Native Plants

Mat is the Delaware Estuary?

The Delaware Estuary is located in the Mid-Atlantic region of the United States, surrounded by portions of Pennsylvania, New Jersey and Delaware. An estuary is where fresh water from a river mixes with salt water from an ocean or bay. Estuaries are fragile ecosystems, which support some of the Earth's richest and most productive habitats. The Delaware Estuary stretches approximately 134 miles, from the falls of the Delaware River between Trenton, New Jersey and Morrisville, Pennsylvania, south to the mouth of the Delaware Bay between Cape May, New Jersey and Cape Henlopen, Delaware.

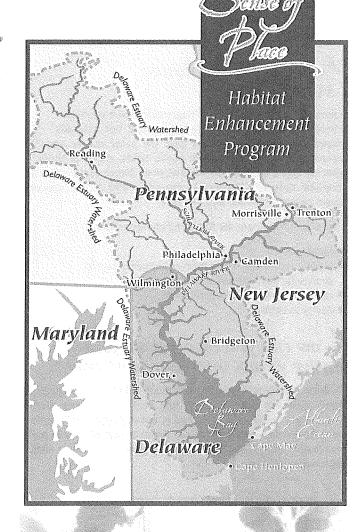
Mhat are our landscaping traditions?

Our landscape history began when the first settlers arrived in the new world. Colonists brought many plants from their homeland and created landscapes that imitated familiar European-style gardens. Three centuries later, our landscapes are dominated by European design elements. Expansive turf-grass lawns with symmetrically planted and shaped trees and shrubs, along with flowerbeds, characterize this landscape tradition. Many of the plants we use are nonnatives and because they have not evolved under local conditions, these plants require a great deal of maintenance to survive. Some are aggressive and have escaped from cultivation, thereby invading and threatening the survival of our native plant communities. These plants are known as exotics or non-native species.

Today, few of us have the time or resources needed to maintain formal, high-maintenance landscapes. At the same time, we are recognizing the threats that non-native species pose to biological diversity. As a result, people are exploring environmentally sound and attractive landscapes, reducing the size of lawns, and incorporating locally native plant species.

May native plants?

Native plants are those species that were present before European settlement in North America. These species have evolved in the presence of local soils and climate conditions and have developed natural defenses to insects and disease. They also require less water and can tolerate drought conditions better than exotic species. These characteristics make native species easy to grow, low maintenance plants with many environmental benefits.



//ow do native plants benefit the Delaware Estuary?

As rain washes over the land, it carries nutrients and chemicals from lawns and other landscapes to storm drains and groundwater. This rainfall eventually drains into streams and rivers. Because native plants require less fertilizer and pesticides, using them reduces the amount of these pollutants that eventually enter our waterways. Therefore, when we use locally native species on our landscapes we make a meaningful contribution to improving water quality in local watersheds and ultimately the Delaware Estuary.

Native plant species also significantly improve wildlife habitat. Native wildlife has evolved with native plants. Birds, mammals and other wildlife depend on vegetation for food and shelter, including nesting and other types of breeding sites. Unmowed stretches of grass will not only provide valuable habitat, but also help to filter out pollutants in the stormwater.

Exotic invasive plants: What are they?

Exotic plants are any form of vegetation that have been introduced to an area where they would not naturally occur. Because they do not have the same checks and balances as they did in their native lands, many of these species take over and become invasive. These exotic species displace naturally occurring vegetation and in the process, upset nature's balance and diversity.

Invasive plants share the following characteristics:

- rapid growth
- prolific reproductive capabilities including highly successful seed dispersal and germination
- rampant spread and colonization
- costly to control

How can you incorporate locally native plants into your landscape?

Develop a long-term plan to introduce locally native species. A good approach is to work on one section at a time, perhaps designing a native wildflower bed or converting a small section of lawn back into a native meadow. Another approach is to replace non-native plants lost from storm damage, insects or disease, with native species.

Mhere can you purchase native plant species?

Native plants are sometimes hard to find because of people's fascination with rare and exotic species. During the past few years, the nursery industry has begun to recognize the importance of adding locally native species to their plant inventories that are available for retail sale. If your local garden center has not yet caught onto this trend, explain that you want locally native plant species that need less fertilizer, less pesticide, less water, and that provide better habitat for native wildlife species.

