inundation and<br>upland        | < 0.5                          |
| <b><i>Lobelia cardinalis</i></b><br>cardinal flower     | 2" plug<br>1 quart pot                 | near MHW and<br>upland                      | < 0.5                          |
| <b><i>Lobelia siphilitica</i></b><br>great blue lobelia | 2" plug<br>1 quart pot                 | irregular<br>inundation                     | < 0.5                          |
| <b><i>Monarda fistulosa</i></b><br>wild bergamot        | 2" plug<br>1 quart pot                 | seasonal<br>to regular<br>inundation        | < 0.5                          |
| <b><i>Muhlenbergia capillaris</i></b><br>pink muhly     | 1 quart pot<br>1 gallon pot            | irregular<br>inundation                     | 0 - 5                          |
| <b><i>Osmunda regalis</i></b><br>royal fern             | 1 gallon pot                           | irregular to<br>permanent<br>inundation     | < 0.5                          |
| <b><i>Panicum amarum</i></b><br>coastal panic grass     | 2" plug<br>1 quart pot                 | irregular<br>inundation and<br>upland       | resistant                      |
| <b><i>Panicum virgatum</i></b><br>switchgrass           | 2" plug<br>1 quart pot                 | MHW to upland                               | 0 - 10                         |

| Wetland Indicator Status | Light | Height Range | Rate of Spread | Comments                                                                                                                                             |
|--------------------------|-------|--------------|----------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| OBL                      | ◐◑    | 3 - 4'       | slow           | clumping habit; often grows in tussocks or hummocks; food source for muskrats; dark green foliage; shelter for birds                                 |
| OBL                      | ○     | 1 - 4'       | medium         | flowers May-Oct; good marsh stabilizer; provides cover and nesting sites for marsh animals                                                           |
| NL                       | ○     | 2 - 4'       | slow           | showy pink flowers July-Sept on tall plants; gray-green leaves; adaptable to heavy wet soils; attracts hummingbirds                                  |
| FAC                      | ◐◑    | 1 - 6.5'     | slow           | bright purple spiked blooms July-Aug; clump forming grass-like leaves; attracts songbirds and a variety of pollinators                               |
| FACW                     | ◐◑    | up to 5'     | slow           | attractive scarlet flowers in spikes; blooms July-Oct; needs consistently moist or wet soils; nectar supply for hummingbirds                         |
| OBL                      | ◐◑    | up to 3'     | slow           | bright blue flowers on 2-3' spikes Aug-Oct; blooms in shade; needs abundant soil moisture; deer tolerant; attracts pollinators                       |
| FACU                     | ◐◑    | 1.5 - 5'     | slow           | fragrant pinkish-purple flowers June-Sept; gray-green foliage; best in dry, well-drained soils; attracts hummingbirds and butterflies; deer tolerant |
| FAC                      | ◐◑    | 3 - 4'       | medium         | dark green leaves; pink-purple flower spikes; heat, drought, poor soil tolerant; attracts beneficial insects                                         |
| OBL                      | ◐◑    | up to 6'     | slow           | forms clumps; best in medium to wet soils; food source for upland game birds and mammals                                                             |
| FAC                      | ○     | 1.5 - 6'     | rapid          | deep-rooted clumping 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-Sept                                     |

