

## The Benefits of a Native Landscape

Native plants and animals sustain the environment on which we ourselves depend.


By planting native species in your streamside buffer, you are providing an excellent opportunity for our native birds, insects and other willlife to thrive in the habitat they need. Seeds from your native species can travel throughout the watershed, promoting a healthier community environment.

Furthermore, native plants are much better adapted to our specific environment - the climate and conditions of this area. Natives are therefore easier to grow and require far less maintenance than their non-native counterparts.

Native plants can provide year-round color and texture in your streamside area or garden. Vibrant flowers in the spring, colorful berries in the summer, deep colors in the fall, and contrasting bark and branch patterns in the winter are just some of the diverse characteristics of the many native plants available.
Use the chart of plants inside as a guide to select ferns, flowers, grasses, shrubs and trees native to Pennsylvania. They are beautiful, easy to maintain, and they attract wildlife. Important local resources for native plants are listed on the back of this brochure.


For more information contact:


Delaware County Conservation District Rose Tree Park - Hunt Club 1521 N. Providence Road Media, PA 19063 610-892-9484 www.delcocd.org

CHESTER COUNTY
CONSERVATION DISTRICT

## Chester County Conservation District

688 Unionville Road Suite 200
Kennett Square, PA 19348
610-925-4920
www.chesco.org/conservation

## Native plant sales in the region:

Bowman's Hill Wildflower Preserve www.bhwp.org

Brandywine Conservancy/Brandywine River Museum http://www.brandywinemuseum.org/

Scott Arboretum of Swarthmore College www.scottarboretum.org

Tyler Arboretum
www.tylerarboretum.org

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Taking good care of a stream involves taking care of the land around it. A streamside buffer (or riparian buffer) is a planted area along the edge of the stream.
A well-planted streamside buffer:

- absorbs nutrients and pollutants
- stablizes the bank and prevent erosion
- reduces floodwater damage
- filters out sediment
- helps control the temperature of the stream


## Creating a Streamside Buffer

Begin with a"no mow" or"no graze zone" along your stream banks. A buffer of any width is more beneficial than grass. Make yours as wide as possible.

Plant trees and shrubs in your buffer area. They provide many long-lasting benefits and can be quite inexpensive to establish and maintain.
Using shrubs will give your buffer a quick start; many reach full size in just a few years.
Where you do have lawn, set your mower blades at least three inches high. Taller grass slows runoff, resists drought and needs less fertilizer.

## Stabilizing Your Streambank

It is best to work with professionals when looking for the causes of and solutions to erosion problems. Where buffers alone aren't enough, there are many new and innovative techniques to help solve the problem. Contact your regional office of the Pennsylvania Department of Environmental Protection (DEP) before making plans to alter a streambank. Permits are likely to be required.

## Top Reasons Not to Mow

## Promotes bank stability -

Deep rooted native plants hold soil in place and keep banks stable. Turf grass has roots only an inch or two deep - not very effective at preventing erosion!

## Flood flow reduction -

Fully grown vegetation slows the velocity of overland flows by providing enough resistance to allow some of the water to infiltrate the soil. This helps to recharge groundwater and reduces flood damage downstream Water quality -
Natural vegetation removes pollutants and fine sediment from the waterway, leaving water cleaner and clearer.

## Reduce Pollution

Most stream pollution comes from manure, fertilizers, road salts, oil and other chemicals. Called non-point source pollution, these come from the entire watershed rather than from any one point. Together, these pollutants add up in the streams and become a big problem. Other accumulated pollution includes trash and yard debris that washes into the streams.

## To protect a stream from pollution:

- don't overuse fertilizers - more is not better - and don't use fertilizer near streams.
- limit your overall use of pesticides and herbicides, and use extreme caution when using them near streams.
- compost, don't bag, yard waste. Leave lawn trimmings in place for effective recycling of nutrients.
- don't burn refuse near streambanks.
- don't store or dump manure, garden waste, or grass clippings near streams.
- store firewood, trash, or other materials away from streams.
- never dump trash or chemicals into streams, storm drains or sewers.
- keep farm animals out of and away from the stream. Contact the county conservation office to find out about farm fencing programs.

Reduction of mosquito habitat -
Turf grass does not absorb water as well as full-height vegetation; consequently, ponding occurs which makes ideal habitat for mosquito breeding. Higher vegetation may absorb more water and decrease the opportunity for mosquitos to breed.
Wildlife habitat
Stream banks in a natural state provide habitat for a diversity of reptiles, amphibians, birds, and small mammals. Fish and aquatic insects are also protected by the purifying function of a buffer.

## Caring for Streamside Buffers - What to Plant?

Often, when left to grow up on its own, a streamside buffer will contain mostly weeds and other undesireable plants. One way to make sure this doesn't happen is to plant native plants. The plants below represent just a limited selection of Pennsylvania's native species appropriate for planting throughout the state along streams and in adjacent floodplains and wetlands. Choose plants adapted for your soil conditions, and your garden will thrive with less watering and without the need for chemical fertilizers or pesticides. There are many resources to help homeowners with native plantings. For some help, contact one of the organizations on the back of this brochure, or visit one of the following websites: PA Department of Conservation and Natural Resources www.denr.state.pa.us or PA Native Plant Society - www.pawildflower.org

Illustrations by Erin Frederick, Lehigh County Conservation District


Cinnamon Fern Osumnda cinnamomea Full sun to shade Wet to moist soils Cinnamon-colored fertile fronds; moist acidic soils Photo: Robert Mohlenbrock, USDA


Wild Bergamot
Monarda fistulosa Blooms May to September Full sun to light shade Moist to dry soils Dry open woods, wet meadows, ditches, edge of woods and marshes

## Blue Vervain <br> Verbena hastata

 Blooms June to September Full sun to light shadeDry soils
Bright flowers; herbal uses; streambanks and moist meadows

## Purple Coneflower

Echinacea purpurea
Blooms April to September Full sun to light shade Moist soils
Herbal uses

Blue Mist Flower
Conoclinium coelestinum Blooms July to November Full sun to light shade Moist soils
Good border plant or colonizing ground cover; attracts butterflies


Royal Fern
Osmunda regalis
Part shade Consistently wet or saturated soils
Unique form and texture
Photo: Robert Mohlenbrock, USDA


## Black-eyed Susan Rudbeckia hirta

Blooms May to June
Moist to dry soils Full sun to light shade Attracts birds and butterflies

## Boneset

Eupatorium perfoliatum Blooms July to August Light shade to full shade Wet to moist soils Wet meadow species

Ironweed
Vernonia noveboracensis Blooms August to September Full sun
Wet to moist soils
Tall plant with brilliant late summer flowers

New England Aste
Aster novae-angliae
Blooms August to October
Full sun to light shade
Wet to moist soils
Showy and frequently cultivated; dry to moist meadows


## Sensitive Fern

Onoclea sensibilis
Full sun to shade
Wet to moist soils
Sunny or shaded swamps, marshes, moist meadows Forms colonizing masses

Blue Lobelia
Lobelia siphilitica
Blooms from July to October
Light shade
Wet to moist soils
Attracts hummingbirds

Plains Coreopsis
Coreopsis tinctoria
Blooms April to June Full sun to light shade Moist to dry soils

Joe-Pye Weed
Eupatorium fistulosum Blooms August to September Light shade Wet to moist soils Attracts beneficial insects; herbal use

Common Sneezeweed
Helenium autumnale Blooms July to September Full sun Consistently wet to moist soils
Moist open areas along
streams \& ponds; wet meadows


