

Living Streamside

Guide to Designing your Property and Protecting our Watershed



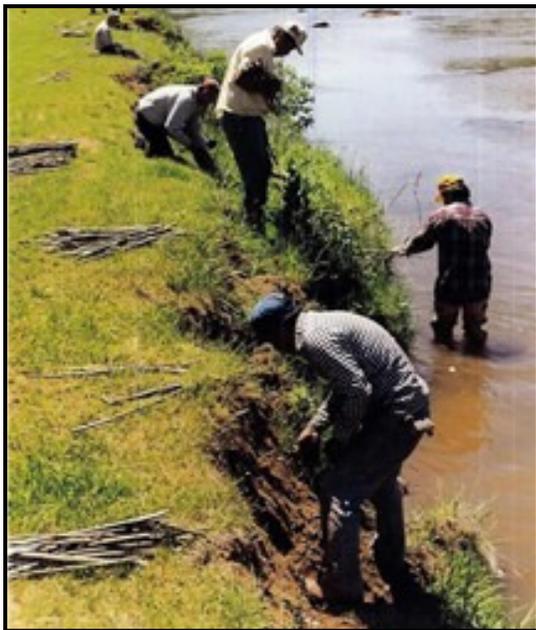
BACKYARD BUFFER PROGRAM

Live Stakes

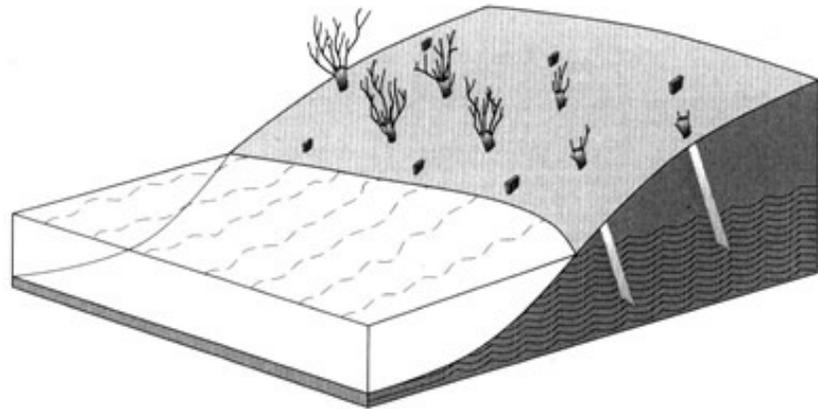
Tip Sheet #8

Description:

- Native shrubs cuttings (2-3 feet in length) planted into streambank.
- Cost: \$1-2 each bought in bulk.
- In 2-3 years shrubs become established.



Source: Foggy Mountain Nursery (www.foggymntn.com)



Stream Corridor Restoration: Principles, Processes, and Practices, 10/98, by the Federal Interagency Stream Restoration Working Group (FISRWG).

Functions:

- Velocity of flow through & around vegetation is slowed by friction which can help to prevent erosion.
- Vegetation provides wildlife habitat (e.g.; cover, nesting, food).
- Vegetation overhanging stream provides shade, which cools the water, improving oxygen and temperature conditions for aquatic wildlife (fish and insects).



For more information, contact:
Jeanne Waldowski
Philadelphia Water Department (Office of Watersheds)
215-685-4945
Jeanne.waldowski@phila.gov
<http://www.phillywatersheds.org/public>

Living Streamside

Guide to Designing your Property and Protecting our Watershed



BACKYARD BUFFER PROGRAM

Live Stakes

Tip Sheet #8

Plant List:

Common Name	Scientific Name	Mature Height (ft)	Sun/ Shade	Moisture	Soil
Silky dogwood	<i>Cornus amomum</i>	6-12	FS/PS	MW	CLS
Black Willow	<i>Salix nigra</i>	35-50	FS/PS	MW	CLS
Common Buttonbush	<i>Cephalanthus occidentalis</i>	6-12	FS/PS/S	MW	CLSO
Southern arrowwood	<i>Viburnum dentatum</i>	10-15	FS/PS/S	DMW	LSO
Eastern Cottonwood	<i>Populus deltoides</i>	75-100	FS	MW	CLS
Red Osier Dogwood	<i>Cornus stolonifera</i>	3-10	FS/PS	MW	CLS
Common Ninebark	<i>Physocarpus opulifolius</i>	5-12	FS/PS	MW	CL
American Sycamore	<i>Platanus occidentalis</i>	75-100	FS/PS	MW	LS
Sandbar Willow	<i>Salix exigua</i>	3-20	FS/PS	MW	LS
Silky Willow	<i>Salix sericea</i>	12	FS/PS/S	MW	CLS
Pussy Willow	<i>Salix discolor</i>	6-15	FS/PS	MW	CLS

FS: Full Sun, PS: Partial Sun, S: Shade; D: Dry, M: Moist, W: Wet; C: Clay, L: Loam, S: Silt, O: Organic

General Installation:

1. Drive a pilot hole prior into the bank with rebar or a pointed smooth rod.
2. Install on bank face just above water level and not beyond top of bank.
3. Approximately 2/3 of the stake is inserted into the bank leaving 1/3 exposed above ground surface.
4. Install in triangular pattern, spacing plants 2-3 feet apart.
5. Kept moist during storage and installation.
6. Install between November 1 and April 31.

Source & Cost Estimate:

Ernst Conservation Seed (retail/\$25min order), web: www.ernstseed.com, phone: (800) 873-3321. \$1-2/unit, min. \$25 per order. Shipping estimate for 100 units is \$25-30

Note: PWD does not endorse any products or suppliers identified nor can they verify any information/claims these sources provide. Design and installation of a project is site specific and the responsibility of the property owner.



For more information, contact:
Jeanne Waldowski
Philadelphia Water Department (Office of Watersheds)
215-685-4945
Jeanne.waldowski@phila.gov
<http://www.phillywatersheds.org/public>