## HERBACEOUS PLANTS

| Genus/Species<br>Common Name                                         | Available<br>Sizes                     | Water<br>Tolerance                    | Salinity<br>Tolerance<br>(ppt) |
|----------------------------------------------------------------------|----------------------------------------|---------------------------------------|--------------------------------|
| <b><i>Peltandra virginica</i></b><br>arrow arum                      | 2" plug<br>1 quart pot                 | permanent 1-18"<br>inundation         | 0 - 1                          |
| <b><i>Penstemon digitalis</i></b><br>beardtongue                     | 2" plug<br>1 quart pot<br>1 gallon pot | seasonal<br>inundation to<br>upland   | < 0.5                          |
| <b><i>Phlox divaricata</i></b><br>wild blue phlox                    | 1 quart pot                            | upland                                | < 0.5                          |
| <b><i>Pontederia cordata</i></b><br>pickerelweed                     | 2" plug<br>1 quart pot                 | permanent 1-12"<br>inundation         | < 0.5                          |
| <b><i>Pycnanthemum muticum</i></b><br>mountain mint                  | 2" plug<br>1 quart pot                 | seasonal<br>inundation to<br>upland   | < 0.5                          |
| <b><i>Pycnanthemum virginianum</i></b><br>Virginia mountain mint     | 2" plug<br>1 quart pot                 | seasonal<br>inundation to<br>upland   | < 0.5                          |
| <b><i>Rudbeckia fulgida</i></b><br>orange coneflower                 | 2" plug<br>1 quart pot<br>1 gallon pot | irregular<br>inundation<br>and upland | < 0.5                          |
| <b><i>Sagittaria latifolia</i></b><br>duck potato                    | 2" plug                                | permanent<br>inundation<br>0-18"      | < 0.5                          |
| <b><i>Saururus cernuus</i></b><br>lizard's tail                      | 2" plug<br>1 quart pot                 | permanent<br>inundation<br>0-12"      | < 0.5                          |
| <b><i>Schizachyrium scoparium</i></b><br>little bluestem             | 2" plug<br>1 quart pot                 | MHW to upland                         | < 0.5                          |
| <b><i>Schoenoplectus pungens</i></b><br>three-square bulrush         | 2" plug<br>1 quart pot                 | permanent<br>inundation<br>0-12"      | 0 - 15                         |
| <b><i>Schoenoplectus robustus</i></b><br>sturdy or saltmarsh bulrush | 2" plug<br>1 quart pot                 | near MHW                              | 0 - 30                         |

| Wetland Indicator Status | Light | Height Range | Rate of Spread | Comments                                                                                                                                    |
|--------------------------|-------|--------------|----------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| OBL                      | ☉     | 2 - 3'       | slow           | attractive, statuesque accent; inconspicuous green flower in late spring; seed preferred by wood ducks                                      |
| FAC                      | ☉     | 2 - 4'       | medium         | white to pinkish flowers spring to early summer; leaves redish to purple in cooler temps; ornamental value in meadows; attracts pollinators |
| FACU                     | ☉     | 1.5'         | rapid          | blue/lavender flowers April-June; aromatic; attracts butterflies; evergreen; tolerates deer, drought, clay and dry soils                    |
| OBL                      | ☉     | 1 - 3.5'     | medium         | heart-shaped leaves; showy blue flowers in spikes June-Nov; of some interest to black and wood ducks                                        |
| FAC                      | ☉     | 1 - 3'       | rapid          | pink flowers with silvery-leaf like bracts July-Sept; aromatic foliage; beneficial for pollinators; tolerates clay soils                    |
| FAC                      | ☉     | 2 - 4'       | rapid          | clusters of tiny white flowers July-Sept; blooms best in well-drained soil in full sun; aromatic foliage; beneficial to pollinators         |
| FAC                      | ☉     | 1.5 - 3.5'   | medium         | yellow-orange blooms (dark brown center) July-Oct; attracts songbirds and a variety of pollinators                                          |
| OBL                      | ☉     | up to 4'     | rapid          | arrow shaped leaves; white flowers on stalk July-Sept; underground tuber preferred by at least 15 species of ducks                          |
| OBL                      | ☉     | up to 4'     | rapid          | attractive, nodding white flowers in spikes June-Sept; valued by wood ducks; colonizes large areas; drought resistant                       |
| FACU                     | ○     | 2 - 3'       | slow           | clumping grass with delicate texture; bronze/tan fall color; low maintenance; tolerates high heat; beneficial to wildlife                   |
| OBL                      | ○     | up to 4'     | rapid          | erect, triangular stems; heavy predation by muskrat, nutria, geese; birds eat seeds; flowers June-Sept                                      |
| OBL                      | ○     | up to 4'     | rapid          | triangular stems; moderate wildlife value; does well in fluctuating salinity; flowers July-Oct                                              |



