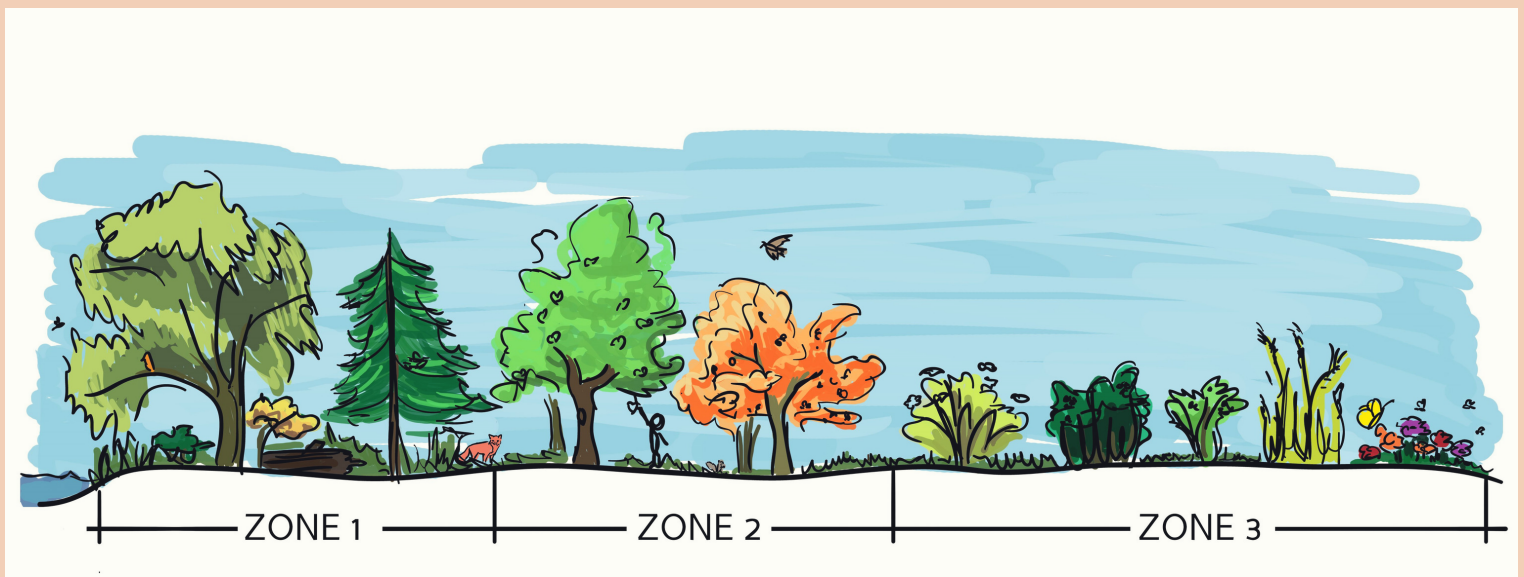


Multi-functional Riparian Forest Buffers

WHAT TO CONSIDER WHEN DESIGNING, PLANTING AND PLANNING FOR YOUR BUFFER

What is a Multi-functional Riparian Forest Buffer?

Riparian Forest Buffers are the strips of trees and shrubs along waterways that help protect stream health. The Multi-functional Riparian Forest Buffer concept was designed to appeal to a broader set of landowners, provide greater flexibility, address long-term maintenance issues while allowing landowners the potential to earn an income from their buffers or harvest goods for their own enjoyment and use.



DESIGN

Multi-functional Buffers typically have 3 zones. All buffers must have a minimum width of 15 feet, but an average buffer width of at least 35 feet is strongly encouraged.

ZONE 1: UNMANAGED FOREST

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ZONE 2: MANAGED NUT/FRUIT TREES AND SHRUBS

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ZONE 3: MANAGED WOODY FLORALS AND FORBS

FROM STREAM EDGE TO 15 FEET. NATIVE RIPARIAN FOREST TREES AND SHRUBS - NO HARVESTING.

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FROM EDGE OF ZONE 1 EXTENDING AN ADDITIONAL 20 FEET (TO 35 FEET TOTAL). FRUIT AND NUT TREES AND SHRUBS: NON-MECHANICAL HARVEST ALLOWED.

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FROM EDGE OF ZONE 2 EXTENDING AN ADDITIONAL 50 TO 100+ FEET. WOODY FLORALS AND FORBS, INCLUDING BIOMASS CROPS: MECHANICAL HARVEST ALLOWED.

Species Selection and Potential Products

ALL SPECIES SURVIVABILITY WILL DEPEND ON SITE CONDITIONS. CONSULT YOUR LOCAL SERVICE FORESTER FOR SPECIES RECOMMENDATIONS.



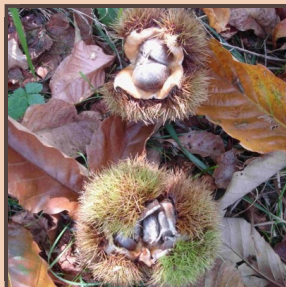
Paw Paw (*Asimina triloba*):
Native tree; best production in full sun; bears fruit after 5-7 years; harvest when fruit softens and turns yellow (fall).
Products: Fresh fruit; jam; whole sale; frozen pulp.

Highbush Blueberry (*Vaccinium corymbosum*): Native shrub; grows in moist, acidic soils; harvest from mid- to late-summer.
Products: Fresh berries; juice; wine; syrup; cough drops; concentrate.



Persimmon (*Diospyros virginiana*): Small, native tree; grows in moist soils; bears fruit after 4-6 years; harvest when the fruit turns orange (fall).
Products: Fresh fruit; frozen; dried fruit; baked goods.

Common Elderberry (*Sambucus canadensis*): Native shrub; grows in moist-wet soils; harvest in late summer/early fall.
Products: Fresh berries; juice; wine; syrup; cough drops; concentrate; cuttings.



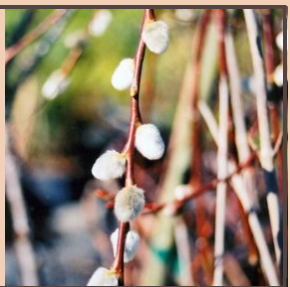
Chestnut (*Castanea spp.*):
Yields nuts after 4-6 years after planting; ripens in late summer/early fall.
Products: shelled nuts; gluten-free flour.
* upland areas only

American Hazelnut (*Corylus americana*): Dense, deciduous shrub; grows in well drained soils; harvest fruits late summer/early fall.
Products: shelled nuts; candies; flour; butters and oils.



Witch-hazel (*Hamamelis virginiana*): Native, shade tolerant; fragrant; yellow flowers bloom in the fall.
Products: medicinal properties; cuttings can be sold to the floral industry.

Willow species (*Salix spp.*):
Pussy willow, curly willow and others can be coppiced for their ornamental properties.
Products: cuttings can be sold to the floral market; crafts and decorative wreaths.



Dogwood species (*Cornus spp.*): Redosier dogwood and silky dogwood can be coppiced for their ornamental properties.
Products: Cuttings can be sold to the floral market; crafts and decorative wreaths.

Serviceberry (*Amelanchier spp.*):
Medium-sized, native tree; grows in moist soils; harvest fruit in early summer.
Products: Fresh berries; baked goods; jam.



FOR MORE INFORMATION CONTACT YOUR LOCAL SERVICE FORESTER:
WWW.DCNR.STATE.PA.US/FORESTRY/YOURWOODS



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DEPARTMENT OF CONSERVATION
AND NATURAL RESOURCES