Places where you can purchase native plants and seeds:

Bowman's Hill Wildflower Preserve Washington Crossing Historic Park P.O. Box 685 New Hope, PA 18938 215/862-2924 www.bhwp.org

Brandywine Conservancy P.O. Box 141 Chadds Ford, PA 19317 215/388-7601

Croshaw Nursery P.O. Box 339, Mill Land Columbus, NJ 08022 609/298-0477

Crownsville Nursery P.O. Box 797 Crownsville, MD 21032 410/849-3413

Environmental Concern P,O. Box P 210 West Chew Ave. St. Michaels, MD 21663 301/745-9620

Ernst Conservation Seeds 9006 Mercer Pike Meadville, PA 16335 814/336-2402 800/873-3321

Natural Landscapes 354 N. Jennersville Rd. West Grove, PA 19390 610/869-3788

Niche Gardens
IIII Dawson Road
Chapel Hill, NC 27516
919/967-0078
www.nichegdn.com

North Creek Nurseries 388 North Creek Road Landenburg, PA 19350 610/255-0100 Octoraro Native Plant Nursery 6126 Street Road Kirkwood, PA 17536 717/529-4099

Pinelands Nursery 323 Island Rd. Columbus, NJ 08022 609/291-9486

Sylva Native Nursery & Seeds 1683 Sieling Farm Road New Freedom, PA 17349 717/227-0486 717/227-0484 fax

Temple University – Ambler Campus Native Plant Propagation Center 580 Meetinghouse Rd. Ambler, PA 19002 215/283-1330

Toadshade Wildflower Farm 53 Everittstown Rd. Frenchtown, NJ 08825 908/996-7500 www.toadshadc.com

We-Du Nurseries Route 5, Box 724 Marion, NC 28752 828/738-8300 www.we.du.com

Wild Earth Nursery 49 Mead Ave. Freehold, NJ 07728 732/308-9777 www.wildcarth.com





Printed on recycled pape 3/02

Examples of Native Plants of the Delaware Estuary Region:



Flowering Perennials

Butterflyweed
New England aster
Blazing star
Wild Bergamot
Beard tongue
Eastern coneflower
Black-eyed Susan
Wrinkle-leaf goldenrod

Asclepias tuberosa Aster novae-angliae Liatris spicata Monarda fistulosa Penstemon digitalis Rudbeckia fulgida Rudbeckia hirta Solidago rugosa

Grasses

Big blue-stem Switchgrass Little blue-stem Indian grass Purple top Andropogon gerardii Panicum virgatum Schizachyrium scoparium Sorghastrum nutans Tridens flavus

Trees

Black gum, tupelo Fringe-tree Flowering dogwood River birch Redbud Red cedar Serviceberry Willow Oak Wild Black Cherry White ash Nyssa sylvatica
Chionanthus virginicus
Cornus florida
Betula nigra
Cercis canadensis
Juniperus virginiana
Amelanchier canadensis
Quercus phellos
Prunus serotina Ehrh.
Fraxinus americana

Web sites to find out more information on native plants:

Brandywine River Museum www.brandywinemuseum.org

Delaware Native Plant Society www.delanet.com/~dnpswp/

Native Plant Society of New Jersey www.geocities.com/RainForest/5356

Natural Lands Trust www.natlands.org/Library/nativeplants.html

North American Native Plant Society www.nanps.org

Pennsylvania Native Plant Society www.pawildflower.org

Wild Ones www.for-wild.org/landscap.htm

The following are some non-native invasive plants that have caused problems in the Delaware Estuary region.

Please do not use the following plants:

Amur maple Norway maple Tree of heaven Japanese barberry Paper mulberry Butterfly bush Oriental or Asiatic

bittersweet Russian/Autumn olive

Burning bush
Wintercreeper
Japanese knotwood
Purple loosestrife
English ivy
Japanese honeysuckle
White mulberry
Princess tree
Reed canary grass
Common reed
Bamboo
Kudzu
White poplar
Common/Tall hedge
buckthorn

Multiflora rose Japanese spirea Japanese yew Siberian elm Periwinkle Wisteria Acer ginnala Acer platinoides Ailanthus altissima Berberis thunbergii Broussonetia papyrifera Budleia davidii

Celastis orbiculatus Elaegnus angustifolia and Elaegnus umbellata Euonymous alatus Euonymous fortunei Fallopia japonica Lythrum salicaria Hedera helix Lonicera japonica Morus alba Pawlownia tomentosa Phalaris arundinacea Phragmites australis Phylostachys aubea Pueraria lobata Populus alba

Rhamnus cathartica and Rhamnus frangula Rosa multiflora Spiraea japonica Taxus cuspidata Ulmus pumila Vinca major and Vinca minor Wisteria sinensis





Printed on recycled paper. 3/02