## HERBACEOUS PLANTS

| Genus/Species<br>Common Name                                                          | Available<br>Sizes                     | Water<br>Tolerance                    | Salinity<br>Tolerance<br>(ppt) |
|---------------------------------------------------------------------------------------|----------------------------------------|---------------------------------------|--------------------------------|
| <i>Schoenoplectus tabernaemontani</i><br>softstem bulrush                             | 2" plug<br>1 quart pot                 | permanent<br>inundation<br>0-12"      | 0 - 5                          |
| <i>Scutellaria incana</i><br>hoary skullcap                                           | 1 quart pot                            | upland                                | < 0.5                          |
| <i>Spartina alterniflora</i> /<br><i>Sporobolus alterniflorus</i><br>smooth cordgrass | 2" plug<br>1 quart pot                 | mid-tide to<br>MHW                    | 0 - 35                         |
| <i>Spartina patens</i> /<br><i>Sporobolus pumilus</i><br>salt meadow hay              | 2" plug<br>1 quart pot                 | above MHW                             | 0 - 35                         |
| <i>Symphotrichum novae-angliae</i><br>New England aster                               | 2" plug<br>1 quart pot<br>1 gallon pot | irregular<br>inundation and<br>upland | 0 - 5                          |
| <i>Symphotrichum novi-belgii</i><br>New York aster                                    | 2" plug<br>1 quart pot<br>1 gallon pot | irregular<br>inundation and<br>upland | < 0.5                          |
| <i>Trillium grandiflorum</i><br>great white trillium                                  | 1 quart pot                            | upland                                | < 0.5                          |
| <i>Vernonia noveboracensis</i><br>New York Ironweed                                   | 2" plug<br>1 quart pot                 | seasonal<br>inundation                | < 0.5                          |
| <i>Zizia aptera</i><br>meadow zizia                                                   | 1 quart pot                            | upland                                | < 0.5                          |
| <i>Zizia aurea</i><br>golden Alexander                                                | 1 quart pot                            | upland                                | < 0.5                          |

| Wetland Indicator Status | Light | Height Range | Rate of Spread | Comments                                                                                                                                                       |
|--------------------------|-------|--------------|----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| OBL                      | ○     | 6 - 10'      | rapid          | tube-like stems; drooping seed clusters at top; good vertical accent; moderate wildlife value; flowers June-Sept                                               |
| NL                       | ○○●●  | 1.5 - 3.5'   | medium         | blue-violet flower spikes June-Sept; attracts hummingbirds and other pollinators; deer and rabbit resistant; drought-tolerant once established                 |
| OBL                      | ○     | 4 - 7'       | rapid          | tidal salt marsh grass; useful in shore erosion control and stabilization; rhizomes eaten by muskrat and geese                                                 |
| FACW                     | ○     | 1 - 3'       | medium         | saltwater and brackish grass; grows in high marsh not regularly flooded; shore erosion control; tolerates drought once established; nesting sites for wildlife |
| FACW                     | ○○●   | 3 - 6'       | slow           | light pink-purple flowers July-Oct or until frost; hairy leaves; nectar source for monarch and other butterflies (pH < 6.8)                                    |
| OBL                      | ○○●   | 3 - 6'       | slow           | deep pink-purple flowers in large flower heads July-Oct; smooth gray-green leaves; grows in part sun and sandy or clay soils; nectar source for butterflies    |
| NL                       | ●     | 0.5 - 1.5'   | medium         | waxy white flowers face to pink Apr-June; woodland wildflower that grows in moist but well-drained soils high in organic matter; dormant in summer             |
| FACW                     | ○○●   | 3 - 7'       | slow           | vivid purple flowers in heads Aug-Sept; tall narrow plant; flowers attract butterflies; seed heads attract birds                                               |
| FAC                      | ○○●●  | 1 - 3'       | medium         | yellow umbel flowers May-June; basal or stem leaves are compound biternate with toothed leaves; attracts pollinators                                           |
| FACU                     | ○○●●  | 1 - 3'       | medium         | yellow umbel flowers May-June; attracts pollinators, host for Black Swallowtail butterfly                                                                      |

## SHRUBS/TREES

| Genus/Species<br>Common Name                          | Available<br>Sizes               | Water<br>Tolerance                                   | Salinity<br>Tolerance<br>(ppt) |
|-------------------------------------------------------|----------------------------------|------------------------------------------------------|--------------------------------|
| <b><i>Aronia melanocarpa</i></b><br>black chokeberry  | 1 gallon<br>2 gallon<br>3 gallon | irregular to<br>seasonal<br>inundation               | resistant                      |
| <b><i>Baccharis halimifolia</i></b><br>groundsel tree | 1 gallon<br>2 gallon<br>3 gallon | above MHW or<br>seasonal<br>inundation               | 0 - 15                         |
| <b><i>Callicarpa americana</i></b><br>beautyberry     | 1 gallon<br>2 gallon<br>3 gallon | irregular<br>inundation                              | < 0.5                          |
| <b><i>Cephalanthus occidentalis</i></b><br>buttonbush | 1 gallon<br>2 gallon<br>3 gallon | MHW and<br>above or<br>permanent<br>inundation 0-12" | resistant                      |
| <b><i>Clethra alniflora</i></b><br>sweet pepperbush   | 1 gallon<br>2 gallon<br>3 gallon | seasonal to<br>irregular<br>inundation               |                                |
| <b><i>Cornus amomum</i></b><br>silky dogwood          | 1 gallon<br>2 gallon<br>3 gallon | seasonal<br>inundation                               | < 0.5                          |
| <b><i>Cornus racemosa</i></b><br>gray twig dogwood    | 1 gallon<br>2 gallon<br>3 gallon | seasonal<br>inundation                               | < 0.5                          |
| <b><i>Ilex glabra</i></b><br>inkberry                 | 1 gallon<br>2 gallon<br>3 gallon | seasonal<br>inundation                               | < 0.5                          |
| <b><i>Itea virginica</i></b><br>Virginia sweetspire   | 1 gallon<br>2 gallon<br>3 gallon | regular to<br>seasonal<br>inundation                 | < 0.5                          |

| Wetland Indicator Status | Light | Height  | Spread   | Comments                                                                                                                                                                             |
|--------------------------|-------|---------|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| FAC                      | ○●    | 3 - 6'  | 3 - 6'   | white flowers in May; black fruit Sept-Nov; eaten by songbirds; edible to humans; tolerates acidic soils (pH 5.1-6.5)                                                                |
| FAC                      | ○     | 6 - 12' | 6 - 12'  | gray-green foliage; clusters of white flowers Aug-Sept; good for stabilization of poor soils; wildlife cover; tolerates alkaline soils (pH 7.0-8.5)                                  |
| FACU                     | ○●    | 3 - 6"  | 3 - 6'   | fast growing understory shrub; lavender to purple showy berries in clusters on stems in fall; yellow fall foliage (pH 4.8-8.7)                                                       |
| OBL                      | ○●●   | 6 - 12' | 12 - 15' | numerous tubular flowers in ball-shaped heads May-Aug; few flowers in full shade; attracts hummingbirds, butterflies and beneficial insects; best in moist to wet sites (pH 6.1-8.5) |
| FACW                     | ●●    | 6 - 12' | 3 - 6'   | woody perennial with white flowers in spikes during late summer. Attracts butterflies and beneficial insects (pH 4.5-6.5)                                                            |
| FAC                      | ○●●   | 6 - 12' | 6 - 12'  | white flowers May-June; white berries Aug-Sept, very high food value to songbirds, waterfowl, mammals                                                                                |
| FACW                     | ○●    | 6 - 12' | 6 - 12'  | yellowish white flowers May-June; white berries that turn blue in August; very high food value to many songbirds, tolerates shade; may form thickets                                 |
| FACW                     | ○●    | 6 - 12' | 6 - 12'  | evergreen; small, shiny leaves with black berries (on female plants); provides emergency winter food and cover for birds (pH4.5-6.0)                                                 |
| FACW                     | ○●●   | 6 - 12' | 6 - 12'  | dense, upright, terminal, tassel-like, white spikes June-July; swamps wet coastal areas; reliable red fall color (pH 5.0-7.0)                                                        |

## SHRUBS/TREES

| Genus/Species<br>Common Name                             | Available<br>Sizes               | Water Tolerance                         | Salinity<br>Tolerance<br>(ppt) |
|----------------------------------------------------------|----------------------------------|-----------------------------------------|--------------------------------|
| <b><i>Iva frutescens</i></b><br>high tide bush           | 1 gallon<br>2 gallon<br>3 gallon | above MHW to<br>upland                  | 0 - 15                         |
| <b><i>Lindera benzoin</i></b><br>spicebush               | 1 gallon<br>2 gallon<br>3 gallon | seasonal<br>inundation                  | resistant                      |
| <b><i>Morella cerifera</i></b><br>wax myrtle             | 1 gallon<br>2 gallon<br>3 gallon | above MHW or<br>irregular<br>inundation | 0 - 10                         |
| <b><i>Morella pensylvanica</i></b><br>northern bayberry  | 1 gallon<br>2 gallon<br>3 gallon | above MHW or<br>irregular<br>inundation | 0 - 20                         |
| <b><i>Prunus maritima</i></b><br>beach plum              | 1 gallon<br>2 gallon<br>3 gallon | upland                                  | resistant                      |
| <b><i>Sambucus canadensis</i></b><br>elderberry          | 1 gallon<br>2 gallon<br>3 gallon | seasonal<br>inundation                  | < 0.5                          |
| <b><i>Vaccinium corymbosum</i></b><br>highbush blueberry | 1 gallon<br>2 gallon<br>3 gallon | seasonal<br>inundation                  | resistant                      |
| <b><i>Viburnum dentatum</i></b><br>arrowwood             | 1 gallon<br>2 gallon<br>3 gallon | seasonal<br>inundation                  | resistant                      |
| <b><i>Viburnum lentago</i></b><br>nannyberry             | 1 gallon<br>2 gallon<br>3 gallon | seasonal<br>inundation                  | < 0.5                          |

| Wetland Indicator Status | Light | Height   | Spread  | Comments                                                                                                                                                                 |
|--------------------------|-------|----------|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| FACW                     | ○     | 2 - 10'  | 6 - 12' | flowers Aug-Sept; attracts birds; similar to <i>Baccharis halimifolia</i> but with opposite leaves (pH 5-5.7)                                                            |
| FACW                     | ●●    | 6 - 12'  | 6 - 12' | fragrant foliage; scarlet berries in Sept; very high food value for birds; deer browse twigs and foliage; tolerates acidic soils                                         |
| FAC                      | ○●    | 6 - 15'  | 6 - 15' | evergreen/semi-evergreen; nitrogen fixer; fragrant leaves and berries; small waxy bluish berries Sept-April; at least one male plant needed for pollination (pH 6.8-7.2) |
| FAC                      | ○●    | 6 - 15'  | 6 - 15' | semi-evergreen; fragrant, white 2-3" flowers May-June; scarlet seeds in slits of erect follicles; flowers best full shade to partial sun; tolerates wet, boggy sites     |
| NL                       | ○●    | 1 - 8'   | 3 - 6'  | white flowers Apr-May; blue-purple edible fruit Aug-Oct; prefers well drained sandy soils, useful for dune restoration and stabilization (pH 5.8-7.7)                    |
| FACW                     | ○●●   | 6 - 12'  | 6 - 12' | sends out suckers; small, white flowers in large flat-topped clusters; purple berries Aug-Sept; relished by birds                                                        |
| FACW                     | ○●●   | 12'      | 4 - 6'  | white, urn-shaped flowers Apr-July; berries are a valuable food source for many species of wildlife; demands acidic soils                                                |
| FAC                      | ○●    | 10 - 15' | 6 - 12' | white flowers May-June; coarsely toothed leaf margins; blue fruit Sept-Nov; valuable to birds and small mammals (pH 5.1-6.5)                                             |
| FAC                      | ○●    | 14 - 16' | 6 - 12' | white flowers in May; blue/black berries Sept-Dec; tolerant of drier soils and air pollution; attracts birds, butterflies and beneficial bugs                            |

SHRUBS/TREES

| Genus/Species<br>Common Name                      | Available<br>Sizes               | Water Tolerance                      | Salinity<br>Tolerance<br>(ppt) |
|---------------------------------------------------|----------------------------------|--------------------------------------|--------------------------------|
| <i>Viburnum nudum</i><br>possum-haw viburnum      | 1 gallon<br>2 gallon<br>3 gallon | seasonal or<br>regular<br>inundation | < 0.5                          |
| <i>Viburnum prunifolium</i><br>black haw viburnum | 1 gallon<br>2 gallon<br>3 gallon | irregular<br>inundation              | < 0.5                          |

Shrub and Tree Species Selection Guide

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

Ornamental

Highly Ornamental-can  
be styled to fit in traditional  
American Gardens

*Cephalanthus occidentalis*  
*Clethra alnifolia*  
*Ilex glabra*  
*Itea virginica*  
*Morella cerifera*  
*Viburnum dentatum*



Naturalistic Garden  
Appropriate

*Aronia melanocarpa*  
*Baccharis halimifolia*  
*Cephalanthus occidentalis*  
*Clethra alnifolia*  
*Cornus amomum*  
*Cornus racemosa*  
*Ilex glabra*  
*Itea virginica*  
*Lindera benzoin*  
*Morella cerifera*  
*Morella pensylvanica*  
*Sambucus canadensis*  
*Vaccinium corymbosum*  
*Viburnum dentatum*  
*Viburnum lentago*  
*Viburnum nudum*  
*Viburnum prunifolium*



| Wetland Indicator Status | Light | Height   | Spread   | Comments                                                                                                                                                        |
|--------------------------|-------|----------|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| FACW                     | ○ ●●  | 6 - 20'  | 12 - 15' | small, broad, flat-topped clusters of white flowers in June-July; football shaped berries turning pink then blue; moist soils, thickets and swamps (pH 5.1-6.0) |
| FACU                     | ○ ●●  | 12 - 24' | 6 - 15'  | large shrub/small tree; white flower clusters in spring; yellow berries turn blue-black; red/purple fall leaf color; good hedge plant (pH 6.8-7.2)              |

### Shrub and Tree Species Selection Guide

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

#### Freshwater Flooded

*Baccharis halimifolia*  
*Cephalanthus occidentalis*  
*Clethra alnifolia*  
*Cornus amomum*  
*Cornus racemosa*  
*Ilex glabra*  
*Itea virginica*  
*Lindera benzoin*  
*Sambucus canadensis*  
*Vaccinium corymbosum*  
*Viburnum dentatum*  
*Viburnum lentago*  
*Viburnum nudum*

#### Salt Water

*Baccharis halimifolia*  
*Iva frutescens*  
*Morella pennsylvanica*  
*Morella cerifera*



***Sambucus canadensis***  
elderberry

## 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.

### WETLAND CHARACTERISTICS

#### Brackish to Saltwater Full Sun

##### **Water Depth Above MHW**

##### Grasses/Grass-like

*Distichlis spicata*  
*Panicum amarum*  
*Panicum virgatum*  
*Spartina patens*

##### Flowering

*Hibiscus moscheutos*  
*Kosteletzkya virginica*

##### **Water Depth At MHW**

##### Grasses/Grass-like

*Distichlis spicata*  
*Spartina patens*  
*Juncus roemerianus*  
*Schoenoplectus robustus*  
*Spartina alterniflora*

##### Flowering

*Hibiscus moscheutos*  
*Kosteletzkya virginica*

##### **Water Depth Below MHW**

##### Grasses/Grass-like

*Spartina alterniflora*



# WETLAND CHARACTERISTICS

## Freshwater Full Sun

Water Depth/Flooding Frequency  
Seasonal Inundation

### Grasses/Grass-like

*Carex crinita*

*Chasmanthium latifolium*

*Panicum amarum*

*Panicum virgatum*

### Flowering

*Asclepias incarnata*

*Chelone glabra*

*Conoclinium coelestinum*

*Eutrochium dubium*

*Eutrochium purpureum*

*Helenium autumnale*

*Helianthus angustifolius*

*Hibiscus moscheutos*

*Kosteletzkya virginica*

*Liatris spicata*

*Lobelia cardinalis*

*Lobelia siphilitica*

*Monarda fistulosa*

*Penstemon digitalis*

*Pycnanthemum muticum*

*Pycnanthemum virginianum*

*Rudbeckia fulgida*

*Vernonia noveboracensis*





# WETLAND CHARACTERISTICS

## Freshwater Full Sun

**Water Depth/Flooding Frequency**  
**Irregular (only during large storms)**

### Grasses/Grass-like

*Andropogon virginicus*

*Panicum amarum*

*Carex crinita*

*Panicum virgatum*

*Chasmanthium latifolium*

*Schizachyrium scoparium*

### Flowering

*Agastache foeniculum*

*Hibiscus moscheutos*

*Aquilegia canadensis*

*Kosteletzkya virginica*

*Asclepias incarnata*

*Liatris spicata*

*Asclepias tuberosa*

*Lobelia cardinalis*

*Baptisa australis*

*Lobelia siphilitica*

*Baptisia tinctoria*

*Monarda fistulosa*

*Chelone glabra*

*Penstemon digitalis*

*Conoclinium coelestinum*

*Pycnanthemum muticum*

*Eupatorium perfoliatum*

*Pycnanthemum virginianum*

*Eutrochium dubium*

*Rudbeckia fulgida*

*Eutrochium purpureum*

*Symphotrichum novae-angliae*

*Helenium autumnale*

*Vernonia noveboracensis*

*Helianthus angustifolius*



***Monarda fistulosa***  
**wild bergamot**

# WETLAND CHARACTERISTICS

## Freshwater Full Sun

### **Water Depth 0-3" Permanent**

#### **Grasses/Grass-like**

*Acorus americanus*

*Carex stricta*

*Juncus effusus*

*Schoenoplectus pungens*

*Schoenoplectus*

*tabernaemontani*

#### **Flowering**

*Chelone glabra*

*Helenium autumnale*

*Helianthus angustifolius*

*Hibiscus moscheutos*

*Iris versicolor*

*Lobelia cardinalis*

*Lobelia siphilitica*

*Peltandra virginica*

*Pontederia cordata*

*Sagittaria latifolia*

*Saururus cernuus*

#### **Ferns**

*Osmundus regalis*

### **Water Depth 3-6" Permanent**

*Greater than 6" planting  
depth suggested for quarts  
not plugs*

#### **Grasses/Grass-like**

*Acorus americanus*

*Carex stricta*

*Schoenoplectus pungens*

*Schoenoplectus*

*tabernaemontani*

#### **Flowering**

*Helenium autumnale*

*Hibiscus moscheutos*

*Iris versicolor*

*Peltandra virginica*

*Pontederia cordata*

*Saururus cernuus*

#### **Ferns**

*Osmunda regalis*

### **Water Depth 6-12" Permanent**

*Greater than 6" planting  
depth suggested for quarts  
not plugs*

#### **Grasses/Grass-like**

*Acorus americanus*

*Carex stricta*

*Schoenoplectus*

*tabernaemontani*

#### **Flowering**

*Peltandra virginica*

*Pontederia cordata*

*Sagittaria latifolia*

*Saururus cernuus*

#### **Ferns**

*Osmunda regalis*

## Freshwater Shade

#### **Grasses/Grass-like**

*Carex crinita*

*Carex stricta*

#### **Flowering**

*Chelone glabra*

*Conoclinium coelestinum*

*Helenium autumnale*

*Lobelia cardinalis*

*Lobelia siphilitica*

*Peltandra virginica*



8133 Elliott Road Suite 240  
Easton, Maryland 21601

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

*First Wetland  
Native Plant Nursery  
in the Nation*

CURRENT RESIDENT OR

*Growing large quantities  
of shoreline grasses  
for your projects*

